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**United States**  
**Securities and Exchange Commission**  
Washington, D.C. 20549

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**Form 40-F**

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REGISTRATION STATEMENT PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934

OR

ANNUAL REPORT PURSUANT TO SECTION 13(a) OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2019

Commission File Number 001-15014

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**Sun Life Financial Inc.**

(Exact name of Registrant as specified in its charter)

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**Canada**

(Province or other jurisdiction of incorporation or organization)

**52411**

(Primary Standard Industrial Classification Code Number (if applicable))

**Not Applicable**

(I.R.S. Employer Identification Number (if applicable))

**1 York Street, 31st Floor, Toronto, Ontario, Canada M5J 0B6 (416) 979-9966**  
(Address and telephone number of Registrant's principal executive offices)

**Sun Life Assurance Company of Canada – U.S. Operations Holdings, Inc.**  
**One Sun Life Executive Park**  
**Wellesley Hills, Massachusetts 02481**  
**(781) 237-6030**

(Name, address (including zip code) and telephone number (including area code) of agent for service in the United States)

Securities registered or to be registered pursuant to Section 12(b) of the Act:

Title of each class  
**Common Shares**

Trading Symbol(s)  
**SLF**

Name of each exchange on which registered  
**New York Stock Exchange**

Securities registered or to be registered pursuant to Section 12(g) of the Act.

**Not Applicable**  
(Title of Class)

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act.

**Not Applicable**  
(Title of Class)

**For annual reports, indicate by check mark the information filed with this Form:**

**Annual information form**

**Audited annual financial statements**

Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the period covered by the annual report.

<b>Common Shares</b>	<b>587,843,688</b>
<b>Class A Preferred Shares Series 1</b>	<b>16,000,000</b>
<b>Class A Preferred Shares Series 2</b>	<b>13,000,000</b>
<b>Class A Preferred Shares Series 3</b>	<b>10,000,000</b>
<b>Class A Preferred Shares Series 4</b>	<b>12,000,000</b>
<b>Class A Preferred Shares Series 5</b>	<b>10,000,000</b>
<b>Class A Preferred Shares Series 8R</b>	<b>5,192,686</b>
<b>Class A Preferred Shares Series 9QR</b>	<b>6,007,314</b>
<b>Class A Preferred Shares Series 10R</b>	<b>6,919,928</b>
<b>Class A Preferred Shares Series 11QR</b>	<b>1,080,072</b>
<b>Class A Preferred Shares Series 12R</b>	<b>12,000,000</b>

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Exchange Act during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days.

Yes  No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).

Yes  No

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 12b-2 of the Exchange Act.

Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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## **INCORPORATION BY REFERENCE**

The following information is incorporated by reference in this annual report on Form 40-F:

### **Disclosure Controls and Procedures**

The information under the heading “Accounting and Control Matters – Disclosure Controls and Procedures” in the Company’s Management’s Discussion and Analysis for the year ended December 31, 2019 (the “**2019 Annual MD&A**”) is incorporated by reference herein.

A copy of the Company’s 2019 Annual MD&A is attached hereto as Exhibit 99.1.

### **Management’s Annual Report on Internal Control Over Financial Reporting**

The information under the heading “Accounting and Control Matters – Disclosure Controls and Procedures – Management’s Report on Internal Control over Financial Reporting” in the Company’s 2019 Annual MD&A and the information in the management report titled “Financial Reporting Responsibilities”, attached to the Company’s annual consolidated financial statements for the year ended December 31, 2019 (the “**2019 Annual Financial Statements**”) is incorporated by reference herein.

A copy of the Company’s 2019 Annual MD&A is attached hereto as Exhibit 99.1. A copy of the Company’s 2019 Annual Financial Statements are attached hereto as Exhibit 99.2.

### **Attestation Report of the Registered Public Accounting Firm**

The “Report of Independent Registered Public Accounting Firm” with respect to the audit of the internal control over financial reporting of the Company, which accompanies the Company’s 2019 Annual Financial Statements is incorporated by reference herein.

The Company’s 2019 Annual Financial Statements are attached hereto as Exhibit 99.2.

### **Changes in Internal Control Over Financial Reporting**

The information under the heading “Accounting and Control Matters – Disclosure Controls and Procedures – Changes in Internal Control over Financial Reporting” in the Company’s 2019 Annual MD&A is incorporated by reference herein.

A copy of the Company’s 2019 Annual MD&A is attached hereto as Exhibit 99.1.

### **Identification of Audit Committee**

The information under the heading “Directors and Executive Officers – Audit Committee” in the Company’s annual information form dated February 12, 2020 (the “**2019 AIF**”) is incorporated by reference herein.

A copy of the Company’s 2019 AIF is attached hereto as Exhibit 99.3.

### **Audit Committee Financial Expert**

The information under the heading “Directors and Executive Officers – Audit Committee” in the Company’s 2019 AIF is incorporated by reference herein.

A copy of the Company’s 2019 AIF is attached hereto as Exhibit 99.3.

**Code of Ethics**

The information under the heading “Code of Business Conduct” in the Company’s 2019 AIF is incorporated by reference herein.

A copy of the Company’s 2019 AIF is attached hereto as [Exhibit 99.3](#).

A copy of the current Sun Life Financial Code of Business Conduct is filed as Exhibit 14.1 to the Company’s annual report on Form 40-F for the year ended December 31, 2017 and is also available on our website at sunlife.com.

**Principal Accountant Fees and Services**

The information under the headings “Principal Accountant Fees and Services” in the Company’s 2019 AIF is incorporated by reference herein.

A copy of the Company’s 2019 AIF is attached hereto as [Exhibit 99.3](#).

**Off-Balance Sheet Arrangements**

The information under the heading “Additional Financial Disclosure – Items related to Statement of Financial Position - Off-Balance Sheet Arrangements” in the Company’s 2019 Annual MD&A is incorporated by reference herein.

A copy of the Company’s 2019 Annual MD&A is attached hereto as [Exhibit 99.1](#).

**Tabular Disclosure of Contractual Obligations**

The table entitled “Financial Liabilities and Contractual Obligations” included under the heading “Risk Management – Risk Categories – Liquidity Risk” in the Company’s 2019 Annual MD&A is incorporated by reference herein.

A copy of the Company’s 2019 Annual MD&A is attached hereto as [Exhibit 99.1](#).

**Comparison with New York Stock Exchange Governance Rules**

The Company’s governance processes and practices are consistent with the New York Stock Exchange corporate governance rules for U.S. publicly-listed companies.

**UNDERTAKING**

Registrant undertakes to make available, in person or by telephone, representatives to respond to inquiries made by the Commission staff, and to furnish promptly, when requested to do so by the Commission staff, information relating to: the securities registered pursuant to Form 40-F; the securities in relation to which the obligation to file an annual report on Form 40-F arises; or transactions in said securities.

**CONSENT TO SERVICE OF PROCESS**

The Company has previously filed a Form F-X in connection with the class of securities in relation to which the obligation to file this annual report on Form 40-F arises. Any change to the name or address of the Company’s agent for service of process shall be communicated promptly to the Securities and Exchange Commission by an amendment to the Form F-X referencing the file number of the relevant registration statement of the Company.

## SIGNATURES

Pursuant to the requirements of the Exchange Act, the Registrant certifies that it meets all of the requirements for filing on Form 40-F and has duly caused this annual report to be signed on its behalf by the undersigned, thereto duly authorized.

### **Sun Life Financial Inc.**

By: /s/ Melissa J. Kennedy

Melissa J. Kennedy

Executive Vice-President,

Chief Legal Officer & Public Affairs

Dated: February 13, 2020

**EXHIBITS:**

- 99.1 Annual Management's Discussion and Analysis for the year ended December 31, 2019
- 99.2 Consolidated Annual Financial Statements for the year ended December 31, 2019
- 99.3 Annual Information Form dated February 12, 2020 for the year ended December 31, 2019
- 99.4 Certifications required by Rule 13a-14(a) or Rule 15d-14(a), pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 99.5 Certifications required by Rule 13a-14(b) or Rule 15d-14(b) and Section 1350 of Chapter 63 of Title 18 of United States Code, pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
- 99.6 Consent of Independent Registered Public Accounting Firm
- 99.7 Consent of Appointed Actuary
- 101 Interactive Data File

# MANAGEMENT'S DISCUSSION AND ANALYSIS

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# Management's Discussion and Analysis

February 12, 2020

## A. How We Report Our Results

Sun Life Financial Inc. ("SLF Inc.") is a leading international financial services organization providing insurance, wealth and asset management solutions to individual and corporate Clients. Sun Life has operations in a number of markets worldwide, including Canada, the United States, the United Kingdom, Ireland, Hong Kong, the Philippines, Japan, Indonesia, India, China, Australia, Singapore, Vietnam, Malaysia and Bermuda. As of December 31, 2019, Sun Life had total assets under management ("AUM") of \$1,099 billion.

SLF Inc. is a publicly traded company domiciled in Canada and is the holding company of Sun Life Assurance Company of Canada ("Sun Life Assurance"). In this management's discussion and analysis ("MD&A"), SLF Inc., its subsidiaries and, where applicable, its joint ventures and associates are collectively referred to as "the Company", "Sun Life", "we", "our", and "us". Unless otherwise indicated, all information in this MD&A is presented as at and for the year ended December 31, 2019 and the information contained in this document is in Canadian dollars. Where information at and for the year ended December 31, 2019 is not available, information available for the latest period before December 31, 2019 is used. Except where otherwise noted, financial information is presented in accordance with International Financial Reporting Standards ("IFRS") and the accounting requirements of the Office of the Superintendent of Financial Institutions ("OSFI"). Reported net income (loss) refers to Common shareholders' net income (loss) determined in accordance with IFRS.

We manage our operations and report our financial results in five business segments: Canada, United States ("U.S."), Asset Management, Asia, and Corporate. Prior to the second quarter of 2019, these business segments were referred to as Sun Life Financial Canada, Sun Life Financial U.S., Sun Life Financial Asset Management, Sun Life Financial Asia, and Corporate, respectively, in our interim and annual MD&A. Information concerning these segments is included in our annual and interim consolidated financial statements and accompanying notes ("Annual Consolidated Financial Statements" and "Interim Consolidated Financial Statements", respectively, and "Consolidated Financial Statements" collectively) and this MD&A. Effective in the first quarter of 2018, we transferred our International business unit from the U.S. to Asia and comparable periods have been changed to conform to the current year presentation.

### i. Use of Non-IFRS Financial Measures

We report certain financial information using non-IFRS financial measures, as we believe that these measures provide information that is useful to investors in understanding our performance and facilitate a comparison of our quarterly and full year results from period to period. These non-IFRS financial measures do not have any standardized meaning and may not be comparable with similar measures used by other companies. For certain non-IFRS financial measures, there are no directly comparable amounts under IFRS. These non-IFRS financial measures should not be viewed in isolation from or as alternatives to measures of financial performance determined in accordance with IFRS. Additional information concerning these non-IFRS financial measures and reconciliations to the closest IFRS measures are available in section L - Non-IFRS Financial Measures in this document. Further additional information concerning these non-IFRS financial measures and reconciliations to the closest IFRS measures are included in the Supplementary Financial Information packages that are available on [www.sunlife.com](http://www.sunlife.com) under Investors - Financial results & reports.

### ii. Forward-looking Statements

Certain statements in this document are forward-looking statements within the meaning of certain securities laws, including the "safe harbour" provisions of the United States Private Securities Litigation Reform Act of 1995 and applicable Canadian securities legislation. Additional information concerning forward-looking statements and important risk factors that could cause our assumptions, estimates, expectations and projections to be inaccurate and our actual results or events to differ materially from those expressed in or implied by such forward-looking statements can be found in section O - Forward-looking Statements in this document.

### iii. Additional Information

Additional information relating to the Company can be found in the Consolidated Financial Statements and SLF Inc.'s Annual Information Form ("AIF") for the year ended December 31, 2019. These documents are filed with securities regulators in Canada and are available at [www.sedar.com](http://www.sedar.com). SLF Inc.'s Annual Consolidated Financial Statements, annual MD&A and AIF are filed with the United States Securities and Exchange Commission ("SEC") in SLF Inc.'s annual report on Form 40-F and SLF Inc.'s interim MD&As and Interim Consolidated Financial Statements are furnished to the SEC on Form 6-Ks and are available at [www.sec.gov](http://www.sec.gov).

## B. Overview

Sun Life is a leading international financial services organization providing a diverse range of insurance, wealth and asset management solutions to individual and corporate Clients.

### Purpose and Ambition

Our Purpose is to help our Clients achieve lifetime financial security and live healthier lives.

Our ambition is to be one of the best insurance and asset management companies in the world. To achieve this, across each of the four pillars of our business we aim to have:

- Top quartile Client scores relative to our competitors
- Each pillar of our business be viewed as one of the best in its market
- Top quartile total shareholder return
- A disproportionate share of top talent, wrapped in an empowering culture

## 1. Strategy

We aim to provide outstanding value to our Clients. Our strategy places the Client at the centre of everything we do. We believe our Client for life strategy and purpose, as described below, will allow us to gain a distinct competitive advantage to achieve our goal to be a leader in each of our four pillars.



### Our Client Strategy

Our Client-centric strategy has five key areas of focus that we are pursuing across each of our four pillars. These areas of focus define how we compete in our markets, extend our competitive advantages, fulfill our purpose and support our ambition to be one of the best insurance and asset management companies in the world.

**Client:** Our Clients are at the centre of everything we do and we are focused on building lasting and trusted Client relationships by providing quality products and services that deliver on our Purpose. We believe this allows us to maximize the value we provide our Clients, and leads to better business outcomes for Sun Life. We achieve this by:

- Making it easier to do business with us
- Being more proactive in contacting and engaging with our Clients
- Delivering consistently superior Client service

**Distribution Excellence:** Our Clients work with high-quality distribution partners who put them at the centre of what they do. Our distribution partners will engage Clients where, when and how they wish, in a personalized and relevant way. We continue to invest in our distribution capabilities, through digital channels and by enabling our advisors, agents, partners and brokers to deliver great Client experiences and focus on meeting Client needs.

**Digital, Data & Analytics:** Our Digital, Data & Analytics capabilities are critical to both delivering value to our Clients and for efficiency and effectiveness, while respecting our Clients' privacy. As consumer preferences evolve and technological advancements enable new possibilities and services, Sun Life is investing in new capabilities across our businesses to reach our Clients more effectively, drive efficiencies and explore new business opportunities. Our focus in these areas is to:

- Digitize current processes and interactions
- Be more proactive, predictive and personalized with our Clients
- Build and deploy new digital business models

**Financial Discipline:** Our continued financial and risk management prudence, efficient use of capital and strong execution will support our medium-term financial objectives and also support us in meeting our aim of top quartile total shareholder returns while maintaining a preferred risk and capital profile. Specific areas of focus are to:

- Deliver strong earnings growth and disciplined expense management to support the enterprise's medium-term objectives
- Create a culture of accountability, purpose and passion for long-term Client and business value embodied by all employees, including a strong focus on efficient use of resources to drive top and bottom line growth

**Talent and Culture:** Delivering on our strategy will require that we maintain our focus on attracting, retaining and developing the best talent, while also continuing to evolve our talent and culture to manage the increasing pace of change. Specifically, our talent goals are to continue to:

- Attract a disproportionate share of top talent across our geographies, wrapped in an empowering culture
- Build on our high performance culture and support and reward our diverse, talented workforce
- Ensure that our focus on our Clients becomes deeply embedded in our unique and inclusive culture
- Remain committed to the highest standards of business ethics and good governance

#### **Our Four Pillars**

Our four pillar approach defines the businesses and markets in which we compete. In each of these pillars, we focus on creating value for our Clients and shareholders in businesses that have strong growth prospects, favourable return on equity and strong capital generation in attractive global markets.

Currently, in our four pillars we are:

#### **A leader in insurance and wealth solutions in our Canadian Home Market**

- Delivering value to over six million Clients via our Group and Individual businesses
- Market leader in providing benefits and pensions in the workplace
- Servicing individuals with a wide range of wealth, health, and insurance products via our retail channels, including our leading SLFD<sup>(1)</sup> network

#### **A leader in U.S. group benefits**

- A market leader in group benefits serving employees and their families with employer-sponsored benefits at workplaces of all sizes across the country including group life, disability, dental, vision, voluntary and supplemental health products
- The largest independent provider of medical stop-loss insurance in the U.S.
- A leader in providing turnkey solutions for insurance and health plan partners through FullscopeRMS, including disability, absence management, life, stop-loss and supplemental health coverages

#### **A leader in Global Asset Management**

- A provider of investment products through MFS Investment Management (“MFS”) and SLC Management that delivers superior value to Clients through traditional active asset management as well as liability driven investing (“LDI”) and alternative asset classes:
  - MFS is a premier asset management firm offering a comprehensive selection of asset management products and services to retail and institutional investors around the world
  - SLC Management is an institutional investment management business delivering customized LDI, alternative fixed income and global real estate solutions

#### **A leader in Asia through distribution excellence in higher growth markets**

- A provider of individual life and health insurance that delivers Client value in all markets
- A provider, in select markets, of asset management and group retirement products and services
- Operating in seven local markets: Philippines, Hong Kong, Indonesia, Vietnam, Malaysia, India and China
- Among the global leaders in providing life insurance solutions to international high-net-worth Clients

#### **Underpinning Our Strategy is an Enduring Commitment to Sustainability**

Sustainability is a priority and is essential to our long-term business success. We strive to contribute to a healthier, more financially resilient, environmentally secure, and economically prosperous world. Our sustainability plan is underpinned by our Purpose of helping our Clients achieve lifetime financial security and live healthier lives, and is integrated into our business activities. We focus on three areas where we have the greatest opportunity to have a positive impact on society, while creating competitive advantage for our business.

**Financial Security:** We provide our Clients and employees with innovative products and services that increase their lifetime financial security. We’re committed to improving financial resiliency in society by advocating for and expanding access to products and services to close insurance coverage gaps and build long-term wealth.

**Healthier Lives:** We offer our Clients and employees products and tools to live healthier lives. Through investments in community health and access to health and disability insurance, we’re focused on improving health and wellness in society.

**Sustainable Investing:** We manage capital with sustainability embedded in our investment processes. We offer our Clients and employees sustainable investing opportunities, and invest our assets to support a low-carbon and more inclusive economy.

Our sustainability plan builds from our foundation as a **Trusted and Responsible Business**. At the core of this foundation is our commitment to being a responsibly-managed business that is Client-focused, competitive, forward-thinking, financially and environmentally resilient, and sustainable for the long term. Operating ethically, treating our Clients and employees with utmost respect, investing in communities and reducing our impact on the environment are all vital components of maintaining the proven longevity and resiliency of our business. Our robust approach to managing our business creates trust and value for our Clients, employees and stakeholders.

For additional information on our sustainability plan and recent progress, refer to [www.sunlife.com/sustainability](http://www.sunlife.com/sustainability).

(1) Sun Life Financial Distribution - our proprietary career advisory network.

## 2. Financial Objectives

Our medium-term financial objectives are outlined as follows:

Measure <sup>(1)</sup>	Medium-term financial objectives	5-Year <sup>(2)</sup>	2019 results
<b>Underlying EPS growth</b> Growth in EPS reflects the Company's focus on generating sustainable earnings for shareholders.	8%-10%	12%	6%
<b>Underlying ROE</b> ROE is a significant driver of shareholder value and is a major focus for management across all businesses.	12%-14%	13.2%	14.3%
<b>Dividend payout ratio</b> Payout of capital serves shareholder value, based on underlying net income.	40%-50%	41%	41%

(1) Underlying earnings per share ("EPS"), underlying return on equity ("ROE") and the dividend payout ratio are non-IFRS financial measures. See section L - Non-IFRS Financial Measures. The dividend payout ratio represents the ratio of common shareholders' dividends to underlying net income. See section I - Capital and Liquidity Management - 1 - Capital in this document for further information regarding dividends.

(2) Underlying EPS growth is calculated using a compound annual growth rate. Underlying ROE and dividend payout ratio are calculated using an average.

We have performed well against our medium-term financial objectives. Although considered reasonable, we may not be able to achieve our medium-term financial objectives as our assumptions may prove to be inaccurate. Accordingly, our actual results could differ materially from our medium-term financial objectives as described above. Our medium-term financial objectives do not constitute guidance. Our medium-term financial objectives are forward-looking non-IFRS financial measures and additional information is provided in this MD&A in the section O - Forward-looking Statements - Medium-Term Financial Objectives.

## 3. Acquisitions and Other

The following developments occurred since January 1, 2019. Additional information concerning acquisitions and dispositions is provided in our 2019 Annual Consolidated Financial Statements.

On December 17, 2019, we entered into an agreement with InfraRed Capital Partners ("InfraRed"), a global infrastructure and real estate investment manager, to purchase 80% of the entity and the ability to acquire the remaining interest in the future ("InfraRed transaction"). InfraRed will form part of our Asset Management business segment. The InfraRed transaction is expected to close during the first half of 2020, subject to receipt of regulatory approvals and satisfaction of customary closing conditions.

At the beginning of the third quarter of 2019, we completed the acquisition of our majority stake in BentallGreenOak ("BGO acquisition"), which was the product of the merger of the Bentall Kennedy group of companies and GreenOak Real Estate, a global real estate investment firm. The acquisition increases our global real estate investment footprint, while adding organizational depth and a full spectrum of solutions including equity and debt real estate strategies. As a result of the acquisition, total equity was reduced by \$860 million, primarily driven by the establishment of financial liabilities associated with the anticipated increase of our future ownership in BGO.

On October 17, 2019, we entered into a 15-year bancassurance partnership with Tien Phong Commercial Bank ("TPBank"). The agreement combines TPBank's distribution network with our market-leading life insurance products, giving 2.5 million TPBank customers access to a comprehensive range of innovative insurance solutions. TPBank is fast growing with a strong Client focus, and is a digital leader in Vietnam.

## C. Financial Summary

(\$ millions, unless otherwise noted)		2019	2018	2017
<b>Profitability</b>				
<b>Net income (loss)</b>				
	Reported net income (loss)	2,618	2,522	2,149
	Underlying net income (loss) <sup>(1)</sup>	3,057	2,947	2,546
<b>Diluted EPS (\$)</b>				
	Reported EPS (diluted)	4.40	4.14	3.49
	Underlying EPS (diluted) <sup>(1)</sup>	5.16	4.86	4.15
<b>Reported basic EPS (\$)</b>				
		4.42	4.16	3.51
<b>Return on equity (%)</b>				
	Reported ROE <sup>(1)</sup>	12.3%	12.1%	10.7%
	Underlying ROE <sup>(1)</sup>	14.3%	14.2%	12.7%
<b>Growth</b>				
<b>Sales</b>				
	Insurance sales <sup>(1)</sup>	3,524	3,189	3,042
	Wealth sales <sup>(1)</sup>	158,992	136,702	145,314
<b>Value of new business<sup>(1)</sup></b>				
		1,206	1,154	968
<b>Premiums and deposits</b>				
	Net premium revenue	20,288	18,642	15,281
	Segregated fund deposits	11,958	11,553	10,858
	Mutual fund sales <sup>(1)</sup>	99,836	84,202	87,515
	Managed fund sales <sup>(1)</sup>	45,062	38,903	44,093
	ASO premium and deposit equivalents <sup>(1)(2)</sup>	6,802	6,808	6,933
<b>Total premiums and deposits<sup>(1)</sup></b>				
		183,946	160,108	164,680
<b>Assets under management<sup>(1)</sup></b>				
	General fund assets	180,229	168,765	162,720
	Segregated fund assets	116,973	103,062	106,392
	Mutual fund assets, managed fund assets and other AUM <sup>(1)</sup>	802,145	679,316	705,673
<b>Total AUM<sup>(1)</sup></b>				
		1,099,347	951,143	974,785
<b>Financial Strength</b>				
<b>LICAT ratios<sup>(3)(4)</sup></b>				
	Sun Life Financial Inc.	143%	144%	n/a
	Sun Life Assurance <sup>(5)</sup>	130%	131%	n/a
<b>Financial leverage ratio<sup>(1)</sup></b>				
		21.2%	21.2%	23.6%
<b>Dividend<sup>(6)</sup></b>				
	Dividend yield <sup>(7)</sup>	3.9%	3.7%	3.6%
	Dividend payout ratio <sup>(1)</sup>	41%	39%	42%
	Dividends per common share (\$)	2.100	1.905	1.745
<b>Capital</b>				
	Subordinated debt and innovative capital instruments <sup>(8)</sup>	3,738	3,738	4,136
	Participating policyholders' equity and non-controlling interests	1,110	864	650
	Total shareholders' equity	23,398	23,706	22,321
<b>Total capital</b>				
		28,246	28,308	27,107
	Average common shares outstanding (millions)	592	606	613
	Closing common shares outstanding (millions)	588	599	611

(1) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

(2) Administrative Services Only ("ASO").

(3) Life Insurance Capital Adequacy Test ("LICAT") ratio.

(4) LICAT ratios are not applicable before January 1, 2018; we previously used the Minimum Continuing Capital and Surplus Requirements ("MCCSR") guideline, the former capital regulatory guideline.

(5) Sun Life Assurance is SLF Inc.'s principal operating life insurance subsidiary.

(6) See section I - Capital and Liquidity Management - 1 - Capital in this document for further information regarding dividends.

(7) Dividend yield is calculated on dividends per common share paid divided by the daily annual average share price for the year.

(8) Innovative capital instruments consist of Sun Life Exchangeable Capital Securities ("SLEECs") which qualify as capital for Canadian regulatory purposes. Under IFRS, these items are reported as Senior debentures in our Consolidated Financial Statements. For additional information, see the section I - Capital and Liquidity Management - 1 - Capital in this document.

## D. Profitability

### 2019 vs. 2018

The following table reconciles our reported net income and underlying net income. The table also sets out the impacts that other notable items had on our reported net income and underlying net income in 2019 and 2018. All factors discussed in this document that impact our underlying net income are also applicable to reported net income.

(\$ millions, after-tax)	2019	2018
<b>Reported net income</b>	<b>2,618</b>	2,522
Less: Market-related impacts <sup>(1)</sup>	(237)	(188)
Assumption changes and management actions <sup>(1)</sup>	(46)	(155)
Other adjustments <sup>(1)</sup>	(156)	(82)
<b>Underlying net income<sup>(2)</sup></b>	<b>3,057</b>	2,947
<b>Reported ROE<sup>(2)</sup></b>	<b>12.3%</b>	12.1%
<b>Underlying ROE<sup>(2)</sup></b>	<b>14.3%</b>	14.2%
<b>Impacts of other notable items on reported and underlying net income</b>		
Experience-related items <sup>(3)</sup>		
Impacts of investment activity on insurance contract liabilities ("investing activity")	131	135
Credit	74	72
Mortality	22	(6)
Morbidity	(70)	51
Lapse and other policyholder behaviour	(24)	(49)
Expenses	(18)	(62)
Other experience	(29)	90

(1) Represents an adjustment made to arrive at a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.

(2) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

(3) Experience-related items reflect the difference between actual experience during the reporting period and best estimate assumptions used in the determination of our insurance contract liabilities.

Reported net income increased by \$96 million or 4% in 2019 compared to 2018, driven by less unfavourable assumption changes and management actions ("ACMA") impacts, partially offset by higher fair value adjustments on MFS's share-based payment awards and unfavourable market-related impacts. Underlying net income increased by \$110 million or 4%, driven by business growth, higher net benefits from tax-related items, improved expense experience, favourable mortality experience in the U.S. and Canada and improved lapse and other policyholder behaviour experience, partially offset by unfavourable morbidity experience in Canada, interest on par seed capital<sup>(1)</sup> in 2018 and lower new business gains in Canada and Asia.

#### i. Market-related impacts

Market-related impacts in 2019 compared to 2018 reflected unfavourable impacts from interest rates and changes in the fair value of investment properties, largely offset by favourable impacts from equity markets. See Section L - Non-IFRS Financial Measures in this document for a breakdown of the components of market-related impacts.

#### ii. Assumption changes and management actions

Due to the long-term nature of our business, we make certain judgments involving assumptions and estimates to value our obligations to policyholders. The valuation of these obligations is recorded in our financial statements as insurance contract liabilities and investment contract liabilities and requires us to make assumptions about equity market performance, interest rates, asset default, mortality and morbidity rates, lapse and other policyholder behaviour, expenses and inflation and other factors over the life of our products.

We review assumptions each year, generally in the third quarter, and revise these assumptions if appropriate. We consider our actual experience in current and past periods relative to our assumptions as part of our annual review.

Compared to a decrease of \$155 million in 2018, ACMA in 2019 resulted in a decrease of \$46 million to reported net income.

(1) In the first quarter of 2018, the seed capital that was transferred into the participating account at demutualization was transferred into the shareholder account, along with accrued investment income ("interest on par seed capital"). The results include income of \$110 million of which \$75 million was in Canada and \$35 million was in the U.S.

## Assumption Changes and Management Actions by Type

The following table sets out the impacts of ACMA on our reported net income in 2019.

2019		Full year
(\$ millions, after-tax)	Impacts on reported net income <sup>(1)</sup>	Comments
Mortality / morbidity	318	Updates to reflect mortality / morbidity experience in all jurisdictions. The largest items were favourable mortality impacts in the United Kingdom ("UK") in Corporate and in Group Retirement Services ("GRS") in Canada.
Lapse and other policyholder behaviour Expenses	(91)	Updates to lapse and policyholder behaviour in all jurisdictions. The largest item was an unfavourable lapse update in International in Asia.
Investment returns	10	Updates to reflect expense experience in all jurisdictions.
		Updates to various investment-related assumptions across the Company, partially offset by updates to promulgated ultimate reinvestment rate.
Model enhancements and other	(274)	Various enhancements and methodology changes across all jurisdictions. The largest items were unfavourable strengthening of reinsurance provisions in In-force Management in the U.S., as well as methodology changes relating to medical stop-loss in Group Benefits in the U.S., partially offset by a favourable change to participating accounts in the UK in Corporate and the Philippines in Asia.
<b>Total impacts on reported net income<sup>(2)</sup></b>	<b>(46)</b>	

(1) ACMA is included in reported net income and is presented as an adjustment to arrive at underlying net income.

(2) In this table, ACMA represents the shareholders' reported net income impacts (after-tax) including management actions. In Note 10.A of our 2019 Annual Consolidated Financial Statements, the impacts of method and assumptions changes represents the change in shareholders' and participating policyholders' insurance contract liabilities net of reinsurance assets (pre-tax) and does not include management actions. Further information can be found in section L - Non-IFRS Financial Measures in this document.

Additional information on estimates relating to our policyholder obligations, including the methodology and assumptions used in their determination, can be found in this MD&A under the section M - Accounting and Control Matters - 1 - Critical Accounting Policies and Estimates and in Note 10 in our 2019 Annual Consolidated Financial Statements.

### iii. Other adjustments

Other adjustments in 2019 decreased reported net income by \$156 million, compared to \$82 million in 2018, reflecting higher fair value adjustments on MFS's share-based payment awards, higher acquisition and integration costs in SLC Management and restructuring costs in Corporate, partially offset by lower integration costs in the U.S. and Corporate. The costs in SLC Management relate to the BGO acquisition and the pending InfraRed transaction. The costs in Corporate include severance costs as a result of various initiatives to simplify our organizational structure and drive efficiencies. The lower costs in the U.S. reflect the successful completion of the integration of the U.S. employee benefits business acquired in 2016.

### iv. Experience-related items

Compared to 2018, the significant changes in experience-related items are as follows:

- Favourable mortality experience in the U.S. and Canada;
- Unfavourable morbidity experience in Canada;
- Improved lapse and other policyholder behaviour experience in the U.S., Asia and Canada, partially offset by the UK in Corporate;
- Improved expense experience resulting from expense discipline while growing the businesses, and lower incentive compensation costs; and
- Unfavourable other experience, including interest on par seed capital of \$110 million - \$75 million in Canada and \$35 million in the U.S. in 2018, and higher project spend including the adoption of IFRS 17 *Insurance Contracts* ("IFRS 17").

### v. Income taxes

Our statutory tax rate is normally reduced by various tax benefits, such as lower taxes on income subject to tax in foreign jurisdictions, a range of tax-exempt investment income, and other sustainable tax benefits that are expected to decrease our effective tax rate.

For 2019, our effective tax rates on reported and underlying net income<sup>(1)</sup> were 8.8% and 14.1%, respectively, compared to 17.0% and 17.2%, respectively, for 2018. Our effective tax rate on underlying net income for 2019 is below our expected range of 15% to 20%, primarily due to the favourable resolution of Canadian tax matters and higher tax-exempt investment income. For additional information, refer to Note 20 in our 2019 Annual Consolidated Financial Statements. Our effective tax rate on underlying net income for 2018 was within our expected range.

### vi. Impacts of foreign exchange translation

We have operations in many markets worldwide, including Canada, the United States, the United Kingdom, Ireland, Hong Kong, the Philippines, Japan, Indonesia, India, China, Australia, Singapore, Vietnam, Malaysia and Bermuda, and generate revenues and incur expenses in local currencies in these jurisdictions, which are translated to Canadian dollars.

(1) Our effective income tax rate on underlying net income is calculated using underlying net income and income tax expense associated with underlying net income, which excludes amounts attributable to participating policyholders.

Items impacting our Consolidated Statements of Operations are translated into Canadian dollars using average exchange rates for the respective period. For items impacting our Consolidated Statements of Financial Position, period end rates are used for currency translation purposes.

The following table provides the foreign exchange rates for the U.S. dollar, which is usually our most significant impact of foreign exchange translation, over the past four quarters and two years.

Exchange rate	Quarterly				Full year	
	Q4'19	Q3'19	Q2'19	Q1'19	2019	2018
U.S. Dollar - Average	1.320	1.320	1.337	1.329	1.327	1.295
U.S. Dollar - Period end	1.299	1.324	1.309	1.334	1.299	1.364

In general, our net income benefits from a weakening Canadian dollar and is adversely affected by a strengthening Canadian dollar as net income from the Company's international operations is translated back to Canadian dollars. Conversely, in a period of losses, the weakening of the Canadian dollar has the effect of increasing losses in foreign jurisdictions. The relative impacts of foreign exchange translation in any given period are driven by the movement of foreign exchange rates as well as the proportion of earnings generated in our foreign operations. We generally express the impacts of foreign exchange translation on net income on a year-over-year basis.

During 2019, the impacts of foreign exchange translation increased reported net income and underlying net income by \$33 million and \$47 million, respectively.

## E. Growth

### 1. Sales and Value of New Business

(\$ millions)	2019	2018	2017
<b>Insurance sales by business group<sup>(1)</sup></b>			
Canada	988	984	1,125
U.S. <sup>(2)</sup>	1,382	1,307	1,106
Asia <sup>(2)</sup>	1,154	898	811
Total insurance sales	3,524	3,189	3,042
<b>Wealth sales by business group<sup>(1)</sup></b>			
Canada	16,114	15,286	14,976
Asia	8,373	10,101	13,056
Total wealth sales excluding Asset Management	24,487	25,387	28,032
Asset Management sales <sup>(1)</sup>	134,505	111,315	117,282
Total wealth sales	158,992	136,702	145,314
<b>Value of New Business<sup>(1)</sup> ("VNB")</b>	<b>1,206</b>	<b>1,154</b>	<b>968</b>

(1) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

(2) Effective January 1, 2018, we transferred our International business unit from the U.S. to Asia, and comparative figures in 2017 have been changed to conform to the current year presentation.

Total Company insurance sales increased by \$335 million or 11% (\$283 million or 9%, excluding the impacts of foreign exchange translation) in 2019 compared to 2018.

- Canada insurance sales were in line with 2018.
- U.S. insurance sales increased by 3%, excluding the favourable impacts of foreign exchange translation of \$32 million, primarily driven by strong growth in medical stop-loss sales, partially offset by lower large case sales in employee benefits.
- Asia insurance sales increased by 26%, excluding the favourable impacts of foreign exchange translation of \$20 million, driven by growth in all local insurance markets.

Total Company wealth sales increased by \$22.3 billion or 16% (\$19.1 billion or 14%, excluding the impacts of foreign exchange translation) in 2019 compared to 2018.

- Canada wealth sales increased by 5%, primarily driven by continued growth in GRS.
- Asia wealth sales decreased by 18%, excluding the favourable impacts of foreign exchange translation of \$120 million, as a result of lower mutual fund sales in India due to weak market sentiment, partially offset by money market sales in the Philippines and growth in the pension business in Hong Kong.
- Asset Management sales increased by 18%, excluding the favourable impacts of foreign exchange translation of \$3.1 billion, driven by higher mutual and managed fund sales in MFS and higher sales in SLC Management.

Total Company VNB was \$1,206 million in 2019, an increase of 5% compared to 2018, driven by higher sales in the U.S. and Asia, partially offset by changes in sales mix and the impact of lower interest rates.

## 2. Premiums and Deposits

(\$ millions)	2019	2018	2017
<b>Premiums and Deposits</b>			
Net premium revenue	20,288	18,642	15,281
Segregated fund deposits	11,958	11,553	10,858
Mutual fund sales <sup>(1)</sup>	99,836	84,202	87,515
Managed fund sales <sup>(1)</sup>	45,062	38,903	44,093
ASO premium and deposit equivalents <sup>(1)</sup>	6,802	6,808	6,933
<b>Total premiums and deposits<sup>(1)</sup></b>	<b>183,946</b>	<b>160,108</b>	<b>164,680</b>
<b>Adjusted premiums and deposits<sup>(2)</sup></b>	<b>181,100</b>	<b>160,710</b>	<b>166,897</b>

(1) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

(2) Adjusted premiums and deposits is a non-IFRS financial measure excludes from premiums and deposits the impacts of Constant Currency Adjustment and Reinsurance in Canada's GB Operations Adjustment as described in section L - Non-IFRS Financial Measures in this document.

Premiums and deposits increased by \$23.8 billion or 15% in 2019, compared to 2018, driven by increased mutual fund and managed fund sales. The impacts of foreign exchange translation increased premiums and deposits by \$3.4 billion. Adjusted premiums and deposits increased by \$20.4 billion or 13% in 2019 compared to 2018, driven by increased mutual fund and managed fund sales.

Net premium revenue increased by \$1.6 billion or 9% in 2019 compared to 2018, driven by increased premium revenue in Canada, Asia and the U.S. The impacts of foreign exchange translation increased net premiums revenue by \$184 million.

Segregated fund deposits increased by \$405 million or 4% in 2019 compared to 2018, driven by increased deposits in Canada. The impacts of foreign exchange translation increased segregated fund deposits by \$37 million.

Mutual fund sales increased by \$15.6 billion or 19% in 2019 compared to 2018, driven by increased sales in MFS, the Philippines in Asia and Canada. The impacts of foreign exchange translation increased mutual fund sales by \$2.2 billion.

Managed fund sales increased by \$6.2 billion or 16% in 2019 compared to 2018, driven by increased sales in MFS, SLC Management and Hong Kong in Asia. The impacts of foreign exchange translation increased managed fund sales by \$1.0 billion.

ASO premium and deposit equivalents in 2019 were in line with 2018. The impacts of foreign exchange translation increased ASO premium and deposit equivalents by \$6 million.

## 3. Assets Under Management

AUM consists of general funds, segregated funds and other AUM. Other AUM includes mutual funds and managed funds, which include institutional and other third-party assets managed by the Company.

(\$ millions)	2019	2018	2017
<b>Assets under management</b>			
General fund assets	180,229	168,765	162,720
Segregated fund assets	116,973	103,062	106,392
Mutual fund assets, managed fund assets and other AUM <sup>(1)</sup>	802,145	679,316	705,673
<b>Total AUM<sup>(1)</sup></b>	<b>1,099,347</b>	<b>951,143</b>	<b>974,785</b>

(1) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

AUM increased by \$148.2 billion or 16% as at December 31, 2019 compared to December 31, 2018, resulting primarily from:

- (i) an increase of favourable market movements on the value of mutual funds, managed funds and segregated funds of \$166.6 billion;
- (ii) an increase of \$12.6 billion from the BGO acquisition;
- (iii) an increase in AUM of general fund assets of \$11.5 billion; and
- (iv) an increase of other business activities of \$2.4 billion; partially offset by
- (v) a decrease of \$35.6 billion from the impacts of foreign exchange translation (excluding the impacts from general fund assets); and
- (vi) net outflows from mutual, managed and segregated funds of \$9.3 billion.

The net outflow of mutual, managed and segregated funds of \$9.3 billion in 2019 was predominantly driven by net outflows from MFS of \$15.8 billion, which were partially offset by net inflows of \$3.6 billion in SLC Management, \$2.4 billion in Asia and \$1.4 billion in Canada.

General fund assets increased by \$11.5 billion or 7% as at December 31, 2019 compared to December 31, 2018, primarily attributable to:

- (i) other business activities of \$7.8 billion; and
- (ii) an increase of \$7.1 billion from the change in value of fair value through profit or loss ("FVTPL") assets and liabilities; partially offset by
- (iii) a decrease of \$3.4 billion from the impacts of foreign exchange translation.

Segregated fund assets increased by \$13.9 billion or 13% as at December 31, 2019 compared to December 31, 2018, primarily driven by favourable market movements of \$14.7 billion, partially offset by the impacts of foreign exchange translation of \$0.3 billion and net outflows of \$0.1 billion.

Mutual funds, managed funds and other AUM increased by \$122.8 billion or 18% as at December 31, 2019 compared to December 31, 2018, driven by favourable market movements of \$152.0 billion, an increase of \$12.6 billion from the BGO acquisition, other business activities of \$2.8 billion, partially offset by the impacts of foreign exchange translation of \$35.3 billion and net outflows of \$9.2 billion.

## F. Financial Strength

	2019	2018	2017
<b>LICAT ratio<sup>(1)</sup></b>			
Sun Life Financial Inc.	143%	144%	n/a
Sun Life Assurance	130%	131%	n/a
<b>Financial leverage ratio<sup>(2)</sup></b>	<b>21.2%</b>	21.2%	23.6%
<b>Dividend</b>			
Dividend payout ratio <sup>(2)</sup>	41%	39%	42%
Dividends per common share (\$)	2.100	1.905	1.745
<b>Capital (\$ millions)</b>			
Subordinated debt	3,538	3,039	3,437
Innovative capital instruments <sup>(3)</sup>	200	699	699
Equity			
Participating policyholders' equity and non-controlling interests	1,110	864	650
Preferred shareholders' equity	2,257	2,257	2,257
Common shareholders' equity	21,141	21,449	20,064
Total equity	24,508	24,570	22,971
Total capital	28,246	28,308	27,107

(1) LICAT ratios are not applicable before January 1, 2018.

(2) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

(3) Innovative capital instruments consist of Sun Life Exchangeable Capital Securities and qualify as regulatory capital. However, under IFRS they are reported as Senior debentures in our Consolidated Financial Statements. For additional information, see section I - Capital and Liquidity Management - 1 - Capital in this document.

### Life Insurance Capital Adequacy Test

OSFI has developed the regulatory capital framework referred to as the Life Insurance Capital Adequacy Test for Canada. LICAT measures the capital adequacy of an insurer using a risk-based approach and includes elements that contribute to financial strength through periods when an insurer is under stress as well as elements that contribute to policyholder and creditor protection wind-up.

SLF Inc. is a non-operating insurance company and is subject to the LICAT guideline. As at December 31, 2019, SLF Inc.'s LICAT ratio was 143%, which was 1% lower than December 31, 2018. The favourable impacts of reported net income, market movements and net change in subordinated debt were more than offset by the impacts of payment of dividends, repurchases of common shares, redemption of innovative capital instruments, OSFI's 2019 LICAT guideline revisions, the de-registration of a U.S. reinsurer in the second quarter and the BGO acquisition.

Sun Life Assurance, SLF Inc.'s principal operating life insurance subsidiary, is also subject to the LICAT guideline. As at December 31, 2019, Sun Life Assurance's LICAT ratio was 130%, compared to 131% as at December 31, 2018. The favourable contribution of reported net income and market impacts were more than offset by dividends to SLF Inc. and the impact from OSFI's 2019 LICAT guideline revisions. The Sun Life Assurance LICAT ratios in both periods are well above OSFI's supervisory ratio of 100% and regulatory minimum ratio of 90%.

### Capital

Our total capital consists of subordinated debt and other capital instruments, participating policyholders' equity and total shareholders' equity which includes common shareholders' equity, preferred shareholders' equity, and non-controlling interests. As at December 31, 2019, our total capital was \$28.2 billion, largely unchanged from the prior year. The decreases to total capital included the payment of \$1,236 million of dividends on common shares of SLF Inc. ("common shares"), the impact related to the BGO acquisition of \$860 million<sup>(1)</sup>, the decrease of \$592 million from the repurchase and cancellation of common shares, the impacts of foreign exchange translation loss of \$564 million included in other comprehensive income (loss) ("OCI"), changes in the remeasurement of defined benefit plans of \$42 million and net changes in debentures detailed below that net to \$nil, largely offset by reported net income of \$2,618 million, net unrealized gains on available-for-sale ("AFS") assets of \$369 million and change in participating policyholders' equity of \$227 million.

We strive to achieve an optimal capital structure by balancing the use of debt and equity financing. The financial leverage ratio for SLF Inc., which includes the innovative capital instruments and preferred shares issued by SLF Inc. as part of debt for the purposes of this calculation, was 21.2% as at December 31, 2019, consistent with December 31, 2018.

The legal entity, SLF Inc. (the ultimate parent company) and its wholly-owned holding companies had \$2.3 billion in cash and other liquid assets<sup>(2)</sup> as at December 31, 2019. Of this amount, \$1.3 billion was held at SLF Inc. The remaining \$1.0 billion of liquid assets were held by SLF Inc.'s wholly-owned holding companies, which are available to SLF Inc. without any regulatory restrictions. SLF Inc. and its wholly-owned holding companies had \$2.5 billion in cash and other liquid assets as at December 31, 2018.

(1) For additional information, refer to Note 3 in our 2019 Annual Consolidated Financial Statements.

(2) Other liquid assets include cash equivalents, short-term investments, and publicly traded securities.

On May 13, 2019, SLF Inc. redeemed all of the outstanding \$250 million principal amount of Series 2014-1 Subordinated Unsecured 2.77% Fixed/Floating Debentures, in accordance with the redemption terms attached to such debentures. The redemption was funded from existing cash and other liquid assets.

On July 2, 2019, SLF Inc.'s Series D Senior Unsecured 5.70% Debentures matured and SLF Inc. repaid all of the outstanding \$300 million principal amount of such debentures together with all accrued and unpaid interest. Under LICAT, senior debentures do not qualify as available capital, as a result, the repayment of the Series D Debentures had no impact on the LICAT ratio of Sun Life Assurance or SLF Inc. In addition, a separate pool of assets had been set aside to support the redemption of these debentures. As such, the redemption did not affect the cash and other liquid assets held by SLF Inc. and its wholly-owned holding companies noted above.

On August 13, 2019, SLF Inc. completed its issuance of Series 2019-1 Subordinated Unsecured 2.38% Fixed/Floating Debentures, with a principal amount of \$750 million, due 2029. Sun Life intends to use an amount equal to the net proceeds to finance or refinance eligible assets as defined in our Sustainability Bond Framework.

On December 31, 2019, Sun Life Capital Trust II, a subsidiary of SLF Inc. redeemed all of the outstanding \$500 million principal amount of Sun Life Exchangeable Capital Securities - Series 2009-1, in accordance with the terms outlined in the prospectus for the securities.

### Common Share Dividend Activity

SLF Inc. increased the dividend paid on its common shares in the second and fourth quarter of 2019 and paid total common shareholder dividends of \$2.100 per common share in 2019, compared to \$1.905 paid in 2018. In relation to the Canadian Dividend Reinvestment and Share Purchase Plan ("DRIP"), commencing with the dividends paid on March 31, 2016, common shares were acquired by the plan agent on the open market and no shares were issued from treasury in connection with the plan in 2017, 2018 or 2019.

### Normal Course Issuer Bids

On August 14, 2019, SLF Inc. renewed its normal course issuer bid, which remains in effect until August 13, 2020, or such earlier date as SLF Inc. may determine, or until SLF Inc. has purchased an aggregate of 15.0 million common shares under the bid. Shares purchased in 2019 were as follows:

	2019	
	Common shares purchased <sup>(1)(2)</sup> (millions)	Amount (\$ millions)
Bid announced August 2018 (expired August 13, 2019)	8.6	445
Bid announced August 2019	2.8	147
	11.4	592

(1) All of the common shares purchased under SLF Inc.'s normal course issuer bids during 2019 were subsequently cancelled.

(2) There were no common shares purchased in the fourth quarter of 2019.

### Financial Strength Ratings

Independent rating agencies assign credit ratings to securities issued by companies and assign financial strength ratings to financial institutions such as Sun Life Assurance.

The financial strength ratings assigned by rating agencies are intended to provide an independent view of the creditworthiness and financial strength of a financial institution. Each rating agency has developed its own methodology for the assessment and subsequent rating of life insurance companies.

Rating agencies do not assign a financial strength rating for SLF Inc., however, credit ratings are assigned to the securities issued by SLF Inc. and its subsidiaries and are described in SLF Inc.'s AIF under the heading Security Ratings.

The following table summarizes the financial strength ratings for Sun Life Assurance as at January 31, 2020 and January 31, 2019.

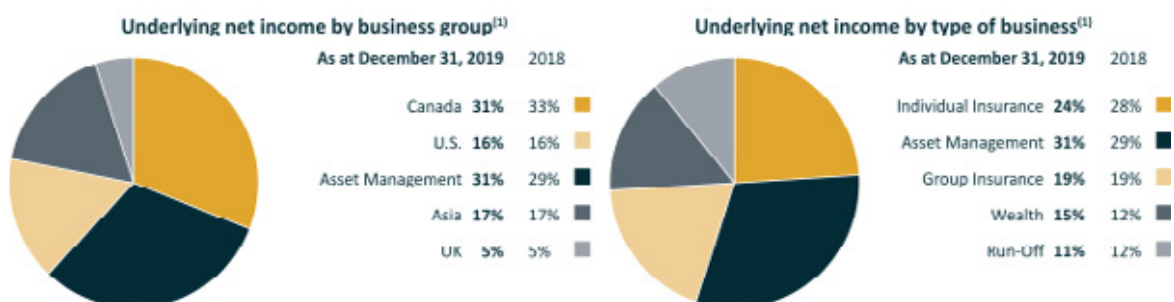
	A.M. Best	DBRS	Moody's	Standard & Poor's
January 31, 2020	A+	AA	Aa3	AA
January 31, 2019	A+	AA(low)	Aa3	AA-

Rating agencies took the following actions on the financial strength rating of Sun Life Assurance throughout 2019:

- March 14, 2019 - Standard and Poor's ("S&P") upgraded the financial strength rating to "AA" from "AA-"
- October 16, 2019 - DBRS upgraded the financial strength rating to "AA" from "AA(low)"
- December 4, 2019 - A.M. Best affirmed the financial strength rating with a stable outlook

## G. Performance by Business Group

Sun Life's business is well-diversified across geographies and business types, supported by our four pillar strategy and our diversified offerings of insurance and wealth products.



(1) Excludes Corporate Support.

(\$ millions, unless otherwise noted)	2019	2018	2017
<b>Reported net income (loss)</b>			
Canada	883	942	963
U.S. <sup>(1)</sup>	163	52	(144)
Asset Management	897	909	653
Asia <sup>(1)</sup>	520	555	778
Corporate	155	64	(101)
<b>Total reported net income (loss)</b>	<b>2,618</b>	<b>2,522</b>	<b>2,149</b>
<b>Underlying net income (loss)<sup>(2)</sup></b>			
Canada	1,012	1,036	949
U.S. <sup>(1)</sup>	532	514	376
Asset Management	1,004	925	812
Asia <sup>(1)</sup>	550	523	461
Corporate	(41)	(51)	(52)
<b>Total underlying net income (loss)<sup>(2)</sup></b>	<b>3,057</b>	<b>2,947</b>	<b>2,546</b>

(1) Effective January 1, 2018, we transferred our International business unit from the U.S. to Asia, and comparative figures have been changed to conform to the current year presentation.

(2) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

All factors discussed in this document that impact our underlying net income are also applicable to reported net income.

## 1. Canada

Our Canada business segment is a leading provider of protection, health, and wealth solutions, providing products and services that deliver value to over 6 million Clients. We are the largest provider of benefits and pensions in the workplace, and provide a wide range of products to individuals via retail channels. Canada is a growth market for Sun Life and we are well-positioned to help meet evolving Client needs with integrated solutions for savings, retirement, health care and insurance protection.

### Business Units

- Individual Insurance & Wealth
- Group Retirement Services
- Group Benefits

## 2019 Highlights

### **Shaping the market**

- Maintained #1 position in workplace solutions, reaching over \$110 billion GRS assets under administration and \$11 billion of business-in-force in Group Benefits (“GB”).
- Achieved sales of \$1.9 billion in Defined Benefit Solutions (“DBS”) for the year, which included the largest same-day group annuities transaction in the Canadian market with a single insurer. DBS offers customized and innovative solutions assisting companies in de-risking their pension plans.
- Maintained #1 position in Individual insurance and health sales<sup>(1)</sup> by offering a wide-range of solutions, including the launch of a Universal Life product targeted to meet the needs of small business owners.
- Continued retail wealth momentum driving Sun Life Global Investments (“SLGI”) assets to \$29 billion and with Sun GIF<sup>(2)</sup> gross sales growing 7% over the prior year.
- For the 11th consecutive year, voted “Most Trusted Life Insurance Company” by Reader’s Digest.
- For the 12th consecutive year, received 100% on the Corporate Equality Index (“CEI”) and was awarded the “Best Place to Work for LGBTQ Workplace Equality”<sup>(3)</sup>.
- For the fifth consecutive year, recognized as one of “Canada’s Top Employers for Young People” in the editorial competition organized by the Canada’s Top 100 Employers project.

### **Putting the Client at the Centre, with Digital, Data and Analytics**

- Continued to advance our digital capabilities, particularly our Client and supplier digital platform, *Lumino Health*, which provides Canadians with a single point of contact for a comprehensive range of health resources, with over 10 million health care provider user ratings and an average of approximately 10,000 user searches per day.
- Our highly rated Canadian mobile app, *my Sun Life*, enables Clients to search and connect with 150,000 Client-rated, paramedical health care providers across Canada, call for appointment bookings, submit health claims, check investment balances, take a picture to send and update forms, and connect with their financial advisor.
- Enhanced our use of data analytics to accelerate the underwriting process, which improved the Client and advisor experience, requiring fewer laboratory tests and issuing policies faster.
- Continued to be a leader in offering coverages that reflect changing demographics, society and social values. We were the first major group benefits provider to offer gender affirmation coverage, as we continue to evolve and diversify our health benefit plans, helping to meet the needs of all Canadians.
- Expanded our suite of available health care innovations to include pharmacogenomics, which helps medical practitioners identify the right medications and dosages for individuals based on their personal health profile and makeup, resulting in improved outcomes for our Clients.
- Launched *SunUniversalLife Pro* for small business owners, providing permanent insurance coverage to help them meet their business, personal and estate planning needs.

## Strategy and Outlook

As the leading provider of group benefits, the market leader in the group retirement market and one of the largest players in individual insurance in the Canadian market, Sun Life is well-positioned to shape the market based on the complex and evolving needs of Canadians. Going forward, we will continue to leverage our market leadership position across our core businesses and distribution networks, to deliver on our Purpose to help our Clients achieve lifetime financial security and live healthier lives. Our focus for our Canadian businesses will be to:

### **Put the Client at the centre of everything we do**

- Deliver a consistent best-in-class Client experience across all our Canadian businesses and continue to raise the bar, making it easier to do business with us. We have established the Client Experience Office (“CXO”), to drive change and share the best innovations in our organization.
- Continue to innovate to deliver a seamless, multi-channel experience, engaging Clients where, when and how they wish, while providing more proactive, personalized contact, leveraging our digital, data and analytics capabilities.

(1) LIMRA Sales Market Share as of third quarter 2019 year-to-date.

(2) Sun Life Guaranteed Investment Funds (“Sun GIF”).

(3) Human Rights Campaign Foundation’s Corporate Equality Index 2020 Report.

### Shape the market enabled by leadership in core businesses

- Continue to support our industry-leading SLFD<sup>(1)</sup> network, and our third-party advisors, with new and enhanced products and services, while leveraging their capabilities by providing additional digital support in these channels. The advisor channels are well-positioned to help our Clients with customized financial plans and life and health insurance solutions.
- Advance new business models to shape and grow the market to meet our Clients' health needs, including the advancement of our Digital Health Solutions ("DHS") business and Lumino Health platform.
- Our strength in the worksite market and industry-leading technology positions us to implement innovations, such as aiding GB Clients in managing their organizations' health needs from an employee wellness perspective, as well as providing solutions to help bend the medical cost curve. These kinds of initiatives will allow us to extend our high Client retention rate and our market leadership in the GB and GRS businesses.
- We are helping to shape the growing Canadian group annuities market by assisting employers manage the risk in their defined benefit plans, where we are the leading provider of customized solutions.

### Leverage digital, data and analytics, and artificial intelligence to develop new business models

- Continue our journey to digitizing the Client and sponsor journey, with innovative capabilities to engage Clients in moments that matter.
- Ensure every Client across the country can have a distinctive, integrated, Client-centric digital experience across life, health, and wealth solutions platforms.
- Use Client insights to provide expanded proactive and personalized interactions, and deliver these through our Digital Benefits Assistant ("DBA") and Ella platforms, which deliver personalized, relevant advice to our Clients.
- Continue to develop our highly-rated *my Sun Life* mobile app in Canada, making it easy and convenient for plan members to manage and use their pensions and benefits.

### Outlook

We continue to evolve our business based on shifting demographics in the Canadian market, with aging cohorts at one end, and millennials, with a preference for digital interfaces, at the other end. All cohorts are focused on the need for financial security in retirement, and the impacts of the downloading of financial responsibility from governments and employers to individuals. With this, Canadians have two major preoccupations, their financial well-being, and their personal and loved ones' health. Both of these drive the need for effective life and health protection and wealth advice, presenting opportunities for Sun Life to provide additional services to Canadians. As a trusted market leader with a full suite of solutions and advice and a strong presence at the worksite and in communities across Canada, we are well-positioned to continue to help our Clients in the right way, at the right time.

The Canadian market is facing several headwinds that present both challenges and opportunities for our business. Digital disruptors continue to emerge, regulatory focus and changes are impacting all business units, and the competitive environment continues to apply additional pressure on achieving our objectives. To address these headwinds, we are actively investing in innovative digital solutions to provide more proactive personalized contact with our Clients to shape the industry in response to their needs. We continue to adjust and adapt our plans to drive momentum across our core businesses and accelerate growth through our CXO. We continue to build on our leadership at the worksite, reach out to Clients through our multi-channel distribution, and explore new offerings in the wealth and health spaces to help our Clients achieve lifetime financial security and healthier lives.

## Business Units

Business	Description	Market position
<i>Individual Insurance &amp; Wealth</i>	<ul style="list-style-type: none"> <li>• Provides holistic advice to individuals to help them and their families achieve lifetime financial security, and live healthier lives, leveraging a broad suite of life and health insurance and investment products</li> <li>• Products distributed via multi-channel distribution model consisting of the SLFD, third-party channels, including independent brokers and broker-dealers, and direct to consumer for certain products</li> </ul>	<ul style="list-style-type: none"> <li>• 1st place market position by premiums within the individual life and health market<sup>(1)</sup></li> <li>• 1st in fixed product sales<sup>(1)</sup> and 4th place market position by total wealth deposits and premiums<sup>(1)</sup></li> </ul>
<i>Group Benefits</i>	<ul style="list-style-type: none"> <li>• Provides group insurance products in Canada, including life, dental, extended health care, disability and critical illness, to employers of all sizes</li> <li>• Leverages our worksite advantage to offer voluntary benefits solutions to individual plan members, including post-employment life and health plans</li> <li>• Products distributed by sales representatives in collaboration with independent advisors, benefits consultants and the SLFD</li> </ul>	<ul style="list-style-type: none"> <li>• 1st place group benefits provider in Canada for the 7th consecutive year<sup>(2)</sup></li> </ul>
<i>Group Retirement Services</i>	<ul style="list-style-type: none"> <li>• Provides defined contribution pension plans and defined benefit solutions in Canada to employers of all sizes</li> <li>• Leverages our worksite advantage to offer voluntary savings plans, including post-employment plans, to those members exiting their employer-sponsored plans</li> <li>• Defined Benefit Solutions offers an expanding range of innovative de-risking solutions for defined benefit pension plans</li> <li>• Products distributed by sales representatives in collaboration with a multi-channel distribution network of pension consultants and advisors</li> </ul>	<ul style="list-style-type: none"> <li>• GRS ranked 1st in the defined contribution market based on total Capital Accumulation Plan assets for the 17th consecutive year<sup>(3)</sup> and is an industry leader in the defined benefit solutions annuity market</li> </ul>

(1) LIMRA Sales Market Share as of third quarter 2019 year-to-date.

(2) Based on revenue for year ended December 2018 from 2019 Benefits Canada Report.

(3) Based on the 2018 Fraser Pension Universe Report.

(1) Sun Life Financial Distribution—our proprietary career advisory network.

## Financial and Business Results

(\$ millions)	2019	2018	2017
Individual Insurance & Wealth	282	328	415
Group Benefits	253	282	332
Group Retirement Services	348	332	216
Reported net income	883	942	963
Less: Market-related impacts <sup>(1)</sup>	(111)	(117)	8
Assumption changes and management actions <sup>(1)</sup>	(17)	23	22
Other adjustments <sup>(1)(2)</sup>	(1)	–	(16)
Underlying net income <sup>(3)</sup>	1,012	1,036	949
Reported ROE (%) <sup>(3)</sup>	12.6%	13.8%	12.6%
Underlying ROE (%) <sup>(3)</sup>	14.4%	15.2%	12.4%
Insurance sales <sup>(3)</sup>	988	984	1,125
Wealth sales <sup>(3)</sup>	16,114	15,286	14,976
Assets under management <sup>(3)</sup>	199,840	177,436	176,417

- (1) Represents an adjustment made to arrive at a non-IFRS measure. See section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.  
(2) Mainly comprised of certain hedges in Canada that do not qualify for hedge accounting and acquisition, integration and restructuring costs. For further information, see section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.  
(3) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

### Profitability

Canada's reported net income decreased by \$59 million or 6% in 2019 compared to 2018, reflecting unfavourable ACMA impacts. Underlying net income decreased by \$24 million or 2%, reflecting unfavourable morbidity experience in GB, interest on par seed capital of \$75 million in 2018, unfavourable credit experience, a mortgage impairment and lower new business gains, partially offset by business growth, favourable expense experience, higher AFS and investing activity gains, higher net benefits from tax-related items and favourable mortality experience.

### Growth

Canada insurance sales in 2019 were in line with 2018. Canada individual insurance sales were \$389 million in 2019, a decrease of \$7 million or 2% compared to 2018, driven by lower life insurance sales. Sales in GB were \$599 million in 2019, an increase of \$11 million or 2% compared to 2018.

Canada wealth sales increased by \$0.8 billion or 5% in 2019 compared to 2018. Individual wealth sales were \$6.4 billion in 2019, an increase of \$0.1 billion or 2% compared to 2018, driven by increased mutual fund and segregated fund sales, partially offset by lower fixed annuity sales. GRS sales were \$9.8 billion in 2019, an increase of \$0.7 billion or 8% compared to 2018, driven by improved sales across all products.

One of our key initiatives is to continue growing our individual wealth manufactured products, including SLGI mutual funds and Sun GIF segregated funds. AUM for our wealth businesses, including GRS, was \$136.6 billion as at December 31, 2019, an increase of \$16.4 billion or 14% compared to December 31, 2018, driven by improved markets and net inflows.

Wealth - Asset Under Management  
(\$ billions)  
■ IW ■ GRS



### Profitability and Growth by Business Unit

#### Individual Insurance & Wealth

Individual Insurance & Wealth's reported net income decreased by \$46 million or 14% in 2019 compared to 2018, reflecting interest on par seed capital of \$75 million in 2018, more unfavourable ACMA impacts and unfavourable credit experience, partially offset by business growth, favourable mortality experience and higher investing activity gains.

Individual life and health insurance product sales were \$389 million in 2019, a decrease of \$7 million or 2% compared to 2018. As noted above, the decrease was due to lower life insurance sales. Individual wealth product sales were \$6.4 billion in 2019, an increase of \$0.1 billion or 2% compared to 2018, driven by increased mutual fund and segregated fund sales, partially offset by lower fixed annuity sales.

#### Group Benefits

GB's reported net income decreased by \$29 million or 10% in 2019 compared to 2018, reflecting unfavourable morbidity experience, partially offset by favourable expense experience, business growth and less unfavourable ACMA impacts.

GB sales were \$599 million in 2019, an increase of \$11 million or 2% compared to 2018. Group Benefits maintained the #1 market share position for overall revenue in Canada with \$11 billion in business-in-force, while continuing to focus on Client service and productivity.

#### Group Retirement Services

GRS's reported net income increased by \$16 million or 5% in 2019, compared to 2018, reflecting investing activity gains and business growth, partially offset by less favourable ACMA impacts.

GRS sales were \$9.8 billion in 2019, an increase of \$0.7 billion or 8% in 2019 compared to 2018, including the result of the largest same-day group annuities transaction in the Canadian market with a single insurer. Assets under administration was \$111.8 billion as at December 31, 2019, an increase of \$14.5 billion or 15% compared to December 31, 2018 driven by improved markets and net inflows.

## 2. U.S.

Our U.S. business group is one of the largest group benefits providers in the U.S. market, serving employees and their families at more than 55,000 workplaces of all sizes across the country with employer-sponsored insurance products and solutions. In addition, our U.S. business manages an in-force block of more than 100,000 individual life insurance policies.

### Business Units

- Group Benefits
- In-force Management

## 2019 Highlights

### ***Growth and profitability***

- Our total Group Benefits sales of over one billion U.S. dollars (US\$1,043 million) reached a new high, and an increase of 4% over 2018. Business-in-force of US\$4.3 billion as of December 31, 2019 was up 7% over the previous year.
- Achieved an after-tax profit margin for U.S. Group Benefits of 7.3% as of the fourth quarter of 2019, up from 6.7% as of the fourth quarter of 2018.
- Completed remaining major milestones of integration of the employee benefits business acquired in 2016, including reaching our full target of \$100 million pre-tax run-rate synergies as scheduled.

### ***Advanced our strategies to simplify benefits administration and close coverage gaps***

- Leveraged our Maxwell Health acquisition to launch a combined benefits administration platform, providing employers and employees with an intuitive digital experience, access to the complete portfolio of Sun Life benefits and the ability to enroll in health insurance from third parties. By year-end, over 10,000 families were enrolled on this new platform.
- Helped members safeguard their finances by providing employers auto-enrollment for income-protecting disability coverage, and by adding dental plan options with higher maximums that reduce out-of-pocket costs for dental and orthodontic benefits.
- Helped our In-force Management Clients achieve their estate planning goals by offering them an individual life product extension beyond age 100 for policies that would have otherwise expired.
- Deployed robotics to streamline processes, enhance efficiency and provide better Client experiences, including OrthoTron, our digital enhancement which helps calculate and pay orthodontic claims quickly and accurately.

### ***Grew our leading medical stop-loss presence in the marketplace***

- Increased our business-in-force by 17% in 2019, advancing our position as the largest independent stop-loss provider in the U.S.
- Analyzed our deep database of medical claims for our annual high-cost claims and injectable drug trends report, which showed specialty drugs, extended hospital stays and complex treatments as major cost drivers in million-dollar and plus claims, providing employers actionable information to help bend the medical cost curve on their self-funded health plans.
- Generated millions of dollars in cost savings for both ourselves and our medical stop-loss Clients through our Clinical 360 program that combines clinical experts with tailored data analysis.
- Our business-in-force through our captive relationships has nearly doubled during the year. Captive relationships allow employers to pool together to share a portion of their self-funded risk, which is a good option for small- and medium-sized employers looking to self-fund their medical benefits.

### ***Launched offerings that grow our core business and help Clients manage absence***

- Introduced paid family and medical leave offerings in select states to help employers provide fully-insured and self-insured paid leave programs, and continued our leadership working with lawmakers, regulators and advocates to help expand access to these benefits for more Americans through their employers.
- Introduced a new FullscopeRMS offering for an integrated absence solution for industry partners and gained traction in the marketplace with our new medical stop-loss offering for health plans.

## Strategy and Outlook

In the U.S., we continue to execute core strategies and expand further into health care to achieve our goal of building the best benefits company in America. We are focused on closing our members' insurance coverage gaps through our life, disability, absence management, dental, vision, voluntary, and supplemental health offerings. We are also helping self-funded employers and health plans solve for rising health care costs through our leading medical stop-loss business, and we are well-positioned to expand in the health care space where we deliver unique value due to our strong market position and expertise. Our strategy goes to the heart of our Purpose of helping our Clients achieve lifetime financial security and live healthier lives.

### ***Executing in our core Group Benefits businesses to deliver profitable growth***

- Continue to maintain our progress on margins and growth of our business-in-force in our employee benefits business by improving sales and retention through outstanding Client experiences, investing in claims management, leveraging our voluntary business and building on our broker relationships.
- Advance our national accounts capabilities in absence management and continue to focus on creating a magnetic Client experience with proactive contact and enhanced employer on-boarding.
- Increase market share in our industry-leading medical stop-loss business by providing deep data insights, expertise and flexible risk management options to protect self-funded employers from the impact of high-cost claims.
- Expand the FullscopeRMS portfolio of turnkey solutions for industry partners into new product lines, in order to drive growth of this business.

### ***Helping employers manage claims and absence for both paid and unpaid leaves***

- Expand the roll-out of products and capabilities to help employers meet the requirements of federal and state leave laws while giving more Americans access to paid leave.
- Advance claim automation capabilities that enhance tracking and reporting for Clients.
- Continue leadership in advocating for paid family and medical leave legislation that includes a role for private insurers.

**Enhancing the Client experience and making it easier to do business with us**

- Introduce more automated digital capabilities and predictive analytics that enable a personal experience, a high-touch claims approach and quicker service time.
- Build new data and infrastructure capabilities to help us provide better service and deeper insights.
- Expand our clinical approach for long-term disability claims.
- Improve training and tools to better integrate plain language throughout our Client communications and service.

**Expanding in the health care market through our medical stop-loss business**

- Leverage our data and analytics capabilities to identify opportunities to reduce health care costs for Clients through products and programs, such as our Clinical 360 program.
- Create insights into pharmacy cost drivers and emerging treatments to help Clients understand the trends that impact their medical benefits and costs.
- Build additional self-funded health plan solutions for employers who have an increasing need to share risk and control health care and pharmacy costs.

**Helping Clients close coverage gaps and select the right benefits**

- Continue to innovate on the Sun Life + Maxwell Health insurtech platform, providing an intuitive, digital enrollment platform using data to drive proactive outreach and to nudge Clients on coverage options they should consider.
- Help brokers and employers access our voluntary and supplemental health products with simple, digital support tools that guide employees as their needs evolve, and help them to fund out-of-pocket medical costs.
- Expand our digital distribution by adding relationships and data exchange capabilities with key administration and enrollment providers to ensure we can meet the needs of our wide range of employer and broker stakeholders.

**Optimizing the value of our In-force Management business**

- Continue to provide excellent service to our individual insurance policy-owners.
- Evaluate opportunities to improve profitability, including expense efficiencies and alternative investment strategies.
- Effectively manage risk and capital through reinsurance and product offerings for converting or maturing policies.

**Outlook**

The group benefits market in the U.S. continues a steady pace of growth as employers seek to offer competitive benefits in a currently tight labour market. The health insurance market, which we serve via our medical stop-loss & health products, is growing at a faster pace due to medical inflation and increasing demand. In the current environment, we are leveraging our medical stop-loss analytics to help self-funded employers manage health care costs and develop further insights into prescription drug cost drivers. The high cost of health care creates opportunities to educate members about their coverage needs as they reach different milestones in their lives, particularly as high-deductible health plans create financial gaps that our supplemental health products can fill. Our growth strategies incorporate these factors to help Clients manage their health benefit costs.

Paid family and medical leave continues to be a trend in the U.S. with legislation at both the state and federal levels. In states with paid-leave laws that allow employers to use private insurance to meet these requirements, Sun Life is beginning to offer products to support employers, as well as to provide options for more generous plans. We see an opportunity to educate employers on the need for disability insurance to complement state-required benefits, and we continue to be a leader in working with lawmakers, regulators and advocates to communicate the valuable role private insurers can play in expanding access to paid family and medical leave to more Americans through their employers.

We see the potential for regulatory headwinds with the increasing focus on consumer data and privacy rights coupled with developing interest in the risks posed by data analytics and predictive modeling. These trends have the potential to benefit the business by establishing industry standards, but may also increase costs and limit the scope of business initiatives. We are enhancing our internal governance controls framework around these initiatives, and monitoring and providing input into regulatory developments through trade group participation and peer group networking.

**Business Units**

Business	Description	Market position
<i>Group Benefits</i>	<ul style="list-style-type: none"> <li>• Provides group insurance products and services, including life, long-term and short-term disability, absence management, medical stop-loss, dental, vision, voluntary and supplemental health insurance such as accident and critical illness</li> <li>• Stop-loss insurance provides employers who self-insure their employee health plans with protection against large claims</li> <li>• Products distributed through more than 31,000 independent brokers and benefits consultants, supported by more than 200 employed sales representatives</li> <li>• Serves more than 55,000 employers in small, medium and large workplaces across the U.S.</li> <li>• FullscopeRMS, which includes Disability RMS, provides turnkey solutions for disability, absence management, life, stop-loss and supplemental health coverages and capabilities including underwriting services, claims administration, product development, actuarial and policy administration</li> </ul>	<ul style="list-style-type: none"> <li>• Largest independent medical stop-loss provider<sup>(1)</sup></li> <li>• Largest turnkey disability provider<sup>(2)</sup></li> <li>• One of the largest preferred provider organization (“PPO”) dental networks with 130,000 unique dentists<sup>(3)</sup></li> <li>• Top ten group life, disability and voluntary benefits provider<sup>(4)</sup></li> </ul>
<i>In-force Management</i>	<ul style="list-style-type: none"> <li>• Provides more than 100,000 individual life insurance policies, primarily universal life and participating whole life insurance</li> </ul>	

(1) Ranking compiled by Sun Life based on data contained in the 2018 Accident and Health Policy Experience Report from the National Association of Insurance Commissioners (“NAIC”). An independent stop-loss carrier is defined as a stop-loss carrier that does not also sell medical claim administration services.

(2) Based on annual 2018 NAIC Accident and Health Policy Experience Report and DRMS market expertise.

(3) Based on September 2019 data from the NetMinder Report; based on unique dentist count.

(4) Based on LIMRA 2018 Annual U.S. Sales & In-Force Reports for group term life, group short-term disability and long-term disability insurance and the annual LIMRA 2018 U.S. Voluntary In-Force report for combined group voluntary life and supplemental health products.

## Financial and Business Results

(US\$ millions) <sup>(1)</sup>	2019	2018	2017
Group Benefits	187	217	140
In-force Management	(65)	(176)	(247)
Reported net income (loss)	122	41	(107)
Less: Market-related impacts <sup>(2)</sup>	(40)	(21)	(44)
Assumption changes and management actions <sup>(2)(3)</sup>	(221)	(302)	(210)
Acquisition, integration and restructuring <sup>(2)(4)</sup>	(16)	(32)	(52)
U.S. tax reform <sup>(2)(3)</sup>	–	–	(90)
Underlying net income (loss) <sup>(5)</sup>	399	396	289
Reported ROE (%) <sup>(5)</sup>	4.5%	1.5%	(4.1)%
Underlying ROE (%) <sup>(5)</sup>	14.7%	14.6%	11.1%
After-tax profit margin for Group Benefits (%) <sup>(5)</sup>	7.3%	6.7%	5.0%
Insurance sales <sup>(5)</sup>	1,043	999	863
(C\$ millions)			
Reported net income (loss)	163	52	(144)
Underlying net income (loss) <sup>(5)</sup>	532	514	376

- (1) Effective January 1, 2018, we transferred our International business unit from the U.S. to Asia, and comparative figures have been changed to conform to the current year presentation.  
(2) Represents an adjustment made to arrive at a non-IFRS measure. See section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.  
(3) ACMA in 2017 excludes the US\$(231) million (\$293 million) charge that is included in U.S. tax reform, shown separately.  
(4) Acquisition, integration and restructuring amounts related to the acquisition costs of the U.S. employee benefits business acquired in 2016 and Maxwell Health acquired in 2018.  
(5) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

### Profitability

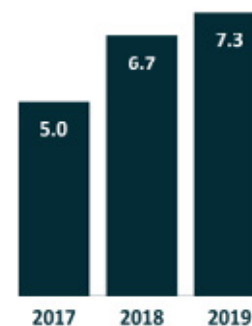
U.S.'s reported net income increased by US\$81 million (\$111 million) in 2019 compared to 2018, driven by improved impacts from ACMA and lower integration costs as the integration of the U.S. employee benefits business acquired in 2016 was completed, partially offset by unfavourable market-related impacts, predominantly from changes in the fair value of investment properties. Underlying net income was in line with 2018, reflecting business growth, improved mortality experience, improved lapse and policyholder behaviour experience as well as improved expense experience, offset by interest on par seed capital of US\$28 million (\$35 million) in 2018, and lower investing activity and AFS gains. The impacts of foreign exchange translation increased reported net income and underlying net income by \$4 million and \$12 million, respectively.

The after-tax profit margin for Group Benefits<sup>(1)</sup> was 7.3% as of the fourth quarter of 2019, compared to 6.7% as of the fourth quarter of 2018.

### Growth

U.S.'s insurance sales of over one billion U.S. dollars (US\$1,043 million) reached a new high, up US\$44 million or 4% in 2019 compared to 2018, primarily driven by growth in medical stop-loss in Group Benefits. Medical stop-loss business-in-force increased to US\$1.9 billion, an increase of 17% compared to 2018, advancing our leadership position as the largest independent medical stop-loss provider.

Group Benefits After-Tax Profit Margin %



### Profitability by Business Unit

#### Group Benefits

Group Benefits' reported net income decreased by US\$30 million or 14% in 2019 compared to 2018, reflecting unfavourable ACMA impacts, partially offset by favourable mortality experience, business growth and lower integration costs as the integration of the U.S. employee benefits business acquired in 2016 was completed.

#### In-Force Management

In-force Management's reported net loss improved by US\$111 million or 63% in 2019 compared to 2018, reflecting less unfavourable ACMA impacts, improved lapse and policyholder behaviour experience as well as improved expense experience, partially offset by unfavourable market-related impacts, interest on par seed capital of US\$28 million (\$35 million) in 2018, lower investing activity gains and unfavourable mortality experience.

(1) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

### 3. Asset Management

Our Asset Management business group is comprised of MFS and SLC Management. MFS is a premier global asset management firm which offers a comprehensive selection of financial products and services that deliver superior value and actively manages assets for retail and institutional investors around the world. SLC Management is an institutional investment management business that delivers liability driven investing, alternative fixed income and real estate solutions to Clients, with operations around the world.

#### Business Units

• MFS Investment Management

• SLC Management

### 2019 Highlights

- We ended 2019 with \$768.8 billion in assets under management consisting of \$684.8 billion (US\$527.4 billion) from MFS and \$84.0 billion from SLC Management.

#### MFS

- Strong investment performance of MFS's U.S. retail mutual fund assets ranked in the top half of their Lipper categories based on ten-, five- and three-year performance, with 93%, 93% and 98%, respectively, as at December 31, 2019.
- MFS opened offices in Milan as part of its new "in-country" retail strategy, which deepens relationships with local professional buyers, and as a result, sales increased 45% in 2019, compared to the previous year.
- MFS recorded four consecutive quarters of positive retail net flows in 2019, driven by retail net inflows from both equity and fixed income products in the U.S. Despite the industry trend of net outflows, MFS U.S.'s retail equity sector experienced net inflows, demonstrating that MFS's performance and brand presence are resonating with retail investors seeking active fund managers with strong long-term performance.
- Fixed income gross sales were up 38% in 2019 over the previous year.

#### SLC Management

- We completed the BGO acquisition, which was the product of the merger of the Bentall Kennedy group of companies and GreenOak Real Estate, a global investment firm. The acquisition expands the capabilities of SLC Management by increasing our global real estate investment footprint, while adding organizational depth and a full spectrum of solutions including equity and debt real estate strategies.
- We announced our intention to acquire a majority stake in InfraRed Capital Partners, a global infrastructure and real estate investment manager. InfraRed advises institutional and pooled fund clients on approximately \$16 billion (US\$12 billion) in assets under management as of September 30, 2019. InfraRed is headquartered in London, UK and has more than 175 partners and staff. InfraRed will form part of SLC, and the acquisition is integral to Sun Life's strategy of broadening its asset management pillar by extending the capabilities of SLC to the benefit of existing and prospective clients.

### Strategy and Outlook

Our strategy is to design and deliver investment products through MFS and SLC Management that will deliver growth in traditional active asset management as well as LDI and alternative asset classes. MFS competes primarily in the global institutional and U.S. retail markets. SLC Management leverages Sun Life's long-standing expertise in LDI and private asset class investments to offer customized investment solutions to third-party institutional investors.

#### **MFS: Continue to deliver superior investment performance to our Clients while building a world-class fixed income platform**

MFS's active management strategy focuses on delivering value to our Clients over the long term. Our strong relative performance puts us in a competitive position over other asset managers:

- With increasing market volatility and a successful track record, MFS is well-positioned to attract flows from all Client sectors that are seeking risk-managed capital appreciation over the long term based on our disciplined, long-term approach. We are engaging Clients to align with MFS on longer investment horizons, to leverage our proven ability to deliver over benchmark performance through a market cycle, as well as our leadership on environmental, social, and governance ("ESG") analytics.
- Build out fixed income and product and sales capabilities, and continue our non-U.S. retail initiatives.
- MFS strives to maintain margins in the top quartile of active managers' margins while maintaining our commitment to provide long-term value to clients.
- MFS is piloting its "in-country" distribution model in Italy, which leverages MFS's capabilities to meet local Client needs by deepening relationships with professional buyers.

#### **SLC Management: Help institutional investors meet their goals by offering a broad suite of fixed income strategies and alternative asset classes**

We are well-positioned to take advantage of three key trends in our target markets through:

- Increased allocations to fixed income by pension funds looking to de-risk.
- Outsourcing of asset management by insurance companies, and consolidation of investment manager relationships by institutional investors.
- Increased demand for investment alternatives due to low nominal interest rates.

Our strategy is to continue to deliver superior investment performance, expand our distribution capabilities and product lineup with offerings that leverage our existing investment capabilities, and continue to investigate potential acquisitions that fit our strategic targets. We offer our Clients a compelling suite of solutions, including:

- Income-related and total return capabilities across key asset classes including public and private fixed income.
- Deep real estate equity and debt expertise.
- Differentiated investment strategies.

## Outlook

We will continue to see industry consolidation in the asset management industry as changes are driving clients and platforms to consolidate assets into fewer investment firms. While we continue to see a historical bull market run, we believe the inevitable market correction will accelerate consolidation of less skilled and sub-scale active managers, providing us with opportunities to establish new Client relationships. Within this context, we believe that we have the scale, proven long-term track records and broad product portfolios to take advantage of this opportunity to gain market share.

Active asset management businesses are facing headwinds as demand for passive and alternative strategies grows faster than the overall market, as well as slow downward pressure on fees, from technology, new market entrants, regulation and increased transparency.

To address these headwinds, we will continue to position our active asset manager to serve the large pool of alpha-seeking assets in both the retail and institutional markets, bringing our scale, and proven track record to the service of our global Clients. We will leverage our data analytics capabilities to continue to improve our distribution capabilities. Even with some investors choosing a passive strategy, as a well-positioned and skilled active manager we will have the opportunity to grow.

In a low yield environment, our Clients are increasingly looking for strategies that best match the liability profile of their business and that offer additional yield and return. SLC Management meets these needs through an array of fixed income strategies and alternative assets. These strategies are often consistent with our own approach for managing the general account of Sun Life Financial, resulting in an alignment of interests with our Clients, enabling opportunities for co-investing.

## Business Units

Business	Description	Market position
<i>MFS</i>	<ul style="list-style-type: none"><li>Actively manages assets for retail and institutional investors, including pension plans, sovereign wealth funds, monetary authorities, and endowments and foundations</li><li>Retail products are distributed through financial advisors, brokerages and other professionals</li><li>Institutional products are distributed by an internal sales force, which is aided by a network of independent consultants</li></ul>	<ul style="list-style-type: none"><li>Over US\$527 billion in AUM</li><li>The 11th largest U.S. Retail funds manager<sup>(1)</sup></li></ul>
<i>SLC Management</i>	<ul style="list-style-type: none"><li>SLC Management delivers LDI, alternative fixed income and real estate solutions to Clients through a portfolio of companies, including:<ul style="list-style-type: none"><li>BGO, a global real estate investment manager</li><li>SLC Management (U.S.)<sup>(2)</sup>, a U.S. institutional asset manager specializing in customized fixed income portfolio and LDI for U.S. insurance companies and pension plans</li><li>SLC Management (Canada), a Canadian institutional asset manager that provides investment expertise in alternative asset classes and LDI to pension funds and other institutional investors</li></ul></li><li>Institutional products are distributed by an internal sales force, which is aided by a network of independent consultants</li></ul>	<ul style="list-style-type: none"><li>Over \$84.0 billion in AUM</li></ul>

(1) As reported by Strategic insight based on AUM as at December 31, 2019.

(2) Ryan Labs Asset Management Inc., Prime Advisors, Inc. and Sun Life Capital Management (U.S.) LLC merged effective January 1, 2020, keeping the name Sun Life Capital Management (U.S.) LLC.

## Financial and Business Results

<b>Asset Management (C\$ millions)</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>
Reported net income	897	909	653
Less: Fair value adjustments on MFS's share-based payment awards <sup>(1)</sup>	(64)	(5)	(81)
Other <sup>(1)(2)(3)</sup>	(43)	(11)	(78)
<b>Underlying net income<sup>(4)</sup></b>	<b>1,004</b>	<b>925</b>	<b>812</b>
Assets under management (C\$ billions) <sup>(4)</sup>	768.8	649.7	677.6
Gross sales (C\$ billions) <sup>(4)</sup>	134.5	111.4	117.3
Net sales (C\$ billions) <sup>(4)</sup>	(12.2)	(37.3)	(22.4)
<b>MFS (C\$ millions)</b>			
Reported net income	909	893	612
Less: Fair value adjustments on MFS's share-based payment awards <sup>(1)</sup>	(64)	(5)	(81)
U.S. tax reform <sup>(1)(3)</sup>	–	–	(95)
<b>Underlying net income<sup>(4)</sup></b>	<b>973</b>	<b>898</b>	<b>788</b>
Assets under management (C\$ billions) <sup>(4)</sup>	684.8	584.2	618.3
Gross sales (C\$ billions) <sup>(4)</sup>	125.0	104.3	106.5
Net sales (C\$ billions) <sup>(4)</sup>	(15.8)	(38.5)	(28.5)
<b>MFS (US\$ millions)</b>			
Reported net income	685	689	471
Less: Fair value adjustments on MFS's share-based payment awards <sup>(1)</sup>	(48)	(4)	(64)
U.S. tax reform <sup>(1)(3)</sup>	–	–	(75)
<b>Underlying net income<sup>(4)</sup></b>	<b>733</b>	<b>693</b>	<b>610</b>
Pre-tax net operating profit margin ratio <sup>(4)</sup>	39%	38%	38%
Average net assets (US\$ billions) <sup>(4)</sup>	484.0	477.5	460.5
Assets under management (US\$ billions) <sup>(4)</sup>	527.4	428.4	491.6
Gross sales (US\$ billions) <sup>(4)</sup>	94.2	80.6	82.1
Net sales (US\$ billions) <sup>(4)</sup>	(11.8)	(29.7)	(21.8)
Asset appreciation (depreciation) (US\$ billions)	110.8	(33.5)	87.8
S&P 500 Index (daily average)	2,914	2,744	2,448
MSCI EAFE Index (daily average)	1,892	1,965	1,886
<b>SLC Management (C\$ millions)</b>			
Reported net income	(12)	16	41
Less: Other <sup>(1)(2)(3)</sup>	(43)	(11)	17
<b>Underlying net income<sup>(4)</sup></b>	<b>31</b>	<b>27</b>	<b>24</b>
Assets under management (C\$ billions) <sup>(4)</sup>	84.0	65.5	59.3
Gross sales (C\$ billions) <sup>(4)</sup>	9.5	7.0	10.8
Net sales (C\$ billions) <sup>(4)</sup>	3.6	1.2	6.1

- (1) Represents an adjustment made to arrive at a non-IFRS measure. See section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.
- (2) Amounts include acquisition costs for our acquisition of a majority stake in BentallGreenOak and the pending InfraRed transaction, which includes the unwinding of the discount for the Put option and Deferred payments liability of \$16 million.
- (3) In the fourth quarter of 2017, the U.S. tax reform of \$(78) million consists of a charge of \$32 million relating to the revaluation of its deferred tax balances, consisting of a charge of \$49 million for MFS, partially offset by a benefit of \$17 million for SLC Management, and a one-time charge on the deemed repatriation of foreign earnings of \$46 million for MFS in the fourth quarter of 2017.
- (4) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

### Profitability

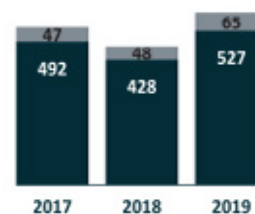
Asset Management's reported net income decreased by \$12 million or 1% in 2019 compared to 2018, reflecting higher fair value adjustments on MFS's share-based payment awards and higher acquisition and integration costs related to the BGO acquisition and the pending InfraRed transaction. Underlying net income increased by \$79 million or 9%, primarily driven by higher average net assets ("ANA"), expense management and investment income including returns on seed capital in MFS. The impacts of foreign exchange translation in 2019 increased reported net income and underlying net income by \$21 million and \$23 million, respectively.

### Growth

Asset Management's AUM increased by \$119.1 billion or 18% as at December 31, 2019 compared to December 31, 2018, primarily driven by asset appreciation of \$151.2 billion, partially offset by the impacts of foreign exchange translation of \$33.4 billion and net outflows of \$12.2 billion.

### Asset Under Management (US\$ billions)

■ MFS ■ SLC Management





## Profitability and Growth by Business Unit

### MFS

In U.S. dollars, MFS's reported net income in 2019 was in line with 2018, reflecting higher fair value adjustments on MFS's share-based payment awards. Underlying net income increased by US\$40 million or 6%, driven by the impacts of higher ANA, expense management and investment income including returns on seed capital.

MFS's AUM increased by US\$99.0 billion or 23% as at December 31, 2019 compared to December 31, 2018, primarily driven by asset appreciation of US\$110.8 billion, partially offset by net outflows of US\$11.8 billion.

### SLC Management

SLC Management's reported net loss was \$12 million in 2019 compared to an income of \$16 million in 2018, reflecting higher acquisition and integration costs related to the BGO acquisition and the pending InfraRed transaction. Underlying net income increased by \$4 million or 15%, driven by net income from the BGO acquisition that closed in July 2019, partially offset by an increase in expenses.

SLC Management's AUM increased by \$18.5 billion or 28% as at December 31, 2019 compared to December 31, 2018, primarily driven by the BGO acquisition of \$12.6 billion, asset appreciation of \$4.1 billion and net inflows of \$3.6 billion, partially offset by the impacts of foreign exchange translation of \$2.7 billion.

## 4. Asia

**Our Asia segment consists of two business units: Insurance and Wealth and International. Our Insurance and Wealth business unit operates in seven local markets, delivering value to over 23 million Clients by providing life, health, wealth and asset management solutions through a multi-channel distribution approach. Our International business unit focuses on high-net-worth insurance and wealth products. Asia's presence in the local markets provides us with a strong foothold to take advantage of the high growth prospects in this region.**

### Business Units

• Insurance and Wealth

• International

## 2019 Highlights

### Growth in scale and distribution

- We ended 2019 with \$52.0 billion in total AUM in our wealth and asset management businesses, including \$15.0 billion from our Hong Kong Mandatory Provident Fund ("MPF") pension business, the second fastest growing MPF business<sup>(1)</sup>, and the fourth largest in terms of AUM, and \$23.2 billion from our asset management joint venture in India.
- Expanded our distribution network through two new bancassurance agreements in Vietnam and Indonesia as well as launching a new broker channel in Vietnam.
- Grew our elite agency development programs, providing advisors with the necessary skills and tools required to provide Clients with world-class service and advice, with the result that the number of MDRT<sup>(2)</sup> qualifiers has nearly doubled in the last 3 years to over 2,000.
- Conducted e-distribution experiments with strategic partners such as U Mobile Sdn Bhd and Lazada E-Services Philippines Inc., and piloted a new online sales channel in China, resulting in strong sales growth for the businesses.

### Digital transformation progress

- Client mobile applications are now available in all seven of our local markets and point-of-sales ("POS") systems continue to be rolled out across our businesses, powering greater Client experiences across a variety of platforms.
- Modernized our back office systems, including the launch of a new cloud-based platform for e-distribution which accelerated speed-to-market, allowing on-boarding of new partners in as little as 3 weeks.
- Optimized internal processes resulting in more efficient claims processing and payments, with claims turned around in as little as 24 hours.
- Bowtie Life Insurance Company, the first virtual insurer<sup>(3)</sup>, in which we have a strategic investment, began selling their Voluntary Health Insurance Scheme in Hong Kong.

## Strategy and Outlook

In order to achieve our ambitious growth objectives in earnings, sales and value of new business, we will need to grow scale in all of our markets, with world-class distribution capabilities and operational excellence, while investing in the right talent. Our areas of focus for Asia are to:

### Build world-class distribution

- Extend our reach across channels and segments to serve the growing insurance markets in Asia and to help more Clients through expanding our health and wellness offerings, with targeted expansion in local markets.
- Deliver a multi-channel experience engaging Clients where, when and how they wish.
- Create a unique distribution differentiator in each market by continuing to build on our Most Respected Advisor ("MRA") principles to create the next generation of elite distribution leaders.
- Use data and analytics to drive advancement in Client retention, advisor productivity, quality recruitment and training and development.

(1) Gain Miles MPF Market Analysis, December 2019.

(2) Million Dollar Round Table ("MDRT").

(3) First virtual insurer under the Hong Kong Insurance Authority's Fast Track.

### Transform our operations and business model

- Digitize our business and use common technology platforms to improve operational efficiency to enhance the Client experience by making it easier to do business with us and ensure a seamless experience in all our markets in Asia.
- Better engage prospective and existing Clients by being more personal, proactive and predictive through the use of data and analytics.

### Continue to build scale in each of our markets

- Achieve scale in each market and offer a holistic set of solutions to help our Clients achieve lifetime financial security and live healthier lives.
- To grow our scale, we will focus on both organic and inorganic approaches, which include opportunities that bring distribution capabilities and are accretive to Sun Life's earnings.

### Outlook

We believe our diversified business, with a multi-country presence and a multi-channel distribution, positions us to capture opportunities as they arise, and protects our business as a whole against adverse economic or regulatory cycles in any one market. We expect that the region's economic growth will continue, with predictions that 90% of the next billion entrants into the middle class in the world will come from Asia<sup>(1)</sup>, allowing us to deliver financial security and healthier lives to different segments of the population. With these strong demographics, and low penetration rates for insurance, we expect to see sustained growth across all of our distribution channels.

Competition and economic and geopolitical uncertainty continue to pose challenges to our businesses. However, our current market positions, key strategic relationships, and our ability to leverage our global expertise position us well for the future. As governments continue to download responsibilities in both the retirement and health spaces, we are well-equipped to offer current and potential Clients sound solutions.

## Business Markets

Business	Description	Market Position
<b>Insurance and Wealth</b>		
<i>Philippines</i> <sup>(1)</sup>	<ul style="list-style-type: none"> <li>Individual and group life and health insurance products to individuals and businesses through a multi-channel distribution network</li> <li>Mutual funds to individual and institutional Clients through agency, brokerage, bancassurance and digital partners</li> </ul>	<ul style="list-style-type: none"> <li>#1 ranked insurance company<sup>(2)</sup></li> <li>2nd largest mutual fund operation in the country<sup>(3)</sup></li> </ul>
<i>Hong Kong</i>	<ul style="list-style-type: none"> <li>MPF and pension administration to individuals and businesses through agency and brokerage distribution</li> <li>Individual and group life and health insurance to individuals and businesses through agency and brokerage distribution</li> </ul>	<ul style="list-style-type: none"> <li>4th largest provider based on AUM, 2nd based on net inflows<sup>(4)</sup></li> <li>Top 10 in Agency for Life Insurance<sup>(5)</sup></li> </ul>
<i>Indonesia</i>	<ul style="list-style-type: none"> <li>Individual life and health insurance and creditor life insurance through agency, telco arrangements and bancassurance, including a bancassurance partnership with CIMB Niaga, the 5th largest bank in the country</li> </ul>	<ul style="list-style-type: none"> <li>Ranked in the Top 10 overall<sup>(6)</sup></li> </ul>
<i>Vietnam</i>	<ul style="list-style-type: none"> <li>Individual insurance and pensions distributed through agency, corporate sales, and digital distribution channels and partnerships including a bancassurance agreement with TPBank, a digital leader in Vietnamese banking</li> </ul>	<ul style="list-style-type: none"> <li>Ranked in the Top 15 overall<sup>(7)</sup></li> </ul>
<i>Malaysia</i> <sup>(8)</sup>	<ul style="list-style-type: none"> <li>Individual and group insurance through banks and telco arrangements, including an exclusive bancassurance agreement with CIMB Bank, Malaysia's 2nd largest bank, and an agency force in partnership with Principal Asset Management</li> </ul>	<ul style="list-style-type: none"> <li>3rd in bancassurance sales<sup>(9)</sup></li> </ul>
<i>India</i> <sup>(10)</sup>	<ul style="list-style-type: none"> <li>Individual and group insurance, savings and retirement products through agency, brokerage and bancassurance channels</li> <li>Mutual fund products to both individual and institutional investors through independent financial advisors, banks, and direct distribution channels</li> </ul>	<ul style="list-style-type: none"> <li>8th largest life insurance company in India<sup>(11)</sup></li> <li>4th largest mutual fund operation in the country<sup>(12)</sup></li> </ul>
<i>China</i> <sup>(13)</sup>	<ul style="list-style-type: none"> <li>Individual and group life and health insurance and savings products distributed through agency, brokerage, bancassurance and digital channels</li> <li>Institutional asset management, passive third-party asset management and debt financing business through direct distribution</li> </ul>	<ul style="list-style-type: none"> <li>Top 10 life insurance company in China among multinationals<sup>(14)</sup></li> </ul>
<b>International</b>	<ul style="list-style-type: none"> <li>Individual life insurance solutions for high-net-worth individuals and families residing outside the U.S. and Canada</li> <li>Manages a block of International wealth investment products closed to new sales</li> </ul>	<ul style="list-style-type: none"> <li>A leader in international high-net-worth life insurance business</li> </ul>

(1) Philippines: Includes a joint venture with the Yuchengco Group - Sun Life Grepa Financial, Inc. (49%).

(2) Insurance Commission of the Philippines, based on third quarter 2019 year-to-date total premium income for Sun Life of Canada (Philippines).

(3) Philippine Investment Funds Association, based on November 2019 ending AUM.

(4) Gain Miles MPF Market Analysis, December 2019.

(5) Insurance Authority of Hong Kong, Provisional Statistics on Hong Kong Long Term Insurance Business, based on third quarter 2019 year-to-date annualized first year premiums.

(6) Indonesia Life Insurance Association industry report, based on third quarter 2019 year-to-date first year premiums.

(7) 2019 annualized first year premiums based on data shared among industry players.

(8) Malaysia: Joint ventures with Khazanah Nasional Berhad and CIMB Group Holdings Berhad - Sun Life Malaysia Assurance Berhad (49%), Sun Life Malaysia Takaful Berhad (49%).

(9) Life Insurance Association of Malaysia and Insurance Services Malaysia Berhad, based on the third quarter 2019 year-to-date annualized first year premium for conventional and takaful business.

(10) India: Joint ventures with the Aditya Birla Group - Aditya Birla Sun Life Insurance Company Limited (49%), Aditya Birla Sun Life Asset Management Company Limited ("Aditya Birla Sun Life AMC Limited") (49%).

(11) Insurance Regulatory Authority of India, based on 2019 first year premiums among private players.

(12) Association of Mutual Funds in India, based on average AUM for the quarter ended December 31, 2019.

(13) China: Joint ventures with the China Everbright Group: Sun Life Everbright Life Insurance Company Limited (24.99%), Sun Life Everbright Asset Management Co., Ltd (24.74%).

(14) China Insurance Regulatory Commission, based on gross premiums for November 2019 year-to-date (excluding universal and variable universal life insurance deposits and pension companies).

(1) The Unprecedented Expansion of the Global Middle Class: An Update, Feb 2017, Brookings, Homi Kharas

## Financial and Business Results

(\$ millions)	2019	2018	2017
Insurance and Wealth International <sup>(1)</sup>	506	381	326
Reported net income	14	174	452
Less: Market-related impacts <sup>(2)</sup>	520	555	778
Assumption changes and management actions <sup>(2)</sup>	(66)	(30)	38
Other <sup>(2)(3)</sup>	37	76	284
Underlying net income <sup>(4)</sup>	(1)	(14)	(5)
Reported ROE (%) <sup>(4)(5)</sup>	550	523	461
Underlying ROE (%) <sup>(4)(5)</sup>	9.5%	11.3%	14.4%
Insurance Sales <sup>(4)</sup>	10.0%	10.6%	8.5%
Wealth Sales <sup>(4)</sup>	1,154	898	811
	8,373	10,101	13,056

(1) Effective January 1, 2018, we transferred our International business unit from the U.S. to Asia, and comparative figures have been changed to conform to the current year presentation.

(2) Represents an adjustment made to arrive at a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.

(3) In 2018, Other amounts pertains to a distribution arrangement in India for asset management.

(4) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

(5) As a result of a revision of the capital allocation model for Asia, reported and underlying ROEs increased by 1.5% for the year ended 2018 and 2019, relative to 2017.

### Profitability

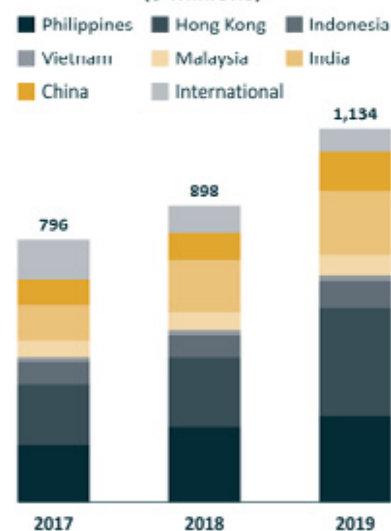
Asia's reported net income decreased by \$35 million or 6% in 2019 compared to 2018, reflecting less favourable ACMA and unfavourable market-related impacts, predominantly from interest rates, partially offset by higher acquisition, integration and restructuring costs in 2018. Underlying net income increased by \$27 million or 5%, driven by business growth, improved lapse and policyholder behaviour experience and higher AFS gains, partially offset by unfavourable joint venture experience and higher new business strain primarily in International. The impacts of foreign exchange translation increased reported net income and underlying net income by \$15 million.

### Growth

Asia insurance sales increased by 26%, excluding the favourable impacts of foreign exchange translation of \$20 million in 2019 compared to 2018. Individual insurance sales were \$1,102 million, an increase of 27%, excluding the favourable impacts of foreign exchange translation of \$20 million, driven by growth in all local insurance markets, partially offset by lower sales in International.

Asia wealth sales decreased by 18%, excluding the favourable impacts of foreign exchange translation of \$120 million, in 2019 compared to 2018, as a result of lower mutual fund sales in India due to weak market sentiment, partially offset by money market sales in the Philippines and growth in the pension business in Hong Kong.

### Constant Currency Insurance Sales (\$ millions)



### Profitability by Business Unit and Growth by Business Market

#### Insurance and Wealth

Insurance and Wealth's reported net income increased by \$125 million or 33% in 2019 compared to 2018, driven by favourable ACMA impacts, business growth, higher acquisition, integration and restructuring costs in 2018 and favourable lapse and other policyholder behaviour experience, partially offset by unfavourable joint venture experience and unfavourable market-related impacts, predominantly from interest rates.

We continued to build our agency and alternate distribution channels, leverage a more balanced product portfolio and increase efficiency and productivity, while maintaining Client focus.

**Philippines** - On a local currency basis, individual insurance sales increased by 18% in 2019 compared to 2018. Mutual and managed fund AUM was \$2.0 billion as at December 31, 2019, an increase of 43% compared to 2018, measured in local currency, reflecting strong money market sales.

Agency headcount reached approximately 21,000 at the end of 2019, 31% higher than 2018.

**Hong Kong** - On a local currency basis, individual insurance sales increased by 54% in 2019 compared to 2018, with growth in both the agency and broker channels. AUM in our pension business reached \$15.0 billion as at December 31, 2019, an increase of 31% compared to 2018, measured in local currency, and pension net flows increased by 8% compared to 2018.

Agency headcount grew 5% from 2018 to approximately 2,400 at the end of 2019.

**Indonesia** - On a local currency basis, individual life insurance sales in Indonesia increased by 16% in 2019 compared to 2018, with growth across all channels.

Agency headcount was at approximately 5,900 in 2019, a reduction from the previous year end, as we focused on quality and terminated inactive agents.

**Vietnam** - On a local currency basis, individual insurance sales increased by 19% in 2019 compared to 2018, driven by the new broker channel and growth in the agency channel.

Agency headcount was almost 4,300 at the end of 2019, 9% lower than 2018.

**Malaysia** - On a local currency basis, individual insurance sales in Malaysia increased by 19% in 2019 compared to 2018, driven primarily by growth in the bancassurance channel.

Malaysia's agency force, newly established in 2018, surpassed 750 agents.

**India** - On a local currency basis, individual life insurance sales increased by 24% in 2019 compared to 2018, driven by growth in bancassurance through establishment of our relationship with HDFC Bank Limited.

India's agency headcount exceeded 75,000 at the end of 2019, 8% higher than 2018.

On a local currency basis, gross sales of equity and fixed income funds decreased by 41% due to weak market sentiment and volatility.

Total AUM as at December 31, 2019 was \$47.3 billion, of which \$23.2 billion is reported in our AUM, a decrease of 4% compared to 2018.

**China** - On a local currency basis, sales of individual insurance products by Sun Life Everbright Life Insurance Company Limited ("SLEB") increased by 46% in 2019 compared to 2018, driven by strong performance across all channels except telemarketing.

Agency headcount was almost 13,400 at the end of 2019, 77% higher than 2018.

### International

International's reported net income decreased by \$160 million in 2019 compared to 2018, reflecting unfavourable ACMA and market-related impacts and lower new business gains, partially offset by improved lapse and other policyholder behaviour experience. Market-related impacts included unfavourable impacts from interest rates and changes in the fair value of investment properties, partially offset by favourable impacts from equity markets.

International life insurance sales were \$73 million in 2019, a decrease of \$9 million or 11% compared to 2018, due to the competitive environment and market shifts in the first half of 2019.

## 5. Corporate

Corporate includes the results of our UK business and Corporate Support.

### Business Units

Business	Description
UK	<ul style="list-style-type: none"> <li>UK has a run-off block of business consisting of approximately 554,000 in-force life and pension policies, with approximately £11 billion of AUM. Since December 2010, UK has been closed to new business and focuses on supporting existing Clients. Most administrative functions have been outsourced to external service providers which are managed by an in-house management team.</li> </ul>
Corporate Support	<ul style="list-style-type: none"> <li>Corporate Support operations consist of the expenses, debt charges, investment income, capital and other items not allocated to Sun Life's other business segments, as well as the Company's Run-off reinsurance business. Coverage in our Run-off reinsurance business includes long-term care, medical coverage, and guaranteed minimum income and death benefit coverage. The block also includes group long-term disability and personal accident policies which are 100% retroceded.</li> </ul>

## Financial and Business Results

(\$ millions)	2019	2018	2017
UK	379	250	181
Corporate Support	(224)	(186)	(282)
Reported net income (loss)	155	64	(101)
Less: Market-related impacts <sup>(1)</sup>	(2)	(15)	5
Assumption changes and management actions <sup>(1)(2)</sup>	225	140	55
Acquisition, integration and restructuring <sup>(1)(3)</sup>	(27)	(10)	(55)
U.S. tax reform <sup>(1)(2)</sup>	–	–	(54)
Underlying net income (loss) <sup>(4)</sup>	(41)	(51)	(52)

(1) Represents an adjustment made to arrive at a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.

(2) ACMA in 2017 excludes the \$5 million change that is included in U.S. tax reform, shown separately.

(3) In 2017, the amount consists primarily of the impact of a restructuring amount in the fourth quarter of 2017 pertaining to the Company's plan to enhance business processes and organizational structures and capabilities.

(4) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

### Profitability

Corporate's reported net income increased by \$91 million in 2019 compared to 2018, driven by the impacts of favourable ACMA predominantly in the UK, improved market-related impacts, primarily from interest rates, and lower integration costs, partially offset by restructuring costs. Underlying net loss improved by \$10 million or 20%, driven by higher net benefits from tax-related items, partially offset by lower earnings from the run-off businesses, higher project spend including the adoption of IFRS 17, unfavourable lapse and other policyholder behaviour experience in the UK and unfavourable expense experience. The impacts of foreign exchange translation decreased reported net income by \$7 million and increased underlying net loss by \$3 million.

### Profitability by Business Unit

#### UK

UK's reported net income increased by \$129 million or 52% in 2019 compared to 2018, driven predominantly by favourable ACMA impacts.

#### Corporate Support

Corporate Support's reported net loss increased by \$38 million or 20% in 2019 compared to 2018, reflecting unfavourable expense experience, the impacts of favourable ACMA relating to the termination of assumed business in 2018, higher project spend including the adoption of IFRS 17 and restructuring costs, partially offset by higher net benefits from tax-related items and lower integration costs.

## H. Investments

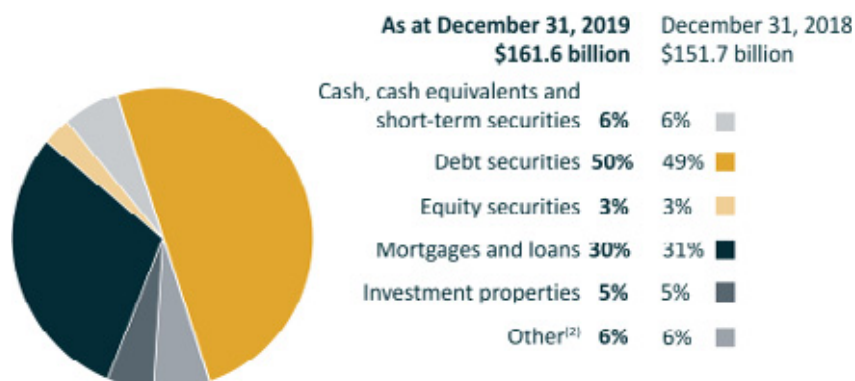
The Company strives to ensure that all general fund investments are properly aligned with business objectives including meeting policyholder obligations and maintaining adequate liquidity at all times. Consideration is given in our investment process to a wide range of factors, including ensuring attractive risk and return profiles, appropriate diversification by asset type, credit exposure and sector, financial condition of issuers and borrowers, quality and value of underlying security and macro- and micro-economic developments and trends including prospects for specific industry sectors. The Risk & Conduct Review Committee of the Board of Directors ("Risk & Conduct Review Committee") approves policies that contain prudent standards and procedures for the investment of our general fund assets. These policies include requirements, restrictions and limitations for interest rate, credit, equity market, real estate market, liquidity, concentration, currency, and derivative risks. Compliance with these policies is monitored on a regular basis and reported annually to the Risk & Conduct Review Committee. The Governance, Nomination & Investment Committee of the Board of Directors monitors the Company's Investment Plan and investment performance, oversees practices, procedures and controls related to the management of the general fund investment portfolio, and reviews corporate governance guidelines and processes.

### 1. Investment Profile

We had total general fund invested assets of \$161.6 billion as at December 31, 2019, compared to \$151.7 billion as at December 31, 2018. The increase in general fund invested assets was primarily due to an increase in operating activities and net fair value, offset by the impacts of foreign exchange translation. Our general fund invested assets are well-diversified across investment types, geographies and sectors with the majority of our portfolio invested in fixed income high-quality assets.

Additional detail on our investments is provided in Notes 5 and 6 in our 2019 Annual Consolidated Financial Statements.

The following chart sets out the composition of our general fund invested assets.<sup>(1)</sup>



(1) The values and ratios presented are based on the carrying value of the respective asset categories. Generally, the carrying values for invested assets are equal to their fair values; however our mortgages and loans are generally carried at amortized cost. As at December 31, 2019, the fair value of mortgages and loans was \$52.0 billion (\$48.4 billion as at December 31, 2018) and the carrying value of mortgages and loans was \$48.2 billion (\$46.8 billion as at December 31, 2018). For invested assets supporting insurance contracts, in the event of default, if the amounts recovered are insufficient to satisfy the related insurance contract liability cash flows that the assets are intended to support, credit exposure may be greater than the carrying value of the assets.

(2) Consists of: Other invested assets (3%), Policy loans (2%), Derivative assets (1%) for both 2019 and 2018.

## 2. Debt Securities

Our debt securities portfolio is actively managed through a regular program of purchases and sales aimed at optimizing yield, quality and liquidity, while ensuring that it remains well-diversified and duration-matched to insurance contract liabilities. With the exception of certain countries where we have business operations, including Canada, the United States, the United Kingdom and the Philippines, our exposure to debt securities from any single country did not exceed 1% of total invested assets in our 2019 Annual Consolidated Financial Statements.

### Debt Securities by Issuer and Industry Sector

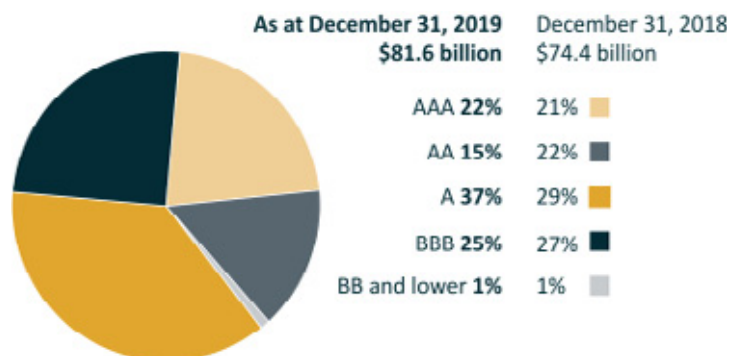
(\$ millions)	December 31, 2019		December 31, 2018	
	Total	% of Total	Total	% of Total
Debt securities issued or guaranteed by:				
Canadian federal government	6,446	8%	5,576	7%
Canadian provincial and municipal government	14,965	18%	13,065	18%
U.S. government and agency	3,111	4%	2,907	4%
Other foreign government	5,917	7%	5,646	8%
<b>Total government issued or guaranteed debt securities</b>	<b>30,439</b>	<b>37%</b>	<b>27,194</b>	<b>37%</b>
Corporate debt securities by industry sector: <sup>(1)</sup>				
Financials	10,926	13%	9,860	13%
Utilities	7,258	9%	6,881	9%
Industrials	5,429	7%	4,643	6%
Energy	4,232	5%	3,968	5%
Communication services	3,546	4%	3,307	4%
Real estate	2,963	4%	3,016	4%
Health care	2,122	3%	2,033	3%
Consumer staples	1,924	2%	1,882	3%
Materials	1,543	2%	1,481	2%
Consumer discretionary	1,487	2%	1,581	2%
Information technology	1,335	2%	1,231	2%
<b>Total corporate debt securities</b>	<b>42,765</b>	<b>53%</b>	<b>39,883</b>	<b>53%</b>
<b>Asset-backed securities</b>	<b>8,402</b>	<b>10%</b>	<b>7,366</b>	<b>10%</b>
<b>Total debt securities</b>	<b>81,606</b>	<b>100%</b>	<b>74,443</b>	<b>100%</b>

(1) Our grouping of debt securities by sector is based on the Global Industry Classification Standard and S&P Dow Jones Indices.

## Debt Securities by Credit Rating

The credit risk ratings in the following chart were established in accordance with the internal rating process described in this MD&A under the heading J - Risk Management - 9 - Risk Categories - Credit Risk Management Governance and Control.

Our debt securities with a credit rating of "A" or higher represented 74% of the total debt securities as at December 31, 2019, compared to 72% as at December 31, 2018. Debt securities with a credit rating of "BBB" or higher represented 99% of total debt securities as at December 31, 2019, consistent with December 31, 2018.



## Debt Securities by Geography

The carrying value of FVTPL and AFS debt securities by geographic location is presented in the following table.

(\$ millions)	December 31, 2019				December 31, 2018			
	FVTPL debt securities	AFS debt securities	Total	% of Total	FVTPL debt securities	AFS debt securities	Total	% of Total
Debt securities								
Canada	28,221	5,031	33,252	41%	25,091	4,217	29,308	38%
United States	24,224	5,822	30,046	37%	21,329	5,917	27,246	37%
Europe	8,827	1,178	10,005	12%	8,840	1,278	10,118	14%
Asia	4,074	573	4,647	6%	3,673	445	4,118	6%
Other	2,548	1,108	3,656	4%	2,469	1,184	3,653	5%
<b>Total debt securities</b>	<b>67,894</b>	<b>13,712</b>	<b>81,606</b>	<b>100%</b>	<b>61,402</b>	<b>13,041</b>	<b>74,443</b>	<b>100%</b>

Our gross unrealized losses as at December 31, 2019 for FVTPL and AFS debt securities were \$0.1 billion and \$0.1 billion, respectively, compared with \$1.4 billion and \$0.2 billion, respectively, as at December 31, 2018. The decrease in gross unrealized losses was largely due to the impact from declining interest rates and the narrowing of credit spreads.

## 3. Equities

Our equity portfolio is well-diversified with approximately 45% of our portfolio invested in exchange-traded funds as at December 31, 2019, compared to 50% as at December 31, 2018. Exchange-traded fund holdings are primarily in the TD Emerald U.S. Market Index Fund and S&P/Toronto Stock Exchange ("TSX") 60 Index Fund. The carrying value of equities by issuer geography as at December 31, 2019 is set out in the following table.

### Equities by Issuer Geography

(\$ millions)	December 31, 2019				December 31, 2018			
	FVTPL equities	AFS equities	Total	% of Total	FVTPL equities	AFS equities	Total	% of Total
Equity securities								
Canada	2,813	22	2,835	60%	2,651	15	2,666	58%
United States	550	137	687	14%	508	388	896	19%
Europe	381	6	387	8%	371	10	381	8%
Asia	713	148	861	18%	469	206	675	15%
Other	17	-	17	-%	15	1	16	-%
<b>Total equity securities</b>	<b>4,474</b>	<b>313</b>	<b>4,787</b>	<b>100%</b>	<b>4,014</b>	<b>620</b>	<b>4,634</b>	<b>100%</b>

Excluding exchange-traded funds and mutual funds, there were no issuers exceeding 1% of the equity portfolio as at December 31, 2019.

## 4. Mortgages and Loans

Mortgages and loans in this section are presented at their carrying value in our 2019 Annual Consolidated Financial Statements. Our mortgage portfolio consisted almost entirely of first mortgages and our loan portfolio consisted of private placement loans.

## Mortgages and Loans by Geography

The carrying value of mortgages and loans by geographic location is presented in the following table.<sup>(1)</sup>

(\$ millions)	December 31, 2019				December 31, 2018			
	Mortgages	Loans	Total	% of Total	Mortgages	Loans	Total	% of Total
Canada	9,310	13,249	22,559	47%	8,557	13,238	21,795	46%
United States	6,915	11,994	18,909	39%	7,876	11,458	19,334	41%
Europe	–	4,561	4,561	9%	–	3,628	3,628	8%
Asia	–	352	352	1%	–	332	332	1%
Other	–	1,841	1,841	4%	–	1,733	1,733	4%
<b>Total</b>	<b>16,225</b>	<b>31,997</b>	<b>48,222</b>	<b>100%</b>	<b>16,433</b>	<b>30,389</b>	<b>46,822</b>	<b>100%</b>

(1) The geographic location for mortgages is based on the location of the property and for loans it is based on the country of the creditor's parent.

## Mortgage Portfolio

As at December 31, 2019, we held \$16.2 billion of mortgages, compared to \$16.4 billion as at December 31, 2018. Our mortgage portfolio consists entirely of commercial mortgages, as presented in the following table.

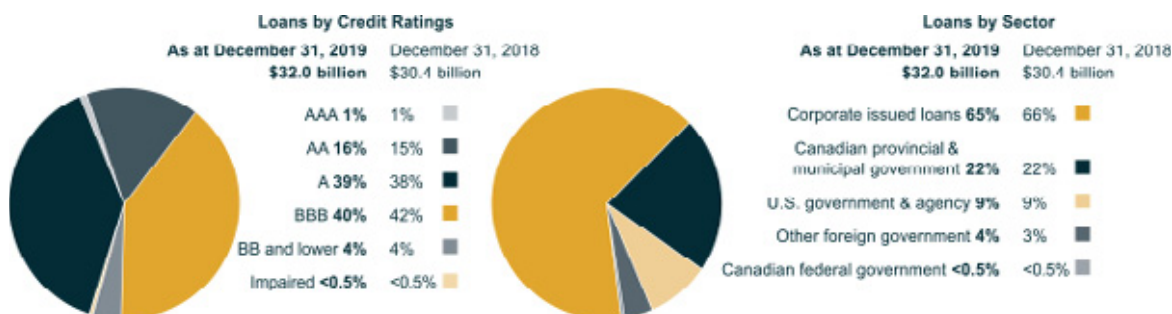
(\$ millions)	December 31, 2019			December 31, 2018		
	Insured	Uninsured	Total	Insured	Uninsured	Total
<b>Mortgages</b>						
Retail	–	3,902	3,902	–	4,202	4,202
Office	–	3,922	3,922	–	4,228	4,228
Multi-family residential	3,613	2,078	5,691	3,196	2,179	5,375
Industrial and land	–	1,898	1,898	–	1,906	1,906
Other	353	459	812	341	381	722
<b>Total mortgages</b>	<b>3,966</b>	<b>12,259</b>	<b>16,225</b>	<b>3,537</b>	<b>12,896</b>	<b>16,433</b>
<b>% of Total mortgages</b>	<b>24%</b>	<b>76%</b>	<b>100%</b>	<b>22%</b>	<b>78%</b>	<b>100%</b>

As at December 31, 2019, 35% of our commercial mortgage portfolio consisted of multi-family residential mortgages; there are no single-family residential mortgages. Our uninsured commercial portfolio had a weighted average loan-to-value ratio of approximately 55% as at December 31, 2019, consistent with December 31, 2018. While we generally limit the maximum loan-to-value ratio to 75% at issuance, we may invest in mortgages with a higher loan-to-value ratio in Canada if the mortgage is insured by the Canada Mortgage and Housing Corporation ("CMHC"). The estimated weighted average debt service coverage for our uninsured commercial portfolio is 1.76 times. Of the \$3.9 billion of multi-family residential mortgages in the Canadian commercial mortgage portfolio, 93% were insured by the CMHC.

## Loan Portfolio

As at December 31, 2019, we held \$32.0 billion of loans, compared to \$30.4 billion as at December 31, 2018. Private placement loans provide diversification by type of loan, industry segment and borrower credit quality. The private placement loan portfolio consists of senior secured and unsecured loans to large- and mid-market sized corporate borrowers, securitized lease/loan obligations secured by a variety of assets, and project finance loans in sectors such as power and infrastructure. The growth in the portfolio is consistent with our strategy to increase our investments in private placement loans.

The credit risk ratings in the following chart were established in accordance with the internal rating process described in this MD&A under the heading J - Risk Management - 9 - Risk Categories - Credit Risk Management Governance and Control. As at December 31, 2019, 96% of our total loan portfolio is investment grade, consistent with December 31, 2018.



## Mortgages and Loans Past Due or Impaired

The gross carrying value and allowance for mortgages and loans past due or impaired are presented in the following table.

(\$ millions)	December 31, 2019					
	Gross carrying value			Allowance for losses		
	Mortgages	Loans	Total	Mortgages	Loans	Total
Not past due	16,148	31,911	48,059	–	–	–
Past due:						
Past due less than 90 days	–	–	–	–	–	–
Past due 90 days or more	–	–	–	–	–	–
Impaired	147	133	280	70 <sup>(1)</sup>	47	117
<b>Total</b>	<b>16,295</b>	<b>32,044</b>	<b>48,339</b>	<b>70</b>	<b>47</b>	<b>117</b>

(\$ millions)	December 31, 2018					
	Gross carrying value			Allowance for losses		
	Mortgages	Loans	Total	Mortgages	Loans	Total
Not past due	16,427	30,332	46,759	–	–	–
Past due:						
Past due less than 90 days	–	14	14	–	–	–
Past due 90 days or more	–	–	–	–	–	–
Impaired	31	93	124	25 <sup>(1)</sup>	50	75
<b>Total</b>	<b>16,458</b>	<b>30,439</b>	<b>46,897</b>	<b>25</b>	<b>50</b>	<b>75</b>

(1) Includes \$20 million of sectoral provisions as at December 31, 2019, and \$21 million of sectoral provisions as at December 31, 2018.

Our impaired mortgages and loans, net of allowances for losses, were \$163 million as at December 31, 2019, compared to \$49 million as at December 31, 2018.

## 5. Derivatives

The fair value of derivative assets held by the Company was \$1,548 million, while the fair value of derivative liabilities was \$2,040 million as at December 31, 2019, compared to a fair value of derivative assets of \$1,112 million and a fair value of derivative liabilities of \$2,295 million as at December 31, 2018.

We use derivative instruments to manage risks related to interest rate, equity market and currency fluctuations and in replication strategies to reproduce permissible investments. Our use of derivatives in these risk mitigation strategies does not mitigate all risk exposure; rather, they are used to keep us within our risk tolerance limits.

In addition to the general policies and monitoring, we use a variety of tools in counterparty risk management. Over-the-counter (“OTC”) derivative transactions are executed under International Swaps and Derivatives Association (“ISDA”) Master Agreements. A Credit Support Annex accompanies most of the ISDAs, which establish requirements for collateral.

### Derivative Financial Instruments

The values associated with our derivative instruments are presented in the following table. Notional amounts serve as the basis for payments calculated under derivatives contracts and are not exchanged.

(\$ millions)	2019	2018
As at December 31		
Net fair value	(492)	(1,183)
<b>Total notional amount</b>	<b>62,131</b>	<b>59,198</b>

The net fair value of derivatives was a liability of \$492 million as at December 31, 2019, compared to a liability of \$1,183 million as at December 31, 2018. The change in net fair value was primarily due to the impact from changes in foreign exchange rates and swap curves.

The total notional amount of our derivatives increased to \$62.1 billion as at December 31, 2019 from \$59.2 billion as at December 31, 2018. The change in notional amount is mainly attributable to an increase of \$5.6 billion in foreign exchange contracts used for hedging foreign currency assets, an increase of \$1.3 billion in equity contracts to hedge equity price fluctuations, partially offset by a decrease of \$4.0 billion in interest rate contracts primarily due to a reduction in interest rate exposed assets.

Certain of our derivatives are designated in qualifying hedging relationships for accounting purposes, and represented \$1.4 billion, or 2.3% of the total notional amount. Derivatives are designated in hedging relationships for accounting purposes to minimize accounting mismatches. These hedging relationships are documented at inception and hedge effectiveness is assessed on a quarterly basis.

Our derivatives designated in qualifying hedging relationships for accounting purposes include interest rate swaps, foreign exchange agreements, equity forwards and, previously, currency swaps. We designate certain interest rate swaps in fair value hedging relationships to hedge interest rate exposure on AFS assets. We also designate certain foreign exchange agreements in fair value and cash flow hedging relationships to manage foreign currency fluctuations associated with AFS assets. Additionally, we designate certain equity forwards in cash flow hedging relationships for anticipated payments of awards under certain stock-based compensation plans.

## Credit Equivalent Amount

As the regulator of the Canadian insurance industry, OSFI provides guidelines to quantify the use of derivatives. The credit equivalent amount, a measure used to approximate the potential credit exposure, is determined as the replacement cost of the derivative contracts with a positive fair value plus an amount representing the potential future credit exposure.

The risk-weighted credit equivalent amount is a measure used to determine the amount of capital necessary to support derivative transactions for certain Canadian regulatory purposes. It is determined by weighting the credit equivalent amount according to the nature of the derivative and the creditworthiness of the counterparties.

(\$ millions)	2019		2018	
	Credit equivalent amount ("CEA") <sup>(1)</sup>	Risk weighted CEA <sup>(1)</sup>	Credit equivalent amount <sup>(1)</sup>	Risk weighted CEA <sup>(1)</sup>
Foreign exchange contracts	666	14	433	12
Interest rate contracts	79	2	98	3
Equity and other contracts	51	1	11	–
<b>Total</b>	<b>796</b>	<b>17</b>	<b>542</b>	<b>15</b>

(1) Amounts presented are net of collateral received.

## Credit Default Swaps By Underlying Financial Instrument Credit Rating

Credit default swaps ("CDS") are derivative contracts that transfer credit risk related to an underlying referenced financial instrument from one counterparty to another. The purchaser receives protection against the decline in the value of the referenced financial instrument as a result of specified credit events such as default or bankruptcy. The Company sells credit protection through CDS to replicate credit exposure of an underlying reference security and enhance investment returns. The credit risk ratings of the underlying reference securities for single name contracts were established in accordance with the internal rating process described in section J - Risk Management - 9 - Risk Categories - Credit Risk Management Governance and Control.

The following table provides a summary of the credit default swap protection sold by credit rating of the underlying reference security.

(\$ millions)	2019		2018	
	Notional amount	Fair value	Notional amount	Fair value
Single name credit default swap contracts				
AA	45	1	48	1
A	574	9	611	9
BBB	608	19	674	13
<b>Total single name credit default swap contracts</b>	<b>1,227</b>	<b>29</b>	<b>1,333</b>	<b>23</b>
Credit default swap index contracts	–	–	23	–
<b>Total credit default swap contracts sold</b>	<b>1,227</b>	<b>29</b>	<b>1,356</b>	<b>23</b>

Additional detail on our derivative portfolio by derivative type is provided in Note 6.A.iv in our 2019 Annual Consolidated Financial Statements.

## 6. Investment Properties

Office, retail and industrial properties are the major components of our investment properties portfolio, representing approximately 78% as at December 31, 2019. The increase in our investment property portfolio is predominantly driven by market appraisal gains, partially offset by the impacts of foreign exchange translation and net sales in the year.

### Investment Properties by Type and Geography

(\$ millions)	December 31, 2019						
	Office	Industrial	Retail	Multi-family residential	Other	Total	% of Total
Canada	1,958	1,405	967	1,064	460	5,854	80%
United States	772	269	273	–	72	1,386	19%
Europe	22	13	30	–	1	66	1%
<b>Total</b>	<b>2,752</b>	<b>1,687</b>	<b>1,270</b>	<b>1,064</b>	<b>533</b>	<b>7,306</b>	<b>100%</b>

(\$ millions)	December 31, 2018						
	Office	Industrial	Retail	Multi-family residential	Other	Total	% of Total
Canada	1,937	1,119	1,092	900	378	5,426	76%
United States	847	358	338	–	109	1,652	23%
Europe	25	14	38	–	2	79	1%
<b>Total</b>	<b>2,809</b>	<b>1,491</b>	<b>1,468</b>	<b>900</b>	<b>489</b>	<b>7,157</b>	<b>100%</b>



## 7. Impaired Assets

Financial assets that are classified as FVTPL, which represented 47% of our invested assets as at December 31, 2019, do not have allowances for losses since changes in the fair value of these assets are recorded to income and the assets are recorded at fair value in our 2019 Annual Consolidated Financial Statements. In the event of default, if the amounts recovered are insufficient to satisfy the related insurance contract liability cash flows that the assets are intended to support, credit exposure may be greater than the carrying value of the asset.

In the absence of objective evidence of impairment, impairment losses are not recognized on AFS debt securities, equity securities and other invested assets. If the cost of these assets is greater than their fair values, unrealized losses are recognized in other comprehensive income. Unrealized losses may be due to interest rate fluctuations or depressed fair values in sectors which have experienced strong negative market performance.

Additional detail on our impairment policy is provided in Note 1.iii in our 2019 Annual Consolidated Financial Statements.

## 8. Asset Default Provision

We make provisions for possible future credit events in the determination of our insurance contract liabilities. The amount of the provision for asset default included in insurance contract liabilities is based on possible reductions in future investment yields that vary by factors such as type of asset, asset credit quality (rating), duration and country of origin. To the extent that an asset is written off, or disposed of, any amounts that were set aside in our insurance contract liabilities for possible future asset defaults in respect of that asset are released.

Our asset default provision reflects the provision relating to future credit events for fixed income assets currently held by the Company that support our insurance contract liabilities. Our asset default provision as at December 31, 2019 was \$2,637 million for losses related to possible future credit events for fixed income assets currently held by the Company that support our insurance contract liabilities. This represents 2.3% of the fixed income assets supporting insurance contract liabilities reported on our Consolidated Statements of Financial Position as at December 31, 2019.

Our asset default provision as at December 31, 2019 was \$248 million higher than the provision as at December 31, 2018, primarily due to increases in the provisions for assets purchased net of dispositions, partially offset by the release of provisions on fixed income assets supporting our insurance contract liabilities and the impacts of foreign exchange translation.

The following table sets out the changes in our asset default provision for existing fixed income investments.

(\$ millions)	2019	2018
Opening balance	2,389	2,288
Purchases, dispositions and net asset movement <sup>(1)</sup>	612	205
Changes in assumptions and methodologies	(53)	–
Changes in ratings	57	47
Release of provisions <sup>(2)</sup>	(293)	(266)
Currency	(75)	115
Closing balance	2,637	2,389

(1) Net movement reflects the fluctuation in the value of FVTPL assets arising from movements in interest rates, credit spreads and other factors that impact the market value of fixed income investments.

(2) This amount represents the orderly release of provisions for future credit events held in insurance contract liabilities.

## I. Capital and Liquidity Management

Capital and liquidity management is core to our business as an insurance company. We ensure adequate capital for the protection of our policyholders, Clients and creditors, while managing capital adequacy and allocation across our businesses for the benefit of our shareholders. In addition, we maintain strong financial flexibility by ensuring that sufficient liquid assets are available to cover our anticipated payment obligations and funding requirements. We invest in various types of assets with a view to matching them with liabilities of various durations.

The regulatory environments in which we operate are expected to evolve as governments and regulators work to develop the appropriate level of financial regulation required to ensure that capital, liquidity and risk management practices are sufficient to withstand severe economic downturns.

### 1. Capital

We have a capital risk policy designed to maintain a strong capital position and to provide the flexibility necessary to take advantage of growth opportunities, to support the risk associated with our businesses and to optimize shareholder return. Our capital risk policy is also intended to provide an appropriate level of risk management over capital adequacy risk, which is defined as the risk that capital is not or will not be sufficient to withstand adverse economic conditions, to maintain financial strength, or to allow the Company and its subsidiaries to take advantage of opportunities for expansion. Our capital base is structured to exceed minimum regulatory and internal capital targets and to maintain strong credit and financial strength ratings, while maintaining a capital-efficient structure. Capital is managed both on a consolidated basis under principles that consider all the risks associated with the business as well as at the business group level under the principles appropriate to the jurisdictions in which we operate. The capital of our foreign subsidiaries is managed on a local statutory basis in a manner commensurate with their individual risk profiles.

Sun Life, including all of its business groups, engages in a capital planning process annually in which capital deployment options, capital raising and dividend recommendations are presented to the Board of Directors. Capital reviews are regularly conducted which consider the potential impacts under various business, interest rate and equity market scenarios. Relevant components of these capital reviews, including dividend recommendations, are presented to the Risk & Conduct Review Committee on a quarterly basis. The Board of Directors is responsible for the approval of our annual capital plan and quarterly shareholder dividends.

The Company's capital risk policy establishes policies, operating guidelines and procedures that govern the management of capital. The capital risk policy is reviewed annually by the Risk & Conduct Review Committee and any changes are approved by the Board of Directors. Our Corporate Treasury and Risk Management functions are responsible for the development and implementation of the capital risk policy.

The Company's capital base consists mainly of common shareholders' equity. Other sources of capital include preferred shareholders' equity, non-controlling interests, participating policyholders' equity and subordinated debt issued by SLF Inc. and Sun Life Assurance. For Canadian regulatory purposes, our capital also includes innovative capital instruments issued by Sun Life Capital Trust and Sun Life Capital Trust II.

The following table summarizes the sources of our capital and our capital position over the past two years. Notes 13, 14, 15 and 21 to our 2019 Annual Consolidated Financial Statements include additional details on our capital.

(\$ millions)	2019	2018
Subordinated debt	3,538	3,039
Innovative capital instruments <sup>(1)</sup>	200	699
Equity		
Preferred shareholders' equity	2,257	2,257
Common shareholders' equity	21,141	21,449
Participating policyholders' equity	1,091	864
Non-controlling interests' equity	19	–
<b>Total equity</b>	<b>24,508</b>	<b>24,570</b>
<b>Total capital</b>	<b>28,246</b>	<b>28,308</b>
<b>Financial leverage ratio<sup>(2)</sup></b>	<b>21.2%</b>	<b>21.2%</b>

(1) Innovative capital instruments are presented net of associated transaction costs and consist of SLEECs, which were issued by Sun Life Capital Trust and Sun Life Capital Trust II. SLEECs qualify as capital for Canadian regulatory purposes. However, under IFRS they are reported as Senior debentures in our Annual and Interim Consolidated Financial Statements.

(2) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

Our total capital consists of subordinated debt and other capital instruments, participating policyholders' equity, non-controlling interests and total shareholders' equity, which includes common shareholders' equity and preferred shareholders' equity.

Common shareholders' equity was \$21.1 billion as at December 31, 2019, compared with \$21.4 billion as at December 31, 2018. The decrease of \$0.3 billion was primarily due to common share dividend payments, the impact related to the BGO acquisition<sup>(1)</sup>, shares repurchased and cancelled, and other comprehensive loss, largely offset by common shareholders' net income.

(1) For additional information, refer to Note 3 in our 2019 Annual Consolidated Financial Statements.

The table below provides the earliest par call and maturity dates for our subordinated debt, innovative capital instruments and preferred shares outstanding as at December 31, 2019.

Description	Interest Rate	Earliest Par Call Date/Redemption Date <sup>(1)</sup>	Maturity	Principal/Face Amount (\$ millions)
<b>Subordinated Debt Issued by Sun Life Assurance</b>				
6.30% Debentures, Series 2	6.30%	n/a	2028	150
<b>Subordinated Debt Issued by SLF Inc.</b>				
Series 2007-1	5.40%	May 29, 2037	2042	400
Series 2015-1	2.60%	September 25, 2020	2025	500
Series 2016-1	3.10%	February 19, 2021	2026	350
Series 2016-2	3.05%	September 19, 2023	2028	1,000
Series 2017-1	2.75%	November 23, 2022	2027	400
Series 2019-1	2.38%	August 13, 2024	2029	750
<b>Trust Units Issued by Sun Life Capital Trust</b>				
SLEECs - Series B	7.09%	June 30, 2032	Perpetual	200
<b>Class A Preferred Shares Issued by SLF Inc.</b>				
Series 1	4.75%	Any time	Perpetual	400
Series 2	4.80%	Any time	Perpetual	325
Series 3	4.45%	Any time	Perpetual	250
Series 4	4.45%	Any time	Perpetual	300
Series 5	4.50%	Any time	Perpetual	250
Series 8R <sup>(2)</sup>	2.275%	June 30, 2020	Perpetual	130
Series 9QR <sup>(3)</sup>	Floating	June 30, 2020 <sup>(5)</sup>	Perpetual	150
Series 10R <sup>(2)</sup>	2.842%	September 30, 2021	Perpetual	173
Series 11QR <sup>(4)</sup>	Floating	September 30, 2021 <sup>(5)</sup>	Perpetual	27
Series 12R <sup>(2)</sup>	3.806%	December 31, 2021	Perpetual	300

(1) The earliest date on which the Company has the option, but not the obligation, to call securities for redemption at their par value.

(2) On the earliest redemption date and every five years thereafter, the dividend rate will reset to an annual rate equal to the 5-year Government of Canada bond yield plus a spread specified for each series. The specified spread for Class A shares is: Series 8R - 1.41%, Series 10R - 2.17% and Series 12R - 2.73%. On the earliest redemption date and every five years thereafter, holders will have the right, at their option, to convert their shares into the series that is one number higher than their existing series.

(3) Holders of Series 9QR Shares will be entitled to receive quarterly floating rate non-cumulative dividends at an annual rate equal to the then 3-month Government of Canada treasury bill yield plus 1.41%. Holders of the Series 9QR Shares will have the right, at their option, to convert their Series 9QR Shares into Series 8R Shares on June 30, 2020, and on June 30 every five years thereafter.

(4) Holders of Series 11QR Shares will be entitled to receive quarterly floating rate non-cumulative dividends at an annual rate equal to the then 3-month Government of Canada treasury bill yield plus 2.17%. Holders of the Series 11QR Shares will have the right, at their option, to convert their Series 11QR Shares into Series 10R Shares on September 30, 2021, and on September 30 every five years thereafter.

(5) Redeemable on the redemption date and every five years thereafter, in whole or in part, at par, and on any other date at \$25.50 per share.

The following table shows the number of common shares and stock options outstanding of SLF Inc. for the last two years.

#### Number of Common Shares Outstanding

(in millions)	2019	2018
Balance, beginning of year	598.5	610.5
Stock options exercised	0.8	0.4
Common shares repurchased and cancelled	(11.5)	(12.5)
Shares issued as consideration for business acquisition	–	0.1
Balance, end of year	587.8	598.5

#### Number of Stock Options Outstanding

(in millions)	2019	2018
Balance, beginning of year	3.1	3.0
Options issued	0.8	0.5
Options exercised, forfeited or expired	(0.8)	(0.4)
Balance, end of year	3.1	3.1

Under our DRIP, Canadian-resident common and preferred shareholders may choose to have their dividends automatically reinvested in common shares of SLF Inc. and may also purchase common shares through our DRIP with cash. For dividend reinvestments, we may, at our option, issue common shares of SLF Inc. from treasury at a discount of up to 5% to the volume-weighted average trading price or direct that common shares be purchased on behalf of participants on the open market through the TSX and alternative Canadian trading platforms (collectively, the “Exchanges”) at the market price. Common shares of SLF Inc. acquired by participants through optional cash purchases may also be issued from treasury or purchased through the Exchanges at SLF Inc.’s option, in either case at no discount. Commencing with the



dividends payable on March 31, 2016 and until further notice, common shares purchased under the Plan were purchased on the open market. There are no applicable discounts because the common shares are being purchased on the open market and are not being issued from treasury.

SLF Inc. grants stock options to certain employees. These options are granted at the closing price of SLF Inc.'s common shares on the TSX on the grant date.

As at January 31, 2020, SLF Inc. had 587,902,789 common shares, 3,014,865 options to acquire SLF Inc. common shares and 92,200,000 Class A Shares outstanding.

## 2. Capital Adequacy

OSFI has indicated that it will review the effectiveness of the LICAT guideline and update it to keep abreast of development in the life insurance industry and evolving risk measurement and management practices.

### SLF Inc.

SLF Inc. is a non-operating insurance company and was subject to OSFI's LICAT guideline as at December 31, 2019. In accordance with this guideline, SLF Inc. manages its capital in a manner commensurate with its risk profile and control environment, and SLF Inc.'s regulated subsidiaries comply with the capital adequacy requirements imposed in the jurisdictions in which they operate. SLF Inc.'s consolidated capital position is above its internal target. As at December 31, 2019, SLF Inc.'s LICAT ratio was 143%. For additional information, refer to section F - Financial Strength in this document.

### Sun Life Assurance

Sun Life Assurance, SLF Inc.'s principal operating life insurance subsidiary in Canada, was subject to OSFI's LICAT guideline as at December 31, 2019. With a LICAT ratio of 130% as at December 31, 2019, Sun Life Assurance's capital ratio is well above OSFI's supervisory ratio of 100% and regulatory minimum ratio of 90%. The LICAT guideline uses a risk-based approach for measuring specific life insurer risks and for aggregating the results to calculate the amount of a life insurer's regulatory required capital to support these risks. Certain of these risk components, along with available capital, are sensitive to changes in equity markets and interest rates as outlined in the section J - Risk Management of this document. For additional information, refer to section F - Financial Strength in this document.

The following table shows the components of Sun Life Assurance's LICAT ratio for 2019 and 2018.

### Sun Life Assurance LICAT Ratio

(\$ millions)	2019	2018
<b>Capital resources</b>		
Retained earnings and contributed surplus	13,731	13,338
Adjusted accumulated other comprehensive income	1,226	1,405
Common and preferred shares	5,945	5,945
Innovative capital instruments and subordinated debt	350	849
Other	45	59
Less:		
Goodwill	2,433	2,552
Non-life investments and other	2,348	2,791
Available capital	16,516	16,253
Surplus allowance and eligible deposits	9,359	8,799
<b>Total Capital resources</b>	<b>25,875</b>	<b>25,052</b>
<b>Capital requirements</b>		
Credit, market and insurance risks	20,223	19,887
Less: Diversification and other credits	4,010	4,292
Segregated fund guarantee risk	906	983
Operational risk	1,785	1,646
Total before scalar	18,904	18,224
<b>Base solvency buffer (Total before scalar x 1.05)</b>	<b>19,849</b>	<b>19,136</b>
<b>LICAT ratio</b>	<b>130%</b>	<b>131%</b>

### Foreign Life Insurance Companies

Foreign subsidiaries and foreign operations of SLF Inc. must comply with local capital or solvency requirements in the jurisdictions in which they operate. Our operations maintained capital levels above the minimum local regulatory requirements during 2019 and 2018. Additional information on capital and regulatory requirements for our foreign subsidiaries and foreign operations is provided in SLF Inc.'s AIF under the heading Regulatory Matters.

In the U.S., as at December 31, 2019, we have two internal reinsurance arrangements with affiliated reinsurance companies, in Delaware and Vermont, relating to our closed block of individual universal life insurance products with no-lapse guarantee benefits issued in the U.S. The Delaware reinsurance structure was established in 2013 and finances excess U.S. statutory reserves for certain universal life policies issued between January 2000 and February 2006. The financing of U.S. statutory reserve requirements in excess of those required under IFRS for the

Delaware reinsurance company is supported by a guarantee from SLF Inc. The Vermont reinsurance structure was established in 2007 for certain policies issued between March 2006 and December 2008. Under the Vermont reinsurance structure, the related excess U.S. statutory reserve requirements are funded through a long-term financing arrangement established with an unrelated financial institution.

### 3. Shareholder Dividends

The declaration, amount and payment of dividends by SLF Inc. is subject to the approval of our Board of Directors and is dependent on our results of operations, our reported net income, financial condition, cash requirements and contractual restrictions. Capital management activities, as well as regulatory considerations and macro-economic factors including the economic outlook for the jurisdictions in which we do business, are also considered along with other factors. The Board of Directors reviews the level of dividends on a quarterly basis.

A regular and appropriate level of dividend payout and growth provides a stable source of return to common shareholders.

We target a dividend payout ratio of between 40% and 50% based on underlying net income, except where circumstances and the factors noted above would suggest a different ratio.

During 2019, our dividend payout ratio to common shareholders based on our reported net income was 48% and on an underlying net income basis was 41%.

SLF Inc. increased its common shareholders' dividend for the fourth quarter of 2019 to \$0.550. Total common shareholder dividends declared in 2019 were \$2.100 per share, compared to \$1.905 in 2018.

#### Dividends declared

Amount per share	2019	2018	2017
Common shares	<b>2.100</b>	1.905	1.745
Class A preferred shares			
Series 1	<b>1.187500</b>	1.187500	1.187500
Series 2	<b>1.200000</b>	1.200000	1.200000
Series 3	<b>1.112500</b>	1.112500	1.112500
Series 4	<b>1.112500</b>	1.112500	1.112500
Series 5	<b>1.125000</b>	1.125000	1.125000
Series 8R <sup>(1)(2)</sup>	<b>0.568800</b>	0.568800	0.568800
Series 9QR <sup>(3)</sup>	<b>0.772500</b>	0.656200	0.493900
Series 10R <sup>(1)(4)</sup>	<b>0.710500</b>	0.710500	0.710500
Series 11QR <sup>(5)</sup>	<b>0.962500</b>	0.846200	0.683900
Series 12R <sup>(1)(6)</sup>	<b>0.951500</b>	0.951500	0.951500

(1) On the redemption date and every five years thereafter, the dividend rate will reset to an annual rate equal to the 5-year Government of Canada bond yield plus a yield specified for each series. The specified yield for Class A shares is: Series 8R - 1.41%, Series 10R - 2.17% and Series 12R - 2.73%. On the earliest redemption date and every five years thereafter, holders will have the right, at their option, to convert their shares into the series that is one number higher than their existing series.

(2) The dividend rate was reset on June 30, 2015 to a fixed annual dividend rate of 2.275% until the redemption date June 30, 2020.

(3) Holders of the Series 9QR Shares are entitled to receive quarterly floating rate non-cumulative dividends at an annual rate equal to the then 3-month Government of Canada treasury bill yield plus 1.41%. Holders of the Series 9QR Shares will have the right, at their option, to convert their Series 9QR Shares into Series 8R Shares on June 30, 2020 and on June 30 every five years thereafter.

(4) The dividend rate was reset on September 30, 2016 to a fixed annual dividend rate of 2.842% until the redemption date September 30, 2021.

(5) Holders of the Series 11QR Shares are entitled to receive quarterly floating rate non-cumulative dividends at an annual rate equal to the then 3-month Government of Canada treasury bill yield plus 2.17%. Holders of the Series 11QR Shares will have the right, at their option, to convert their Series 11QR Shares into Series 10R Shares on September 30, 2021 and on September 30 every five years thereafter.

(6) The dividend rate was reset on December 31, 2016 to a fixed annual dividend rate of 3.806% until the redemption date December 31, 2021.

### 4. Principal Sources and Uses of Funds

Our primary source of funds is cash provided by operating activities, including premiums, investment management fees and net investment income. These funds are used primarily to pay policy benefits, dividends to policyholders, claims, commissions, operating expenses, interest expenses and shareholder dividends. Excess cash flows generated from operating activities are generally invested to support future payment requirements. We also raise funds from time to time, through borrowing and issuing of securities, to finance growth, acquisitions or other needs.

As at December 31, 2019, we maintained net cash, cash equivalents and short-term securities totaling \$9.5 billion. In addition to providing for near-term funding commitments, cash, cash equivalents and short-term securities include amounts that support short-term payment obligations.

Net cash, cash equivalents and short-term securities increased by \$143 million in 2019. The table below outlines our principal sources and uses of cash.

(\$ millions)	2019	2018
Net cash provided by operating activities	2,547	3,834
Net cash provided by (used in) investing activities	(430)	(280)
Net cash provided by (used in) financing activities	(2,436)	(2,566)
Changes due to fluctuations in exchange rates	(190)	250
<b>Increase (decrease) in cash and cash equivalents</b>	<b>(509)</b>	<b>1,238</b>
Net cash and cash equivalents, beginning of year	7,194	5,956
Net cash and cash equivalents, end of year	6,685	7,194
Short-term securities, end of year	2,860	2,208
<b>Net cash, cash equivalents and short-term securities, end of year</b>	<b>9,545</b>	<b>9,402</b>

## 5. Liquidity

We generally maintain an overall asset liquidity profile that exceeds requirements to fund insurance contract liabilities under prescribed adverse liability demand scenarios. To strengthen our liquidity further, we actively manage and monitor our:

- Capital levels
- Asset levels
- Matching position
- Diversification and credit quality of investments
- Cash forecasts and actual amounts against established targets

We are subject to various regulations in the jurisdictions in which we operate. The ability of SLF Inc.'s subsidiaries to pay dividends and transfer funds is regulated in certain jurisdictions and may require local regulatory approvals and the satisfaction of specific conditions in certain circumstances. Through effective cash management and capital planning, SLF Inc. ensures that its subsidiaries, as a whole and on a stand-alone basis, are properly funded and maintain adequate liquidity to meet obligations, both individually and in aggregate.

SLF Inc. and its wholly-owned holding companies had \$2.3 billion in cash and other liquid assets as at December 31, 2019. See section F - Financial Strength for more information.

We maintain various credit facilities for general corporate purposes, as set out in the table below. Unless otherwise noted, all amounts are in Canadian dollars.

(\$ millions)	December 31, 2019			December 31, 2018		
	Amount	Utilized	Expiry	Amount	Utilized	Expiry
<b>Credit Facility</b>						
Committed	US \$400	US \$ 2	2021	US \$400	US \$ 2	2021
Committed	US \$600	US \$ 56	2021			
Uncommitted	US \$100	US \$ 74	n/a	US \$100	US \$ 74	n/a
Uncommitted	\$227	\$ 105	n/a	\$ 225	\$ 110	n/a
Uncommitted	US \$ 25	US \$ 7	n/a	US \$ 25	US \$ 9	n/a

The agreements relating to our committed credit facilities contain typical covenants for investment grade companies regarding solvency, credit ratings and financial strength, all of which were met as at December 31, 2019. These covenants include, but are not limited to, the maintenance of total equity by SLF Inc. of at least \$12 billion, tested as of the last day of each fiscal quarter. SLF Inc.'s total equity was \$24.5 billion as at December 31, 2019.

Our failure to comply with the covenants under the committed credit facility would, subject to grace periods in the case of certain covenants, result in an event of default. This could require us to repay any outstanding borrowings or to cash collateralize letters of credit under the facility. A failure by SLF Inc. (or any of its subsidiaries) to pay an obligation due for an amount exceeding \$250 million would also result in an event of default under the committed credit facility described above.

Based on our historical cash flows and liquidity management processes, we believe that the cash flows from our operating activities will continue to provide sufficient liquidity for us to satisfy debt service obligations and to pay other expenses as they fall due.

## J. Risk Management

### 1. Risk Management Framework

The Company has an established Risk Management Framework (“Risk Framework”) approved by the Board that prescribes a comprehensive set of protocols and programs that need to be followed in conducting business activities. The risks that arise when providing products and services to Clients, which are in line with our Purpose to help our Clients achieve lifetime financial security and live healthier lives, are managed within these protocols and programs. Effective risk management is critical to the overall profitability, competitive market positioning and long-term financial viability of the Company. While we can’t necessarily eliminate all risk, the Risk Framework seeks to ensure that risks to a business undertaking are appropriately managed to achieve the Company’s business objectives over time and are not expected to exceed pre-established boundaries for risk taking. The Risk Framework, corporate strategy and business objectives are all aligned and risk management protocols and programs are embedded within every business segment.



## 2. Risk Governance

Our Risk Framework sets out lines of responsibility and authority for risk-taking, governance and control. These governance requirements are summarized below.



### Board of Directors

The Board is responsible for ensuring the governance of all risks across the enterprise and has primary responsibility for taking action to ensure risk management policies, programs and practices are in place. By approving our Risk Framework and the Risk Appetite Policy and providing ongoing oversight of the risk management programs, the Board monitors that significant risks are appropriately identified and managed. The Board oversees business and strategic risk through review and approval of the business and strategic plans, and regularly discusses key themes, issues and risks emerging in connection with the design or implementation of these plans. The Board also monitors risk management activities of our subsidiaries and risks posed to the Company through its joint venture arrangements.

The Risk & Conduct Review Committee is a standing committee of the Board whose primary functions are to assist the Board with oversight of the management of current and emerging risks enterprise-wide, to ensure that management has policies in place, processes and controls designed to identify and effectively manage the significant risks to which the Company is exposed and has sufficient capital to underpin those risks. The Committee regularly monitors the Company's risk profile to ensure it is within the agreed risk appetite and that the Company's capital position is in compliance with regulatory capital requirements, and monitors and recommends to the Board for approval, the specific risk limits allocated to the businesses and the annual Capital Plan. The Risk & Conduct Review Committee meets with senior business and functional leaders who have first-hand knowledge of risks and the risk management programs, oversees the effectiveness of the risk management function, and obtains reports from Internal Audit on the effectiveness of risk controls within the business and risk function. It reviews and approves all risk management policies and reviews compliance with those policies. In addition, where the Board has allocated oversight of specific risk management programs to other committees of the Board ("Board Committees"), the Risk & Conduct Review Committee is tasked with providing the Board with an integrated view of oversight of all risk management programs across all Board committees. The committee also oversees compliance with legal and regulatory requirements and the identification and management of compliance risk.

The Governance, Nomination & Investment Committee of the Board is responsible for assisting the Board in: reviewing and monitoring the Company's Investment Plan and investment performance; overseeing investment practices, procedures and controls related to the management of the general fund investment portfolio and the Company's asset management businesses; and reviewing and approving transactions, either separately or jointly with the Risk & Conduct Review Committee, where the acquisition of individual investments for the General Account would, on their own, exceed certain limits or ranges in the Investment and Credit Risk Management Policy. In addition, the Committee is also responsible for developing effective corporate governance guidelines and processes including policies and processes to sustain ethical behaviour, and developing processes to assess the effectiveness of the Board and its Committees.

The Audit Committee of the Board is responsible for assisting the Board in overseeing the integrity of financial statements and related information provided to shareholders and others, compliance with financial regulatory requirements, adequacy and effectiveness of the internal controls implemented and maintained by management, and assessing the qualifications, independence and performance of the external auditor.

The Management Resources Committee of the Board is responsible for assisting the Board in ensuring we have the leadership resources for succession of senior executive positions and programs to effectively attract, retain, develop and reward executives for achieving our strategic

objectives. The Management Resources Committee reviews the design, approval and governance of material incentive programs to align business objectives and to ensure that these incentive programs do not encourage excessive risk taking, and reviews the implications of key enterprise risks, including human resources risks, on compensation design and human resources practices. In addition, the Management Resources Committee reviews and makes recommendations to the Board with respect to compensation matters, including the remuneration of executives who have a material impact on the risk exposure of the Company.

### Senior Management Committees

The Executive Risk Committee (“ERC”) provides executive management oversight of the Company’s enterprise risk management activities. This includes the review and articulation of the risk appetite, review that the risk profile is within the agreed risk appetite and policies, processes and controls are in place to identify and effectively manage the significant risks in accordance with the risk appetite and the overall objective of promoting a balanced business and product model to achieve agreed upon risk-adjusted returns and allocate capital accordingly.

The Investment & Credit Risk Committee is responsible for reviewing matters related to the management of the Company’s general fund assets which includes providing oversight and direction on the current and potential credit and investment risk exposures facing the Company and mitigating strategies to ensure that effective credit risk management practices and controls are in place.

The Corporate Asset Liability Management Committee is responsible for providing executive oversight and direction for the effective measurement, control and management of the market and liquidity risks in the design and operation of general fund investment strategies for efficiently discharging the Company’s general fund liabilities.

The Operational Risk & Compliance Committee is responsible for providing oversight of the Company’s operational and compliance risk management practices, current and emerging operational risk exposures, and the processes to ensure ongoing identification of significant operational and compliance risks facing the Company.

The Insurance Risk Committee is responsible for providing oversight and direction on insurance risk exposures facing the Company and to ensure that effective insurance risk management practices and controls are in place. This includes reviewing the current and projected insurance risk profile against limits; engaging in review of topical insurance, reinsurance and underwriting risk issues; and reviewing and recommending changes to the insurance risk measurement methodology to the ERC.

### Accountabilities

Primary accountability for risk management is delegated by the Board to our Chief Executive Officer (“CEO”), and the CEO further delegates responsibilities throughout the Company through management authorities and responsibilities. The CEO delegates accountability for risk management to our executive officers, who are accountable for ensuring the management of risks in the scope of their business accountability is in accordance with the Board-approved Risk Framework, Risk Appetite Policy and risk management policies.

## 3. Risk Universe

As a large financial services organization operating in a complex industry, the Company encounters a variety of risks. We are subject to financial and insurance risks that are connected to our liabilities and with the management and performance of our assets, including how we match returns from assets with the payment of liabilities to our Clients. We also face risks in formulating our business strategy and business objectives, in carrying on our business activities in the pursuit of our strategy and objectives, and from external factors such as changes in the economic, political, competitive, regulatory and environmental landscapes. The Risk Framework covers all risks and these have been grouped into six major categories: credit, market, insurance, business and strategic, operational and liquidity risks. The Risk Framework sets out the key risk management processes in the areas of risk: appetite, identification, measurement, management, monitoring and reporting. The Risk Framework sets out both qualitative and quantitative measures and processes to control the risk the Company will bear in respect of each of these categories of risk and in aggregate.

## 4. Risk Appetite

Our Risk Appetite Policy defines the amount and type of risk we are willing to accept in pursuit of our business objectives, and is approved by the Board. It is forward-looking and our strategic plan, capital plan, business plan and business objectives are established within its boundaries.

The Company’s risk appetite seeks to balance the various needs, expectations, risk and reward perspectives and investment horizons of key stakeholders. In particular, our risk appetite supports the pursuit of shareholder value while ensuring that the Company’s ability to pay claims and fulfill policyholder commitments is not compromised.

The Company’s risk appetite is the primary mechanism to communicate its risk philosophy and the boundaries of permissible risk-taking across the enterprise. It ensures that business activities are assessed against performance criteria that are appropriately risk-adjusted. Our risk appetite supports the objective of maintaining adequate capital, managing return on equity, managing earnings volatility, managing long-term profitability and managing liquidity. To accomplish this, our risk appetite includes a wide array of qualitative and quantitative standards that reflect the Company’s overall risk management principles and values.

We generally accept diversifiable risks and utilize risk pooling to create portfolios with relatively low liability volatility. We take risk where we have internal expertise such as actuarial, underwriting, claims management, investment or distribution or where reinsurance partners are able to supplement our internal expertise. We prefer risks where it is possible to diversify across various segments including products, geographies, distribution channels or asset classes in order to maximize diversification opportunities.

Our Risk Appetite Policy sets out specific constraints which define the aggregate level of risk that the Company is willing to accept. We translate our risk appetite constraints into specific risk limits by risk class and business segment. Our risk profile is measured, managed and monitored regularly to ensure that we operate within our risk appetite. Our risk appetite limits are reviewed periodically to reflect the risks and opportunities inherent in our evolving business strategies and operating environment.

## 5. Risk Management Policies

In order to support the effective communication, implementation and governance of our Risk Framework, we have codified our processes and operational requirements in a comprehensive series of risk management policies and operating guidelines. These policies and guidelines promote the application of a consistent approach to managing risk exposures across our global business platform. The Board and Board Committees regularly review and approve significant changes to the risk management policies and regularly review management's reporting and attestation on compliance to these policies.

## 6. Risk Management Process

The risk management process as set out in our Risk Framework is described below:

### Risk Identification and Measurement

All business segments employ a common approach to identify and measure risks. Business segments have accountability for identifying and managing risks facing their business. We have a process to identify and monitor emerging risks that may have a material impact on our finances, operations or reputation. We evaluate potential correlations between various risk events and categories, and monitor emerging risks, regulatory and rating agency requirements, and industry developments.

Risk measurement involves determining and evaluating potential risk exposures, and includes a number of techniques such as monitoring key risk indicators, assessing probability and severity of risks, and conducting stress testing.

A robust stress testing program is an essential component of the Company's Risk Framework used to measure, monitor and mitigate the Company's risk exposures and to ensure ongoing capital adequacy under plausible stress events. Stress testing is performed on key metrics such as earnings, regulatory capital ratios and liquidity to identify and monitor potential vulnerabilities to key risk drivers and ensure that the Company is operating within its risk appetite.

We develop and test a range of scenarios based on our internal assessment and regulatory guidance. Sensitivity testing is conducted on a regular basis and measures the earnings and regulatory capital impact from changes in underlying risk factors. Sensitivity testing is performed for individual risks and for consolidated risk exposures at different levels of stress and at various levels of aggregation. Scenario testing involves changes to a number of risk factors to assess the impact of and interaction between these risk factors. These scenarios include integrated scenario testing, reverse scenario testing and key assumption sensitivity testing. We also use the Dynamic Capital Adequacy Testing ("DCAT") process, as required by our regulator, to project income and capital for a five-year period under plausible adverse scenarios. In 2020 the Canadian Institute of Actuaries will replace DCAT with Financial Condition Testing ("FCT"). FCT, similar to DCAT, will continue to act as a stress testing technique for the organization. FCT's testing is broader than DCAT and allows for harmonization with the Company's Own Risk Solvency Assessment ("ORSA").

### Risk Management, Monitoring and Reporting

Risk management decisions are formed by evaluating how well the outcomes of the risk measurements and risk assessments for a business activity conform to our risk appetite, including an assessment of risk-adjusted return.

Monitoring processes include oversight by the Board, which is exercised through Board Committees and senior management committees described in the Risk Governance section of this MD&A.

Senior management committees, Board Committees and the Board regularly review reports that summarize our risk profile, including the exposures across our principal risks including any changes in risk trends and emerging risks. These committees also review the effectiveness of the mitigation strategies presented in the reports. On a regular basis, the Board and the Board Committees review and approve any significant changes to key policies for the management of risk and review compliance with these policies.

## 7. Three Lines of Defence

The Company has adopted the Three Lines of Defence ("LOD") model to provide a consistent, transparent and clearly documented allocation of accountability and segregation of functional responsibilities. This segregation of responsibility helps to establish a robust control framework that promotes transparent and independent challenge of all risk taking activities, and that encourages all functions to engage in self-critical examination to foster continuous improvement of the management of risk in our business.

The **first line of defence** is represented by the business segment management who own the risks that are intrinsic to the business and have the primary responsibility to identify, measure, manage, monitor and report these risks. Some of the first LOD risk related responsibilities include:

- Identification of key and emerging risks;
- Management, mitigation and reporting on risk within their business operations;
- Accountability for business results and the risks taken to achieve those results; and
- Operating within risk appetite and according to risk management policies.

The **second line of defence** includes the Chief Risk Officer ("CRO") and various functional heads who are responsible for providing independent oversight of our Company-wide risk management programs. The CRO is responsible for developing our Risk Framework and Risk Appetite Policy, and for overseeing the development and implementation of risk management strategies aimed at optimizing the risk-return profile of the Company. The CRO is supported by a network of business segment risk officers. The functional heads support the CRO in the implementation and communication of our Risk Framework and Risk Appetite Policy. Some of the key second LOD risk related responsibilities include:

- Establishment of the risk management framework and policies;
- Providing oversight and challenge of first line current and emerging risks; and
- Independent reporting to senior management committees and the Board on the risk profile as measured against stated risk appetite.

The **third line of defence** responsibilities are distinct from first and second LOD responsibilities. The Internal Audit function is the third LOD and is responsible for providing independent assurance to management, the Risk & Conduct Review Committee and OSFI on the design and operational effectiveness of the risk management practices carried out by first LOD and second LOD. Internal Audit provides a quarterly opinion on the effectiveness of internal controls, risk management and governance processes to the Risk & Conduct Review Committee. In addition, the Risk & Conduct Review Committee may engage third-party independent reviews to supplement the third LOD review of the effectiveness of the Company's risk management programs.

## 8. Risk Culture and Philosophy

We have built a strong corporate culture on a foundation of ethical behaviour, high business standards, integrity and respect. The Board establishes the “tone from the top” and is accountable to ensure that the CEO and senior management create and sustain a culture of integrity throughout the organization. We work together through our focus on diversity, inclusion and sustainability to fulfill our purpose of helping our Clients to achieve lifetime financial security and to live healthier lives.

Risk culture relates to how we behave and respond, in addition to the requirements we set. It enables and rewards taking the right risks in an informed manner. It enables effective challenge and transparency regarding risks and outcomes without fear of reprisal. It drives us to understand Client needs and preferences so that we can act in their best interests. In order to support employees in fulfilling their role, we have taken action to ensure our risk protocols and procedures are well defined and embedded in our day-to-day business activities, assess that appropriate resources and training are provided, establish and communicate a common risk philosophy and a high bar for integrity and conduct, and encourage every employee to openly identify risk exposures and communicate escalating risk concerns. The following six elements support our Risk Culture:

- Establishing tone from the top;
- Encouraging transparency in risk-taking;
- Performing effective challenge in conducting business decisions;
- Aligning incentives and risk management practices;
- Effectively communicating the risk culture expectations; and
- Establishing clear accountabilities.

A key premise of our culture is that all employees have an important role to play in managing the Company's risks. Risk Management is embedded in the Company's culture, which encourages ownership and responsibility for risk management at all levels. Our compensation programs are aligned to the organization's risk management practices through our governance structure for the design and approval of incentive compensation plans and processes used to support the alignment of compensation and risk management. We continuously reinforce and embed the culture through communication and training on risk culture elements at various forums and across various levels through training on the Code of Conduct annually, reinforcing accountability through performance reviews and compensation, and through defining roles, responsibilities and expectations in the risk management policies.

The Company's risk philosophy includes the following core principles:

### Strategic Alignment

Our corporate strategy and business objectives are required to be established within the boundaries set out in the Risk Framework and the Risk Appetite Policy. This requires us to consider whether a business activity will result in a risk profile that we are willing to accept and which we are prepared to manage. We have established a range of explicit risk appetite limits and control points for credit, market, insurance, operational and liquidity risks. Business and strategic risk is managed through our strategic and business planning process and through controls over the implementation of these strategic and business plans. Risks associated with activities outside our risk appetite or outside the acceptable defined risks are avoided.

### Stakeholder Interests

Our Risk Appetite Policy considers the interests of a large number of key stakeholders, including Clients, policyholders, shareholders, debt-holders, employees, regulators, distributors, rating agencies and other capital markets participants. The policy describes how to balance the needs, expectations, risk and reward perspectives, and investment horizons of these different stakeholders.

Effective risk management requires that objectives and incentives be aligned to ensure management's decisions are consistent with the Company's risk philosophy and risk appetite. To ensure this, the business plans and strategies are independently tested to ensure that they operate within the boundaries and requirements set out in the Risk Framework and the Risk Appetite Policy, and the results of this testing are reported to the Board. Compensation programs for employees are approved by the Board and the Board Committees and are aligned with the Company's risk philosophy, values, business and risk management strategies, and the long-term interests of stakeholders. In establishing annual performance objectives, we consider risk management goals to ensure that business decisions are consistent with the desired risk and return profile of the Company.

### Capability Alignment

We seek out profitable risk-taking opportunities in those areas where we have established risk management skills and capabilities. Conversely, we endeavour to avoid or transfer risks that are beyond our risk-taking capability. Our ability to measure and evaluate risks, the quality of our risk governance and control environment, the depth and quality of our risk responses and the robustness of our pricing strategies are particularly important capabilities that we assess.

### Portfolio Perspective

In evaluating a particular risk, consideration is given to a portfolio perspective of risk and return including the explicit recognition of the impacts of diversification and concentration and how different risks interact with each other. This perspective is extended to the development of risk mitigation and pricing strategies, recognizing that often the most cost-effective way of managing risk involves utilizing available relationships already inherent in our business.

## Risk-Adjusted Returns

The financial return metrics which are used to assess business activities are required to be risk-adjusted. Financial return metrics are developed in consideration of the constraints set out in the Risk Appetite Policy, and reflect the expected costs of mitigation and the cost of risk capital required to support the risk taking activity.

## Company Culture

Our Company Culture is the sum of the shared assumptions, values and beliefs that create the unique character of an organization. Our company culture provides a framework that encourages behaviour aligned with goals for long-term value creation. It defines the appropriate behaviour for any given situation, governs the interaction with Clients and affects how employees identify with the organization. Our company culture has significant potential to impact our risk profile. An organization's culture impacts its ability to create value and to protect value. Maintaining the right balance of risk-taking and risk control activities is a key organizational capability and fundamental to Sun Life's long-term sustainable success.

## 9. Risk Categories

The shaded text and tables in the following section of this MD&A represent our disclosure on credit, market and liquidity risks in accordance with IFRS 7 *Financial Instruments - Disclosures* and includes a discussion on how we measure risk and our objectives, policies and methodologies for managing these risks. The shaded text and tables represent an integral part of our audited annual Consolidated Financial Statements for the year ended December 31, 2019. The shading in this section does not imply that these disclosures are of any greater importance than non-shaded tables and text, and the Risk Management disclosure should be read in its entirety. This information should be considered carefully together with other information in this MD&A and in the 2019 AIF, our Consolidated Financial Statements and other reports and materials that we file with securities regulators.

In this section, segregated funds include segregated fund guarantees, variable annuities and investment products, and includes Run-off reinsurance in Corporate.

Our Risk Framework has grouped all risks into six major risk categories: market, insurance, credit, business and strategic, operational and liquidity risks.

### i. Market Risk

#### Risk Description

We are exposed to financial and capital market risk, which is defined as the risk that the fair value or future cash flows of an insurance contract or financial instrument will fluctuate because of changes or volatility in market prices. Market risk includes equity, interest rate and spread, real estate and foreign currency risks.

#### Market Risk Management Governance and Control

We employ a wide range of market risk management practices and controls as outlined below:

- Market risk governance practices are in place, including independent monitoring and review and reporting to senior management and the Risk & Conduct Review Committee.
- Risk appetite limits have been established for equity, interest rate, real estate and foreign currency risks.
- Income and regulatory capital sensitivities are monitored, managed and reported against pre-established risk limits.
- Comprehensive asset-liability management and hedging policies, programs and practices are in place.
- Regulatory solvency requirements include risk-based capital requirements and are monitored regularly.
- Product Design and Pricing Policy requires a detailed risk assessment and pricing provisions for material risks.
- Stress-testing techniques, such as DCAT, are used to measure the effects of large and sustained adverse market movements.
- Insurance contract liabilities are established in accordance with Canadian actuarial standards of practice.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.

Specific market risks and our risk management strategies are discussed below in further detail.

#### Equity Risk

Equity risk is the potential for financial loss arising from declines or volatility in equity market prices. We are exposed to equity risk from a number of sources. A portion of our exposure to equity risk arises in connection with benefit guarantees on segregated fund contracts and variable annuities. These benefit guarantees may be triggered upon death, maturity, withdrawal or annuitization. The cost of providing for these guarantees is uncertain and will depend upon a number of factors, including general capital market conditions, underlying fund performance, policyholder behaviour and mortality experience, which may result in negative impacts on our net income and capital.

We generate revenue in our asset management businesses and from certain insurance and annuity contracts where fees are levied on account balances that are affected directly by equity market levels. Accordingly, we have further exposure to equity risk as adverse fluctuations in the market value of such assets will result in corresponding adverse impacts on our revenue and net income. In addition, declining and volatile equity markets may have a negative impact on sales and redemptions (surrenders) in these businesses, and this may result in further adverse impacts on our net income and financial position.

We also have direct exposure to equity markets from the investments supporting other general account liabilities, surplus, and employee benefit plans. These exposures fall within our risk-taking philosophy and appetite, and are therefore generally not hedged.

## Interest Rate and Spread Risk

Interest rate and spread risk is the potential for financial loss arising from changes or volatility in interest rates or spreads when asset cash flows and the policy obligations they support are not matched. This may result in the need to either sell assets to meet policy payments and expenses or reinvest excess asset cash flows in unfavourable interest rate or spread environments. The impact of changes or volatility in interest rates or spreads is reflected in the valuation of our financial assets and liabilities for insurance contracts.

Our primary exposure to interest rate and spread risk arises from certain general account products and segregated fund contracts which contain investment guarantees in the form of minimum crediting rates, guaranteed premium rates, settlement options and benefit guarantees. If investment returns fall below guaranteed levels, we may be required to increase liabilities or capital in respect of these contracts. The guarantees attached to these products may be applicable to both past premiums collected and future premiums not yet received. Segregated fund contracts provide benefit guarantees that are linked to underlying fund performance and may be triggered upon death, maturity, withdrawal or annuitization. These products are included in our asset-liability management program and the residual interest rate exposure is managed within our risk appetite limits.

Declines in interest rates or narrowing spreads can result in compression of the net spread between interest earned on investments and interest credited to policyholders. Declines in interest rates or narrowing spreads may also result in increased asset calls, mortgage prepayments, and net reinvestment of positive cash flows at lower yields, and therefore adversely impact our profitability and financial position. Negative interest rates may additionally result in losses on our cash deposits and low or negative returns on our fixed income assets impacting our profitability. In contrast, increases in interest rates or a widening of spreads may have a material impact on the value of fixed income assets, resulting in depressed market values, and may lead to lower LICAT ratios or losses in the event of the liquidation of assets prior to maturity.

Significant changes or volatility in interest rates or spreads could have a negative impact on sales of certain insurance and annuity products, and adversely impact the expected pattern of redemptions (surrenders) on existing policies. Increases in interest rates or widening spreads may increase the risk that policyholders will surrender their contracts, potentially forcing us to liquidate assets at a loss and accelerate recognition of certain acquisition expenses. While we have established hedging programs in place and our insurance and annuity products often contain surrender mitigation features, these may not be sufficient to fully offset the adverse impact of the underlying losses.

We also have direct exposure to interest rates and spreads from investments supporting other general account liabilities, surplus and employee benefit plans. Lower interest rates or a narrowing of spreads will result in reduced investment income on new fixed income asset purchases. Conversely, higher interest rates or wider spreads will reduce the value of our existing assets. These exposures fall within our risk-taking philosophy and appetite and are therefore generally not hedged.

A sustained low interest rate environment may adversely impact our earnings, regulatory capital requirements and our ability to implement our business strategy and plans in several ways, including:

- Lower sales of certain insurance and wealth products, which can in turn pressure our operating expense levels;
- Shifts in the expected pattern of redemptions (surrenders) on existing policies;
- Higher new business strain reflecting lower new business profitability;
- Reduced return on new fixed income asset purchases, and higher hedging costs;
- The impact of changes in actuarial assumptions;
- Impairment of goodwill; and
- Additional valuation allowances against our deferred tax assets.

## Market Risk Sensitivities

We utilize a variety of methods and measures to quantify our market risk exposures. These include duration management, key rate duration techniques, convexity measures, cash flow gap analysis, scenario testing, and sensitivity testing of earnings and regulatory capital ratios versus risk appetite limits.

Our net income<sup>(1)</sup> is affected by the determination of policyholder obligations under our annuity and insurance contracts. These amounts are determined using internal valuation models and are recorded in our Annual Consolidated Financial Statements, primarily as Insurance contract liabilities. The determination of these obligations requires management to make assumptions about the future level of equity market performance, interest rates, credit and swap spreads and other factors over the life of our products. Differences between our actual experience and our best estimate assumptions are reflected in our Annual Consolidated Financial Statements. Refer to Additional Cautionary Language and Key Assumptions Related to Sensitivities in this section for important additional information regarding these estimates.

The market value of our investments in fixed income and equity securities fluctuates based on movements in interest rates and equity markets. The market value of fixed income assets designated as AFS that are held primarily in our surplus segment increases with declining interest rates and decreases with rising interest rates. The market value of equities designated as AFS and held primarily in our surplus segment increases with rising equity markets and decreases with declining equity markets. Changes in the market value of AFS assets flow through other comprehensive income ("OCI") and are only recognized in net income when realized upon sale, or when considered impaired. The amount of realized gains (losses) recorded in net income in any period is equal to the unrealized gains (losses) or OCI position at the start of the period plus the change in market value during the current period up to the point of sale for those securities that were sold during the period. The sale or impairment of AFS assets held in surplus can therefore have the effect of modifying our net income sensitivity.

We realized \$64 million (pre-tax) in net gains on the sale of AFS assets during the fourth quarter of 2019 and \$167 million in 2019 (\$25 million pre-tax in the fourth quarter of 2018, and \$121 million in 2018). The net unrealized (losses) gains or OCI position on AFS fixed income and equity assets were \$251 million and \$62 million, respectively, after-tax as at December 31, 2019 (\$98 million and \$43 million, respectively, after-tax as at December 31, 2018).

(1) Net income in section J - Risk Management in this document refers to common shareholders' net income.

## Equity Market Sensitivities

The following table sets out the estimated immediate impact on, or sensitivity of, our net income and OCI and Sun Life Assurance's LICAT ratio to certain instantaneous changes in equity market prices as at December 31, 2019 and December 31, 2018.

As at December 31, 2019 (\$ millions, unless otherwise noted)				
Change in Equity Markets <sup>(1)</sup>	25% decrease	10% decrease	10% increase	25% increase
Potential impact on net income <sup>(2)(3)</sup>	\$ (350)	\$ (150)	\$ 100	\$ 250
Potential impact on OCI <sup>(3)</sup>	\$ (50)	\$ (50)	\$ 50	\$ 50
Potential impact on LICAT <sup>(2)(4)</sup>	0.5% point decrease	0.0% point decrease	0.0% point increase	0.0% point increase

As at December 31, 2018 (\$ millions, unless otherwise noted)				
Change in Equity Markets <sup>(1)</sup>	25% decrease	10% decrease	10% increase	25% increase
Potential impact on net income <sup>(2)(3)</sup>	\$ (300)	\$ (100)	\$ 100	\$ 250
Potential impact on OCI <sup>(3)</sup>	\$ (100)	\$ (50)	\$ 50	\$ 100
Potential impact on LICAT <sup>(2)(4)</sup>	2.0% point decrease	1.0% point decrease	0.5% point increase	1.0% point increase

- (1) Represents the respective change across all equity markets as at December 31, 2019 and December 31, 2018. Assumes that actual equity exposures consistently and precisely track the broader equity markets. Since in actual practice equity-related exposures generally differ from broad market indices (due to the impact of active management, basis risk, and other factors), realized sensitivities may differ significantly from those illustrated above. Sensitivities include the impact of re-balancing equity hedges for dynamic hedging programs at 2% intervals (for 10% changes in equity markets) and at 5% intervals (for 25% changes in equity markets).
- (2) The market risk sensitivities include the estimated mitigation impact of our hedging programs in effect as at December 31, 2019 and December 31, 2018, and include new business added and product changes implemented prior to such dates.
- (3) Net income and OCI sensitivities have been rounded to the nearest \$50 million. The sensitivities exclude the market impacts on the income from our joint ventures and associates, which we account for on an equity basis.
- (4) The LICAT sensitivities illustrate the impact on Sun Life Assurance as at December 31, 2019 and December 31, 2018. LICAT ratios are rounded to the nearest 0.5%.

## Interest Rate Sensitivities

The following table sets out the estimated immediate impact on, or sensitivity of, our net income and OCI and Sun Life Assurance's LICAT ratio to certain instantaneous changes in interest rates as at December 31, 2019 and December 31, 2018.

Sun Life Assurance's LICAT ratio generally decreases with rising interest rates and increases with declining interest rates, which is opposite to our net income sensitivity. Increases to interest rates will reduce the value of our assets and margins in our actuarial liabilities, resulting in a lower LICAT ratio, while decreases to interest rates will increase the value of our assets and margins in our actuarial liabilities. However, our sensitivity to interest rates may be non-linear, and can change, due to the interrelationships between market rates, actuarial assumptions and LICAT calculations. In particular, changes to market conditions can shift the interest rate scenario applied in the LICAT formula causing a discontinuity where capital requirements change materially.

(\$ millions, unless otherwise noted)	As at December 31, 2019		As at December 31, 2018	
	50 basis point decrease	50 basis point increase	50 basis point decrease	50 basis point increase
Change in Interest Rates <sup>(1)</sup>				
Potential impact on net income <sup>(2)(3)(4)</sup>	\$ (150)	\$ 50	\$ (100)	\$ 50
Potential impact on OCI <sup>(3)</sup>	\$ 250	\$ (250)	\$ 250	\$ (250)
Potential impact on LICAT <sup>(2)(5)</sup>	2.0% point increase	3.0% point decrease	2.5% point increase	1.5% point decrease

- (1) Interest rate sensitivities assume a parallel shift in assumed interest rates across the entire yield curve as at December 31, 2019 and December 31, 2018 with no change to the Actuarial Standards Board ("ASB") promulgated Ultimate Reinvestment Rate ("URR"). Variations in realized yields based on factors such as different terms to maturity and geographies may result in realized sensitivities being significantly different from those illustrated above. Sensitivities include the impact of re-balancing interest rate hedges for dynamic hedging programs at 10 basis point intervals (for 50 basis point changes in interest rates).
- (2) The market risk sensitivities include the estimated mitigation impact of our hedging programs in effect as at December 31, 2019 and December 31, 2018, and include new business added and product changes implemented prior to such dates.
- (3) Net income and OCI sensitivities have been rounded to the nearest \$50 million. The sensitivities exclude the market impacts on the income from our joint ventures and associates, which we account for on an equity basis.
- (4) The majority of interest rate sensitivity, after hedging, is attributed to individual insurance products. We also have interest rate sensitivity, after hedging, from our fixed annuity and segregated funds products.
- (5) The LICAT sensitivities illustrate the impact on Sun Life Assurance as at December 31, 2019 and December 31, 2018. LICAT ratios are rounded to the nearest 0.5%.

The above sensitivities were determined using a 50 basis point change in interest rates and a 10% change in our equity markets because we believe that these market shocks were reasonably possible as at December 31, 2019. We have also disclosed the impact of a 25% change in equity markets to illustrate that significant changes in equity market levels may result in other than proportionate impacts on our sensitivities.

## Credit Spread and Swap Spread Sensitivities

We have estimated the immediate impact or sensitivity of our net income attributable to certain instantaneous changes in credit and swap spreads. The credit spread sensitivities reflect the impact of changes in credit spreads on our asset and liability valuations (including non-sovereign fixed income assets, provincial governments, corporate bonds, and other fixed income assets). The swap spread sensitivities reflect the impact of changes in swap spreads on swap-based derivative positions and liability valuations.

(\$ millions, unless otherwise noted)	Credit Spread Sensitivities <sup>(1)</sup>		Swap Spread Sensitivities	
	50 basis point decrease	50 basis point increase	20 basis point decrease	20 basis point increase
Net income sensitivity <sup>(2)</sup>				
<b>December 31, 2019</b>	<b>\$ (75)</b>	<b>\$ 50</b>	<b>\$ 50</b>	<b>\$ (50)</b>
December 31, 2018	\$ (75)	\$ 75	\$ 25	\$ (25)

(1) In most instances, credit spreads are assumed to revert to long-term insurance contract liability assumptions generally over a five-year period.

(2) Sensitivities have been rounded to the nearest \$25 million.

The credit and swap spread sensitivities assume a parallel shift in the indicated spreads across the entire term structure. Variations in realized spread changes based on different terms to maturity, geographies, asset classes and derivative types, underlying interest rate movements, and ratings may result in realized sensitivities being significantly different from those provided above. The credit spread sensitivity estimates exclude any credit spread impact that may arise in connection with asset positions held in segregated funds. Spread sensitivities are provided for the consolidated entity and may not be proportional across all reporting segments. Refer to Additional Cautionary Language and Key Assumptions Related to Sensitivities in this section for important additional information regarding these estimates.

## Market Risk Management Strategies

Market risk is managed at all stages during the product life cycle including product design and development, ongoing review and positioning of our suite of products, and ongoing asset-liability management and hedge re-balancing.

We have implemented asset-liability management and hedging programs involving regular monitoring and adjustment of market risk exposures using assets, derivative instruments and repurchase agreements to maintain market risk exposures within our risk appetite. The general availability and cost of these hedging instruments may be adversely impacted by a number of factors including changes in interest rates, increased volatility in capital markets, and changes in the general market and regulatory environment within which these hedging programs operate. In particular, regulations for OTC derivatives could impose additional costs and could affect our hedging strategy. In addition, these programs may themselves expose us to other risks.

Our market risk management strategies are developed based on policies and operating guidelines at the enterprise level, business segment level and product level. Liabilities having a similar risk profile are grouped together and a customized investment and hedging strategy is developed and implemented to optimize return within our risk appetite limits.

In general, market risk exposure is mitigated by the assets supporting our products. This includes holdings of fixed income assets such as bonds and mortgages. Derivative instruments may supplement these assets to reduce the risk from cash flow mismatches and mitigate the market risk associated with liability features and optionality. The following table sets out the use of derivatives across a number of our products as at December 31, 2019.

### Asset-Liability Management Applications for Derivative Usage

The primary uses of derivatives are set out in the table below.

Products/Application	Uses of Derivative	Derivatives Used
General asset-liability management - interest rate risk exposure for most insurance and annuity products	To manage the sensitivity of the duration gap between assets and liabilities to interest rate changes	Interest rate swaps, swaptions, floors and bond futures
Guarantees on insurance and annuity contracts - minimum interest rate guarantees, guaranteed surrender values and guaranteed annuitization options	To limit potential financial losses from significant reductions in asset earned rates relative to contract guarantees	Interest rate swaps, swaptions, floors and bond futures
Segregated fund guarantees	To manage the exposure of product guarantees sensitive to movement in equity market and interest rate levels and currency fluctuations	Put options, call options, futures and swaps on equity indices, interest rate swaps and bond futures, and foreign exchange forwards
Currency exposure in relation to asset-liability management	To reduce the sensitivity to currency fluctuations by matching the value and cash flows of specific assets denominated in one currency with the value and cash flows of the corresponding liabilities denominated in another currency	Currency swaps and forwards
Credit exposure	To replicate credit exposures and enhance investment returns	Credit default swaps

## General Account Insurance and Annuity Products

Most of our expected sensitivity to changes in interest rates and about two-thirds of our expected sensitivity to changes in equity markets are derived from our general account insurance and annuity products. We have implemented market risk management strategies to mitigate a portion of the market risk related to our general account insurance and annuity products.

Individual insurance products include universal life and other long-term life and health insurance products. Major sources of market risk exposure for individual insurance products include the reinvestment risk related to future premiums on regular premium policies, asset reinvestment risk on both regular premium and single premium policies and the guaranteed cost of insurance. Interest rate risk for individual

insurance products is typically managed on a duration basis, within tolerance ranges set out in the applicable investment policy or guidelines. Targets and limits are established so that the level of residual exposure is commensurate with our risk appetite. Exposures are monitored frequently, and assets are re-balanced as necessary to maintain compliance within policy limits using a combination of assets and derivative instruments. A portion of the longer-term cash flows are backed with equities and real estate.

For participating insurance products and other insurance products with adjustability features, the investment strategy objective is to provide a total rate of return given a constant risk profile over the long term.

Fixed annuity products generally provide the policyholder with a guaranteed investment return or crediting rate. Interest rate risk for these products is typically managed on a duration basis, within tolerance ranges set out in the applicable investment guidelines. Targets and limits are established such that the level of residual exposure is commensurate with our risk appetite. Exposures are monitored frequently, and are re-balanced as necessary to maintain compliance within prescribed tolerances using a combination of fixed income assets and derivative instruments.

Certain insurance and annuity products contain minimum interest rate guarantees. Market risk management strategies are implemented to limit potential financial loss due to reductions in asset earned rates relative to contract guarantees. These typically involve the use of hedging strategies utilizing interest rate derivatives such as interest rate floors, swaps and swaptions.

Certain insurance and annuity products contain features which allow the policyholders to surrender their policy at book value. Market risk management strategies are implemented to limit the potential financial loss due to changes in interest rate levels and policyholder behaviour. These typically involve the use of hedging strategies such as dynamic option replication and the purchase of interest rate swaptions.

Certain products have guaranteed minimum annuitization rates. Market risk management strategies are implemented to limit the potential financial loss and typically involve the use of fixed income assets, interest rate swaps, and swaptions.

### Segregated Fund Guarantees

Approximately one-third of our equity market sensitivity and a small amount of interest rate risk sensitivity as at December 31, 2019 are derived from segregated fund products. These products provide benefit guarantees, which are linked to underlying fund performance and may be triggered upon death, maturity, withdrawal or annuitization. The cost of providing these guarantees is uncertain and depends upon a number of factors including general capital market conditions, our hedging strategies, policyholder behaviour and mortality experience, each of which may result in negative impacts on net income and capital.

The following table provides information with respect to the guarantees provided for our segregated fund products by business group.

### Segregated Fund Risk Exposures (\$ millions)

<b>December 31, 2019</b>					
	<b>Fund value</b>	<b>Amount at Risk<sup>(1)</sup></b>	<b>Value of guarantees<sup>(2)</sup></b>	<b>Insurance contract liabilities<sup>(3)</sup></b>	
Canada	12,131	362	10,678	505	
Asia	2,337	212	2,380	99	
Corporate <sup>(4)</sup>	2,302	207	1,063	228	
<b>Total</b>	<b>16,770</b>	<b>781</b>	<b>14,121</b>	<b>832</b>	

<b>December 31, 2018</b>					
	<b>Fund value</b>	<b>Amount at Risk<sup>(1)</sup></b>	<b>Value of guarantees<sup>(2)</sup></b>	<b>Insurance contract liabilities<sup>(3)</sup></b>	
Canada	11,202	792	10,742	552	
Asia	2,798	444	3,165	147	
Corporate <sup>(4)</sup>	2,215	277	1,219	255	
<b>Total</b>	<b>16,215</b>	<b>1,513</b>	<b>15,126</b>	<b>954</b>	

(1) The Amount at Risk represents the excess of the value of the guarantees over fund values on all policies where the value of the guarantees exceeds the fund value. The Amount at Risk is not currently payable as the guarantees are only payable upon death, maturity, withdrawal or annuitization if fund values remain below guaranteed values.

(2) For guaranteed lifetime withdrawal benefits, the value of guarantees is calculated as the present value of the maximum future withdrawals assuming market conditions remain unchanged from current levels. For all other benefits, the value of guarantees is determined assuming 100% of the claims are made at the valuation date.

(3) The insurance contract liabilities represent management's provision for future costs associated with these guarantees and include a provision for adverse deviation in accordance with Canadian actuarial standards of practice.

(4) Corporate includes Run-off reinsurance, a closed block of reinsurance. The Run-off reinsurance business includes risks assumed through reinsurance of variable annuity products issued by various North American insurance companies between 1997 and 2001.

The movement of the items in the table above from December 31, 2018 to December 31, 2019 primarily resulted from the following factors:

- (i) the total fund values increased due to an increase in equity markets, which was partially offset by net redemptions from products closed to new business;
- (ii) the total amount at risk decreased due to an increase in equity markets and net redemptions from products closed to new business;
- (iii) the total value of guarantees decreased due to net redemptions from products closed to new business and the weakening of the U.S. dollar against the Canadian dollar; and
- (iv) the total insurance contract liabilities decreased due to an increase in equity markets, which was partially offset by a decrease in interest rates.

## Segregated Fund Hedging

Our hedging programs use derivative instruments to mitigate the interest and equity related exposure of our segregated fund contracts. As at December 31, 2019, over 90% of our segregated fund contracts, as measured by associated fund values, were included in a hedging program. While a large percentage of contracts are included in the hedging program, not all of our market risk exposure related to these contracts is hedged. For those segregated fund contracts included in the hedging program, we generally hedge the value of expected future net claims costs and associated margins.

The following table illustrates the impact of our hedging program related to our sensitivity to a 50 basis point decrease in interest rates and a 10% and 25% decrease in equity markets for segregated fund contracts as at December 31, 2019 and December 31, 2018.

### Impact of Segregated Fund Hedging

December 31, 2019 (\$ millions)	Changes in interest rates <sup>(3)</sup>		Changes in equity markets <sup>(4)</sup>	
	50 basis point decrease		10% decrease	25% decrease
Net income sensitivity <sup>(1)(2)</sup>				
Before hedging	(150)	(150)	(400)	
Hedging impact	150	100	300	
Net of hedging	–	(50)	(100)	

December 31, 2018 (\$ millions)	Changes in interest rates <sup>(3)</sup>		Changes in equity markets <sup>(4)</sup>	
	50 basis point decrease		10% decrease	25% decrease
Net income sensitivity <sup>(1)(2)</sup>				
Before hedging	(150)	(150)	(450)	
Hedging impact	150	100	350	
Net of hedging	–	(50)	(100)	

(1) Net income sensitivities have been rounded to the nearest \$50 million.

(2) Since the fair value of benefits being hedged will generally differ from the financial statement value (due to different valuation methods and the inclusion of valuation margins in respect of financial statement values), this will result in residual volatility to interest rate and equity market shocks in net income and capital. The general availability and cost of these hedging instruments may be adversely impacted by a number of factors, including volatile and declining equity and interest rate market conditions.

(3) Represents a parallel shift in assumed interest rates across the entire yield curve as at December 31, 2019 and December 31, 2018, with no change to the ASB promulgated URR. Variations in realized yields based on factors such as different terms to maturity and geographies may result in realized sensitivities being significantly different from those illustrated above. Sensitivities include the impact of re-balancing interest rate hedges for dynamic hedging programs at 10 basis point intervals (for 50 basis point changes in interest rates).

(4) Represents the change across all equity markets as at December 31, 2019 and December 31, 2018. Assumes that actual equity exposures consistently and precisely track the broader equity markets. Since in actual practice equity-related exposures generally differ from broad market indices (due to the impact of active management, basis risk, and other factors), realized sensitivities may differ significantly from those illustrated above. Sensitivities include the impact of re-balancing equity hedges for dynamic hedging programs at 2% intervals (for 10% changes in equity markets) and at 5% intervals (for 25% changes in equity markets).

Our hedging strategy is applied both at the line of business or product level and at the Company level using a combination of longer-dated put options and dynamic hedging techniques (i.e., frequent re-balancing of short-dated interest rate and equity derivative contracts). We actively monitor our overall market exposure and may implement tactical hedge overlay strategies in order to align expected earnings sensitivities with risk management objectives.

## Real Estate Risk

Real estate risk is the potential for financial loss arising from fluctuations in the value of, or future cash flows from, our investments in real estate. We are exposed to real estate risk and may experience financial losses resulting from the direct ownership of real estate investments or indirectly through fixed income investments secured by real estate property, leasehold interests, ground rents, and purchase and leaseback transactions. Real estate price risk may arise from external market conditions, inadequate property analysis, inadequate insurance coverage, inappropriate real estate appraisals, or from environmental risk exposures. We hold direct real estate investments that support general account liabilities and surplus, and fluctuations in value will impact our profitability and financial position. A material and sustained increase in interest rates may lead to deterioration in real estate values. An instantaneous 10% decrease in the value of our direct real estate investments as at December 31, 2019 would decrease net income<sup>(1)</sup> by approximately \$275 million (\$275 million decrease as at December 31, 2018). Conversely, an instantaneous 10% increase in the value of our direct real estate investments as at December 31, 2019 would increase net income by approximately \$275 million (\$275 million increase as at December 31, 2018).

## Foreign Currency Risk

Foreign currency risk is the result of mismatches in the currency of our assets and liabilities (inclusive of capital), and cash flows. This risk may arise from a variety of sources such as foreign currency transactions and services, foreign currency hedging, investments denominated in foreign currencies, investments in foreign subsidiaries and net income from foreign operations. Changes or volatility in foreign exchange rates, including a change to currencies that are fixed in value to another currency, could adversely affect our financial condition and results of operations.

As an international provider of financial services, we operate in a number of countries, with revenues and expenses denominated in several local currencies. In each country in which we operate, we generally maintain the currency profile of assets to match the currency of aggregate liabilities and required surplus. This approach provides an operational hedge against disruptions in local operations caused by currency fluctuations. Foreign currency derivative contracts such as currency swaps and forwards are used as a risk management tool to manage the currency exposure in accordance with our Asset Liability Management Policy. As at December 31, 2019 and December 31, 2018, the Company did not have a material foreign currency risk exposure on a functional currency basis.

(1) Net income sensitivities have been rounded to the nearest \$25 million.

Changes in exchange rates can affect our net income and surplus when financial results in functional currencies are translated into Canadian dollars. Net income earned outside of Canada is generally not currency hedged and a weakening in the local currency of our foreign operations relative to the Canadian dollar can have a negative impact on our net income reported in Canadian currency. A strengthening in the local currency of our foreign operations relative to the Canadian dollar would have the opposite effect. Regulatory capital ratios could also be impacted by changes in exchange rates.

### **Additional Cautionary Language and Key Assumptions Related to Sensitivities**

Our market risk sensitivities are measures of our estimated change in net income and OCI for changes in interest rates and equity market price levels described above, based on interest rates, equity market prices and business mix in place as at the respective calculation dates. These sensitivities are calculated independently for each risk factor, generally assuming that all other risk variables stay constant. The sensitivities do not take into account indirect effects such as potential impacts on goodwill impairment or valuation allowances on deferred tax assets. The sensitivities are provided for the consolidated entity and may not be proportional across all reporting segments. Actual results can differ materially from these estimates for a variety of reasons, including differences in the pattern or distribution of the market shocks, the interaction between these risk factors, model error, or changes in other assumptions such as business mix, effective tax rates, policyholder behaviour, currency exchange rates and other market variables relative to those underlying the calculation of these sensitivities. The extent to which actual results may differ from the indicative ranges will generally increase with larger capital market movements. Our sensitivities as at December 31, 2018 have been included for comparative purposes only.

We have also provided measures of our net income sensitivity to instantaneous changes in credit spreads, swap spreads, real estate price levels, and capital sensitivities to changes in interest rates and equity price levels. The real estate sensitivities are non-IFRS financial measures. For additional information, see section L - Non-IFRS Financial Measures in this document. The cautionary language which appears in this section is also applicable to the credit spread, swap spread, real estate, and LICAT ratio sensitivities. In particular, these sensitivities are based on interest rates, credit and swap spreads, equity market, and real estate price levels as at the respective calculation dates and assume that all other risk variables remain constant. Changes in interest rates, credit and swap spreads, equity market, and real estate prices in excess of the ranges illustrated may result in other-than-proportionate impacts.

As these market risk sensitivities reflect an instantaneous impact on net income, OCI and Sun Life Assurance's LICAT ratio, they do not include impacts over time such as the effect on fee income in our asset management businesses.

The sensitivities reflect the composition of our assets and liabilities as at December 31, 2019 and December 31, 2018, respectively. Changes in these positions due to new sales or maturities, asset purchases/sales, or other management actions could result in material changes to these reported sensitivities. In particular, these sensitivities reflect the expected impact of hedging activities based on the hedge programs in place as at the December 31 calculation dates. The actual impact of hedging activity can differ materially from that assumed in the determination of these indicative sensitivities due to ongoing hedge re-balancing activities, changes in the scale or scope of hedging activities, changes in the cost or general availability of hedging instruments, basis risk (i.e., the risk that hedges do not exactly replicate the underlying portfolio experience), model risk, and other operational risks in the ongoing management of the hedge programs or the potential failure of hedge counterparties to perform in accordance with expectations.

The sensitivities are based on methods and assumptions in effect as at December 31, 2019 and December 31, 2018, as applicable. Changes in the regulatory environment, accounting or actuarial valuation methods, models, or assumptions (including changes to the ASB promulgated URR) after those dates could result in material changes to these reported sensitivities. Changes in interest rates and equity market prices in excess of the ranges illustrated may result in other than proportionate impacts.

Our hedging programs may themselves expose us to other risks, including basis risk (i.e., the risk that hedges do not exactly replicate the underlying portfolio experience), volatility risk, derivative counterparty credit risk, and increased levels of liquidity risk, model risk and other operational risks. These factors may adversely impact the net effectiveness, costs, and financial viability of maintaining these hedging programs and therefore adversely impact our profitability and financial position. While our hedging programs are intended to mitigate these effects (e.g., hedge counterparty credit risk is managed by maintaining broad diversification, dealing primarily with highly-rated counterparties, and transacting through OTC contracts cleared through central clearing houses, exchange-traded contracts or bilateral OTC contracts negotiated directly between counterparties that include credit support annexes), residual risk, potential reported earnings and capital volatility remain.

For the reasons outlined above, our sensitivities should only be viewed as directional estimates of the underlying sensitivities of each factor under these specialized assumptions, and should not be viewed as predictors of our future net income, OCI, and capital. Given the nature of these calculations, we cannot provide assurance that actual impact will be consistent with the estimates provided.

Information related to market risk sensitivities and guarantees related to segregated fund products should be read in conjunction with the information contained in the sections in this MD&A under the section M - Accounting and Control Matters - 1 - Critical Accounting Policies and Estimates. Additional information on market risk can be found in Note 6 of our 2019 Annual Consolidated Financial Statements and the Risk Factors section in the AIF.

## **ii. Insurance Risk**

### **Risk Description**

Insurance risk is the uncertainty of product performance due to actual experience emerging differently than expected in the areas of policyholder behaviour, mortality, morbidity and longevity. In addition, product design and pricing, expense and reinsurance risks impact multiple risk categories, including insurance risk.

### **Insurance Risk Management Governance and Control**

We employ a wide range of insurance risk management practices and controls, as outlined below:

- Insurance risk governance practices are in place, including independent monitoring and review and reporting to senior management and the Risk & Conduct Review Committee.
- Risk appetite limits have been established for policyholder behaviour, mortality and morbidity, and longevity risks.

- Income and regulatory capital sensitivities are monitored, managed and reported against pre-established risk limits.
- Comprehensive Insurance Risk Policy, guidelines and practices are in place.
- The global underwriting manual aligns underwriting practices with our corporate risk management standards and ensures a consistent approach in insurance underwriting.
- Board-approved maximum retention limits are in place. Amounts issued in excess of these limits are reinsured.
- Detailed procedures, including criteria for approval of risks and for claims adjudication are established and monitored for each business segment.
- Underwriting and risk selection standards are established and overseen by the corporate underwriting and claims risk management function.
- Diversification and risk pooling is managed by aggregation of exposures across product lines, geography and distribution channels.
- The Insurance Risk Policy and Investment & Credit Risk Policy establish acceptance criteria and protocols to monitor the level of reinsurance ceded to any single reinsurer or group of reinsurers.
- Reinsurance counterparty risk is monitored, including annual reporting of reinsurance exposure to the Risk & Conduct Review Committee.
- Concentration risk exposure is monitored on group policies in a single location to avoid a catastrophic event occurrence resulting in a significant impact.
- Various limits, restrictions and fee structures are introduced into plan designs in order to establish a more homogeneous policy risk profile and limit potential for anti-selection.
- Regulatory solvency requirements include risk-based capital requirements and are monitored regularly.
- The Product Design and Pricing Policy requires detailed risk assessment and pricing provision for material risks.
- Company specific and industry level experience studies and sources of earnings analysis are monitored and factored into valuation, renewal and new business pricing processes.
- Stress-testing techniques, such as DCAT, are used to measure the effects of large and sustained adverse movements in insurance risk factors. In 2020, the Canadian Institute of Actuaries will replace DCAT with FCT. FCT, similar to DCAT, will continue to act as a key stress-testing technique for the organization. FCT's testing is broader than DCAT and allows for harmonization with the Company's ORSA.
- Insurance contract liabilities are established in accordance with Canadian actuarial standards of practice.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.

We use reinsurance to limit losses, minimize exposure to significant risks and to provide additional capacity for growth. Our Insurance Risk Policy sets maximum global retention limits and related management standards and practices that are applied to reduce our exposure to large claims. Amounts in excess of the Board-approved maximum retention limits are reinsured. Effective January 1, 2019, we updated our single life or joint-first-to-die basis retention limit to \$40 (\$25 in 2018) in Canada and US\$40 (US\$25 in 2018) outside of Canada. For survivorship life insurance, our maximum global retention limit is \$50 (\$30 in 2018) in Canada and US\$50 (US\$30 in 2018) outside of Canada. In certain markets and jurisdictions, retention levels below the maximum are applied. Reinsurance is utilized for numerous products in most business segments, and placement is done on an automatic basis for defined insurance portfolios and on a facultative basis for individual risks with certain characteristics.

Our reinsurance coverage is well diversified and controls are in place to manage exposure to reinsurance counterparties. Reinsurance exposures are monitored to ensure that no single reinsurer represents an undue level of credit risk. This includes performing periodic due diligence on our reinsurance counterparties as well as internal credit assessments on counterparties with which we have material exposure. While reinsurance arrangements provide for the recovery of claims arising from the liabilities ceded, we retain primary responsibility to the policyholders.

Specific insurance risks and our risk management strategies are discussed below in further detail.

### **Policyholder Behaviour Risk**

We can incur losses due to adverse policyholder behaviour relative to the assumptions used in the pricing and valuation of products with regard to lapse of policies or exercise of other embedded policy options.

Uncertainty in policyholder behaviour can arise from several sources including unexpected events in the policyholder's life circumstances, the general level of economic activity (whether higher or lower than expected), changes in the financial and capital markets, changes in pricing and availability of current products, the introduction of new products, changes in underwriting technology and standards, as well as changes in our financial strength or reputation. Uncertainty in future cash flows affected by policyholder behaviour can be further exacerbated by irrational behaviour during times of economic turbulence or at key option exercise points in the life of an insurance contract.

Various types of provisions are built into many of our products to reduce the impact of uncertain policyholder behaviour. These provisions include:

- Surrender charges that adjust the payout to the policyholder by taking into account prevailing market conditions.
- Limits on the amount that policyholders can surrender or borrow.
- Restrictions on the timing of policyholders' ability to exercise certain options.
- Restrictions on both the types of funds Clients can select and the frequency with which they can change funds.
- Policyholder behaviour risk is also mitigated through reinsurance on some insurance contracts.

Internal experience studies are used to monitor, review and update policyholder behaviour assumptions as needed which could result in updates to policy liabilities.

### **Mortality and Morbidity Risk**

Mortality and morbidity risk is the risk that future experience could be worse than the assumptions used in the pricing and valuation of products. Mortality and morbidity risk can arise in the normal course of business through random fluctuation in realized experience, through catastrophes, or in association with other risk factors such as product development and pricing or model risk. Adverse mortality and morbidity experience could also occur through systemic anti-selection, which could arise due to poor plan design, or underwriting process failure or the development of investor-owned and secondary markets for life insurance policies.

The risk of adverse morbidity experience also increases during economic slowdowns, especially with respect to disability coverage, as well as with increases in high medical treatment costs and growth in utilization of specialty drugs. This introduces the potential for adverse financial volatility in our financial results. External factors could adversely affect our life insurance, health insurance, critical illness, disability, long-term care insurance and annuity businesses. Adverse trends in morbidity experience, such as higher disability incidence, increases in high medical treatment costs and growth in utilization of specialty drugs, introduce the potential for adverse volatility in our financial results.

Detailed uniform underwriting procedures have been established to determine the insurability of applicants and to manage exposure to large claims. These underwriting requirements are regularly scrutinized against industry guidelines and oversight is provided through a corporate underwriting and claim management function.

Mortality and morbidity concentration risk is the risk of a catastrophic event, such as natural environmental disasters (for example, earthquakes), human-made disasters (for example, acts of terrorism, military actions, and inadvertent introduction of toxic elements into the environment) as well as pandemics that could occur in geographic locations where there is significant insurance coverage. We do not have a high degree of concentration risk to single individuals or groups due to our well-diversified geographic and business mix. The largest portion of mortality risk within the Company is in North America. Individual and group insurance policies are underwritten prior to initial issue and renewals, based on risk selection, plan design, and rating techniques.

The Insurance Risk Policy approved by the Risk & Conduct Review Committee includes limits on the maximum amount of insurance that may be issued under one policy and the maximum amount that may be retained. These limits vary by geographic region and amounts in excess of limits are reinsured to ensure there is no exposure to unreasonable concentration of risk.

### **Longevity Risk**

Longevity risk is the potential for economic loss, accounting loss or volatility in earnings arising from adverse changes in rates of mortality improvement relative to the assumptions used in the pricing and valuation of products. This risk can manifest itself slowly over time as socioeconomic conditions improve and medical advances continue. It could also manifest itself more quickly, for example, due to medical breakthroughs that significantly extend life expectancy. Longevity risk affects contracts where benefits or costs are based upon the likelihood of survival (for example, annuities, pensions, pure endowments, reinsurance, segregated funds, and specific types of health contracts). Additionally, our longevity risk exposure is increased for certain annuity products such as guaranteed annuity options by an increase in equity market levels.

To improve management of longevity risk, we monitor research in the fields that could result in a change in expected mortality improvement. Stress-testing techniques are used to measure and monitor the impact of extreme mortality improvement on the aggregate portfolio of insurance and annuity products as well as our own pension plans.

### **Product Design and Pricing Risk**

Product design and pricing risk is the risk a product does not perform as expected, causing adverse financial consequences. This risk may arise from deviations in realized experience versus assumptions used in the pricing of products. Risk factors include uncertainty concerning future investment yields, policyholder behaviour, mortality and morbidity experience, sales levels, mix of business, expenses and taxes. Although some of our products permit us to increase premiums or adjust other charges and credits during the life of the policy or contract, the terms of these policies or contracts may not allow for sufficient adjustments to maintain expected profitability. This could have an adverse effect on our profitability and capital position.

Our Product Design and Pricing Policy, approved by the Risk & Conduct Review Committee, establishes the framework governing our product design and pricing practices and is designed to align our product offerings with our strategic objectives and risk-taking philosophy. Consistent with this policy, product development, design and pricing processes have been implemented throughout the Company. New products follow a stage-gate process with defined management approvals based on the significance of the initiative, and each initiative is subject to a risk assessment process to identify key risks and risk mitigation requirements, and is reviewed by multiple stakeholders. Additional governance and control procedures are listed below:

- Pricing models, methods, and assumptions are subject to periodic internal peer reviews.
- Experience studies, sources of earnings analysis, and product dashboards are used to monitor actual experience against those assumed in pricing and valuation.
- On experience rated, participating, and adjustable products, emerging experience is reflected through changes in policyholder dividend scales as well as other policy adjustment mechanisms such as premium and benefit levels.
- Limits and restrictions may be introduced into the design of products to mitigate adverse policyholder behaviour or apply upper thresholds on certain benefits.

### **Expense Risk**

Expense risk is the risk that future expenses are higher than the assumptions used in the pricing and valuation of products. This risk can arise from general economic conditions, unexpected increases in inflation, slower than anticipated growth, or reduction in productivity leading to increases in unit expenses. Expense risk occurs in products where we cannot or will not pass increased costs onto the Client and will manifest itself in the form of a liability increase or a reduction in expected future profits.

We closely monitor expenses through an annual budgeting process and ongoing monitoring of any expense gaps between unit expenses assumed in pricing and actual expenses.

### **Reinsurance Risk**

We purchase reinsurance for certain risks underwritten by our various insurance businesses. Reinsurance risk is the risk of financial loss due to adverse developments in reinsurance markets (for example, discontinuance or diminution of reinsurance capacity, or an increase in the cost of reinsurance), insolvency of a reinsurer or inadequate reinsurance coverage.

Changes in reinsurance market conditions, including actions taken by reinsurers to increase rates on existing and new coverage and our ability to obtain appropriate reinsurance, may adversely impact the availability or cost of maintaining existing or securing new reinsurance capacity,

with adverse impacts on our business strategies, profitability and financial position. There is an increased possibility of rate increases or renegotiation of legacy reinsurance contracts by our reinsurers, as the global reinsurance industry continues to review and optimize their business models. In addition, changes to the regulatory treatment of reinsurance arrangements could have an adverse impact on our capital position.

We have an Insurance Risk Policy and an Investment & Credit Risk Policy approved by the Risk & Conduct Review Committee, which set acceptance criteria and processes to monitor the level of reinsurance ceded to any single reinsurer. These policies also set minimum criteria for determining which reinsurance companies qualify as suitable reinsurance counterparties having the capability, expertise, governance practices and financial capacity to assume the risks being considered. Additionally, these policies require that all agreements include provisions to allow action to be taken, such as recapture of ceded risk (at a potential cost to the Company), in the event that the reinsurer loses its legal ability to carry on business through insolvency or regulatory action. Periodic due diligence is performed on the reinsurance counterparties with which we do business and internal credit assessments are performed on reinsurance counterparties with which we have material exposure. Reinsurance counterparty credit exposures are monitored closely and reported annually to the Risk & Conduct Review Committee.

New sales of our products can be discontinued or changed to reflect developments in the reinsurance markets. Rates for our in-force reinsurance treaties can be either guaranteed or adjustable for the life of the ceded policy. In order to diversify reinsurance risk, there is generally more than one reinsurer supporting a reinsurance pool.

Additional information on insurance risk can be found in Note 7 to our 2019 Annual Consolidated Financial Statements and in the Risk Factors section in the AIF.

### iii. Credit Risk

#### Risk Description

Credit risk is the possibility of loss from amounts owed by our borrowers or financial counterparties. We are subject to credit risk in connection with issuers of securities held in our investment portfolio, debtors, structured securities, reinsurers, counterparties (including derivative, repurchase agreement and securities lending counterparties), other financial institutions and other entities. Losses may occur when a counterparty fails to make timely payments pursuant to the terms of the underlying contractual arrangement or when the counterparty's credit rating or risk profile otherwise deteriorates. Credit risk can also arise in connection with deterioration in the value of, or ability to realize, any underlying security that may be used as collateral for the debt obligation. Credit risk can occur as a result of broad economic conditions, challenges within specific sectors of the economy, or from issues affecting individual companies. Events that result in defaults, impairments or downgrades of the securities in our investment portfolio would cause the Company to record realized or unrealized losses and may cause an increase in our provisions for asset default, adversely impacting earnings.

#### Credit Risk Management Governance and Control

We employ a wide range of credit risk management practices and controls, as outlined below:

- Credit risk governance practices are in place, including independent monitoring and review and reporting to senior management and the Risk & Conduct Review Committee.
- Risk appetite limits have been established for credit risk.
- Income and regulatory capital sensitivities are monitored, managed and reported against pre-established risk limits.
- Comprehensive Investment and Credit Risk Management Policy, guidelines and practices are in place.
- Specific investment diversification requirements are in place, such as defined investment limits for asset class, geography, and industry.
- Risk-based credit portfolio, counterparty, and sector exposure limits have been established.
- Mandatory use of credit quality ratings for portfolio investments has been established and is reviewed regularly. These internal rating decisions for new fixed income investments and ongoing review of existing rating decisions are independently adjudicated by Corporate Risk Management.
- Comprehensive due diligence processes and ongoing credit analyses are conducted.
- Regulatory solvency requirements include risk-based capital requirements and are monitored regularly.
- Comprehensive compliance monitoring practices and procedures including reporting against pre-established investment limits are in place.
- Reinsurance exposures are monitored to ensure that no single reinsurer represents an undue level of credit risk.
- Stress-testing techniques, such as DCAT, are used to measure the effects of large and sustained adverse credit developments. In 2020, the Canadian Institute of Actuaries will replace DCAT with FCT. FCT, similar to DCAT, will continue to act as a key stress-testing technique for the organization. FCT's testing is broader than DCAT and allows for harmonization with the Company's ORSA.
- Insurance contract liabilities are established in accordance with Canadian actuarial standards of practice.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.

Our core principles of credit risk management include asset diversification, fundamental research and analysis of cash flows, proactive and continuous risk monitoring, active management and relative value assessment, all with the objective of optimizing risk-adjusted returns, with due consideration for the impacts of capital and taxation.

We rate fixed income investments primarily through the use of internally developed scorecards which combine an estimated probability of default and loss given default to determine an expected loss and credit risk rating. This rating is expressed using a 22-point scale that is generally consistent with those used by external rating agencies, and is based on detailed examination of the borrower's, or issuer's, credit quality and the characteristics of the specific instrument. The probability of default assessment is based on borrower-level or issuer-level analysis, which encompasses an assessment of industry risk, business strategy, competitiveness, strength of management and other financial information. The loss given default assessment is based on instrument-level analysis, which considers the impact of guarantees, covenants, liquidity and other structural features. These scorecards provide input to stochastic value-at-risk models and are used to stress test the portfolio, which provide insight into the distribution and characteristics of credit risk within our portfolios. In accordance with our policies and under normal circumstances, our ratings cannot be higher than the highest rating provided by certain Nationally Recognized Statistical Rating Organizations ("NRSROs"). Certain assets, including those in our sovereign debt and asset-backed securities portfolios, are assigned a rating based on ratings provided by NRSROs using a priority sequence order of Standard & Poor's, Moody's, Fitch and DBRS Limited.

Additional information on credit risk can be found in Note 6 to our 2019 Annual Consolidated Financial Statements and in the Risk Factors section in the AIF.

## iv. Business and Strategic Risk

### Risk Description

Business and strategic risk includes risks related to changes in the economic or political environment, distribution channels or Client behaviour, environmental risks, competitive, legal or regulatory environment and risks relating to the design or implementation of our business strategy.

### Business and Strategic Risk Management Governance and Control

We employ a wide range of business and strategic risk management practices and controls, as outlined below:

- Business and strategic risk governance practices are in place, including independent monitoring and review and reporting to senior management, the Board and the Board Committees.
- Business and strategic risk is managed through our strategic and business planning process and controls over the implementation of these plans. These plans are reviewed and discussed at the executive level and the key themes, issues and risks emerging are discussed by the Board and the Board Committees.
- Our business and strategic plans are subject to approval by the Board, which also receives regular reviews of implementation progress against key business plan objectives.
- Comprehensive policies including the Risk Framework, Risk Appetite Policy, Product Design and Pricing Policy, and Capital Risk Policy are in place.
- Our corporate strategy and business objectives are established within the boundaries of the Risk Appetite Policy. Our business strategies and plans are designed to align with our risk appetite, our capital position and our financial performance objectives.
- Our risk appetite is periodically assessed, taking into consideration the economic and regulatory environments in which we operate.
- Merger, acquisition, strategic investments and divestiture transactions are governed by a Board-approved merger and acquisition risk management policy and significant transactions require the approval of the Board.
- Stress-testing techniques, such as DCAT, are used to measure the effects of large and sustained adverse scenarios. In 2020, the Canadian Institute of Actuaries will replace DCAT with FCT. FCT, similar to DCAT, will continue to act as a key stress-testing technique for the organization. FCT's testing is broader than DCAT and allows for harmonization with the Company's ORSA.
- Key and emerging risks are identified, monitored and reported, including emerging regulatory changes that may have a material impact on our finances, operations or reputation.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.

We regularly review and adapt our business strategies and plans to take account of changes in the external business, economic, political and regulatory environments in which we operate. Our business strategies and plans are designed to align with our risk appetite, our capital position and our financial performance objectives. We periodically reassess our risk appetite taking into consideration the economic, regulatory and competitive environment in which we operate.

Specific business and strategic risks are discussed below in further detail.

### Economic and Political Risk

We operate in various geographies and our business and financial operations are susceptible to regional and global economic, political and regulatory changes. We may be affected by economic and capital markets conditions and economic shocks around the globe as a result of increasingly connected global markets. Factors such as changes in interest rates, foreign exchange rates, market volatility, housing prices, consumer spending, saving and debt, business investment and inflation around the globe can affect the business and economic environments in which we operate. Continued economic and political uncertainty may give rise to increased business and strategic risks including those associated with industry restructuring, mergers and acquisitions, changing competitive dynamics and changes in the legal, regulatory and tax regimes in which our businesses operate. In addition, adverse economic conditions often arise in conjunction with volatile and deteriorating capital markets conditions, which can have an adverse impact on Client behaviour and in turn on our sales and profitability, credit and financial strength ratings, and capital and liquidity positions.

### Implementation of Business Strategy

Our business strategies and plans are dependent on the successful execution of organizational and strategic initiatives designed to support the growth of our business. Our ability to manage the execution of these initiatives effectively and prioritize initiatives directly affects our ability to execute our strategies. Identifying and implementing the right set of initiatives is critical to achieving our business plan targets. Failure to implement these initiatives could also lead to cost structure challenges.

### Distribution Risk

Failure to achieve planned distribution scale or appropriate and compliant distribution of products could materially impact our financial and strategic objectives. This includes the inability to attract and retain intermediaries and agents at a cost that is financially feasible to the Company, or to develop digital sales and Client support capabilities and technologies. Distribution risk may also be influenced where our distribution or product strategy and related services (including digital sales and Client support capabilities and technologies) are not developed, modified or executed in line with our strategic objectives or in consideration of the changes in Client behaviour or our regulatory environment. In addition, the lack of a well-diversified distribution model in the jurisdictions in which we do business may cause over-reliance on agency channel or key partners.

### Competition Risk

Competition from insurance companies, banks, asset managers, mutual fund companies, financial planners and other service providers (including new entrants and non-traditional financial services companies) is intense, and could adversely affect our business in certain countries.

The businesses in which we engage are highly competitive and our ability to sell our products is dependent on many factors, including scale, price and yields offered, distribution channels, digital capabilities, financial strength ratings, range of product lines and product quality, brand strength, investment performance, historical dividend levels and the ability to provide value added services to distributors and Clients. In certain markets, some of our competitors may be superior to us on one or more of these factors. Our competitors have significant potential to disrupt our business through targeted strategies to reduce our market share which may include targeting our key people or bancassurance partners and other distributors or aggressively pricing their products. Our ability to achieve our business plans and strategies depends significantly upon our capacity to anticipate and respond quickly to these competitive pressures.

Technology is driving rapid change in the financial services sector and is enabling new entrants to compete or offer services to our competitors to enhance their ability to compete in certain segments of the insurance, wealth and asset management markets. The emergence of new technologies such as robotic process automation, artificial intelligence, blockchain and advanced analytics may have an impact on the financial services sector and how companies interact with their stakeholders. Our current competitors or new entrants may use these or other new technologies to provide services in various areas such as customized pricing, proactive outreach to Clients and targeted marketing in order to strengthen their Client relationships and influence Client behaviour. The impact of disruption from changing technology and innovation by traditional and non-traditional competitors who may offer a better user experience, functionality or lower priced products and may have lower distribution costs will require us to adapt at a more rapid pace and may create margin pressures. The risk of disruption may also impact our distribution models as new and low cost digital-based business models emerge in connection with the distribution of financial services and products, such as insurtechs and robo-advisors. These risks are evolving rapidly with an increasing number of digital users and are difficult to anticipate and respond to proactively, and may adversely impact our profitability and financial position.

### **Investment Performance**

Investment performance risk is the possibility that we fail to achieve the desired return objectives on our investment portfolio, or that our asset management businesses fail to design or execute investment strategies in order to achieve competitive returns on the products and managed accounts offered by these businesses. Failure to achieve investment objectives may adversely affect our revenue and profitability through slower growth prospects and adverse impacts on policyholder or Client behaviour.

### **Changes in Legal and Regulatory Environment**

Most of our businesses are subject to extensive regulation and supervision. Changes to legislation, regulations or government policies, or the manner in which they are interpreted or enforced, may require that we make significant changes to our strategy, may result in increased implementation costs and diversion of resources to manage the change, could impact financial reporting, accounting processes and capital requirements, and could impact the ability of sales intermediaries to distribute our products, all of which could have an adverse effect on our business and operations. Our failure to comply with existing and evolving regulatory requirements could also result in regulatory sanctions and could affect our relationships with regulatory authorities and our ability to execute our business strategies and plans.

These changes could impact our capital requirements, the regulatory framework for our products and services, the regulation of selling practices, sales intermediaries (such as bancassurance) and product offerings (such as coverage for prescription drugs), solvency requirements, executive compensation, corporate governance practices and could impose restrictions on our foreign operations, which may include changes to the limits on foreign ownership of local companies.

### **Environmental Risk**

Our financial performance may be adversely affected if we do not adequately prepare for the direct or indirect negative impacts of environmental events and developments, including those related to impacts of climate change and the transition to a lower-carbon economy. These events and developments may include increased frequency and severity of natural or human-made environmental disasters, longer-term shifts in climate patterns, emerging regulatory and public policy developments, and their impacts on our operations, invested assets, suppliers, Clients and reputation. External factors such as stakeholder expectations around environmental performance, resource constraints and costs associated with adaptation are also potential sources of environmental risk. Risks that affect our Clients and our suppliers could have a negative impact on our operations and performance. These risks are considered in our key risk assessments.

A transition to a lower carbon economy could affect public and private fixed income asset values. Existing portfolio investments in coal, oil sands producers, related fossil fuel industries, railways and pipelines, as well as geographic markets which are dependent on these industries, may pose financial risk as a result of changes in consumer preferences and competition from renewable energy companies leading to stranded assets and lower overall profitability. We incorporate a number of different analyses into our assessment of climate risks through both stand-alone analysis of physical risks by geographic region and through the assessment of carbon transition risks, depending on the industry.

An environmental issue on a property owned, leased or managed by us or on any property with which we are affiliated could have financial or reputational impacts.

We maintain an environmental risk management program to help monitor and manage investment assets (primarily real estate, mortgage and certain private fixed income assets) from losses due to environmental issues and to help ensure compliance with applicable laws. We maintain insurance policies to cover certain environmental risks on owned assets.

Existing and potential environmental risks are incorporated into initial and ongoing reviews and assessments of public fixed income, private fixed income, real estate and commercial mortgage investments and this process is overseen by our Sustainable Investment Council. Our International Sustainability Council convenes on broader environmental and sustainability issues. We report on environmental management annually in our Sustainability Report reviewed by the Governance, Nomination & Investment Committee

We are a supporter of the Task Force on Climate-related Financial Disclosures, and engage in and monitor environmental and climate change developments through membership and participation in the United Nations Environment Programme - Finance Initiative; United Nations-supported Principles for Responsible Investment; and CDP (formerly the Carbon Disclosure Project), as both a signatory and responding company to the annual CDP climate change information request.

Additional information on business and strategic risk can be found in the Risk Factors section in our AIF.

## v. Operational Risk

### Risk Description

Operational risk is the risk of loss (financial and non-financial) resulting from inadequate or failed internal processes, people and systems or from external events. Operational risk is present in all of our business activities and encompasses a broad range of risks as described below. Operational risk is embedded in the practices utilized to manage other risks and, therefore, if not managed effectively, operational risk can impact our ability to manage other key risks.

### Operational Risk Management Governance and Control

We employ a wide range of operational risk management practices and controls, as outlined below:

- Operational risk governance practices are in place, including independent monitoring and review and reporting to senior management and the Board Committees.
- Risk appetite limits have been established in Operational Risk.
- Comprehensive Operational Risk Management Framework, Policies, guidelines and practices are in place.
- Our governance practices, corporate values, Code of Conduct and Company-wide approach to managing risk set the foundation for mitigating operational risks.
- Our Code of Conduct sets the tone for a strong ethical culture, and we regularly review and update the Code of Conduct to ensure that it continues to meet the expectations of regulators and other stakeholders. All our directors and employees must reconfirm annually their understanding of and commitment to comply with the Code of Conduct.
- We have established appropriate internal controls and systems for talent acquisition, rewards and development programs that attract, build and retain top talent and create strong succession plans as well as compensation programs, and we provide ongoing training to our people.
- We conduct regular monitoring of employee engagement to ensure we create and maintain a work environment where all employees are welcome and able to contribute effectively.
- Stress-testing techniques, such as DCAT, are used to measure the effects of large and sustained adverse scenarios. In 2020, the Canadian Institute of Actuaries will replace DCAT with FCT. FCT, similar to DCAT, will continue to act as a key stress-testing technique for the organization. FCT's testing is broader than DCAT and allows for harmonization with the Company's ORSA.
- We mitigate a portion of our operational risk exposure through our corporate insurance program by purchasing insurance coverage that seeks to provide insurance against unexpected material losses resulting from events such as criminal activity, property loss or damage and liability exposures, or that satisfies legal requirements and contractual obligations.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.

Specific operational risks and our risk management strategies are discussed below in further detail and in the Risk Factor section in the AIF.

### Information Security and Privacy Risks

Information and technology are used in almost all aspects of our business and operations. As part of our Client strategy, we continue to enhance the digital side of our business to support and enable new business models and processes, that are more personal, proactive and predictive.

Our business and the successful implementation of our digital strategy are dependent on various factors including maintaining a secure environment for our Clients, employees and other parties' information. This requires the effective and secure use, management and oversight of information and physical assets. We engage with various stakeholders and leverage emerging technologies, including digital, mobile applications, cloud computing, artificial intelligence and robotic process automation. These technologies are used to collect, process and maintain information relating to business transactions and financial reporting, as well as the personal information of our Clients and employees. We also obtain services from a wide range of third-party service providers and have outsourced some business and information technology functions in various jurisdictions.

We continue investing in people, processes and technology to strengthen our abilities to respond to the evolving threat landscape. Sun Life's Information Security framework is overseen by the Chief Information Security Officer, supported by senior leadership and by our Operational Risk Management Framework. Our information security framework and governance controls (policies, procedures, training) are aligned with recognized industry standards and are compliant with applicable laws and regulations.

Our well-established security controls and processes are intent on protecting our information and computer systems and the information entrusted to us by our Clients and employees. Our protection strategy leverages information security risk assessments and privacy impact assessments to evaluate potential risks. The security framework also includes technology and process safeguards and regularly promotes secure behavioural practices. As part of our layered security approach, we deliver general security awareness training sessions to all employees every year that is reinforced with regular awareness resources and activities.

Many jurisdictions in which we do business are developing and implementing cyber security reporting requirements and more stringent consumer privacy legislation. Our global privacy program monitors adherence to our global privacy commitments, local laws and local privacy policies. We have also established a network of privacy officers across the Company who monitor emerging privacy legislation and provide guidance on handling personal information and help manage, report and resolve any privacy incidents that may occur. We also conduct privacy training, provide regular monitoring and reporting and carry cyber risk insurance to help mitigate the impact of privacy incidents.

### Human Resources Risk

Our ability to achieve business objectives can be adversely affected if we are unable to attract, retain or effectively deploy resources with the in-depth knowledge and necessary skills required, or are unable to design compensation programs that effectively drive employee behaviour. Failure to manage Human Resources risk can also lead to direct financial and reputational loss including losses arising from activity that is inconsistent with Human Rights or employment laws or health and safety regulations.

To mitigate this risk, we have comprehensive Human Resource policies, practices and programs in place to ensure compliance with employment legislation, minimize the risk of employee misconduct, and proactively develop employee skills, capabilities and behaviours to meet future business needs.

### **Regulatory Compliance, Legal and Conduct Risk**

We are subject to extensive regulatory oversight by insurance and financial services regulators in the jurisdictions in which we conduct business. In recent years, there has been an increased focus by regulators globally on Client fairness, conduct, anti-money laundering, privacy and data governance. Failure to comply with applicable laws or to conduct our business consistent with changing regulatory or public expectations could adversely impact our reputation and may lead to regulatory investigations, examinations, proceedings, settlements, penalties, fines, restrictions on our business, litigation or an inability to carry out our business strategy.

Our Chief Compliance Officer oversees our comprehensive Company-wide compliance framework, which is consistent with regulatory guidance from OSFI and other regulators. This framework promotes proactive, risk-based management of compliance and regulatory risk, and includes Company-wide and business segment policies, standards and operating guidelines, programs to promote awareness of laws and regulations that impact us, ongoing monitoring of emerging legal issues and regulatory changes and training programs. There are also new employee orientation programs that include anti-money laundering and anti-terrorist financing, anti-bribery and corruption, privacy and information security risk management. To ensure effective oversight and implementation, the framework is supported by a network of compliance officers and the general counsel in each business segment. The Chief Compliance Officer reports regularly to the Board and Board Committees on the state of compliance, key compliance risks, emerging regulatory trends, escalation of key issues and key risk indicators.

### **Execution and Integration Risks Relating to Mergers, Acquisitions, Strategic Investments and Divestitures**

We regularly explore opportunities to acquire other financial services businesses or to divest ourselves of all or part of certain businesses, in support of our growth and strategy goals. Any transaction that we enter into introduces the risks related to completing the transactions as planned including effective separation and integration of the transferred businesses, effective or efficient integration, restructuring or reorganization of the businesses after the transactions have closed, and motivating and retaining personnel to effectively execute these transactions. In addition, the integration of operations and differences in organizational culture may require the dedication of significant management resources, which may distract management's attention from our day-to-day business. These risks could have an impact on our business relationship with various stakeholders including future employees, Clients, distributors and partners. Anticipated cost synergies or other expected benefits may not materialize due to a failure to successfully integrate the acquired business with our existing operations.

To mitigate this risk, we have established procedures to oversee the execution and integration of merger and acquisition transactions. Regular updates on the execution and integration risks relating to these transactions are provided to the Board, Board Committees and senior management committees, as appropriate.

### **Information Technology Risk**

The use of technology and computer systems is essential in supporting and maintaining business operations. We use technology to support virtually all aspects of our business and operations. The rapidly changing business environment increases the risk of our technology strategy not being agile enough to adapt to new business demands in a timely manner leading to financial losses, increased costs and the inability to meet Client needs.

To manage the risks associated with our technology infrastructure and applications, we have implemented a number of policies, directives and controls through our technology approval and risk governance model to ensure ongoing systems availability, stability and currency.

### **Third-Party Risk**

We engage in a variety of third-party relationships, including with distributors, independent contractors, outsourcing service providers and suppliers. Our profitability or reputation could be impacted if these third parties are unable to meet their ongoing service commitments or fail to perform to expected standards.

To manage these risks, we have established Company-wide policies and guidelines which are consistent with OSFI's and other local regulatory requirements, and which set out Sun Life's requirements to identify, assess, manage, monitor and report on third-party risks. Sun Life's program includes third-party risk assessments and enhanced due diligence if a supplier will have access to any personal data and/or Sun Life confidential information or access to non-public Sun Life systems. The key elements and risks associated with the third party are documented in the form of a written agreement, and the company monitors performance of its third parties in a manner that is commensurate to the size, risk, scope and complexity of the third-party relationship.

### **Business Disruption Risk**

Our businesses are dependent on the availability of trained employees, physical locations to conduct operations and access to technology. A significant business disruption to our operations can result if one or more of these key elements are negatively impacted. System disruptions as well as unanticipated events, including pandemics, can negatively affect staff, preventing them from getting to work or from operating business processes.

To manage this risk, we have implemented a business continuity program to facilitate the recovery of critical business operations. This program encompasses business continuity, crisis management and disaster recovery planning. Our policy, guidelines and operating procedures establish consistent processes designed to ensure that key business functions can continue and normal operations can resume effectively and efficiently should a major disruption occur. In addition, to regularly update and test business continuity plans for critical business operations, we conduct mandatory business continuity awareness training for all employees annually and have off-site backup facilities and failover capability designed to minimize downtime and accelerate recovery time in the event of a major disruption.

### **Model Risk**

We use complex models to support many business functions including product development and pricing, capital management, valuation, financial reporting, planning, hedging, asset-liability management, risk management and advanced analytics (such as artificial intelligence, predictive modeling and decision making algorithms). Model risk is the risk of loss, either in the form of financial loss, inappropriate or poor business decisions, damage to reputation, or other adverse impact, arising from inaccurate model outputs or incorrect use or interpretation of model outputs.

To manage model risk, we have established robust, Company-wide model risk management procedures over the models' life cycle with respect to building, using, changing and retiring models. The policy and operating guidelines set out minimum, risk-based requirements to ensure that models are effectively controlled, maintained and appropriately understood by users.

### **Information Management Risk**

As an international provider of financial services, we deal with extensive information across a number of countries. Information management risk is the inability to capture, manage, retain and appropriately dispose of business records, the inability to provide data that is fit for purpose, accurate, complete or timely to support business decisions, and the inability to manage data location and cross-border appropriately. Failure to manage these risks could have financial or reputational impacts, and may lead to regulatory proceedings, penalties and litigation.

To manage and monitor information management risk, we have an internal control framework, data governance and record management practices in place. Additional information on operational risk can be found in the Risk Factors section in the AIF.

## **vi. Liquidity Risk**

### **Risk Description**

Liquidity risk is the possibility that we will not be able to fund all cash outflow commitments and collateral requirements as they fall due. This includes the risk of being forced to sell assets at depressed prices resulting in realized losses on sale. This risk also includes restrictions on our ability to efficiently allocate capital among our subsidiaries due to various market and regulatory constraints on the movement of funds. Our funding obligations arise in connection with the payment of policyholder benefits, expenses, reinsurance settlements, asset purchases, investment commitments, interest on debt, and dividends on common and preferred shares. Sources of available cash flow include general fund premiums and deposits, investment related inflows (such as maturities, principal repayments, investment income and proceeds of asset sales), proceeds generated from financing activities, and dividends and interest payments from subsidiaries. We have various financing transactions and derivative contracts under which we may be required to pledge collateral or to make payments to our counterparties for the decline in market value of specified assets. The amount of collateral or payments required may increase under certain circumstances (such as changes to interest rates, credit spreads, equity markets or foreign exchange rates), which could adversely affect our liquidity.

### **Liquidity Risk Management Governance and Control**

We generally maintain a conservative liquidity position and employ a wide range of liquidity risk management practices and controls, which are described below:

- Liquidity risk governance practices are in place, including independent monitoring and review and reporting to senior management and the Risk & Conduct Review Committee.
- Liquidity is managed in accordance with our Asset Liability Management Policy and operating guidelines.
- Liquidity contingency plans are maintained for the management of liquidity in a liquidity event.
- Stress testing is performed by comparing liquidity coverage risk metrics under a one-month stress scenario to our policy thresholds. These liquidity coverage risk metrics are measured and managed at the enterprise and legal entity levels.
- Stress testing of our collateral is performed by comparing collateral coverage ratios to our policy threshold.
- Cash Management and asset-liability management programs support our ability to maintain our financial position by ensuring that sufficient cash flow and liquid assets are available to cover potential funding requirements. We invest in various types of assets with a view of matching them to our liabilities of various durations.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.
- We actively manage and monitor our capital and asset levels, and the diversification and credit quality of our investments.
- Various credit facilities for general corporate purposes are maintained.

The following table summarizes the contractual maturities of our significant financial liabilities and contractual commitments as at December 31, 2019 and 2018:

## Financial Liabilities and Contractual Obligations

December 31, 2019 (\$ millions)	Within 1 year	1 year to 3 years	3 years to 5 years	Over 5 years	Total
Insurance and investment contract liabilities <sup>(1)</sup>	\$11,931	\$ 7,983	\$ 8,737	\$282,336	\$310,987
Senior debentures and unsecured financing <sup>(2)</sup>	79	439	131	3,179	3,828
Subordinated debt <sup>(2)</sup>	114	229	229	4,208	4,780
Bond repurchase agreements	1,850	—	—	—	1,850
Accounts payable and accrued expenses	6,114	—	—	—	6,114
Lease liabilities <sup>(3)</sup>	153	268	230	463	1,114
Secured borrowings from mortgage securitization	169	426	355	969	1,919
Borrowed funds <sup>(2)</sup>	77	57	20	234	388
<b>Total liabilities</b>	<b>\$20,487</b>	<b>\$ 9,402</b>	<b>\$ 9,702</b>	<b>\$291,389</b>	<b>\$330,980</b>
Contractual commitments: <sup>(4)</sup>					
Contractual loans, equities and mortgages	\$ 869	\$ 1,039	\$ 546	\$ 1,129	\$ 3,583
<b>Total contractual commitments</b>	<b>\$ 869</b>	<b>\$ 1,039</b>	<b>\$ 546</b>	<b>\$ 1,129</b>	<b>\$ 3,583</b>
December 31, 2018 (\$ millions)	Within 1 year	1 year to 3 years	3 years to 5 years	Over 5 years	Total
Insurance and investment contract liabilities <sup>(1)</sup>	\$11,950	\$ 8,388	\$ 8,653	\$264,246	\$293,237
Senior debentures and unsecured financing <sup>(2)</sup>	438	556	234	4,880	6,108
Subordinated debt <sup>(2)</sup>	103	207	207	3,724	4,241
Bond repurchase agreements	1,824	—	—	—	1,824
Accounts payable and accrued expenses	5,971	—	—	—	5,971
Secured borrowings from mortgage securitization	182	435	187	817	1,621
Borrowed funds <sup>(2)</sup>	55	49	45	68	217
<b>Total liabilities</b>	<b>\$20,523</b>	<b>\$ 9,635</b>	<b>\$ 9,326</b>	<b>\$273,735</b>	<b>\$313,219</b>
Contractual commitments: <sup>(4)</sup>					
Contractual loans, equities and mortgages	\$ 1,157	\$ 1,044	\$ 536	\$ 1,063	\$ 3,800
Operating leases	138	230	182	506	1,056
<b>Total contractual commitments</b>	<b>\$ 1,295</b>	<b>\$ 1,274</b>	<b>\$ 718</b>	<b>\$ 1,569</b>	<b>\$ 4,856</b>

- (1) These amounts represent the undiscounted estimated cash flows of insurance and investment contract liabilities on our Consolidated Statements of Financial Position. These cash flows include estimates related to the timing and payment of death and disability claims, policy surrenders, policy maturities, annuity payments, minimum guarantees on segregated fund products, policyholder dividends, amounts on deposit, commissions and premium taxes offset by contractual future premiums and fees on in-force contracts. These estimated cash flows are based on the best estimated assumptions used in the determination of insurance and investment contract liabilities. Due to the use of assumptions, actual cash flows will differ from these estimates.
- (2) Payments due based on maturity dates and include expected interest payments. Actual redemption of certain securities may occur sooner as some include an option for the issuer to call the security at par at an earlier date.
- (3) Lease liabilities are included on the Consolidated Statements of Financial Position due to the implementation of IFRS 16.
- (4) Contractual commitments and operating lease commitments are not reported on our Consolidated Financial Statements. Additional information on these commitments is included in Note 23 of our 2019 Annual Consolidated Financial Statements.

Additional information on liquidity risk can be found in Note 6 to our 2019 Annual Consolidated Financial Statements and the Risk Factors section in the AIF.

## vii. Other Risks

### International Operations

The future success of our businesses in our international operations depends in large part on our ability to grow and compete in the markets where we operate. Challenges in these markets pose strategic and execution risk including our ability to attract and retain qualified employees and executives with local experience and critical skills, political, legal, economic, competition or other risks, risks associated with joint venture operations, developing and executing our risk management practices, and our ability to attract, retain, expand and diversify distribution channels.

### Mergers, Acquisitions, Divestitures and Strategic Investments

We regularly explore opportunities to selectively acquire other financial services businesses or to divest ourselves of all or part of certain businesses, in support of our growth and strategic objectives. These transactions introduce the risk of financial loss due to a potential failure to achieve the expected financial or other strategic objectives. There is a risk that we may be unable to make an appropriate acquisition in a desired market or business line or are unable to realize the financial and strategic benefits of the transactions due to competitive factors, regulatory requirements or other factors. These risks could adversely impact our ability to achieve our financial and strategic objectives.

## K. Additional Financial Disclosure

### 1. Items related to Statement of Operations

#### i. Business Group Summary Statement of Operations

(\$ millions, after-tax)	2019					2018	
	Canada	U.S.	Asset Management	Asia	Corporate	Total	Total
Net premiums	12,595	5,176	–	2,408	109	20,288	18,642
Net investment income	6,474	2,802	83	2,865	916	13,140	2,389
Fee income	1,320	86	4,309	531	5	6,251	5,966
<b>Revenue</b>	<b>20,389</b>	<b>8,064</b>	<b>4,392</b>	<b>5,804</b>	<b>1,030</b>	<b>39,679</b>	26,997
Gross claims and benefits paid and Changes in insurance/investment contract liabilities <sup>(1)</sup>	16,953	7,012	–	3,926	497	28,388	16,056
Operating expenses, commissions and other expenses <sup>(2)</sup>	3,536	1,621	3,229	1,424	379	10,189	9,451
Reinsurance expenses (recoveries)	(1,172)	(755)	–	(178)	(26)	(2,131)	(2,021)
<b>Total benefits and expenses</b>	<b>19,317</b>	<b>7,878</b>	<b>3,229</b>	<b>5,172</b>	<b>850</b>	<b>36,446</b>	23,486
Income tax expense (benefit)	15	28	262	51	(70)	286	597
Preferred shareholders' dividends	–	–	–	–	95	95	94
Non-controlling interests and participating policyholders' income in net income of subsidiaries	174	(5)	4	61	–	234	298
<b>Reported net income (loss)</b>	<b>883</b>	<b>163</b>	<b>897</b>	<b>520</b>	<b>155</b>	<b>2,618</b>	2,522

(1) Includes changes in reinsurance assets and net transfer to (from) segregated funds.

(2) Includes premium taxes and interest expense.

#### Canada

Canada's revenue increased by \$5.3 billion or 35%, driven by higher net investment income, primarily from increases in the changes in fair value of FVTPL assets in Individual Insurance & Wealth and GRS, and higher net premiums in GB.

#### U.S.

U.S.'s revenue increased by \$2.9 billion or 56%, driven by higher net investment income, primarily from increases in the changes in fair value of FVTPL assets, and higher net premiums in Group Benefits.

#### Asset Management

Asset Management's revenue increased by \$0.3 billion or 6%, driven by higher fee income.

#### Asia

Asia's revenue increased by \$3.3 billion, driven by higher net investment income, primarily from increases in the fair value changes of FVTPL assets, and higher net premiums in Hong Kong.

#### Corporate

Corporate's revenue increased by \$0.9 billion, driven by higher investment income, primarily from increases in the changes in fair value of FVTPL assets.

### ii. Revenue

Revenue includes: (i) premiums received on life and health insurance policies and fixed annuity products, net of premiums ceded to reinsurers; (ii) net investment income comprised of income earned on general fund assets, realized gains and losses on AFS assets and changes in the value of derivative instruments and assets designated as FVTPL and the impacts of foreign exchange translation on assets and liabilities; and (iii) fee income received for services provided. Premium and deposit equivalents from ASO, as well as deposits received by the Company on investment contracts such as segregated funds, mutual funds and managed funds are not included in revenue; however, the Company does receive fee income from these contracts, which is included in revenue. Fee income and ASO premium and deposit equivalents are an important part of our business and as a result, revenue does not fully represent sales and other activity taking place during the respective periods.

Net investment income can experience volatility arising from the quarterly fluctuation in the value of FVTPL assets and foreign currency changes on assets and liabilities, which may in turn affect the comparability of revenue from period to period. The change in fair value of FVTPL assets is driven largely by market-related factors such as interest rates, credit spreads and equity returns. The debt and equity securities that support insurance contract liabilities are generally designated as FVTPL and changes in fair values of these assets are recorded in net

investment income in our Consolidated Statements of Operations. Changes in the fair values of the FVTPL assets supporting insurance contract liabilities are largely offset by a corresponding change in the liabilities.

Revenue (\$ millions)	2019	2018	2017
<b>Premiums</b>			
Gross			
Life insurance	9,470	8,677	8,831
Health insurance	9,908	9,121	8,519
Annuities	3,302	3,183	2,488
	<b>22,680</b>	20,981	19,838
Ceded			
Life insurance	(1,570)	(1,521)	(1,659)
Health insurance	(511)	(489)	(2,554)
Annuities	(311)	(329)	(344)
	<b>(2,392)</b>	(2,339)	(4,557)
<b>Net premiums</b>	<b>20,288</b>	18,642	15,281
<b>Net investment income (loss)</b>			
Interest and other investment income	5,855	5,641	5,413
Fair value <sup>(1)</sup> and foreign currency changes on assets and liabilities	7,118	(3,373)	2,603
Net gains (losses) on AFS assets	167	121	195
<b>Net investment income (loss)</b>	<b>13,140</b>	2,389	8,211
<b>Fee income</b>	<b>6,251</b>	5,966	5,842
<b>Total revenue</b>	<b>39,679</b>	26,997	29,334
<b>Adjusted revenue<sup>(2)</sup></b>	<b>32,792</b>	30,972	29,791

(1) Represents the change in FVTPL assets and liabilities.

(2) Adjusted revenue is a non-IFRS financial measure that excludes from revenue the impacts of Constant Currency Adjustment, FV Adjustment and Reinsurance in Canada's Group Operations Adjustment as described in section L - Non-IFRS Financial Measures in this document.

Revenue increased by \$12.7 billion or 47% in 2019 compared to 2018, primarily driven by increases in the fair value of FVTPL assets, predominantly due to the impact of interest rates as well as equity market movements, and increased net premium revenue in Canada, Asia and the U.S. The impacts of foreign exchange translation increased revenue by \$422 million. Adjusted revenue increased by \$1.8 billion or 6% in 2019 compared to 2018, driven by increased net premium revenue in Canada, Asia and the U.S.

Gross premiums increased by \$1.7 billion or 8% in 2019 compared to 2018, driven by increases in Canada, Asia and the U.S.

Ceded premiums of \$2.4 billion in 2019 were in line with 2018.

Net investment income increased by \$10.8 billion in 2019 compared to 2018, driven by increases in the changes in fair value of FVTPL assets in Canada, Asia, the U.S. and Corporate.

Fee income increased by \$0.3 billion or 5% in 2019, compared to 2018, driven by increases in Asset Management and Canada.

### iii. Benefits and Expenses

(\$ millions)	2019	2018	2017
<b>Benefits and Expenses</b>			
Gross claims and benefits paid	17,421	15,986	15,353
Changes in insurance/investment contract liabilities <sup>(1)</sup>	11,404	378	6,189
Reinsurance expenses (recoveries)	(2,131)	(2,021)	(4,373)
Commissions	2,417	2,339	2,403
Operating expenses	7,033	6,432	6,410
Other <sup>(2)</sup>	302	372	563
<b>Total benefits and expenses</b>	<b>36,446</b>	23,486	26,545

(1) Includes increase (decrease) in insurance contract liabilities, decrease (increase) in reinsurance assets, increase (decrease) in investment contract liabilities.

(2) Other includes net transfer to (from) segregated funds, premium taxes and interest expense.

Total benefits and expenses increased by \$13.0 billion or 55% in 2019 compared to 2018, primarily driven by increases in the changes in insurance/investment contract liabilities and gross claims and benefits paid.

Gross claims and benefits paid increased by \$1.4 billion or 9% in 2019 compared to 2018, driven by increases in the U.S., Asia, and Canada.

Changes in insurance/investment contract liabilities and reinsurance assets increased by \$11.0 billion in 2019 compared to 2018, reflecting increases in insurance contract liabilities, primarily due to increases in the changes in fair value of FVTPL assets.

Commission expenses of \$2.4 billion were largely unchanged compared to 2018.

Operating expenses increased by \$0.6 billion or 9% in 2019 compared to 2018, reflecting higher expenses in line with business growth, and higher project spend, partially offset by lower incentive compensation costs. The impacts of foreign exchange translation increased operating expenses by \$101 million. Additional information on operating expenses can be found in Note 18 in our 2019 Annual Consolidated Financial Statements.

Other decreased by \$0.1 billion or 19% in 2019 compared to 2018, primarily driven by an increase in net transfers from segregated funds.

## iv. Taxes

### Income Taxes

In 2019, we had an income tax expense of \$286 million on reported net income before taxes of \$3,233 million, which resulted in an effective income tax rate of 8.8%. This compares to an income tax expense of \$597 million on reported net income before taxes of \$3,511 million and an effective income tax rate of 17.0% in 2018.

On an underlying basis<sup>(1)</sup>, in 2019, we had an income tax expense of \$525 million on our underlying net income before taxes of \$3,717 million, representing an effective income tax rate of 14.1% which is below our expected range of 15% to 20% primarily due to the favourable resolution of Canadian tax matters and higher tax-exempt investment income. This compares to an income tax expense of \$642 million on our underlying net income before taxes of \$3,731 million and an effective income tax rate of 17.2% in 2018.

See section D - Profitability - v - Income taxes for additional information on our effective tax rates.

### Other Taxes

In addition to income taxes, we pay various indirect taxes in jurisdictions in which we carry on business. Indirect taxes include premium taxes, investment income tax, payroll related taxes, property taxes, sales taxes, business taxes and other taxes, as follows:

(\$ millions)	2019	2018
Income tax expense	286	597
Indirect taxes		
Premium taxes (net of premium taxes on ceded business) <sup>(1)</sup>	375	345
Payroll taxes	175	163
Property taxes	122	126
Goods and services tax ("GST"), harmonized tax ("HST") and other sales taxes	117	122
Business taxes and other	43	38
Total indirect taxes	832	794
Total taxes	1,118	1,391
Reported effective income tax rate	8.8%	17.0%
Total taxes as a percentage of net income before deduction of total taxes	27.5%	32.3%

(1) Premium taxes include investment income tax.

## 2. Items related to Statement of Financial Position

### i. Changes in Liabilities and Shareholders' Equity

Insurance contract liabilities balances before Other policy liabilities of \$123.9 billion as at December 31, 2019 increased by \$9.0 billion compared to December 31, 2018, mainly due to changes in balances on in-force policies (which include fair value changes on FVTPL assets supporting insurance contract liabilities) and balances arising from new policies, partially offset by the impacts of foreign exchange translation.

Total shareholders' equity, including preferred share capital, was \$23.4 billion as at December 31, 2019, compared to \$23.7 billion as at December 31, 2018. The decrease of \$0.3 billion in total shareholders' equity was primarily due to:

- (i) common share dividend payments of \$1,236 million;
- (ii) the impact related to the BGO acquisition of \$875 million;
- (iii) a decrease of \$592 million from the repurchase and cancellation of common shares; and
- (iv) a decrease of \$564 million from the impacts of foreign exchange translation; largely offset by
- (v) shareholders' net income of \$2,713 million in 2019, before preferred share dividends of \$95 million; and
- (vi) net unrealized gains on AFS assets in OCI of \$369 million.

### ii. Off-Balance Sheet Arrangements

In the normal course of business, we are engaged in a variety of financial arrangements. The principal purposes of these arrangements are to earn management fees and additional spread on a matched book of business and to reduce financing costs.

While most of these activities are reflected on our balance sheet with respect to assets and liabilities, certain of them are either not recorded on our balance sheet or are recorded on our balance sheet in amounts that differ from the full contract or notional amounts. The types of off-balance sheet activities we undertake primarily include asset securitizations and securities lending.

(1) Our effective income tax rate on underlying net income is calculated using underlying net income and income tax expense associated with underlying net income, which excludes amounts attributable to participating policyholders.

## Asset Securitizations

In the past, we sold mortgage or bond assets to non-consolidated structured entities, which may also purchase investment assets from third parties. Our securitized AUM held by these non-consolidated structured entities were less than \$1 million as at December 31, 2019 and December 31, 2018.

However, the majority of our securitization activities are recorded on our Consolidated Statements of Financial Position. We securitize multi-residential mortgages under the National Housing Act Mortgage-Backed Securities program sponsored by the CMHC. The securitization of the multi-residential mortgages with the CMHC does not qualify for de-recognition and remains on our Consolidated Statements of Financial Position. Additional information on this program can be found in Note 5 to our 2019 Annual Consolidated Financial Statements.

## Securities Lending

We lend securities in our investment portfolio to other institutions for short periods to generate additional fee income. We conduct our program only with well-established, reputable banking institutions that carry a minimum credit rating of "AA". Collateral, which exceeds the fair value of the loaned securities, is deposited by the borrower with a lending agent, usually a securities custodian, and maintained by the lending agent until the underlying security has been returned to us. We monitor the fair value of the loaned securities on a daily basis with additional collateral obtained or refunded as the fair value fluctuates. Certain arrangements allow us to invest the cash collateral received for the securities loaned. Loaned securities are recognized in our Consolidated Statements of Financial Position as Invested Assets. As at December 31, 2019, we loaned securities with a carrying value of \$2.0 billion for which the collateral held was \$2.1 billion. This compares to loaned securities of \$2.2 billion, with collateral of \$2.3 billion as at December 31, 2018.

## iii. Goodwill and Intangibles Impairment

The Company completed its annual goodwill and indefinite life intangible asset impairment testing in the fourth quarter of 2019. There were no goodwill impairment charges in 2019 or 2018. Impairment charges on intangible assets of \$15 million were recognized in 2019 and there were no impairment charges in 2018.

## iv. Commitments, Guarantees, Contingencies and Reinsurance Matters

In the normal course of business, we enter into leasing agreements, outsourcing arrangements and agreements involving indemnities to third parties. We are also engaged in arbitration proceedings from time to time with certain companies that have contracts to provide reinsurance to the Company. Information regarding our commitments, guarantees and contingencies are summarized in Note 23 to our 2019 Annual Consolidated Financial Statements. A table summarizing our significant financial liabilities and contractual obligations can be found in this MD&A in the section J - Risk Management - 9 - Risk Categories - vi - Liquidity Risk.

## 3. Fourth Quarter 2019 Profitability

The following table reconciles our net income measures and sets out the impacts that other notable items had on our net income in the fourth quarter of 2019 and 2018. All factors discussed in this document that impact our underlying net income are also applicable to reported net income.

	Q4'19	Q4'18
(\$ millions, after-tax)		
Reported net income	719	580
Less: Market-related impacts <sup>(1)</sup>	18	(153)
Assumption changes and management actions <sup>(1)</sup>	(15)	13
Other adjustments <sup>(1)</sup>	(76)	2
Underlying net income <sup>(2)</sup>	792	718
Reported ROE <sup>(2)</sup>	13.6%	10.9%
Underlying ROE <sup>(2)</sup>	15.0%	13.6%
Experience-related items <sup>(3)</sup>		
Investing activity	34	28
Credit	47	23
Mortality	(3)	(11)
Morbidity	(47)	(12)
Lapse and other policyholder behaviour	(6)	(4)
Expenses	(45)	(26)
Other experience	(6)	44

(1) Represents an adjustment made to arrive at a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.

(2) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

(3) Experience-related items reflect the difference between actual experience during the reporting period and best estimate assumptions used in the determination of our insurance contract liabilities.

Reported net income increased by \$139 million or 24% in the fourth quarter of 2019 compared to the same period in 2018, driven by favourable market-related impacts, primarily from equity markets, partially offset by higher fair value adjustments on MFS's share-based payment awards, unfavourable ACMA impacts and higher acquisition, integration and restructuring costs. Underlying net income increased by \$74 million or 10%, driven by business growth, tax benefits in Corporate and favourable credit experience, partially offset by unfavourable morbidity experience in Canada and unfavourable expense experience, predominantly resulting from higher incentive compensation costs reported in Corporate.

In the fourth quarter of 2019, our effective income tax rates on reported net income and underlying net income were 10.8% and 13.9%, respectively.

## Performance by Business Group - Fourth Quarter

We manage our operations and report our financial results in five business segments. The following section describes the operations and financial performance of Canada, U.S., Asset Management, Asia and Corporate.

The following table sets out the differences between our reported net income (loss) and underlying net income (loss) by business group.

(\$ millions, after-tax)	Q4'19					
	Canada	U.S.	Asset Management	Asia	Corporate	Total
Reported net income (loss)	275	131	228	136	(51)	719
Less: Market-related impacts <sup>(1)</sup>	6	–	–	5	7	18
Assumption changes and management actions <sup>(1)</sup>	(1)	(3)	–	(11)	–	(15)
Other adjustments <sup>(1)</sup>	6	(3)	(53)	(1)	(25)	(76)
Underlying net income (loss) <sup>(2)</sup>	264	137	281	143	(33)	792

(\$ millions, after-tax)	Q4'18					
	Canada	U.S.	Asset Management	Asia	Corporate	Total
Reported net income (loss)	96	118	244	125	(3)	580
Less: Market-related impacts <sup>(1)</sup>	(134)	5	–	(22)	(2)	(153)
Assumption changes and management actions <sup>(1)</sup>	(14)	–	–	9	18	13
Other adjustments <sup>(1)</sup>	(1)	(8)	17	(2)	(4)	2
Underlying net income (loss) <sup>(2)</sup>	245	121	227	140	(15)	718

(1) Represents an adjustment made to arrive at a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.

(2) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

### Canada

Canada's reported net income increased by \$179 million in the fourth quarter of 2019 compared to the same period in 2018, driven by favourable market-related impacts, predominantly from equity markets, and less unfavourable ACMA. Underlying net income increased by \$19 million or 8%, driven by business growth, higher investing activity, favourable credit experience, higher AFS gains and favourable mortality experience, partially offset by unfavourable morbidity experience in GB and a mortgage impairment.

### U.S.

U.S.'s reported net income increased by US\$10 million (\$13 million) or 11% (11%) in the fourth quarter of 2019 compared to the same period in 2018. Market-related impacts, ACMA and integration costs were in line with the same period last year. Underlying net income increased by US\$13 million (\$16 million) or 14% (13%), driven by favourable morbidity experience and higher AFS gains, partially offset by unfavourable mortality experience in In-force Management. The impacts of foreign exchange translation were in line with the prior year for reported net income and underlying net income.

The after-tax profit margin for Group Benefits<sup>(1)</sup> was 7.3% as of the fourth quarter of 2019, compared to 6.7% as of the fourth quarter of 2018.

### Asset Management

Asset Management's reported net income decreased by \$16 million or 7% in the fourth quarter of 2019 compared to the same period in 2018, reflecting higher fair value adjustments on MFS's share-based payment awards. Underlying net income increased by \$54 million or 24%, driven by higher ANA in MFS and higher income in SLC Management from the BGO acquisition that closed in 2019. The impacts of foreign exchange translation were in line with the prior year for reported net income and underlying net income.

In U.S. dollars, MFS's reported net income was US\$173 million in the fourth quarter of 2019, a decrease of US\$16 million or 8% compared to the same period in 2018, reflecting higher fair value adjustments on MFS's share-based payment awards. Underlying net income was US\$201 million in the fourth quarter of 2019, an increase of US\$34 million or 20%, driven by higher ANA. Pre-tax net operating profit margin ratio for MFS<sup>(1)</sup> for the fourth quarter of 2019 was 40%, compared to 38% for the fourth quarter of 2018.

SLC Management's reported net loss was \$1 million in the fourth quarter of 2019, an improvement of \$4 million compared to the same period in 2018, reflecting higher acquisition and integration costs related to the BGO acquisition and the pending InfraRed transaction. Underlying net income was \$15 million in the fourth quarter of 2019, an increase of \$9 million, driven by net income from the BGO acquisition that closed in 2019.

### Asia

Asia's reported net income increased by \$11 million or 9% in the fourth quarter of 2019 compared to the same period in 2018, driven by favourable market-related impacts, predominantly from equity markets, largely offset by unfavourable ACMA impacts. Underlying net income

(1) Based on underlying net income, on a trailing four quarters basis, and which is described in section L - Non-IFRS Financial Measures in this document.

increased by \$3 million or 2%, driven by business growth, favourable lapse and other policyholder behaviour experience and lower new business strain, partially offset by unfavourable joint venture experience and other investment-related experience. The impacts of foreign exchange translation increased reported net income and underlying net income by \$1 million and \$2 million, respectively.

#### Corporate

Corporate's reported net loss increased by \$48 million in the fourth quarter of 2019 compared to the same period in 2018, reflecting restructuring costs and the impacts of favourable ACMA in 2018 relating to the termination of assumed business, partially offset by favourable market-related impacts, predominantly from interest rates. Underlying net loss increased by \$18 million, reflecting unfavourable expense experience, lower earnings from the run-off businesses and higher project spend including the adoption of IFRS 17, partially offset by tax benefits. The impacts of foreign exchange translation decreased reported net income by \$1 million and were in line with the prior year for underlying net income.

### 4. Fourth Quarter 2019 Growth

Revenue was \$8.5 billion in the fourth quarter of 2019, an increase of \$345 million or 4% compared to the same period in 2018, driven by increased net premium revenue and fee income, partially offset by larger decreases in the fair value of FVTPL assets. For FVTPL assets, in the fourth quarter of 2019, equity markets were largely stable and the impact of interest rate increases was significant, whereas the fourth quarter of 2018 saw minimal losses as the impact from equity markets was largely offset by the impact of interest rate declines. The impacts of foreign exchange translation increased revenue by \$9 million. Adjusted revenue was \$10.0 billion in the fourth quarter of 2019, an increase of \$1.6 billion or 19% compared to the same period in 2018, driven by increased net premium revenue in Canada, Asia and the U.S. and fee income.

Premiums and deposits was \$51.4 billion in the fourth quarter of 2019, an increase of \$9.9 billion or 24% compared to the same period in 2018, driven by increased mutual fund sales, managed fund sales, net premium revenue and segregated fund deposits. The impacts of foreign exchange translation increased total premiums and deposits by \$3 million. Adjusted premiums and deposits was \$51.5 billion in the fourth quarter of 2019, an increase of \$9.9 billion or 24% compared to the same period in 2018, driven by increased mutual fund, managed fund sales, net premium revenue and segregated fund deposits.

### 5. Previous Quarters

The following table provides a summary of our results for the eight most recently completed quarters. A more complete discussion of our historical quarterly results can be found in our interim and annual MD&A for the relevant periods.

(\$ millions, unless otherwise noted)	Quarterly results							
	Q4'19	Q3'19	Q2'19	Q1'19	Q4'18	Q3'18	Q2'18	Q1'18
Total revenue	8,525	9,616	10,146	11,392	8,180	5,998	6,826	5,993
Common shareholders' net income (loss)								
Reported	719	681	595	623	580	567	706	669
Underlying <sup>(1)</sup>	792	809	739	717	718	730	729	770
Diluted EPS (\$)								
Reported	1.22	1.15	1.00	1.04	0.96	0.93	1.16	1.09
Underlying <sup>(1)</sup>	1.34	1.37	1.24	1.20	1.19	1.20	1.20	1.26
Basic reported EPS (\$)								
Reported	1.22	1.15	1.00	1.04	0.96	0.94	1.16	1.10
Reported net income (loss) by segment								
Canada	275	223	148	237	96	335	262	249
U.S.	131	(186)	94	124	118	(267)	105	96
Asset Management	228	221	229	219	244	241	214	210
Asia	136	170	134	80	125	164	133	133
Corporate	(51)	253	(10)	(37)	(3)	94	(8)	(19)
Total reported net income (loss)	719	681	595	623	580	567	706	669
Underlying net income (loss) by segment <sup>(1)</sup>								
Canada <sup>(1)</sup>	264	268	243	237	245	251	245	295
U.S. <sup>(1)</sup>	137	135	110	150	121	139	125	129
Asset Management <sup>(1)</sup>	281	251	245	227	227	251	216	231
Asia <sup>(1)</sup>	143	138	147	122	140	110	145	128
Corporate <sup>(1)</sup>	(33)	17	(6)	(19)	(15)	(21)	(2)	(13)
Total underlying net income (loss) <sup>(1)</sup>	792	809	739	717	718	730	729	770

(1) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

#### Third Quarter 2019

Reported net income increased by \$114 million or 20% in the third quarter of 2019 compared to the same period in 2018, driven by improved impacts from ACMA, partially offset by unfavourable market-related impacts, predominantly from interest rates, and higher acquisition costs

related to our acquisition of a majority stake in BentallGreenOak. Underlying net income increased by \$79 million or 11% in the third quarter of 2019, compared to the same period in 2018, which includes the favourable impact of tax matters from prior years of \$78 million - \$58 million in Corporate and \$20 million in Canada. Underlying net income also reflected business growth, favourable credit experience, a gain from a mortgage investment prepayment in the U.S. and higher available-for-sale gains, offset by unfavourable morbidity experience in Canada and the U.S., and lower investing activity gains.

#### **Second Quarter 2019**

Reported net income of \$595 million in the second quarter of 2019 decreased \$111 million compared to the second quarter of 2018, primarily reflecting unfavourable market-related and ACMA impacts. Underlying net income in the second quarter of 2019 increased \$10 million to \$739 million compared to the same period in 2018, primarily driven by business growth, favourable expense experience and benefits from tax-related items primarily in the U.S., partially offset by unfavourable morbidity experience in Canada and the U.S., lower new business gains in International in Asia and lower AFS gains in the U.S.

#### **First Quarter 2019**

Reported net income of \$623 million in the first quarter of 2019 decreased \$46 million from the first quarter of 2018, while underlying net income decreased \$53 million to \$717 million. This variance was primarily due to interest on par seed capital of \$110 million in the first quarter of 2018 and unfavourable credit experience, partially offset by favourable mortality, lapse and other policyholder behaviour, investing activity gains, morbidity experience and other experience.

#### **Fourth Quarter 2018**

Reported net income was \$580 million in the fourth quarter of 2018, an increase compared to the same quarter in 2017, reflecting the \$251 million charge in 2017 related to the enactment of the U.S. Tax Cuts and Jobs Act, positive impacts from other adjustments and ACMA, partially offset by market-related impacts. Underlying net income in the fourth quarter of 2018 increased to \$718 million compared to 2017, driven by the effect of the lower income tax rate in the U.S., favourable expense experience that resulted from ongoing expense management and lower incentive compensation costs, and other experience, partially offset by mortality and morbidity experience.

#### **Third Quarter 2018**

Reported net income was \$567 million in the third quarter of 2018, reflecting a \$269 million unfavourable change in ACMA compared to the same quarter in 2017. Underlying net income was \$730 million, primarily driven by strong business growth, the lower income tax rate in the U.S. and higher investment income on surplus assets, partially offset by new business strain.

#### **Second Quarter 2018**

Reported net income was \$706 million in the second quarter of 2018, reflecting an \$82 million favourable change in market-related impacts compared to the same quarter in 2017. Underlying net income was \$729 million, primarily driven by strong business growth and favourable morbidity experience, partially offset by expenses, credit experience and the impacts of investment activity on insurance contract liabilities.

#### **First Quarter 2018**

Reported net income was \$669 million in the first quarter of 2018, reflecting a \$79 million unfavourable change in market-related impacts compared to the same quarter in 2017. Underlying net income was \$770 million, primarily driven by interest on par seed capital of \$110 million, strong business growth, the lower income tax rate in the U.S., as well as the impacts of investment activity on insurance contract liabilities, partially offset by weaker mortality and lapse experience.

## **L. Non-IFRS Financial Measures**

### **i. Underlying Net Income and Underlying EPS**

Underlying net income (loss) and financial measures based on underlying net income (loss), including underlying EPS or underlying loss per share, and underlying ROE, are non-IFRS financial measures. Underlying net income (loss) removes from reported net income (loss) the impacts of the following items that create volatility in our results under IFRS and when removed assist in explaining our results from period to period:

- (a) market-related impacts that differ from our best estimate assumptions, which include: (i) impacts of returns in equity markets, net of hedging, for which our best estimate assumptions are approximately 2% per quarter. This also includes the impact of the basis risk inherent in our hedging program, which is the difference between the return on underlying funds of products that provide benefit guarantees and the return on the derivative assets used to hedge those benefit guarantees; (ii) the impacts of changes in interest rates in the reporting period and on the value of derivative instruments used in our hedging programs including changes in credit and swap spreads, and any changes to the assumed fixed income reinvestment rates in determining the actuarial liabilities; and (iii) the impacts of changes in the fair value of investment properties in the reporting period;
- (b) assumption changes and management actions, which include: (i) the impacts of revisions to the methods and assumptions used in determining our liabilities for insurance contracts and investment contracts and (ii) the impacts on insurance contracts and investment contracts of actions taken by management in the current reporting period, referred to as management actions which include, for example, changes in the prices of in-force products, new or revised reinsurance on in-force business, and material changes to investment policies for assets supporting our liabilities; and
- (c) Other adjustments:
  - (i) certain hedges in Canada that do not qualify for hedge accounting - this adjustment enhances the comparability of our net income from period to period, as it reduces volatility to the extent it will be offset over the duration of the hedges;
  - (ii) fair value adjustments on MFS's share-based payment awards that are settled with MFS's own shares and accounted for as liabilities and measured at fair value each reporting period until they are vested, exercised and repurchased - this adjustment enhances the comparability of MFS's results with publicly traded asset managers in the United States;
  - (iii) acquisition, integration and restructuring costs (including impacts related to acquiring and integrating acquisitions); and
  - (iv) other items that are unusual or exceptional in nature.

All factors discussed in this document that impact our underlying net income are also applicable to reported net income.

All EPS measures in this document refer to fully diluted EPS, unless otherwise stated. As noted below, underlying EPS excludes the dilutive impacts of convertible instruments.

The following table sets out the amounts that were excluded from our underlying net income (loss) and underlying EPS, and provides a reconciliation to our reported net income (loss) and EPS based on IFRS. A reconciliation of our underlying net income to our reported net income for the fourth quarters of 2019 and 2018 is provided in this MD&A in section K - Additional Financial Disclosure - 3 - Fourth Quarter 2019 Profitability.

## Reconciliations of Select Net Income Measures

(\$ millions, unless otherwise noted)	2019	2018	2017
Reported net income	2,618	2,522	2,149
Market-related impacts			
Equity market impacts			
Impacts from equity market changes	120	(159)	68
Basis risk impacts	7	(15)	(6)
Equity market impacts	127	(174)	62
Interest rate impacts <sup>(1)</sup>			
Impacts of interest rate changes	(307)	(116)	(79)
Impacts of credit spread movements	(45)	56	(54)
Impacts of swap spread movements	4	(31)	(24)
Interest rate impacts	(348)	(91)	(157)
Impacts of changes in the fair value of investment properties	(16)	77	88
Less: Market-related impacts	(237)	(188)	(7)
Less: Assumption changes and management actions	(46)	(155)	81
Other adjustments			
Certain hedges in Canada that do not qualify for hedge accounting	(5)	5	(16)
Fair value adjustments on MFS's share-based payment awards	(64)	(5)	(81)
Acquisition, integration and restructuring <sup>(2)</sup>	(87)	(82)	(123)
Less: Total of other adjustments	(156)	(82)	(220)
Less: U.S. tax reform <sup>(3)</sup>	–	–	(251)
Underlying net income	3,057	2,947	2,546
Reported EPS (diluted) (\$)	4.40	4.14	3.49
Less: Market-related impacts (\$)	(0.39)	(0.31)	(0.01)
Assumption changes and management actions (\$)	(0.08)	(0.26)	0.13
Certain hedges in Canada that do not qualify for hedge accounting (\$)	(0.01)	0.01	(0.03)
Fair value adjustments on MFS's share-based payment awards (\$)	(0.11)	(0.01)	(0.13)
Acquisition, integration and restructuring (\$)	(0.15)	(0.14)	(0.20)
U.S. tax reform (\$)	–	–	(0.41)
Impact of convertible securities on diluted EPS (\$)	(0.02)	(0.01)	(0.01)
Underlying EPS (diluted) (\$)	5.16	4.86	4.15

- (1) Our exposure to interest rates varies by product type, line of business, and geography. Given the long-term nature of our business, we have a higher degree of sensitivity in respect of interest rates at long durations.
- (2) 2019 amounts includes acquisition costs for the BGO acquisition and the pending InfraRed transaction, which includes the unwinding of the discount for the Put option and Deferred payments liability of \$16 million. As a result of various initiatives to simplify our organizational structure and drive efficiencies, we also recorded a restructuring charge of \$25 million in the fourth quarter of 2019.
- (3) The U.S. Tax Cuts and Jobs Act ("U.S. tax reform") legislation signed into law on December 22, 2017, which took effect on January 1, 2018, included a reduction to the U.S. corporate tax rate from 35% to 21% for tax years beginning after 2017, and a number of base broadening measures including provisions limiting the deductibility of certain payments to related foreign taxpayers. Interpretive guidance on the base broadening provisions was issued by the U.S. Treasury late in 2018, however it is in the form of Proposed Regulations and is subject to change. As a result of this legislation, the Company recorded a net charge of \$251 million (\$444 million pre-tax) in the fourth quarter of 2017. This reflected an after-tax charge of \$288 million (\$444 million pre-tax) to ACMA, and a one-time charge on the deemed repatriation of foreign earnings of \$46 million. These are partially offset by a benefit of \$83 million relating to the revaluation of deferred tax balances from 35% to 21%, the \$83 million excludes \$(30) million relating to the net impact on deferred tax balances attributable to participating policyholders. ACMA in 2017 excludes the \$(288) million change that is included in U.S. tax reform, shown separately.

The following table shows the pre-tax amount of underlying net income adjustments:

(\$ millions, unless otherwise noted)	2019	2018	2017
Reported net income (after tax)	2,618	2,522	2,149
Underlying net income adjustments (pre-tax):			
Less: Market-related impacts <sup>(1)</sup>	(383)	(179)	(79)
Assumption changes and management actions <sup>(1)(2)</sup>	(127)	(246)	(61)
Other adjustments <sup>(1)</sup>	(237)	(150)	(297)
U.S. tax reform <sup>(1)(2)</sup>	–	–	(444)
Total underlying net income adjustments (pre-tax)	(747)	(575)	(881)
Tax-related to underlying net income adjustments	308	150	484
Underlying net income <sup>(3)</sup> (after tax)	3,057	2,947	2,546

(1) Represents an adjustment made to arrive at a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document for a breakdown of components within this adjustment.

(2) In 2017, U.S. tax reform of \$(444) million (pre-tax) is shown separately, and is excluded from ACMA of \$(61) million (pre-tax).

(3) Represents a non-IFRS financial measure. See section L - Non-IFRS Financial Measures in this document.

Tax related to underlying net income adjustments may vary from the expected effective tax rate range reflecting the mix of business based on the Company's international operations. The aggregate tax effect depends on whether the underlying adjustment increases and reductions to pre-tax income occurred in high or low tax jurisdictions.

## ii. Additional Non-IFRS Measures

Management also uses the following non-IFRS financial measures:

**Return on equity.** IFRS does not prescribe the calculation of ROE and therefore a comparable measure under IFRS is not available. To determine reported ROE and underlying ROE, respectively, reported net income (loss) and underlying net income (loss) is divided by the total weighted average common shareholders' equity for the period. The quarterly ROE is annualized.

**Financial leverage ratio.** This total debt to total capital ratio is ratio of debt plus preferred shares to total capital, where debt consists of all capital qualifying debt securities. Capital qualifying debt securities consist of subordinated debt and innovative capital instruments.

**Dividend payout ratio.** This is the ratio of dividends paid per share to diluted underlying EPS for the period.

**Sales.** In Canada, insurance sales consist of sales of individual insurance and group benefits products; wealth sales consist of sales of individual wealth products and sales in GRS. In the U.S., insurance sales consist of sales by Group Benefits. In Asia, insurance sales consist of the individual and group insurance sales by our subsidiaries and joint ventures and associates, based on our proportionate equity interest, in the Philippines, Hong Kong, Indonesia, India, China, Malaysia, and Vietnam and sales from our International business unit; wealth sales consist of Hong Kong wealth sales, Philippines mutual fund sales, wealth sales by our India and China insurance joint ventures and associates, and Aditya Birla Sun Life AMC Limited's equity and fixed income mutual fund sales based on our proportionate equity interest, including sales as reported by our bank distribution partners. Asset Management sales consist of gross sales (inflows) for retail and institutional Clients; unfunded commitments are not included in sales. Sales are also expressed on a constant currency basis, which is a measure of sales that provides greater comparability across reporting periods by excluding the impact of exchange rate fluctuations from the translation of functional currencies to the Canadian dollar. There is no directly comparable IFRS measure.

**Value of New Business.** VNB represents the present value of our best estimate of future distributable earnings, net of the cost of capital, from new business contracts written in a particular time period, except new business in our Asset Management pillar. The assumptions used in the calculations are generally consistent with those used in the valuation of our insurance contract liabilities except that discount rates used approximate theoretical return expectations of an equity investor. Capital required is based on the higher of Sun Life Assurance's LICAT operating target and local (country specific) operating target capital. VNB is a useful metric to evaluate the present value created from new business contracts. There is no directly comparable IFRS measure.

**Adjusted revenue.** This measure is an alternative measure of revenue that provides greater comparability across reporting periods, by excluding the impacts of: (i) exchange rate fluctuations, from the translation of functional currencies to the Canadian dollar, for comparisons ("Constant Currency Adjustment"); (ii) Fair value and foreign currency changes on assets and liabilities ("FV Adjustment"); and (iii) reinsurance for the insured business in Canada's GB operations ("Reinsurance in Canada's GB Operations Adjustment").

(\$ millions)	2019	2018	2017
Revenue	39,679	26,997	29,334
Less: Constant Currency Adjustment	349	–	(34)
FV Adjustment	7,118	(3,373)	2,603
Reinsurance in Canada's GB Operations Adjustment	(580)	(602)	(3,026)
Adjusted revenue	32,792	30,972	29,791

**Adjusted premiums and deposits.** This measure is an alternative measure of premiums and deposits that provides greater comparability across reporting periods by excluding the impacts of: (i) the Constant Currency Adjustment; and (ii) the Reinsurance in Canada's GB Operations Adjustment.

(\$ millions)	2019	2018	2017
Premiums and deposits	183,946	160,108	164,680
Less: Constant Currency Adjustment	3,426	-	809
Reinsurance in Canada's GB Operations Adjustment	(580)	(602)	(3,026)
Adjusted premiums and deposits	181,100	160,710	166,897

**Pre-tax net operating profit margin ratio for MFS.** This ratio is a measure of the profitability of MFS, which excludes the impact of fair value adjustments on MFS's share-based payment awards, investment income, and certain commission expenses that are offsetting. These commission expenses are excluded in order to neutralize the impact these items have on the pre-tax net operating profit margin ratio and have no impact on the profitability of MFS. There is no directly comparable IFRS measure.

**After-tax profit margin for U.S. Group Benefits.** This ratio assists in explaining our results from period to period and is a measure of profitability that expresses U.S. employee benefits and medical stop-loss underlying net income as a percentage of net premiums. This ratio is calculated by dividing underlying net income (loss) by net premiums for the trailing four quarters. There is no directly comparable IFRS measure.

**Impacts of foreign exchange translation.** Items impacting our Consolidated Statements of Operations, such as Revenue, Benefits and expenses, and Total net income (loss), are translated into Canadian dollars using average exchange rates for the respective period. For items impacting our Consolidated Statements of Financial Position, such as Assets and Liabilities, period end rates are used for currency translation purposes.

Several IFRS financial measures are presented on a constant currency adjusted basis to exclude the impacts of foreign exchange translation. These measures are calculated using the average or period end foreign exchange rates, as appropriate, in effect at the date of the comparative period.

**Assumption changes and management actions.** In this document, the impacts of ACMA on shareholders' net income (after-tax) is included in reported net income and is excluded in calculating underlying net income, as described in Section D - Profitability in this document.

Note 10.A of our 2019 Annual Consolidated Financial Statements shows the pre-tax impacts of method and assumption changes on shareholders' and participating policyholders' insurance contract liabilities net of reinsurance assets, excluding changes in other policy liabilities and assets.

The view in this document of ACMA is the impacts on shareholders' reported net income (after tax). The Annual Consolidated Financial Statement view is a component of the change in total company liabilities. The following table provides a reconciliation of the differences between the two measures:

(\$ millions)	2019	2018	2017
Impacts of method and assumption changes on insurance contract liabilities (pre-tax) <sup>(1)</sup>	(13)	278	173
Less: Participating policyholders <sup>(2)</sup>	1	533	181
Impacts of method and assumption changes excluding participating policyholders (pre-tax)	(14)	(255)	(8)
Less: Tax	(59)	(90)	(51)
Impacts of method and assumption changes excluding participating policyholders (after-tax)	45	(165)	43
Add: Management actions (after-tax) <sup>(3)</sup>	19	23	(243)
Other (after-tax) <sup>(4)</sup>	(110)	(13)	(7)
Assumption changes and management actions (after-tax) <sup>(5)(6)(7)</sup>	(46)	(155)	(207)

- (1) Note 10.A of our 2019 Annual Consolidated Financial Statements shows the pre-tax impacts of method and assumption changes on shareholders' and participating policyholders' insurance contract liabilities net of reinsurance assets, excluding changes in other policy liabilities and assets. The amount shown in the table above is the shareholders' income impacts related to the amount shown in Note 10.A of our 2019 Annual Consolidated Financial Statements.
- (2) Adjustment to remove the pre-tax impacts of method and assumption changes on amounts attributed to participating policyholders.
- (3) Adjustment to include the after-tax impacts of management actions on insurance contract liabilities and investment contract liabilities which include, for example, changes in the prices of in-force products, new or revised reinsurance on in-force business, and material changes to investment policies for assets supporting our liabilities. In the second quarter of 2017, management actions were mainly in U.S., primarily comprised of the expected impact of recapturing certain reinsurance treaties and the expected cost of reinsurance in certain other treaties.
- (4) Adjustments to include the after-tax impacts of method and assumption changes on investment contracts and other policy liabilities.
- (5) Includes the tax impacts of assumption changes and management actions on insurance contract liabilities and investment contract liabilities, reflecting the tax rates in the jurisdictions in which we do business.
- (6) ACMA is included in reported net income and is excluded in calculating underlying net income, as described in section D - Profitability - 2019 vs. 2018 in this document.
- (7) In 2017, the impact on reported net income of an increase of \$81 million is presented as an adjustment to arrive at underlying net income as Assumption changes and management actions. The impact on reported net income of a decrease of \$288 million (\$444 million pre-tax) related to the U.S. tax legislation changes enacted on December 22, 2017, included in the \$(207) million above, is included as part of the U.S. tax reform impact that is reported separately as an adjustment to arrive at underlying net income (see section L - Non-IFRS Financial Measures in this document).

**Real estate market sensitivities.** Real estate market sensitivities are non-IFRS financial measures for which there are no directly comparable measures under IFRS so it is not possible to provide a reconciliation of these amounts to the most directly comparable IFRS measures.

**Other.** Management also uses the following non-IFRS financial measures for which there are no comparable financial measures in IFRS: (i) ASO premium and deposit equivalents, mutual fund sales, managed fund sales, insurance sales, and total premiums and deposits; (ii) AUM, mutual fund assets, managed fund assets, other AUM, and assets under administration; (iii) the VNB, which is used to measure the estimated lifetime profitability of new sales and is based on actuarial calculations; and (iv) ACMA, which is a component of our sources of earnings disclosure. Sources of earnings is an alternative presentation of our Consolidated Statements of Operations that identifies and quantifies various sources of income. The Company is required to disclose its sources of earnings by its principal regulator, OSFI.

## M. Accounting and Control Matters

### 1. Critical Accounting Policies and Estimates

Our significant accounting and actuarial policies are described in Notes 1, 2, 3, 5, 6, 7 and 10 of our 2019 Annual Consolidated Financial Statements. Management must make judgments involving assumptions and estimates, some of which may relate to matters that are inherently uncertain, under these policies. The estimates described below are considered particularly significant to understanding our financial performance. As part of our financial control and reporting, judgments involving assumptions and estimates are reviewed by the independent auditor and by other independent advisors on a periodic basis. Accounting policies requiring estimates are applied consistently in the determination of our financial results.

#### Benefits to Policyholders

##### **General**

The liabilities for insurance contracts represent the estimated amounts which, together with estimated future premiums and net investment income, will provide for outstanding claims, estimated future benefits, policyholders' dividends, taxes (other than income taxes), and expenses on in-force insurance contracts.

In determining our liabilities for insurance contracts, assumptions must be made about mortality and morbidity rates, lapse and other policyholder behaviour, interest rates, equity market performance, asset default, inflation, expenses, and other factors over the life of our products. Most of these assumptions relate to events that are anticipated to occur many years in the future. Assumptions require significant judgment and regular review and, where appropriate, revision.

We use best estimate assumptions for expected future experience and apply margins for adverse deviations to provide for uncertainty in the choice of the best estimate assumptions. The amount of insurance contract liabilities related to the application of margins for adverse deviations to best estimate assumptions is called a provision for adverse deviations.

##### **Best Estimate Assumptions**

Best estimate assumptions are intended to be current, neutral estimates of the expected outcome as guided by Canadian actuarial standards of practice. The choice of best estimate assumptions takes into account current circumstances, past experience data (Company and/or industry), the relationship of past to expected future experience, anti-selection, the relationship among assumptions, and other relevant factors. For assumptions on economic matters, the assets supporting the liabilities and the expected policy for asset-liability management are relevant factors.

##### **Margins for Adverse Deviations**

The appropriate level of margin for adverse deviations on an assumption is guided by Canadian actuarial standards of practice. For most assumptions, the standard range of margins for adverse deviations is 5% to 20% of the best estimate assumption, and the actuary chooses from within that range based on a number of considerations related to the uncertainty in the determination of the best estimate assumption. The level of uncertainty, and hence the margin chosen, will vary by assumption and by line of business and other factors. Considerations that would tend to indicate a choice of margin at the high end of the range include:

- The statistical credibility of the Company's experience is too low to be the primary source of data for choosing the best estimate assumption
- Future experience is difficult to estimate
- The cohort of risks lacks homogeneity
- Operational risks adversely impact the ability to estimate the best estimate assumption
- Past experience may not be representative of future experience and the experience may deteriorate

Provisions for adverse deviations in future interest rates are included by testing a number of scenarios of future interest rates, some of which are prescribed by Canadian actuarial standards of practice, and determining the liability based on the range of possible outcomes. A scenario of future interest rates includes, for each forecast period between the statement of financial position date and the last liability cash flow, interest rates for risk-free assets, premiums for asset default, rates of inflation, and an investment strategy consistent with the Company's investment policy. The starting point for all future interest rate scenarios is consistent with the current market environment. If few scenarios are tested, the liability would be at least as great as the largest of the outcomes. If many scenarios are tested, the liability would be within a range defined by the average of the outcomes that are above the 60th percentile of the range of outcomes and the corresponding average for the 80th percentile.

Provisions for adverse deviations in future equity returns are included by scenario testing or by applying margins for adverse deviations. In blocks of business where the valuation of liabilities uses scenario testing of future equity returns, the liability would be within a range defined by the average of the outcomes that are above the 60th percentile of the range of outcomes and the corresponding average for the 80th percentile. In blocks of business where the valuation of liabilities does not use scenario testing of future equity returns, the margin for adverse deviations on common share dividends is between 5% and 20%, and the margin for adverse deviations on capital gains would be 20% plus an assumption that those assets reduce in value by 20% to 50% at the time when the reduction is most adverse. A 30% reduction is appropriate for a diversified portfolio of North American common shares and, for other portfolios, the appropriate reduction depends on the volatility of the portfolio relative to a diversified portfolio of North American common shares.

In choosing margins, we ensure that, when taken one at a time, each margin is reasonable with respect to the underlying best estimate assumption and the extent of uncertainty present in making that assumption, and also that, in aggregate, the cumulative impact of the margins for adverse deviations is reasonable with respect to the total amount of our insurance contract liabilities. Our margins are generally stable over time and are generally only revised to reflect changes in the level of uncertainty in the best estimate assumptions. Our margins tend to be at the high end of the range for expenses and in the mid-range or higher for other assumptions. When considering the aggregate impact of margins, the actuary assesses the consistency of margins for each assumption across each block of business to ensure there is no double

counting or omission and to avoid choosing margins that might be mutually exclusive. In particular, the actuary chooses similar margins for blocks of business with similar characteristics, and also chooses margins that are consistent with other assumptions, including assumptions about economic factors. The actuary is guided by Canadian actuarial standards of practice in making these professional judgments about the reasonableness of margins for adverse deviations.

The best estimate assumptions and margins for adverse deviations are reviewed at least annually and revisions are made when appropriate. The choice of assumptions underlying the valuation of insurance contract liabilities is subject to external actuarial peer review.

### **Critical Accounting Estimates**

Significant factors affecting the determination of policyholders' benefits, the methodology by which they are determined, their significance to the Company's financial condition and results of operations are described below.

#### ***Non-fixed Income Market Movements***

We are exposed to equity markets through our segregated fund products (including variable annuities) that provide guarantees linked to underlying fund performance and through insurance products where the insurance contract liabilities are supported by non-fixed income assets.

For segregated fund products (including variable annuities), we have implemented hedging programs involving the use of derivative instruments to mitigate a large portion of the equity market risk associated with the guarantees. The cost of these hedging programs is reflected in the liabilities. The equity market risk associated with anticipated future fee income is not hedged.

The majority of non-fixed income assets that are designated as FVTPL support our participating and universal life products where investment returns are passed through to policyholders through routine changes in the amount of dividends declared or in the rate of interest credited. In these cases, changes in non-fixed income asset values are largely offset by changes in insurance contract liabilities.

#### ***Interest Rates***

We generally maintain distinct asset portfolios for each major line of business. In the valuation of insurance contract liabilities, the future cash flows from insurance contracts and the assets that support them are projected under a number of interest rate scenarios, some of which are prescribed by Canadian actuarial standards of practice. Reinvestments and disinvestments take place according to the specifications of each scenario, and the liability is set based on the range of possible outcomes.

For certain products, including participating insurance and certain forms of universal life policies and annuities, policyholders share investment performance through routine changes in the amount of dividends declared or in the rate of interest credited. These products generally have minimum interest rate guarantees.

Hedging programs are in place to help mitigate the impact of interest rate movements.

#### ***Mortality***

Mortality refers to the rates at which death occurs for defined groups of people. Life insurance mortality assumptions are generally based on the past five to ten years of experience. Our experience is combined with industry experience where our own experience is insufficient to be statistically valid. Assumed mortality rates for life insurance and annuity contracts include assumptions about future mortality improvement based on recent trends in population mortality and our outlook for future trends.

#### ***Morbidity***

Morbidity refers to both the rates of accident or sickness and the rates of recovery therefrom. Most of our disability insurance is marketed on a group basis. We offer critical illness policies on an individual basis in Canada and Asia, long-term care on an individual basis in Canada, and medical stop-loss insurance is offered on a group basis in the U.S. In Canada, group morbidity assumptions are based on our five-year average experience, modified to reflect any emerging trend in recovery rates. For long-term care and critical illness insurance, assumptions are developed in collaboration with our reinsurers and are largely based on their experience. In the U.S., our experience is used for both medical stop-loss and disability assumptions, with some consideration of industry experience.

#### ***Policy Termination Rates***

Policyholders may allow their policies to lapse prior to the end of the contractual coverage period by choosing not to continue to pay premiums or by surrendering their policy for the cash surrender value. Assumptions for lapse experience on life insurance are generally based on our five-year average experience. Lapse rates vary by plan, age at issue, method of premium payment, and policy duration.

#### ***Premium Payment Patterns***

For universal life contracts, it is necessary to set assumptions about premium payment patterns. Studies prepared by industry or the actuarial profession are used for products where our experience is insufficient to be statistically valid. Premium payment patterns usually vary by plan, age at issue, method of premium payment, and policy duration.

#### ***Expense***

Future policy-related expenses include the costs of premium collection, claims adjudication and processing, actuarial calculations, preparation and mailing of policy statements, and related indirect expenses and overhead. Expense assumptions are mainly based on our recent experience using an internal expense allocation methodology. Inflationary increases assumed in future expenses are consistent with the future interest rates used in scenario testing.

#### ***Asset Default***

As required by Canadian actuarial standards of practice, insurance contract liabilities include a provision for possible future default of the assets supporting those liabilities. The amount of the provision for asset default included in the insurance contract liabilities is based on possible reductions in future investment yield that vary by factors such as type of asset, asset credit quality (rating), duration, and country of origin. The asset default assumptions are comprised of a best estimate plus a margin for adverse deviations, and are intended to provide for loss of both principal and income. Best estimate asset default assumptions by asset category and geography are derived from long-term studies of industry

experience and the Company's experience. Margins for adverse deviation are chosen from the standard range (of 25% to 100%) as recommended by Canadian actuarial standards of practice based on the amount of uncertainty in the choice of best estimate assumption. The credit quality of an asset is based on external ratings if available (public bonds) and internal ratings if not (mortgages and loans). Any assets without ratings are treated as if they are rated below investment grade.

In contrast to asset impairment provisions and changes in FVTPL assets arising from impairments, both of which arise from known credit events, the asset default provision in the insurance contract liabilities covers losses related to possible future (unknown) credit events. Canadian actuarial standards of practice require the asset default provision to be determined taking into account known impairments that are recognized elsewhere on the statement of financial position. The asset default provision included in the insurance contract liabilities is reassessed each reporting period in light of impairments, changes in asset quality ratings, and other events that occurred during the period.

## Sensitivities to Best Estimate Assumptions

The sensitivities presented below are forward-looking statements. They include measures of our estimated shareholders' net income sensitivity to changes in the best estimate assumptions in our insurance contract liabilities based on a starting point and business mix as at December 31, 2019 and as at December 31, 2018, reflecting the update of actuarial method and assumption changes described in this MD&A under the heading Assumption Changes and Management Actions and, where appropriate, taking into account hedging programs in place as at December 31, 2019 and December 31, 2018 described in this MD&A under the heading Market Risk. These sensitivities represent the Company's estimate of changes in best estimate assumptions that are reasonably likely based on the Company's and/or the industry's historical experience and industry standards and best practices as at December 31, 2019 and December 31, 2018. We have also disclosed in the table below the impact of a 50 basis point change in risk free interest rates and 25% and 10% changes in equity markets to illustrate the impact of immediate market shocks.

Changes to the starting point for interest rates, equity market prices and business mix will result in different estimated sensitivities. Additional information regarding equity and interest rate sensitivities, including key assumptions, can be found under the heading J - Risk Management - 9 - Risk Categories - Market Risk Sensitivities in this document. The following table summarizes the impact these sensitivities would have on our shareholders' net income.

Critical Accounting Estimate	Sensitivity	2019	2018
(\$ millions, after-tax)			
Interest Rates	50 basis point parallel decrease in interest rates across the entire yield curve	(150)	(100)
	50 basis point parallel increase in interest rates across the entire yield curve	50	50
Equity Markets	25% decrease across all equity markets	(350)	(300)
	10% decrease across all equity markets	(150)	(100)
	10% increase across all equity markets	100	100
	25% increase across all equity markets	250	250
	1% reduction in assumed future equity and real estate returns	(665)	(560)
Mortality	2% increase in the best estimate assumption for insurance products - where higher mortality would be financially adverse	(35)	(35)
	2% decrease in the best estimate assumption for annuity products - where lower mortality would be financially adverse	(135)	(120)
Morbidity	5% adverse change in the best estimate assumption	(205)	(185)
Policy Termination Rates	10% decrease in the termination rate - where fewer terminations would be financially adverse	(265)	(250)
	10% increase in the termination rate - where more terminations would be financially adverse	(195)	(195)
Operating Expenses and Inflation	5% increase in unit maintenance expenses	(170)	(175)

## Fair Value of Assets and Liabilities

Debt securities, equity securities and certain other invested assets are designated as FVTPL or AFS and are recorded at fair value in our Consolidated Statements of Financial Position. Changes in fair value of assets designated as FVTPL, and realized gains and losses on sale of FVTPL assets are recorded in income. Changes in fair value of AFS assets are recorded in OCI. For foreign currency translation, exchange differences calculated on the amortized cost of AFS debt securities are recognized in income and other changes in carrying amount are recognized in OCI. The exchange differences from the translation of AFS equity securities and other invested assets are recognized in OCI. Net impairment losses and realized gains and losses on sale of AFS assets are reclassified from OCI to income.

The fair value of government and corporate debt securities is determined using quoted prices in active markets for identical or similar securities. When quoted prices in active markets are not available, fair value is determined using market standard valuation methodologies, which include discounted cash flow analysis, consensus pricing from various broker dealers that are typically the market makers, or other similar techniques. The assumptions and valuation inputs in applying these market standard valuation methodologies are determined primarily using observable market inputs, which include, but are not limited to, benchmark yields, reported trades of identical or similar instruments, broker-dealer quotes, issuer spreads, bid prices, and reference data including market research publications. In limited circumstances, non-binding broker quotes are used.

The fair value of asset-backed securities is determined using quoted prices in active markets for identical or similar securities, when available, or valuation methodologies and valuation inputs similar to those used for government and corporate debt securities. Additional valuation inputs include structural characteristics of the securities, and the underlying collateral performance, such as prepayment speeds and delinquencies. Expected prepayment speeds are based primarily on those previously experienced in the market at projected future interest rate levels. In instances where there is a lack of sufficient observable market data to value the securities, non-binding broker quotes are used.

The fair value of equity securities is determined using quoted prices in active markets for identical securities or similar securities. When quoted prices in active markets are not available, fair value is determined using equity valuation models, which include discounted cash flow analysis and other techniques that involve benchmark comparison. Valuation inputs primarily include projected future operating cash flows and earnings, dividends, market discount rates, and earnings multiples of comparable companies.

Mortgages and loans are generally carried at amortized cost. The fair value of mortgages and loans, for disclosure purposes, is determined by discounting the expected future cash flows using a current market interest rate applicable to financial instruments with a similar yield, credit quality and maturity characteristics. Valuation inputs typically include benchmark yields and risk-adjusted spreads from current lending activities or loan issuances. The risk-adjusted spreads are determined based on the borrower's credit and liquidity, as well as term and other loan-specific features. Long-term mortgages and loans are generally categorized in Level 3 of the fair value hierarchy. The significant unobservable input is a portion of these risk adjusted spreads at or beyond the 20 year point for mortgages and at or beyond the 10 year point for loans.

Derivative financial instruments are recorded at fair value with changes in fair value recorded in income unless the derivative is part of a qualifying hedging relationship for accounting purposes. The fair value of derivative financial instruments depends upon derivative types. The fair value of exchange-traded futures and options is determined using quoted prices in active markets, while the fair value of OTC derivatives is determined using pricing models, such as discounted cash flow analysis or other market standard valuation techniques, with primarily observable market inputs. Valuation inputs used to price OTC derivatives may include swap interest rate curves, foreign exchange spot and forward rates, index prices, the value of underlying securities, projected dividends, volatility surfaces, and in limited circumstances, counterparty quotes.

The fair value of OTC derivative financial instruments also includes credit valuation adjustments to reflect the credit risk of both the derivative counterparty and ourselves as well as the impact of contractual factors designed to reduce our credit exposure, such as collateral and legal rights of offset under master netting agreements. Inputs into determining the appropriate credit valuation adjustments are typically obtained from publicly available information and include credit default swap spreads when available, credit spreads derived from specific bond yields, or published cumulative default experience data adjusted for current trends when credit default swap spreads are not available.

The fair value of other invested assets is determined using quoted prices in active markets for identical securities or similar securities. When quoted prices in active markets are not available, fair value is determined using equity valuation models, which include discounted cash flow analysis and other techniques that involve benchmark comparison. Valuation inputs primarily include projected future operating cash flows and earnings, dividends, market discount rates, and earnings multiples of comparable companies.

Investment properties are recorded at fair value with changes in fair value recorded in income. The fair value of investment properties is generally determined using property valuation models that are based on expected capitalization rates and models that discount expected future net cash flows at current market interest rates reflective of the characteristics, location, and market of each property. Expected future net cash flows include contractual and projected cash flows and forecasted operating expenses, and take into account interest, rental and occupancy rates derived from market surveys. The estimates of future cash inflows, in addition to expected rental income from current leases, include projected income from future leases based on significant assumptions that are consistent with current market conditions. The future rental rates are estimated based on the location, type and quality of the properties, and take into account market data and projections at the valuation date. The fair values are typically compared to market-based information for reasonability, including recent transactions involving comparable assets. The methodologies and inputs used in these models are in accordance with real estate industry valuation standards. Valuations are prepared externally or internally by professionally accredited real estate appraisers.

The fair value of short-term securities is approximated by their carrying amount adjusted for credit risk where appropriate.

Due to their nature, the fair value of policy loans and cash are assumed to be equal to their carrying values, which is the amount these assets are recorded at in our Consolidated Statements of Financial Position.

Investments for accounts of segregated fund holders are recorded at fair value with changes in fair value recorded in net realized and unrealized gains (losses) within the segregated fund and are not recorded in our Consolidated Statements of Operations. The fair value of investments for accounts of segregated fund holders is determined using quoted prices in active markets or independent valuation information provided by investment managers. The fair value of direct investments within investments for accounts of segregated fund holders, such as short-term securities and government and corporate debt securities, is determined according to valuation methodologies and inputs described above in the respective asset type sections. The fair value of the secured borrowings from mortgage securitization is based on the methodologies and assumptions as described above for asset-backed securities.

The methodologies and assumptions for determining the fair values of investment contract liabilities are included in Note 10.B of our 2019 Annual Consolidated Financial Statements.

We categorize our assets and liabilities carried at fair value, based on the priority of the inputs to the valuation techniques used to measure fair value, into a three-level fair value hierarchy as follows:

Level 1: Fair value is based on the unadjusted quoted prices for identical assets or liabilities in an active market. The types of assets and liabilities classified as Level 1 generally include cash and cash equivalents, certain U.S. government and agency securities, exchange-traded equity securities, and certain segregated and mutual fund units held for account of segregated fund holders.

Level 2: Fair value is based on quoted prices for similar assets or liabilities traded in active markets, or prices from valuation techniques that use significant observable inputs, or inputs that are derived principally from or corroborated with observable market data through correlation or other means. The types of assets and liabilities classified as Level 2 generally include Canadian federal, provincial and municipal government, other foreign government and corporate debt securities, certain asset-backed securities, OTC derivatives, and certain segregated and mutual fund units held for account of segregated fund holders.

Level 3: Fair value is based on valuation techniques that require one or more significant inputs that are not based on observable market inputs. These unobservable inputs reflect our expectations about the assumptions market participants would use in pricing the asset or liability. The types of assets and liabilities classified as Level 3 generally include certain corporate bonds, certain other invested assets, and investment properties.

As pricing inputs become more or less observable, assets are transferred between levels in the hierarchy. Total gains and losses in income and OCI are calculated assuming transfers into or out of Level 3 occur at the beginning of the period. For a financial instrument that transfers into Level 3 during the reporting period, the entire change in fair value for the period is included in the Level 3 reconciliation schedule in Note 5 to our 2019 Annual Consolidated Financial Statements. For transfers out of Level 3 during the reporting period, the change in fair value for the period is excluded from the Level 3 reconciliation schedule in Note 5 to our 2019 Annual Consolidated Financial Statements. Transfers into Level 3 occur when the inputs used to price the financial instrument lack observable market data and as a result, no longer meet the Level 1 or 2 criteria at the reporting date. Transfers out of Level 3 occur when the pricing inputs become more transparent and satisfy the Level 1 or 2 criteria at the reporting date.

Transfers into and out of Level 3 for financial assets were \$15 million and \$304 million for the year ended December 31, 2019, respectively, compared to \$14 million and \$380 million, respectively, for the year ended December 31, 2018. The total amount of the net realized/unrealized gains (losses) related to financial instruments transferred out of Level 3 during the period, which were excluded from the Level 3 reconciliation, was a gain of \$1 million as at December 31, 2019 compared to a loss of \$9 million as at December 31, 2018.

Additional information on the fair value measurement of investments can be found in Note 5 of our 2019 Annual Consolidated Financial Statements.

## Impairment

Management assesses debt and equity securities, mortgages and loans and other invested assets for objective evidence of impairment at each reporting date. Financial assets are impaired and impairment losses are incurred if there is objective evidence of impairment as a result of one or more loss events that have an impact on the estimated future cash flows that can be reliably estimated. Objective evidence of impairment generally includes significant financial difficulty of the issuer, including actual or anticipated bankruptcy or defaults and delinquency in payments of interest or principal or disappearance of an active market for the financial assets. All equity instruments in an unrealized loss position are reviewed to determine if objective evidence of impairment exists. Objective evidence of impairment for an investment in an equity instrument or other invested asset also includes, but is not limited to, the financial condition and near-term prospects of the issuer, including information about significant changes with adverse effects that have taken place in the technological, market, economic or legal environment in which the issuer operates, and a significant or prolonged decline in the fair value of an equity instrument or other invested asset below its cost.

Additional information on the impairment of financial assets can be found in Notes 1 and 6 of our 2019 Annual Consolidated Financial Statements.

## Goodwill

Goodwill represents the excess of the cost of an acquisition over the fair value of the net identifiable tangible and intangible assets of the acquired businesses. Goodwill is carried at original cost less any impairment subsequently incurred. Goodwill is assessed for impairment annually or more frequently if events or circumstances occur that may result in the recoverable amount of a cash generating unit ("CGU") falling below its carrying value. A CGU is the smallest identifiable group of assets that generates cash inflows that are largely independent of cash inflows from other groups of assets. The goodwill balances are allocated to either individual or groups of CGUs that are expected to benefit from the synergies of the business combination. Goodwill impairment is quantified by comparing a CGU's or a group of CGU's carrying value to its recoverable amount, which is the higher of fair value less cost to sell and value in use. Impairment losses are recognized immediately and cannot be reversed in future periods.

No impairment charges were recognized in 2019. We had a carrying value of \$5.8 billion in goodwill as at December 31, 2019. Additional information on goodwill can be found in Note 9 of our 2019 Annual Consolidated Financial Statements.

## Intangible Assets

Intangible assets consist of finite life and indefinite life intangible assets. Finite life intangible assets are amortized on a straight-line basis or using a units-of-production method, over the useful economic lives which are varying periods of up to 40 years. Amortization is charged through operating expenses. The useful lives of finite life intangible assets are reviewed annually, and the amortization is adjusted as necessary. Indefinite life intangibles are not amortized, and are assessed for impairment annually or more frequently if events or changes in circumstances indicate that the asset may be impaired. Impairment is assessed by comparing the carrying values of the indefinite life intangible assets to their recoverable amounts. The recoverable amount is the higher of an asset's fair value less costs to sell and its value in use. If the carrying values of the indefinite life intangibles exceed their recoverable amounts, these assets are considered impaired, and a charge for impairment is recognized in our Consolidated Statements of Operations. The recoverable amount of intangible assets is determined using various valuation models, which require management to make certain judgments and assumptions that could affect the estimates of the recoverable amount. Impairment charges on intangible assets of \$15 million were recognized in 2019 and there were no impairment charges in 2018.

As at December 31, 2019 our finite life intangible assets had a carrying value of \$1.4 billion, which reflected the value of the field force, asset administration contracts, and Client relationships acquired as part of the Clarica, CMG Asia, Genworth EBG, Ryan Labs, Prime Advisors, Bentall Kennedy, and the U.S. employee benefits business acquisitions, as well as software costs. Our indefinite life intangible assets had a carrying value of \$0.6 billion as at December 31, 2019. The value of the indefinite life intangible assets reflected fund management contracts of MFS and BGO.

## Income Taxes

Income tax assets and liabilities for the current and prior periods are measured at the amount expected to be recovered from or paid to the taxation authorities. Deferred income tax is provided using the liability method. Our provision for income taxes is calculated based on the tax rates and tax laws that have been enacted or substantially enacted by the end of the reporting period.

As a multinational organization, we are subject to taxation in numerous jurisdictions. We seek to operate in a tax efficient manner while ensuring that we are in compliance with all laws and regulations. The determination of the required provision for current and deferred income taxes requires that we interpret tax legislation in the jurisdictions in which we operate and that we make assumptions about the expected timing of realization of deferred income tax assets and liabilities. Tax laws are complex and their interpretation requires significant judgment. The provision for income taxes reflects management's interpretation of the relevant tax laws and its best estimate of the income tax implications of the transactions and events during the period. We believe that our provisions for uncertain tax positions appropriately reflect the risk of tax positions that are under audit, dispute or appeal with tax authorities, or which are otherwise considered to involve uncertainty. The adequacy of our tax provision is reviewed at the end of each reporting period. To the extent that our interpretations differ from those of tax authorities or the timing of realization is not as expected, the provision for income taxes may increase or decrease in future periods to reflect actual experience. The amount of any increase or decrease cannot be reasonably estimated.

Deferred income tax assets are recognized for all deductible temporary differences, carry forward of unused tax losses and unused tax credits to the extent that it is probable that taxable profit will be available against which the temporary differences, unused tax losses and unused tax credits can be utilized. At each reporting period, we assess all available evidence, both positive and negative, to determine the amount of deferred income tax assets to be recorded. If it is probable that the benefit of tax losses and tax deductions will not be realized, a deferred income tax asset is not recognized. The assessment requires significant estimates and judgment about future events based on the information available at the reporting date.

From time to time, local governments, in countries in which we operate, enact changes to statutory corporate income tax rates. These changes require us to review and re-measure our deferred tax assets and liabilities as of the date of enactment. As at December 31, 2019, our net deferred tax asset in the Consolidated Statements of Financial Position was \$1,049 million, primarily in Canada. Any future tax rate reductions in jurisdictions where we carry a net deferred tax asset, could result in a reduction in the carrying value of the deferred tax asset and a corresponding income tax expense at the time of substantial enactment of a rate reduction.

## Pension Plans and Other Post-Retirement Benefits

The Company sponsors defined benefit pension plans and defined contribution plans for eligible employees. All of our material defined benefit plans worldwide are closed to new entrants with new hires participating in defined contribution plans. Our defined benefit pension plans offer benefits based on length of service and final average earnings and certain plans offer some indexation of benefits. We maintain certain supplementary non-contributory defined benefit pension arrangements for eligible employees, which are primarily for benefits which are in excess of local tax limits. In addition to these plans, in some countries the Company sponsors certain post-retirement benefit plans (for medical, dental and/or life insurance benefits) for eligible qualifying employees and their dependents who meet certain requirements.

In Canada, since January 1, 2009, all new employees participate in a defined contribution plan, while existing employees continue to accrue future benefits in the prior plan which provides a defined benefit plan and an optional contributory defined contribution plan.

With the closure of the Canadian defined benefit plans to new entrants, the volatility associated with future service accruals for active members has been limited and will decline over time. As at December 31, 2019, there are no active members in the UK and no active employees accruing future service benefits in the U.S. defined benefit plans.

The major risks remaining in relation to past service obligations are increases in liabilities due to a decline in discount rates, greater life expectancy than assumed and adverse asset returns. We have significantly de-risked the investments of our material defined benefit pension plans Company-wide by systematically shifting the pension asset mix towards liability matching investments. The target for our significant plans is to minimize volatility in funded status arising from changes in discount rates and exposure to equity markets.

Due to the long-term nature of these defined benefit plans, the calculation of benefit expenses and accrued benefit obligations depends on various assumptions, including discount rates, rates of compensation increases, health care cost trend rates, retirement ages, mortality rates and termination rates. Based upon consultation with external pension actuaries, management determines the assumptions used for these plans on an annual basis. The discount rate used for our material defined benefit plans is determined with reference to market yields of high-quality corporate bonds that are denominated in the same currency in which the benefits will be paid, and that have terms to maturity approximating the terms of obligations.

Actual experience may differ from that assumed, which would impact the valuation of defined benefit plans and the level of benefit expenses recognized in future years. Details of our pension and post-retirement benefit plans and the key assumptions used for the valuation these plans are included in Note 25 of our 2019 Annual Consolidated Financial Statements.

## 2. Changes in Accounting Policies

We have included in this section a summary of changes in accounting policies. Where there are references to Notes, these are part of our 2019 Annual Consolidated Financial Statements.

### New and Amended International Financial Reporting Standards Adopted in 2019

The following new and amended IFRS are effective for annual periods beginning on or after January 1, 2019, and did not have a material impact on our Consolidated Financial Statements:

#### i. IFRS 16 Leases ("IFRS 16")

In January 2016, the International Accounting Standards Board ("IASB") issued IFRS 16, which replaces IAS 17 *Leases* ("IAS 17") and related interpretations. IFRS 16 sets out the principles for the recognition, measurement, presentation, and disclosure of leases for both lessees and lessors. For lessees, IFRS 16 removes the classification of leases as either operating or financing and requires that all leases be recognized on the statement of financial position, with certain exemptions allowed by this new standard. The accounting for lessors is substantially unchanged. We adopted IFRS 16 on a modified retrospective basis as at January 1, 2019 and recognized transition adjustments in retained earnings.

We assess whether a contract is, or contains, a lease at the inception of the contract. A contract is, or contains, a lease if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration. For leases where we act as the lessee, we recognize a right-of-use asset and a lease liability at the commencement date of the lease. The right-of-use asset is initially measured at cost, which is comprised of the initial amount of the lease liability with certain adjustments, and subsequently depreciated using the straight-line method, with depreciation expense included in Operating expenses in the Consolidated Statements of Operations. The lease liability is initially measured at the present value of lease payments over the term of the lease using a discount rate that is based on our incremental borrowing rate. The discount rate is specific to each lease and is determined by various factors, such as the lease term and currency. The lease term includes the non-cancellable period and the optional period where it is reasonably certain we will exercise or not exercise an extension or termination option, considering various factors that create an economic incentive to do so. Subsequently, the lease liability is measured at amortized cost using the effective interest method, with interest charged to Interest expense in the Consolidated Statements of Operations. Lease liabilities and right-of-use assets are remeasured upon lease modifications.

As a result of the adoption of IFRS 16, we recognized right-of-use assets of \$744 million and lease liabilities of \$880 million, reported in Other assets and Other liabilities, respectively, on our Consolidated Statements of Financial Position. Together with the de-recognition of deferred balances of \$105 million previously recognized under IAS 17 and deferred tax impact of \$9 million, the adoption of IFRS 16 reduced opening retained earnings by \$22 million on an after-tax basis as at January 1, 2019.

On transition to IFRS 16, we applied the practical expedient to use hindsight when determining the lease term of contracts containing extension or termination options. Our weighted-average incremental borrowing rate applied to lease liabilities as at January 1, 2019 was 3.3%. The difference between our lease liabilities at January 1, 2019 of \$880 million and our operating lease commitments at December 31, 2018 of \$1,056 million is primarily due to the time value of money.

## ii. Other New and Amended IFRS

In June 2017, the IASB issued IFRIC 23 *Uncertainty over Income Tax Treatments* ("IFRIC 23"), which was developed by the IFRS Interpretations Committee. IFRIC 23 clarifies how to apply the recognition and measurement requirements in IAS 12 *Income Taxes* when there is uncertainty over income tax treatments, and requires an entity to determine whether tax treatments should be considered collectively or independently. In addition, IFRIC 23 addresses the assumptions an entity should make about the examination of tax treatments by taxation authorities, as well as how an entity should consider changes in facts and circumstances. IFRIC 23 also provides guidance on how to determine taxable profit (tax loss), tax bases, unused tax losses, unused tax credits, and tax rates, based on whether it is probable that a tax authority will accept an uncertain tax treatment used, or proposed to be used, by an entity in its income tax filings. We adopted IFRIC 23 on a cumulative retrospective basis. Adoption of IFRIC 23 did not have a material impact on our Consolidated Financial Statements.

In October 2017, the IASB issued narrow-scope amendments to IAS 28 *Investments in Associates and Joint Ventures*. The amendments clarify that long-term interests in an associate or joint venture to which the equity method is not applied should be accounted for following the requirements of IFRS 9 *Financial Instruments* ("IFRS 9"). These amendments are required to be applied retrospectively with certain exceptions. As we qualified for and have elected to take the IFRS 9 deferral approach, we will continue to apply IAS 39 *Financial Instruments: Recognition and Measurement* ("IAS 39") to the long-term interests in associates or joint ventures covered by these amendments.

In December 2017, the IASB issued *Annual Improvements to IFRSs 2015-2017 Cycle*, which includes minor amendments to four IFRS standards. These amendments were applied prospectively.

In February 2018, the IASB issued *Plan Amendment, Curtailment or Settlement* which amends IAS 19 *Employee Benefits* ("IAS 19"). Under IAS 19, when an amendment, curtailment or settlement of a defined benefit pension plan occurs, the net defined benefit liability or asset is remeasured. The amendments require an entity to use the updated assumptions from this remeasurement to determine current service cost and net interest for reporting periods after the change to the plan. These amendments were applied to plan amendments, curtailments or settlements occurring on or after January 1, 2019.

## New and Amended International Financial Reporting Standards to be Adopted in 2020

The following new and amended IFRS were issued by the IASB and are expected to be adopted by us in 2020:

In March 2018, the IASB issued a revised *Conceptual Framework for Financial Reporting* ("Conceptual Framework"), which replaces the *Conceptual Framework for Financial Reporting* issued in 2010. The revised Conceptual Framework includes revised definitions of an asset and a liability, as well as new guidance on measurement, derecognition, presentation and disclosure. The revised Conceptual Framework is effective for annual periods beginning on or after January 1, 2020. We do not expect the adoption of this guideline to have a material impact on our Consolidated Financial Statements.

In October 2018, the IASB issued *Definition of a Business*, which amends IFRS 3 *Business Combinations*. The amendments clarify the definition of a business to assist entities in determining whether a transaction represents a business combination or an acquisition of assets. The amendments are effective for annual periods beginning on or after January 1, 2020, to be applied prospectively. We do not expect the adoption of these amendments to have a material impact on our Consolidated Financial Statements.

In October 2018, the IASB issued *Definition of Material (Amendments to IAS 1 and IAS 8)*. The amendments clarify the definition of material and provide guidance to improve consistency in its application in IFRS standards. The amendments are effective for annual periods beginning on or after January 1, 2020. We do not expect the adoption of these amendments to have a material impact on our Consolidated Financial Statements.

In September 2019, the IASB issued the *Interest Rate Benchmark Reform*, which includes amendments to IFRS 9, IAS 39, and IFRS 7 *Financial Instruments: Disclosures*. The amendments clarify that entities can continue to apply certain hedge accounting requirements assuming that the interest rate benchmark on which the hedged cash flows and cash flows from the hedging instrument are based will not be altered as a result of interest rate benchmark reform. The amendments are effective for annual periods beginning on or after January 1, 2020. We are currently assessing the impact of adoption on our Consolidated Financial Statements.

## New and Amended International Financial Reporting Standards to be Adopted in 2021 or Later

The following new and amended standards were issued by the IASB and are expected to be adopted by us in 2021 or later:

In July 2014, the IASB issued the final version of IFRS 9, which replaces IAS 39. IFRS 9 includes guidance on the classification and measurement of financial instruments, impairment of financial assets, and hedge accounting. Financial asset classification is based on the cash flow characteristics and the business model in which an asset is held. The classification determines how a financial instrument is accounted for and measured. IFRS 9 also introduces an impairment model for financial instruments not measured at fair value through profit or loss that requires recognition of expected losses at initial recognition of a financial instrument and the recognition of full lifetime expected losses if certain criteria are met. In addition, a new model for hedge accounting was introduced to achieve better alignment with risk management activities. This standard is effective for annual periods beginning on or after January 1, 2018. In October 2017, the IASB issued narrow-scope amendments to IFRS 9. The amendments clarify the classification of certain prepayable financial assets and the accounting of financial liabilities following modification. The amendments are effective for annual periods beginning on or after January 1, 2019. However, pursuant to the aforementioned amendments to IFRS 4, we elected the deferral approach permitted under IFRS 4 *Insurance Contracts* ("IFRS 4") to continue to apply IAS 39. We are currently assessing the impact that IFRS 9, along with these amendments, will have on our Consolidated Financial Statements.

In May 2017, the IASB issued IFRS 17 *Insurance Contracts*, which replaces IFRS 4. IFRS 17 establishes the principles for the recognition, measurement, presentation, and disclosure of insurance contracts. IFRS 17 is effective for annual periods beginning on or after January 1, 2021. In June 2019, the IASB issued an exposure draft ("ED") that proposes targeted amendments to IFRS 17 for public consultation. As part of the ED, the IASB has proposed to defer the effective date by one year to January 1, 2022 as well as extend the deferral option of IFRS 9 for insurers to that same date. The IASB will continue to discuss comments received on the proposals, including comments on the deferral, before finalizing the amendments later in 2020.

IFRS 17 will affect how we account for our insurance contracts and how we report our financial performance in our Consolidated Statements of Operations. Any regulatory and tax regimes that are dependent upon IFRS accounting values will also be impacted. In particular, the introduction of IFRS 17 will require revisions to OSFI's LICAT guideline. OSFI has indicated that, in developing the revisions to align the LICAT guideline with the accounting standard, they intend to maintain capital frameworks with current capital policies and minimize the potential industry-wide capital impacts.

The adoption of IFRS 17 will be a significant change for us and for the industry. In order to ensure effective implementation, we have established a transition program for IFRS 17 and dedicated significant resources to the implementation. IFRS 17 requires a more expansive set of data, calculations, external disclosure, analyses and controls than the current accounting standard. This necessitates new technologies to support computational aspects and controls relevant to managing the business under IFRS 17. As a result, the project to implement IFRS 17 is a multi-year suite of enterprise-wide actions, technology upgrades, policy and process changes, education and change management initiatives. The program is also dependent on external factors, such as the finalization of the proposed amendments to IFRS 17 and the readiness of a tested solution for the Contractual Service Margin ("CSM"). At this point, we cannot reasonably estimate the effect that IFRS 17 will have on our Consolidated Financial Statements.

We continue to assess both the potential financial statement and business implications of the standard and have regular discussions on application and interpretation of IFRS 17 with our peers in Canada through industry and professional associations. We are also monitoring and participating in international developments related to the adoption and interpretation of this standard.

### 3. Disclosure Controls and Procedures

The Company has established disclosure controls and procedures that are designed to provide reasonable assurance that all relevant information is gathered and reported to senior management, including the Company's President and CEO, Executive Vice-President and Chief Financial Officer ("CFO"), and Executive Vice-President, Chief Legal Officer and Public Affairs, on a timely basis so that appropriate decisions can be made regarding public disclosure.

An evaluation of the effectiveness of our disclosure controls and procedures, as defined under rules adopted by the Canadian securities regulatory authorities and the SEC, as at December 31, 2019, was carried out under the supervision of and with the participation of the Company's management, including the CEO and the CFO. Based on our evaluation, the CEO and the CFO concluded that the design and operation of these disclosure controls and procedures were effective as at December 31, 2019.

### Management's Report on Internal Control over Financial Reporting

Management is responsible for establishing and maintaining adequate internal control over financial reporting to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of our financial statements in accordance with IFRS.

Due to its inherent limitations, internal control over financial reporting may not prevent or detect misstatements on a timely basis. Projections of any evaluation of the effectiveness of internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

We conducted an assessment of the effectiveness of our internal control over financial reporting, as of December 31, 2019, based on the framework and criteria established in *Internal Control-Integrated Framework (2013)*, issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that assessment, we have concluded that our internal control over financial reporting was effective as of December 31, 2019.

Our internal control over financial reporting, as of December 31, 2019, has been audited by the Company's external auditor, Deloitte LLP, Independent Registered Public Accounting Firm, who also audited our Annual Consolidated Financial Statements for the year ended December 31, 2019. As stated in the Report of Independent Registered Public Accounting Firm, they have expressed an unqualified opinion on our internal control over financial reporting as of December 31, 2019.

## Changes in Internal Control over Financial Reporting

No changes were made in our internal control over financial reporting for the period which began on January 1, 2019 and ended December 31, 2019 that have materially affected or are reasonably likely to materially affect our internal control over financial reporting.

## N. Legal and Regulatory Proceedings

We are regularly involved in legal actions, both as a defendant and as a plaintiff. Information on legal and regulatory proceedings can be found in Note 23 of our 2019 Annual Consolidated Financial Statements.

## O. Forward-looking Statements

From time to time, the Company makes written or oral forward-looking statements within the meaning of certain securities laws, including the "safe harbour" provisions of the United States Private Securities Litigation Reform Act of 1995 and applicable Canadian securities legislation. Forward-looking statements contained in this document include statements (i) relating to our strategies, financial objectives, future results of operations, and strategic goals; (ii) concerning our medium-term financial objectives which are described in this MD&A under the heading B - Overview - 2 - Financial Objectives, (collectively, our "medium-term financial objectives"); (iii) relating to productivity and expense initiatives, growth initiatives, outlook, and other business objectives; (iv) relating to our expected tax rate for future years; (v) relating to our acquisition of a majority stake in InfraRed; (vi) that are predictive in nature or that depend upon or refer to future events or conditions; (vii) set out in this document under the heading J - Risk Management - 9 - Risk Categories - Market Risk - Market Risk Sensitivities - Equity Market Sensitivities and Interest Rate Sensitivities; (viii) relating to cash flows, anticipated payment obligations, funding requirements and our ability to meet these obligations; (ix) relating to tax provisions; (x) relating to risks and uncertainties; and (xi) that include words such as "achieve", "aim", "ambition", "anticipate", "aspiration", "assumption", "believe", "could", "estimate", "expect", "goal", "initiatives", "intend", "may", "objective", "outlook", "plan", "project", "seek", "should", "strategy", "strive", "target", "will" and similar expressions. Forward-looking statements include the information concerning our possible or assumed future results of operations. These statements represent our current expectations, estimates and projections regarding future events and are not historical facts. Forward-looking statements are not a guarantee of future performance and involve risks and uncertainties that are difficult to predict. Future results and shareholder value may differ materially from those expressed in these forward-looking statements due to, among other factors, the matters set out in this document under the headings B - Overview - 2 - Financial Objectives; D - Profitability - 2019 vs. 2018; I - Capital and Liquidity Management; J - Risk Management; and M - Accounting and Control Matters - 1 - Critical Accounting Policies and Estimates and in the AIF under the heading Risk Factors, and the factors detailed in SLF Inc.'s other filings with Canadian and U.S. securities regulators, which are available for review at [www.sedar.com](http://www.sedar.com) and [www.sec.gov](http://www.sec.gov), respectively.

### Medium-Term Financial Objectives

The Company's medium-term financial objectives set out in B - Overview - 2 - Financial Objectives are forward-looking non-IFRS financial measures. Our ability to achieve those objectives is dependent on our success in achieving growth initiatives and business objectives and on certain key assumptions that include: (i) no significant changes in the level of interest rates; (ii) average total equity market return of approximately 8% per annum; (iii) credit experience in line with best estimate actuarial assumptions; (iv) no significant changes in the level of our regulatory capital requirements; (v) no significant changes to our effective tax rate; (vi) no significant increase in the number of shares outstanding; (vii) other key assumptions include: no material changes to our hedging program, hedging costs that are consistent with our best estimate assumptions, no material assumption changes including updates to the economic scenario generator and no material accounting standard changes; and (viii) our best estimate actuarial assumptions used in determining our insurance and investment contract liabilities. Our underlying ROE is dependent upon capital levels and options for deployment of excess capital. Our medium-term financial objectives do not reflect the indirect effects of interest rate and equity market movements including the potential impacts on goodwill or the current valuation allowance on deferred tax assets as well as other items that may be non-operational in nature.

Our target dividend payout ratio of 40%-50% of our underlying net income assumes that economic conditions and our results will enable us to maintain our payout ratio in the target range, while maintaining a strong capital position. The declaration, amount and payment of dividends is subject to the approval of SLF Inc.'s Board of Directors and our compliance with the capital requirements in the Insurance Companies Act (Canada). Additional information on dividends is provided in the section I - Capital and Liquidity Management - 3 - Shareholder Dividends in this MD&A.

Although considered reasonable by the Company, we may not be able to achieve our medium-term financial objectives as the assumptions on which these objectives were based may prove to be inaccurate. Accordingly, our actual results could differ materially from our medium-term financial objectives as described in the section B - Overview - 2 - Financial Objectives in this MD&A. Our medium-term financial objectives do not constitute guidance.

### Risk Factors

Important risk factors that could cause our assumptions and estimates, and expectations and projections to be inaccurate and our actual results or events to differ materially from those expressed in or implied by the forward-looking statements contained in this document, including our medium-term financial objectives, are set out below. The realization of our forward-looking statements, including our ability to meet our medium-term financial objectives, essentially depends on our business performance which, in turn, is subject to many risks. Factors that could cause actual results to differ materially from expectations include, but are not limited to: **market risks** - related to the performance of equity markets; changes or volatility in interest rates or credit spreads or swap spreads; real estate investments; and fluctuations in foreign currency exchange rates; **insurance risks** - related to policyholder behaviour; mortality experience, morbidity experience and longevity; product design and pricing; the impact of higher-than-expected future expenses; and the availability, cost and effectiveness of reinsurance; **credit risks** - related to issuers of securities held in our investment portfolio, debtors, structured securities, reinsurers, counterparties, other

financial institutions and other entities; **business and strategic risks** - related to global economic and political conditions; the design and implementation of business strategies; changes in distribution channels or Client behaviour including risks relating to market conduct by intermediaries and agents; the impact of competition; the performance of our investments and investment portfolios managed for Clients such as segregated and mutual funds; changes in the legal or regulatory environment, including capital requirements and tax laws; the environment, environmental laws and regulations; **operational risks** - related to breaches or failure of information system security and privacy, including cyber-attacks; our ability to attract and retain employees; legal, regulatory compliance and market conduct, including the impact of regulatory inquiries and investigations; the execution and integration of mergers, acquisitions, strategic investments and divestitures; our information technology infrastructure; a failure of information systems and Internet-enabled technology; dependence on third-party relationships, including outsourcing arrangements; business continuity; model errors; information management; **liquidity risks** - the possibility that we will not be able to fund all cash outflow commitments as they fall due; and **other risks** - tax matters, including estimates and judgments used in calculating taxes; our international operations, including our joint ventures; market conditions that affect our capital position or ability to raise capital; downgrades in financial strength or credit ratings; and the impact of mergers, acquisitions and divestitures.

The following risk factors are related to our acquisition of a majority stake in InfraRed that could have a material adverse effect on our forward-looking statements: (1) the ability of the parties to complete the transaction; (2) failure of the parties to obtain necessary consents and approvals or to otherwise satisfy the conditions to the completion of the transaction in a timely manner, or at all; (3) our ability to realize the financial and strategic benefits of the transaction; (4) the impact of the announcement of the transaction on Sun Life and InfraRed. These risks all could have an impact on our business relationships (including with future and prospective employees, Clients, distributors and partners) and could have a material adverse effect on our current and future operations, financial conditions and prospects.

The Company does not undertake any obligation to update or revise its forward-looking statements to reflect events or circumstances after the date of this document or to reflect the occurrence of unanticipated events, except as required by law.

# CONSOLIDATED FINANCIAL STATEMENTS

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# Financial Reporting Responsibilities

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Management is responsible for preparing the Consolidated Financial Statements. This responsibility includes selecting appropriate accounting policies and making estimates and other judgments consistent with International Financial Reporting Standards. The financial information presented elsewhere in the annual report to shareholders is consistent with these Consolidated Financial Statements.

The Board of Directors (“Board”) oversees management’s responsibilities for financial reporting. An Audit Committee of non-management directors is appointed by the Board to review the Consolidated Financial Statements and report to the Board prior to their approval of the Consolidated Financial Statements for issuance to shareholders. Other key responsibilities of the Audit Committee include reviewing the Company’s existing internal control procedures and planned revisions to those procedures, and advising the Board on auditing matters and financial reporting issues.

Management is also responsible for maintaining systems of internal control that provide reasonable assurance that financial information is reliable, that all financial transactions are properly authorized, that assets are safeguarded, and that Sun Life Financial Inc. and its subsidiaries, collectively referred to as “the Company”, adhere to legislative and regulatory requirements. These systems include the communication of policies and the Company’s Code of Business Conduct throughout the organization. Internal controls are reviewed and evaluated by the Company’s internal auditors.

Management conducted an assessment of the effectiveness of the Company’s internal control over financial reporting, as of December 31, 2019, based on the framework and criteria established in *Internal Control – Integrated Framework (2013)*, issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on that assessment, management has concluded that the Company’s internal control over financial reporting was effective as of December 31, 2019.

The Audit Committee also conducts such review and inquiry of management and the internal and external auditors as it deems necessary towards establishing that the Company is employing appropriate systems of internal control, is adhering to legislative and regulatory requirements and is applying the Company’s Code of Business Conduct. Both the internal and external auditors and the Company’s Appointed Actuary have full and unrestricted access to the Audit Committee with and without the presence of management.

The Office of the Superintendent of Financial Institutions, Canada conducts periodic examinations of the Company. These examinations are designed to evaluate compliance with provisions of the *Insurance Companies Act (Canada)* and to ensure that the interests of policyholders, depositors, and the public are safeguarded. The Company’s foreign operations and foreign subsidiaries are examined by regulators in their local jurisdictions.

The Company’s Appointed Actuary, who is a member of management, is appointed by the Board to discharge the various actuarial responsibilities required under the *Insurance Companies Act (Canada)*, and conducts the valuation of the Company’s actuarial liabilities. The role of the Appointed Actuary is described in more detail in Note 10. The report of the Appointed Actuary accompanies these Consolidated Financial Statements.

The Company’s external auditor, Deloitte LLP, Independent Registered Public Accounting Firm, has audited the Company’s internal control over financial reporting as of December 31, 2019, in addition to auditing the Company’s Consolidated Financial Statements for the years ended December 31, 2019 and December 31, 2018. Its reports to the Board and shareholders express unqualified opinions and accompany these Consolidated Financial Statements. Deloitte LLP meets separately with both management and the Audit Committee to discuss the results of its audit.



Dean A. Connor  
President and Chief Executive Officer



Kevin D. Strain, CPA, CA  
Executive Vice-President and Chief Financial Officer

Toronto, Ontario, Canada  
February 12, 2020

# Appointed Actuary's Report

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## THE SHAREHOLDERS AND DIRECTORS OF SUN LIFE FINANCIAL INC.

I have valued the policy liabilities and reinsurance recoverables of Sun Life Financial Inc. and its subsidiaries for its Consolidated Statements of Financial Position at December 31, 2019 and December 31, 2018 and their change in the Consolidated Statements of Operations for the year ended December 31, 2019 in accordance with accepted actuarial practice in Canada, including selection of appropriate assumptions and methods.

In my opinion, the amount of policy liabilities net of reinsurance recoverables makes appropriate provision for all policy obligations and the Consolidated Financial Statements fairly present the results of the valuation.



Kevin Morrissey  
Fellow, Canadian Institute of Actuaries

Toronto, Ontario, Canada  
February 12, 2020

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# Report of Independent Registered Public Accounting Firm

To the Shareholders and the Board of Directors of Sun Life Financial Inc.

## Opinion on the Financial Statements

We have audited the accompanying consolidated statements of financial position of Sun Life Financial Inc. and subsidiaries (the "Company") as of December 31, 2019 and 2018, the related consolidated statements of operations, comprehensive income (loss), changes in equity and cash flows, for each of the two years in the period ended December 31, 2019, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2019 and 2018, and its financial performance and its cash flows for each of the two years in the period ended December 31, 2019, in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 12, 2020, expressed an unqualified opinion on the Company's internal control over financial reporting.

## Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

## Critical Audit Matters

The critical audit matters communicated below are matters arising from the current-period audit of the financial statements that were communicated or required to be communicated to the audit committee and that (1) relate to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

### Insurance Contract Liabilities - Refer to Notes 1 and 10 to the Financial Statements

#### Critical Audit Matter Description

The Company has significant insurance contract liabilities representing the majority of its total liabilities. Application of different assumptions may result in different measurement of the insurance contract liabilities. There is insurance risk from the uncertainty of product performance due to differences between the actual experience and expected experience. The Company also uses various actuarial models to determine insurance contract liabilities some of which involve high levels of complexity.

While there are many assumptions which management makes, the assumptions with the greatest uncertainty are those related to lapse and other policyholder behaviour. These assumptions required subjective and complex auditor judgment in certain circumstances where (i) there is limited Company and industry experience data, (ii) the historical experience may not be a good indicator of the future, and (iii) the lapse and other policyholder behaviour may be irrational. Auditing of certain actuarial models and lapse and other policyholder behaviour required a high degree of auditor judgment and an increased extent of audit effort, including the need for the integral involvement of actuarial specialists.

#### How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to actuarial models and assumptions of lapse and other policyholder behaviour included the following, among others:

- Evaluating the effectiveness of controls over actuarial models and the determination of the lapse and other policyholder behaviour assumptions used in the calculation of insurance contract liabilities as well as access and change management controls over those actuarial models.
- With the assistance of actuarial specialists, testing the reasonableness of key lapse and policyholder behaviour assumptions, by:
  - Evaluating management's methods and assumptions in accordance with actuarial principles and practices under the Canadian actuarial standards of practice.
  - Testing experience studies and other inputs used in the determination of the lapse and other policyholder behaviour assumptions.
  - Analyzing management's interpretation of its experience study results, evaluating triggers and drivers for revisions of assumptions, assessing reasonable possible alternative assumptions, and considering industry and other external sources of data, where applicable.
- With the assistance of actuarial specialists, testing the appropriateness of actuarial models used in the estimation process by:
  - Calculating an independent estimate of the insurance contract liability for a sample of insurance policies and comparing the results to the Company's results.
  - Testing the accuracy of a sample of actuarial models for changes in key assumptions.

## Valuation of Investment Properties - Refer to Notes 1 and 5 to the Financial Statements

### Critical Audit Matter Description

Investment properties are accounted for at fair value. The fair value of investment properties is generally determined using property valuation models that are based on expected capitalization rates and models that discount expected future net cash flows at current market interest rates reflective of the characteristics, location, and market of each property. Expected future net cash flows include contractual and projected cash flows and forecasted operating expenses, and take into account interest, rental, and occupancy rates derived from market surveys. The estimates of future cash inflows in addition to expected rental income from current leases, include projected income from future leases based on significant assumptions that are consistent with current market conditions.

While there are many assumptions which management makes, the assumptions with the greatest uncertainty are the discount rates, terminal capitalization rates and future rental rates. Performing audit procedures to evaluate valuation models and inputs required a high degree of auditor judgment and an increased extent of audit effort, including the need for the integral involvement of fair value specialists.

### How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to valuation models and assumptions including discount rates, terminal capitalization rates, and future rental rates included the following, among others:

- Evaluating the effectiveness of controls over the fair value process for investment properties. These controls include an assessment and approval by senior management of the discount rates, terminal capitalization rates, and future rental rates assumptions used in the calculation of the valuation of investment properties and an assessment of the valuation model used.
- With the assistance of fair value specialists, evaluating on a sample basis the reasonableness of the discount rates, terminal capitalization rates, and future rental rates assumptions and the valuation model by calculating an independent estimate and comparing those to the discount rates, terminal capitalization rates and future rental rates selected by management.

## BentallGreenOak Put Option Liability - Refer to Note 3 to the Financial Statements

### Critical Audit Matter Description

The Company, through its subsidiary Bentall Kennedy group of companies ("Bentall Kennedy"), acquired a 56% interest of GreenOak Real Estate ("GreenOak") on July 1, 2019, to form BentallGreenOak ("BGO"). The consideration for the acquisition was a combination of cash and shares in Bentall Kennedy. The acquisition involved multiple contractual arrangements including a put option whereby, if exercised, the Company would acquire the remaining outstanding shares in BGO commencing in 2027.

While there are multiple contractual arrangements, the arrangement with the most judgment was the put option liability. The determination of the present value of the put option liability necessitated significant management judgment in selecting inputs related to the future earnings before interest, tax, depreciation and amortization ("EBITDA") and weighting of forecasted scenarios. Given the nature of the put option liability, which gave rise to complex accounting, performing audit procedures to determine the appropriateness of the accounting required a high degree of specialized accounting knowledge. Performing audit procedures to evaluate the reasonableness of the inputs and the complex accounting required a high degree of auditor judgment and increased extent of effort including the need for the integral involvement of fair value specialists.

### How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the future EBITDA, weighting of forecasted scenarios and selection of discount rate used to value the put option liability, as well as the complex accounting of the put option liability included the following, among others:

- Evaluating the effectiveness of controls over the review of the appropriateness of the accounting.
- Evaluating the effectiveness of controls over the valuation of the put option liability including controls over the inputs, including future EBITDA, weighting of forecasted scenarios and the selection of discount rate.
- Assessing the reasonableness of management's forecasts of future EBITDA by comparing the projections to historical results and certain peer companies.
- Examining the contractual arrangements to ensure that the put option liability was accounted for appropriately.
- With the assistance of fair value specialists evaluating the weighting of forecasted scenarios to assess the reasonableness given the range of possible future outcomes relating to the put option liability.

/s/ Deloitte LLP

Chartered Professional Accountants  
Licensed Public Accountants  
Toronto, Ontario, Canada  
February 12, 2020

We have served as the Company's auditor since 1875.

# Report of Independent Registered Public Accounting Firm

To the Shareholders and the Board of Directors of Sun Life Financial Inc.

## Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Sun Life Financial Inc. and subsidiaries (the "Company") as of December 31, 2019, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2019, of the Company and our report dated February 12, 2020, expressed an unqualified opinion on those financial statements.

## Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Financial Reporting Responsibilities report. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

## Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte LLP

Chartered Professional Accountants  
Licensed Public Accountants  
Toronto, Ontario, Canada  
February 12, 2020

# CONSOLIDATED STATEMENTS OF OPERATIONS

For the years ended December 31, (in millions of Canadian dollars except for per share amounts)

	2019	2018
<b>Revenue</b>		
Premiums		
Gross	\$ 22,680	\$ 20,981
Less: Ceded	2,392	2,339
Net premiums	20,288	18,642
Net investment income (loss):		
Interest and other investment income (Note 5)	5,855	5,641
Fair value and foreign currency changes on assets and liabilities (Note 5)	7,118	(3,373)
Net gains (losses) on available-for-sale assets	167	121
Net investment income (loss)	13,140	2,389
Fee income (Note 17)	6,251	5,966
<b>Total revenue</b>	<b>39,679</b>	<b>26,997</b>
<b>Benefits and expenses</b>		
Gross claims and benefits paid (Note 10)	17,421	15,986
Increase (decrease) in insurance contract liabilities (Note 10)	11,367	312
Decrease (increase) in reinsurance assets (Note 10)	(28)	97
Increase (decrease) in investment contract liabilities (Note 10)	65	(31)
Reinsurance expenses (recoveries) (Note 11)	(2,131)	(2,021)
Commissions	2,417	2,339
Net transfer to (from) segregated funds (Note 22)	(437)	(308)
Operating expenses (Note 18)	7,033	6,432
Premium taxes	406	375
Interest expense	333	305
<b>Total benefits and expenses</b>	<b>36,446</b>	<b>23,486</b>
<b>Income (loss) before income taxes</b>	<b>3,233</b>	<b>3,511</b>
Less: Income tax expense (benefit) (Note 20)	286	597
<b>Total net income (loss)</b>	<b>2,947</b>	<b>2,914</b>
Less: Net income (loss) attributable to participating policyholders (Note 21)	230	298
Less: Net income (loss) attributable to non-controlling interests	4	-
<b>Shareholders' net income (loss)</b>	<b>2,713</b>	<b>2,616</b>
Less: Preferred shareholders' dividends	95	94
<b>Common shareholders' net income (loss)</b>	<b>\$ 2,618</b>	<b>\$ 2,522</b>

**Average exchange rates during the reporting periods:**

U.S. dollars	1.33	1.30
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**Earnings (loss) per share (Note 26)**

Basic earnings (loss) per share	\$ 4.42	\$ 4.16
Diluted earnings (loss) per share	\$ 4.40	\$ 4.14

**Dividends per common share**

	\$ 2.100	\$ 1.905
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The attached notes form part of these Consolidated Financial Statements.

## CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

For the years ended December 31, (in millions of Canadian dollars)	2019	2018
<b>Total net income (loss)</b>	<b>\$ 2,947</b>	<b>\$ 2,914</b>
<b>Other comprehensive income (loss), net of taxes:</b>		
Items that may be reclassified subsequently to income:		
Change in unrealized foreign currency translation gains (losses):		
Unrealized gains (losses)	(564)	911
Change in unrealized gains (losses) on available-for-sale assets:		
Unrealized gains (losses)	489	(313)
Reclassifications to net income (loss)	(120)	(89)
Change in unrealized gains (losses) on cash flow hedges:		
Unrealized gains (losses)	33	(10)
Reclassifications to net income (loss)	(19)	–
Share of other comprehensive income (loss) in joint ventures and associates:		
Unrealized gains (losses)	(9)	7
Total items that may be reclassified subsequently to income	(190)	506
Items that will not be reclassified subsequently to income:		
Remeasurement of defined benefit plans	(42)	84
Total items that will not be reclassified subsequently to income	(42)	84
Total other comprehensive income (loss)	(232)	590
<b>Total comprehensive income (loss)</b>	<b>2,715</b>	<b>3,504</b>
Less: Participating policyholders' comprehensive income (loss) (Note 21)	227	303
Less: Non-controlling interests' comprehensive income (loss)	4	–
<b>Shareholders' comprehensive income (loss)</b>	<b>\$ 2,484</b>	<b>\$ 3,201</b>

## INCOME TAXES INCLUDED IN OTHER COMPREHENSIVE INCOME (LOSS)

For the years ended December 31, (in millions of Canadian dollars)	2019	2018
<b>Income tax benefit (expense):</b>		
Items that may be reclassified subsequently to income:		
Unrealized foreign currency translation gains (losses)	\$ –	\$ (56)
Unrealized gains (losses) on available-for-sale assets	(110)	58
Reclassifications to net income for available-for-sale assets	31	31
Unrealized gains (losses) on cash flow hedges	(13)	4
Reclassifications to net income for cash flow hedges	8	–
Total items that may be reclassified subsequently to income	(84)	37
Items that will not be reclassified subsequently to income:		
Remeasurement of defined benefit plans	21	(17)
Total items that will not be reclassified subsequently to income	21	(17)
<b>Total income tax benefit (expense) included in other comprehensive income (loss)</b>	<b>\$ (63)</b>	<b>\$ 20</b>

The attached notes form part of these Consolidated Financial Statements.

# CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

As at December 31, (in millions of Canadian dollars)	2019	2018
<b>Assets</b>		
Cash, cash equivalents and short-term securities (Note 5)	\$ 9,575	\$ 9,506
Debt securities (Notes 5 and 6)	81,606	74,443
Equity securities (Notes 5 and 6)	4,787	4,634
Mortgages and loans (Notes 5 and 6)	48,222	46,822
Derivative assets (Notes 5 and 6)	1,548	1,112
Other invested assets (Note 5)	5,357	4,830
Policy loans (Note 5)	3,218	3,222
Investment properties (Note 5)	7,306	7,157
Invested assets	161,619	151,726
Other assets (Note 8)	5,216	4,498
Reinsurance assets (Notes 10 and 11)	4,024	4,141
Deferred tax assets (Note 20)	1,455	1,209
Intangible assets (Note 9)	2,083	1,779
Goodwill (Note 9)	5,832	5,412
Total general fund assets	180,229	168,765
Investments for account of segregated fund holders (Note 22)	116,973	103,062
<b>Total assets</b>	<b>\$ 297,202</b>	<b>\$ 271,827</b>
<b>Liabilities and equity</b>		
<b>Liabilities</b>		
Insurance contract liabilities (Note 10)	\$ 131,184	\$ 121,923
Investment contract liabilities (Note 10)	3,116	3,164
Derivative liabilities (Notes 5 and 6)	2,040	2,295
Deferred tax liabilities (Note 20)	406	322
Other liabilities (Note 12)	14,937	12,153
Senior debentures (Note 13)	500	1,299
Subordinated debt (Note 14)	3,538	3,039
Total general fund liabilities	155,721	144,195
Insurance contracts for account of segregated fund holders (Note 22)	110,269	96,663
Investment contracts for account of segregated fund holders (Note 22)	6,704	6,399
<b>Total liabilities</b>	<b>\$ 272,694</b>	<b>\$ 247,257</b>
<b>Equity</b>		
Issued share capital and contributed surplus	\$ 10,619	\$ 10,749
Shareholders' retained earnings and accumulated other comprehensive income	12,779	12,957
Total shareholders' equity	23,398	23,706
Participating policyholders' equity	1,091	864
Non-controlling interests' equity	19	-
<b>Total equity</b>	<b>\$ 24,508</b>	<b>\$ 24,570</b>
<b>Total liabilities and equity</b>	<b>\$ 297,202</b>	<b>\$ 271,827</b>

**Exchange rates at the end of the reporting periods:**

U.S. dollars	1.30	1.36
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The attached notes form part of these Consolidated Financial Statements.

Approved on behalf of the Board of Directors on February 12, 2020.

  
**Dean A. Connor**  
 President and Chief Executive Officer

  
**Sara Grootwassink Lewis**  
 Director

## CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

For the years ended December 31, (in millions of Canadian dollars)

2019

2018

**Shareholders:**

<b>Preferred shares (Note 15)</b>		
Balance, beginning and end of year	\$ 2,257	\$ 2,257
<b>Common shares (Note 15)</b>		
Balance, beginning of year	8,419	8,582
Stock options exercised	28	16
Common shares purchased for cancellation	(158)	(183)
Common shares issued as consideration for business acquisition	–	4
Balance, end of year	8,289	8,419
<b>Contributed surplus</b>		
Balance, beginning of year	73	72
Share-based payments	5	4
Stock options exercised	(5)	(3)
Balance, end of year	73	73
<b>Retained earnings</b>		
Balance, beginning of year	11,267	10,305
Adjustment for change in accounting policy (Note 2)	(22)	(44)
Balance, beginning of year, after change in accounting policy	11,245	10,261
Net income (loss)	2,713	2,616
Dividends on common shares	(1,236)	(1,147)
Dividends on preferred shares	(95)	(94)
Common shares purchased for cancellation (Note 15)	(434)	(458)
Transfer from participating policyholders' equity (Note 21)	–	89
Changes attributable to acquisition (Note 3)	(875)	–
Balance, end of year	11,318	11,267
<b>Accumulated other comprehensive income (loss), net of taxes (Note 27)</b>		
Balance, beginning of year	1,690	1,105
Total other comprehensive income (loss) for the year	(229)	585
Balance, end of year	1,461	1,690
<b>Total shareholders' equity, end of year</b>	<b>\$ 23,398</b>	<b>\$ 23,706</b>
<b>Participating policyholders:</b>		
Balance, beginning of year	\$ 864	\$ 650
Net income (loss) (Note 21)	230	298
Total other comprehensive income (loss) for the year (Note 27)	(3)	5
Transfer to retained earnings (Note 21)	–	(89)
<b>Total participating policyholders' equity, end of year</b>	<b>\$ 1,091</b>	<b>\$ 864</b>
<b>Non-controlling interests:</b>		
Balance, beginning of year	\$ –	\$ –
Changes attributable to acquisition (Note 3)	15	–
Net income (loss)	4	–
<b>Total non-controlling interests' equity, end of year</b>	<b>\$ 19</b>	<b>\$ –</b>
<b>Total equity</b>	<b>\$ 24,508</b>	<b>\$ 24,570</b>

The attached notes form part of these Consolidated Financial Statements.

## CONSOLIDATED STATEMENTS OF CASH FLOWS

For the years ended December 31, (in millions of Canadian dollars)	2019	2018
<b>Cash flows provided by (used in) operating activities</b>		
Income (loss) before income taxes	\$ 3,233	\$ 3,511
Adjustments:		
Interest expense related to financing activities	249	247
Increase (decrease) in insurance and investment contract liabilities	11,432	281
Decrease (increase) in reinsurance assets	(28)	97
Realized and unrealized (gains) losses and foreign currency changes on invested assets	(7,285)	3,252
Sales, maturities and repayments of invested assets	59,162	62,387
Purchases of invested assets	(64,165)	(65,353)
Income taxes received (paid)	(698)	(307)
Mortgage securitization (Note 5)	264	96
Other operating activities	383	(377)
<b>Net cash provided by (used in) operating activities</b>	<b>2,547</b>	<b>3,834</b>
<b>Cash flows provided by (used in) investing activities</b>		
Net (purchase) sale of property and equipment	(114)	(85)
Investment in and transactions with joint ventures and associates (Note 16)	19	(64)
Dividends received from joint ventures and associates (Note 16)	45	34
Acquisitions, net of cash and cash equivalents (Note 3) <sup>(1)</sup>	(167)	–
Other investing activities	(213)	(165)
<b>Net cash provided by (used in) investing activities</b>	<b>(430)</b>	<b>(280)</b>
<b>Cash flows provided by (used in) financing activities</b>		
Increase in (repayment of) borrowed funds	132	(40)
Issuance of subordinated debt, net of issuance costs (Note 14)	747	–
Redemption of senior debentures and subordinated debt (Notes 13 and 14)	(1,050)	(400)
Issuance of common shares on exercise of stock options	23	13
Common shares purchased for cancellation (Note 15)	(592)	(641)
Dividends paid on common and preferred shares	(1,318)	(1,227)
Payment of lease liabilities	(125)	–
Interest expense paid	(253)	(271)
<b>Net cash provided by (used in) financing activities</b>	<b>(2,436)</b>	<b>(2,566)</b>
Changes due to fluctuations in exchange rates	(190)	250
Increase (decrease) in cash and cash equivalents	(509)	1,238
Net cash and cash equivalents, beginning of year	7,194	5,956
Net cash and cash equivalents, end of year	6,685	7,194
Short-term securities, end of year	2,860	2,208
<b>Net cash, cash equivalents and short-term securities, end of year (Note 5)</b>	<b>\$ 9,545</b>	<b>\$ 9,402</b>

(1) Consists of total cash consideration paid of \$192 (\$nil in 2018), less cash and cash equivalents acquired of \$25 (\$nil in 2018).

The attached notes form part of these Consolidated Financial Statements.

# Notes to the Consolidated Financial Statements

(Amounts in millions of Canadian dollars except for per share amounts and where otherwise stated. All amounts stated in U.S. dollars are in millions.)

## 1. Significant Accounting Policies

### Description of Business

Sun Life Financial Inc. ("SLF Inc.") is a publicly traded company domiciled in Canada and is the holding company of Sun Life Assurance Company of Canada ("Sun Life Assurance"). Both companies are incorporated under the *Insurance Companies Act* (Canada), and are regulated by the Office of the Superintendent of Financial Institutions, Canada ("OSFI"). SLF Inc. and its subsidiaries are collectively referred to as "us", "our", "ours", "we", or "the Company". We are an internationally diversified financial services organization providing savings, retirement and pension products, and life and health insurance to individuals and groups through our operations in Canada, the United States ("U.S."), Asia, and the United Kingdom ("UK"). We also operate mutual fund and investment management businesses, primarily in Canada, the U.S., and Asia.

### Statement of Compliance

We prepared our Consolidated Financial Statements in accordance with International Financial Reporting Standards ("IFRS") as issued and adopted by the International Accounting Standards Board ("IASB"). Our accounting policies have been applied consistently within our Consolidated Financial Statements.

### Basis of Presentation

Our Consolidated Statements of Financial Position are presented in the order of liquidity and each statement of financial position line item includes both current and non-current balances, as applicable.

We have defined our reportable business segments and the amounts disclosed for those segments based on our management structure and the manner in which our internal financial reporting is conducted. Transactions between segments are executed and priced on an arm's-length basis in a manner similar to transactions with third parties.

The significant accounting policies used in the preparation of our Consolidated Financial Statements are summarized below and are applied consistently by us.

### Estimates, Assumptions and Judgments

The application of our accounting policies requires estimates, assumptions and judgments as they relate to matters that are inherently uncertain. We have established procedures to ensure that our accounting policies are applied consistently and that the processes for changing methodologies for determining estimates are controlled and occur in an appropriate and systematic manner.

### Use of Estimates and Assumptions

The preparation of our Consolidated Financial Statements requires us to make estimates and assumptions that affect the application of our policies and the reported amounts of assets, liabilities, revenue and expenses. Key sources of estimation uncertainty include the measurement of insurance contract liabilities and investment contract liabilities, determination of fair value, impairment of financial instruments, determination and impairment of goodwill and intangible assets, determination of provisions and liabilities for pension plans, other post-retirement benefits, income taxes, and the determination of fair value of share-based payments. Actual results may differ from our estimates thereby impacting our Consolidated Financial Statements. Information on our use of estimates and assumptions are discussed in this Note.

### Judgments

In preparation of these Consolidated Financial Statements, we use judgments to select assumptions and determine estimates as described above. We also use judgment when applying accounting policies and when determining the classification of insurance contracts, investment contracts and service contracts; the substance of whether our relationship with a structured entity, subsidiary, joint venture or associate constitutes control, joint control or significant influence; functional currencies; contingencies; acquisitions; deferred income tax assets; and the determination of cash generating unit ("CGU").

Significant estimates and judgments have been made in the following areas and are discussed as noted:

Insurance contract and investment contract assumptions and measurement	Note 1 Insurance Contract Liabilities and Investment Contract Liabilities Note 10 Insurance Contract Liabilities and Investment Contract Liabilities
Determination of fair value	Note 1 Basis of Consolidation Note 1 Determination of Fair Value Note 3 Acquisitions and Other Note 5 Total Invested Assets and Related Net Investment Income
Impairment of financial instruments	Note 1 Financial Assets Excluding Derivative Financial Instruments Note 6 Financial Instrument Risk Management
Income taxes	Note 1 Income Taxes Note 20 Income Taxes
Pension plans	Note 1 Pension Plans and Other Post-Retirement Benefits Note 25 Pension Plans and Other Post-Retirement Benefits
Goodwill and intangible assets on acquisition and impairment	Note 1 Goodwill Note 1 Intangible Assets Note 3 Acquisitions and Other Note 9 Goodwill and Intangible Assets
Determination of control for purpose of consolidation	Note 1 Basis of Consolidation Note 16 Interests in Other Entities
Share-based payments	Note 19 Share-Based Payments

## Basis of Consolidation

Our Consolidated Financial Statements include the results of operations and the financial position of subsidiaries, which includes structured entities controlled by us, after intercompany balances and transactions have been eliminated. Subsidiaries are fully consolidated from the date we obtain control, and deconsolidated on the date control ceases. The acquisition method is used to account for the acquisition of a subsidiary from an unrelated party at the date that control is obtained, with the difference between the consideration transferred and the fair value of the subsidiary's net identifiable assets acquired recorded as goodwill. Judgment is required to determine fair value of the net identifiable assets acquired in a business combination.

We control an entity when we have power over an entity, exposure to or rights to variable returns from our involvement with an entity, and the ability to affect our returns through our power over an entity. Power exists when we have rights that give us the ability to direct the relevant activities, which are those activities that could significantly affect the entity's returns. Power can be obtained through voting rights or other contractual arrangements. Judgment is required to determine the relevant activities and which party has power over these activities. When we have power over and variable returns from an entity, including an investment fund that we manage, we also apply significant judgment in determining whether we are acting as a principal or agent. To make this determination, we consider factors such as how much discretion we have regarding the management of the investment fund and the magnitude and extent of variability associated with our interests in the fund. If we determine we are the principal rather than the agent, we would consolidate the assets and liabilities of the fund. Interests held by external parties in investment funds that we consolidate are recorded as third-party interest in consolidated investment funds in Other liabilities. If we lose control of an entity, the assets and liabilities of that entity are derecognized from our Consolidated Statements of Financial Position at the date at which control is lost and any investment retained is remeasured to fair value.

A joint venture exists when SLF Inc., or one of its subsidiaries, has joint control of a joint arrangement and has rights to the net assets of the arrangement. Joint control is the contractually agreed sharing of control and exists only when the decisions about the relevant activities require the unanimous consent of the parties sharing control. Associates are entities over which SLF Inc. or its subsidiaries are able to exercise significant influence. Significant influence is the power to participate in the financial and operating policy decisions of an investee but not have control or joint control over those decisions. Significant influence is generally presumed to exist when SLF Inc. or its subsidiaries holds greater than 20% of the voting power of the investee but does not have control or joint control. The equity method is used to account for our interests in joint ventures and associates. A joint operation exists when SLF Inc., or one of its subsidiaries, has joint control of an arrangement that gives it rights to the assets and obligations for the liabilities of the operation, rather than the net assets of the arrangement. For joint operations, we record our share of the assets, liabilities, revenue and expenses of the joint operation. Judgment is required to determine whether contractual arrangements between multiple parties results in control, joint control or significant influence, with consideration of the relevant activities of the entity, voting rights, representation on boards of directors and other decision-making factors. Judgment is also required to determine if a joint arrangement is a joint venture or joint operation, with consideration of our rights and obligations and the structure and legal form of the arrangement.

## Determination of Fair Value

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. Fair value is measured using the assumptions that market participants would use when pricing an asset or liability. We determine fair value by using quoted prices in active markets for identical or similar assets or liabilities. When quoted prices in active markets are not available, fair value is determined using valuation techniques that maximize the use of observable inputs. When observable valuation inputs are not available, significant judgment is required to determine fair value by assessing the valuation techniques and valuation inputs. The use of alternative valuation techniques or valuation inputs may result in a different fair value. A description of the fair value methodologies, assumptions, valuation techniques, and valuation inputs by type of asset is included in Note 5.

## Foreign Currency Translation

### Translation of Transactions in Foreign Currencies

The financial results of SLF Inc. and its subsidiaries, joint ventures and associates are prepared in the currency in which they conduct their ordinary course of business, which is referred to as functional currency. Transactions occurring in currencies other than the functional currency are translated to the functional currency using the spot exchange rates at the dates of the transactions.

Monetary assets and liabilities in foreign currencies are translated to the functional currency at the exchange rate at the statement of financial position date. Non-monetary assets and liabilities in foreign currencies that are held at fair value are translated using the exchange rate at the statement of financial position date, while non-monetary assets and liabilities that are measured at historical cost are translated using the exchange rate at the date of the transaction.

The resulting exchange differences from the translation of monetary items and non-monetary items held at fair value, with changes in fair value recorded to income, are recognized in our Consolidated Statements of Operations. For monetary assets classified as available-for-sale ("AFS"), translation differences calculated on amortized cost are recognized in our Consolidated Statements of Operations and other changes in carrying amount are recognized in other comprehensive income ("OCI"). The exchange differences from the translation of non-monetary items classified as AFS are recognized in OCI.

### Translation to the Presentation Currency

In preparing our Consolidated Financial Statements, the financial statements of foreign operations are translated from their respective functional currencies to Canadian dollars, our presentation currency. Assets and liabilities are translated at the closing exchange rate at the statement of financial position date, and income and expenses are translated using the average exchange rates. The accumulated gains or losses arising from translation of functional currencies to the presentation currency, net of the effect of any hedges, are included as a separate component of OCI within equity. Upon disposal of a foreign operation that includes loss of control, significant influence or joint control, the cumulative exchange gain or loss related to that foreign operation is recognized in income.

## Invested Assets

### Financial Assets Excluding Derivative Financial Instruments

Financial assets include cash, cash equivalents and short-term securities, debt securities, equity securities, mortgages and loans, financial assets included in other invested assets and policy loans. Financial assets are designated as financial assets at fair value through profit or loss ("FVTPL") or AFS assets, or are classified as loans and receivables at initial recognition.

The following table summarizes the financial assets included in our Consolidated Statements of Financial Position and the asset classifications applicable to these assets:

Cash, cash equivalents and short-term securities	FVTPL
Debt securities	FVTPL and AFS
Equity securities	FVTPL and AFS
Mortgages and loans	Loans and receivables
Other invested assets	FVTPL and AFS
Policy loans	Loans and receivables

Mortgages and loans include mortgages, loans and debt securities not quoted in an active market. Financial assets included in Other invested assets include investments in limited partnerships, segregated funds and mutual funds. Cash equivalents are highly liquid instruments with a term to maturity of three months or less, while short-term securities have a term to maturity exceeding three months but less than one year. Policy loans are fully secured by the policy values on which the loans are made. The accounting for each asset classification is described in the following sections.

#### i) Initial Recognition and Subsequent Measurement

Generally, debt securities, equity securities and other invested assets supporting our insurance contract liabilities or investment contract liabilities measured at fair value are designated as FVTPL, while debt securities, equity securities and other invested assets not supporting our insurance contract liabilities or that are supporting investment contract liabilities are measured at amortized cost or designated as AFS. Mortgages and loans and policy loans are classified as loans and receivables. Financial assets are recognized in the Consolidated Statements of Financial Position on their trade dates, which are the dates that we commit to purchase or sell the assets. Originated mortgages and loans are recognized in the Consolidated Statements of Financial Position on their funding dates.

#### *Financial Assets at Fair Value Through Profit or Loss*

Financial assets at FVTPL include financial assets that are held-for-trading ("HFT"), as well as financial assets that have been designated as FVTPL at initial recognition. A financial asset is classified as HFT if it is acquired principally for the purpose of selling in the near term. A financial asset can be designated as FVTPL if it eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise from measuring assets or liabilities or recognizing the gains and losses on them on different bases; or if a group of financial assets, financial liabilities or both, is managed and its performance is evaluated on a fair value basis. Cash equivalents and short-term securities have been classified as HFT.

Generally, debt securities, equity securities and other invested assets supporting insurance contract liabilities or investment contract liabilities measured at fair value have been designated as FVTPL. This designation has been made to eliminate or significantly reduce the measurement inconsistency that would arise due to the measurement of the insurance contract or investment contract liabilities, which are based on the carrying value of the assets supporting those liabilities. Because the carrying value of insurance contract liabilities is determined by reference to the assets supporting those liabilities, changes in the insurance contract liabilities generally offset changes in the fair value of debt securities classified as FVTPL, except for changes that are due to impairment. The majority of equity securities and other invested assets classified as FVTPL are held to support products where investment returns are passed through to policyholders and therefore, changes in the fair value of those assets are significantly offset by changes in insurance contract liabilities.

Financial assets classified as FVTPL are recorded at fair value in our Consolidated Statements of Financial Position and transaction costs are expensed immediately. Changes in fair value as well as realized gains and losses on sale are recorded in Fair value and foreign currency changes on assets and liabilities in our Consolidated Statements of Operations. Interest income earned and dividends received are recorded in Interest and other investment income in our Consolidated Statements of Operations.

#### *Available-for-Sale Financial Assets*

Financial assets classified as AFS are recorded at fair value in our Consolidated Statements of Financial Position and transaction costs are capitalized on initial recognition. Transaction costs for debt securities are recognized in income using the effective interest method, while transaction costs for equity securities and other invested assets are recognized in income when the asset is derecognized. Changes in fair value are recorded to unrealized gains and losses in OCI. For foreign currency translation, exchange differences calculated on the amortized cost of AFS debt securities are recognized in income and exchange differences calculated on other changes in carrying amount are recognized in OCI. The exchange differences from the translation of AFS equity securities and other invested assets are recognized in OCI. Interest income earned and dividends received are recorded in Interest and other investment income in our Consolidated Statements of Operations. Net impairment losses and realized gains and losses on the sale of assets classified as AFS are reclassified from accumulated OCI to Net gains (losses) on available-for-sale assets in our Consolidated Statements of Operations.

#### *Loans and Receivables*

Loans and receivables are generally carried at amortized cost. Transaction costs for mortgages and loans are capitalized on initial recognition and are recognized in income using the effective interest method. Realized gains and losses on the sale of mortgages and loans, interest income earned, and fee income are recorded in Interest and other investment income in our Consolidated Statements of Operations.

#### *Solely Payments of Principal and Interest ("SPPI") Disclosures*

In September 2016, the IASB issued *Amendments to IFRS 4* to allow insurance entities whose predominant activities are to issue contracts within the scope of IFRS 4 an optional temporary exemption from applying IFRS 9 *Financial Instruments* ("IFRS 9") ("deferral approach"). We qualify and have elected to take the deferral approach as our activities are predominantly connected with insurance and we will continue to apply IAS 39 *Financial Instruments: Recognition and Measurement* ("IAS 39"), the existing financial instrument standard.

To enable a comparison to entities applying IFRS 9 we disclose those invested assets that pass the SPPI test, excluding any that are managed and whose performance is evaluated on a fair value basis. Except for Debt securities designated as AFS and Mortgages and loans, our financial assets are managed and their performance is evaluated on a fair value basis. Please refer to Note 5.A.i for the related disclosure as at December 31, 2019 and 2018.

Financial assets that pass the SPPI test are assets with contractual terms that give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

#### **ii) Derecognition**

Financial assets are derecognized when our rights to contractual cash flows expire, when we transfer substantially all our risks and rewards of ownership, or when we no longer retain control.

#### **iii) Impairment**

Financial assets are assessed for impairment on a quarterly basis. Financial assets are impaired and impairment losses are incurred if there is objective evidence of impairment as a result of one or more loss events and that event has an impact on the estimated future cash flows that can be reliably estimated. Objective evidence of impairment generally includes significant financial difficulty of the issuer, including actual or anticipated bankruptcy or defaults and delinquency in payments of interest or principal or disappearance of an active market for that financial asset. Objective evidence of impairment for an investment in an equity instrument or other invested asset also includes, but is not limited to, the financial condition and near-term prospects of the issuer, including information about significant changes with adverse effects that have taken place in the technological, market, economic, or legal environment in which the issuer operates that may indicate that the carrying amount will not be recovered, and a significant or prolonged decline in the fair value of an equity instrument or other invested asset below its cost. Management exercises considerable judgment in assessing for objective evidence of impairment. Due to the inherent risks and uncertainties in our evaluation of assets or groups of assets for objective evidence of impairment, the actual impairment amount and the timing of the recognition of impairment may differ from management assessment. The impairment assessment process is discussed in Note 6.

#### *Financial Assets at Fair Value Through Profit or Loss*

Since financial assets classified as FVTPL are carried at fair value with changes in fair value recorded to income, any reduction in value of the assets due to impairment is already reflected in income. However, the impairment of assets classified as FVTPL generally impacts the change in insurance contract liabilities due to the impact of asset impairment on estimates of future cash flows.

#### *Available-for-Sale Financial Assets*

When there is objective evidence that a financial asset classified as AFS is impaired, the loss in accumulated OCI is reclassified to Net gains (losses) on available-for-sale assets in our Consolidated Statements of Operations. Following impairment loss recognition, a debt security continues to be carried at fair value with changes in fair value recorded in OCI, and it is assessed quarterly for further impairment loss or reversal. Subsequent losses on an impaired equity security or other invested asset, including losses relating to foreign currency changes, are reclassified from OCI to income in subsequent reporting periods until the asset is derecognized. Once an impairment loss on a debt security classified as AFS is recorded to income, any reversal of impairment loss through income occurs only when the recovery in fair value is objectively related to an event occurring after the impairment was recognized. Impairment losses on an equity security or other invested asset classified as AFS are not reversed through income.

#### *Loans and Receivables*

If an impairment loss on an individual mortgage or loan has been incurred, the amount of the loss is measured as the difference between the asset's carrying amount and the present value of the estimated future cash flows discounted at the asset's original effective interest rate. For collateralized financial assets, the present value of the estimated future cash flows reflects the cash flows that may result from foreclosure less costs to sell, whether or not foreclosure is probable. If no evidence of impairment exists for an individually assessed mortgage or loan, it is included in a group of loans with similar credit risk characteristics and collectively assessed for impairment.

When an impairment loss has been incurred, the carrying amount of the asset is reduced through the use of an allowance account, and the amount of the loss is recognized in income. If the impairment loss subsequently decreases and the decrease can be related objectively to an event occurring after the initial impairment charge was recognized, the previous impairment charge is reversed by adjusting the allowance account and the reversal is recognized in income. Interest income is recognized on impaired mortgages and loans using the effective interest rate method and it is based on the estimated future cash flows used to measure the impairment loss. Changes in the allowance account, other than write-offs net of recoveries, are charged against Interest and other investment income in our Consolidated Statements of Operations. Write-offs, net of recoveries, are deducted from the allowance account when there is no realistic prospect of recovery, which is typically not before derecognition of the asset through foreclosure or sale.

### **Collateral**

Cash received (pledged) as collateral is recognized (derecognized) in our Consolidated Statements of Financial Position with corresponding amounts recognized in Other liabilities (Other assets), respectively. All other types of assets received (pledged) as collateral are not recognized (derecognized) in our Consolidated Statements of Financial Position.

### **Derivative Financial Instruments**

All derivative financial instruments are recorded at fair value in our Consolidated Statements of Financial Position. Derivatives with a positive fair value are recorded as Derivative assets while derivatives with a negative fair value are recorded as Derivative liabilities.

The accounting for the changes in fair value of a derivative instrument depends on whether or not it is designated as a hedging instrument for hedge accounting purposes. Changes in (i) fair value of derivatives that are not designated for hedge accounting purposes, which are defined as derivative investments, and (ii) embedded derivatives that are bifurcated, are recorded in Fair value and foreign currency changes on assets and liabilities in our Consolidated Statements of Operations. Income earned or paid on these derivatives is recorded in Interest and other investment income in our Consolidated Statements of Operations. Hedge accounting is applied to certain derivatives to reduce income statement volatility. When certain qualification criteria are met, hedge accounting recognizes the offsetting effects of hedging instruments and hedged items in income or defers the effective portion of changes in fair value of hedging instruments in OCI until there is a recognition event, such as the occurrence of a forecasted transaction or the disposal of an investment in a foreign operation, or hedge accounting is discontinued. All hedging relationships are documented at inception and hedge effectiveness is assessed at inception and on a quarterly basis to determine whether the hedging instruments are highly effective in offsetting changes attributable to the hedged risk in the fair value or cash flows of the hedged items.

### **Fair Value Hedges**

Certain interest rate swaps and foreign currency forwards are designated as hedging instruments in fair value hedges of the interest rate or foreign exchange rate risks associated with AFS assets. Changes in fair value of the derivatives are recorded in Interest and other investment income in our Consolidated Statements of Operations. The change in fair value of the AFS assets related to the hedged risk is reclassified from OCI to income. As a result, ineffectiveness, if any, is recognized in income to the extent that changes in fair value of the derivatives and AFS assets do not offset. Interest income earned and paid on the AFS assets and swaps in the fair value hedging relationships are recorded in Interest and other investment income in our Consolidated Statements of Operations.

### **Cash Flow Hedges**

Certain equity and foreign currency forwards are designated as hedging instruments in cash flow hedges for anticipated payments of awards under certain share-based payment plans and for anticipated foreign currency purchases of foreign operations. Changes in the fair value of derivatives for the effective portion of the hedge are recognized in OCI, while the ineffective portion of the hedge and any items excluded from the hedging relationship, such as the spot-to-forward differential, are recognized in Interest and other investment income in our Consolidated Statements of Operations. A portion of the amount recognized in OCI related to the equity forwards is reclassified to income as a component of Operating expenses as the liabilities for the share-based payment awards are accrued over the vesting period. A portion of the amounts recognized in OCI related to the foreign currency forwards would be reclassified to income upon disposal or impairment of the foreign operations. All amounts recognized in, or reclassified from, OCI are net of related taxes.

### **Embedded Derivatives**

An embedded derivative is a component of a host contract that modifies the cash flows of the host contract in a manner similar to a derivative, according to a specified interest rate, financial instrument price, foreign exchange rate, underlying index or other variable. We are required to separate embedded derivatives from the host contract, if an embedded derivative has economic and risk characteristics that are not closely related to the host contract, meets the definition of a derivative, and the combined contract is not measured at fair value with changes recognized in income. If an embedded derivative is bifurcated for accounting purposes from the host contract, it will be accounted for as a derivative. For further details on embedded derivatives in insurance contracts, see the Insurance Contract Liabilities accounting policy in this Note.

### **Investment Properties**

Investment properties are real estate held to earn rental income, for capital appreciation, or both. Properties held to earn rental income or for capital appreciation that have an insignificant portion that is owner-occupied are classified as investment properties. Properties that do not meet these criteria are classified as property and equipment, included in Other assets as described below. Expenditures related to ongoing maintenance of properties incurred subsequent to acquisition are expensed. Investment properties are initially recognized at cost in our Consolidated Statements of Financial Position. Various costs incurred associated with the acquisition of an investment property are either capitalized or expensed depending on whether or not the acquisition is considered a business combination. Investment properties are subsequently measured at fair value with changes in value recorded to Fair value and foreign currency changes on assets and liabilities in our Consolidated Statements of Operations.

When the use of a property changes from owner-occupied to investment property, any gain arising on the remeasurement of the property to fair value at the date of transfer is recognized in our Consolidated Statements of Operations to the extent that it reverses a previous impairment loss. Any remaining increase is recognized in OCI.

## Other Invested Assets – Non-Financial Assets

Other invested assets also include non-financial assets such as investments in joint ventures and associates, which are accounted for using the equity method. Investments in joint ventures and associates are initially recorded at cost. The investment in joint ventures and associates is increased by our share of capital contributions and for purchases of additional interests and is reduced by distributions received. In addition, subsequent adjustments to the investment are made for our share of net income or loss and our share of OCI. Our share of net income is recorded in Interest and other investment income in our Consolidated Statements of Operations and our share of OCI is recorded in our Consolidated Statements of Comprehensive Income (Loss). Impairment losses on equity method investments are recognized when events or changes in circumstances indicate that they are impaired. The impairment loss recognized is the difference between the carrying amount and the recoverable amount.

## Other Assets

Other assets, which are measured at amortized cost, include accounts receivable, investment income due and accrued, deferred acquisition costs, property and equipment, and lessee's right-of-use assets. Deferred acquisition costs arising from service contracts or from service components of investment contracts are amortized over the expected life of the contracts based on the future expected fees. Owner-occupied properties are amortized to their residual value over 25 to 49 years. Furniture, computers, other office equipment, and leasehold improvements are amortized to their residual value over 2 to 20 years. The right-of-use asset is subsequently depreciated on a straight-line basis over the lease term.

## Reinsurance Assets

In the normal course of business, we use reinsurance to limit exposure to large losses. We have a retention policy that requires that such arrangements be placed with well-established, highly-rated reinsurers. Reinsurance assets are measured consistently with the amounts associated with the underlying insurance contracts and in accordance with the terms of each reinsurance contract. Amounts due to or from reinsurers with respect to premiums received or paid claims are included in Other assets and Other liabilities in the Consolidated Statements of Financial Position. Premiums for reinsurance ceded are presented as premiums ceded in the Consolidated Statements of Operations. Reinsurance expenses (recoveries), as presented in our Consolidated Statements of Operations, represent reinsurance expenses and expense recoveries resulting from reinsurance agreements.

Reinsurance assets are subject to impairment testing. If impaired, the carrying value is reduced, and an impairment loss is recognized in Reinsurance expenses (recoveries) in our Consolidated Statements of Operations. Impairment occurs when objective evidence exists (as a result of an event) after the initial recognition of the reinsurance asset indicating that not all amounts due under the terms of the contract will be received, and the impairment can be reliably measured.

Reinsurance assumed is accounted for as an insurance, investment or service contract depending on the underlying nature of the agreement and if it meets the definition of an insurance, investment or service contract. For the accounting for these types of contracts, see the respective policy section in this Note.

## Intangible Assets

Intangible assets consist of finite life and indefinite life intangible assets. Finite life intangible assets are amortized on a straight-line basis or using a units-of-production method, over the useful economic lives which are varying periods of up to 40 years. Amortization is charged through operating expenses. The useful lives of finite life intangible assets are reviewed annually, and the amortization is adjusted as necessary. Indefinite life intangibles are not amortized, and are assessed for impairment annually or more frequently if events or changes in circumstances indicate that the asset may be impaired. Impairment is assessed by comparing the carrying values of the indefinite life intangible assets to their recoverable amounts. The recoverable amount is the higher of an asset's fair value less costs to sell and its value in use. If the carrying values of the indefinite life intangibles exceed their recoverable amounts, these assets are considered impaired, and a charge for impairment is recognized in our Consolidated Statements of Operations. The recoverable amount of intangible assets is determined using various valuation models, which require management to make certain judgments and assumptions that could affect the estimates of the recoverable amount.

## Goodwill

Goodwill represents the excess of the cost of an acquisition over the fair value of the net identifiable tangible and intangible assets of the acquired businesses. It is carried at original cost less any impairment subsequently incurred. Goodwill is assessed for impairment annually or more frequently if events or circumstances occur that may result in the recoverable amount of a CGU or a group of CGUs falling below its carrying value. A CGU is the smallest identifiable group of assets that generates cash inflows that are largely independent of cash inflows from other groups of assets. We exercise significant judgment in determining our CGUs. The factors considered in determining our CGUs include product cash inflows, product distribution, target markets, and how management monitors and evaluates the operations.

The goodwill balances are allocated to either individual or groups of CGUs that are expected to benefit from the synergies of the business combination. Goodwill impairment is quantified by comparing a CGU's or a group of CGUs' carrying value to its recoverable amount, which is the higher of fair value less costs of disposal and value in use. Impairment losses are recognized immediately and cannot be reversed in future periods. Significant judgment is involved in estimating the model inputs used to determine the recoverable amount of our CGUs or group of CGUs, including those for discount rates, capital, the value of new business, expenses, cash flow projections, and market multiples, due to the uncertainty and the forward-looking nature of these inputs. The assumptions may differ from the actual experience, and estimates may change from period to period based on future events or revisions of assumptions. These key assumptions are discussed in Note 9.

## Insurance Contract Liabilities

Insurance contracts are contracts under which we accept significant insurance risk from a policyholder by agreeing to compensate the policyholder if a specified uncertain future event adversely affects the policyholder. The presence of significant insurance risk in individual contracts is assessed by reviewing books of contracts with homogeneous risk features. Judgment is required to determine the classification of a contract as an insurance contract, investment contract or a service contract.

As discussed in the Segregated Funds section of this Note, certain insurance contracts under which the policyholder bears the risks associated with the underlying investments are classified as Insurance contracts for account of segregated fund holders in our Consolidated Statements of Financial Position.

Insurance contract liabilities, including policy benefits payable and provisions for policyholder dividends, are determined in accordance with Canadian accepted actuarial practice and any requirements of OSFI. As confirmed by guidance provided by the Canadian Institute of Actuaries ("CIA"), the current Canadian Asset Liability Method ("CALM") of valuation of insurance contract liabilities satisfies the IFRS 4 *Insurance Contracts* ("IFRS 4") requirements for eligibility for use under IFRS. Under CALM, liabilities are set equal to the statement of financial position value of the assets required to support them.

Some insurance contracts contain discretionary participation features ("DPF"), whereby the policyholder has the right to receive potentially significant additional benefits based on the actual investments and other experience on a block of similar contracts. IFRS allows the non-guaranteed, or participating, elements of such contracts to be classified as either a liability or as equity, depending on the nature of our obligation to the policyholder. The contracts issued by us contain constructive obligations to the policyholder with respect to the DPF of the contracts. We have therefore elected to classify these features as a liability, consistent with accounting treatment under CALM, and in accordance with guidance provided by the CIA.

Derivatives embedded in insurance contracts are treated as separate derivatives and measured at fair value with changes in fair value recognized in income, except when the embedded derivative itself meets the definition of an insurance contract under IFRS, or when the risks and characteristics are closely related to those of the host contracts or when the derivative is the policyholder's option to surrender an insurance contract for a fixed amount or an amount based on a fixed amount and an interest rate. The derivatives that have not been separated are accounted for as insurance contract liabilities.

Significant judgment is required in determining our liabilities for insurance contracts including the assumptions required for their determination. Application of different assumptions may result in different measurement of the insurance contract liabilities. Actual experience may differ from assumptions, and estimates may change from period to period based on future events or revisions of assumptions. Key assumptions and considerations in choosing assumptions are discussed in Note 10 and sensitivities are discussed in Note 7.

## Financial Liabilities

### Investment Contract Liabilities

Contracts issued by us that do not transfer significant insurance risk, but do transfer financial risk from the policyholder to us, are financial liabilities and are accounted for as investment contracts. Service components of investment contracts are treated as service contracts. For further details on how service components of investment contracts are treated, see the Service Contracts accounting policy in this Note.

Liabilities for investment contracts without DPF are measured at FVTPL or amortized cost. Contracts recorded at FVTPL are measured at fair value at inception and each subsequent reporting period. Contracts recorded at amortized cost are initially recognized at fair value, less transaction costs directly attributable to the issue of the contract. At each subsequent period, the contracts are measured at amortized cost using the effective interest method. Changes in fair value of investment contract liabilities recorded at FVTPL and amortization on contracts recorded at amortized cost are recorded as an Increase (decrease) in investment contract liabilities in our Consolidated Statements of Operations. Deposits collected from and payments made to contract holders are recorded as an increase and decrease in Investment contract liabilities in our Consolidated Statements of Financial Position. These liabilities are derecognized when the obligation of the contract is discharged, cancelled or expired.

As discussed in the Segregated Funds section of this Note, certain investment contracts under which the policyholder bears the risks associated with the underlying investments are classified as Investment contracts for account of segregated fund holders in the Consolidated Statements of Financial Position. The accounting for investment contracts that contain DPF is described in the Insurance Contract Liabilities section of this Note.

### Other Liabilities

Other liabilities, which are measured at amortized cost, include accounts payable, lines of credit, repurchase agreements, accrued expenses and taxes, senior financing, provisions, lessee's lease liabilities and a deferred payment liability. Liabilities for provisions, other than insurance contract liabilities and investment contract liabilities, are recognized for present legal or constructive obligations as a result of a past event if it is probable that they will result in an outflow of economic resources and the amount can be reliably estimated. The amounts recognized for these provisions are the best estimates of the expenditures required to settle the present obligations or to transfer them to a third party at the statement of financial position date, considering all the inherent risks and uncertainties, as well as the time value of money. These provisions are reviewed as relevant facts and circumstances change.

The lease liabilities are initially measured at the present value of lease payments over the term of the lease using a discount rate that is based on our incremental borrowing rate. Subsequently, the lease liabilities are measured at amortized cost using the effective interest method.

Other liabilities also include the Put option liability, which is measured at fair value. Upon initial recognition, the present value of the put option is calculated using our incremental borrowing rate. The subsequent interest expense recorded using the effective interest method as well as subsequent revisions to the expected exercise price payable for the put option will be recognized in the Consolidated Statements of Operations. If the put option expires unexercised or is cancelled, the carrying value of the financial liability will be released first to non-controlling interests ("NCI"), with excess amounts if any recognized against retained earnings.

Further details on the put option and deferred payment liabilities are included in Note 3.

### Senior Debentures and Subordinated Debt

Senior debentures and subordinated debt liabilities are recorded at amortized cost using the effective interest method. Transaction costs are recorded as part of the liability and are recognized in income using the effective interest method. These liabilities are derecognized when the obligation of the contract is discharged, cancelled or expired.

### Service Contracts

Contracts issued by us to customers that do not transfer significant insurance risk and do not transfer financial risk from the customer to us, including contracts for investment management service, are classified as service contracts. Service components of investment contracts are also accounted for as service contracts. Fee income earned from these contracts is described in the Premium and Fee Income Recognition accounting policy section of this Note. Deferred acquisition costs are described under the Other Assets accounting policy section of this Note. Where the cost of meeting the obligations of the contract exceed the economic benefits expected to be received under it, a provision is recognized in Other liabilities.

## Segregated Funds

Segregated funds are products for which we issue a contract where the benefit amount is directly linked to the fair value of the investments held in the particular segregated fund. Although the underlying assets are registered in our name and the segregated fund contract holder has no direct access to the specific assets, the contractual arrangements are such that the segregated fund policyholder bears the risks and rewards of the fund's investment performance. In addition, certain contracts include guarantees from us. We derive fee income from segregated funds, which is included in Fee income in our Consolidated Statements of Operations. Policyholder transfers between general funds and segregated funds are included in Net transfer to (from) segregated funds in our Consolidated Statements of Operations. Deposits to segregated funds are reported as increases in segregated funds liabilities and are not reported as revenues in our Consolidated Statements of Operations.

### Investments for Account of Segregated Fund Holders

Investments for account of segregated fund holders are recorded separately from the Total general fund assets in our Consolidated Statements of Financial Position and are carried at fair value. Fair values are determined using quoted market values or, where quoted market values are not available, estimated fair values as determined by us.

### Insurance Contracts for Account of Segregated Fund Holders

Insurance contracts for account of segregated fund holders are recorded separately from the Total general fund liabilities in our Consolidated Statements of Financial Position. Insurance contracts under which the segregated fund holders bear the risks associated with the underlying investments are classified as Insurance contracts for account of segregated fund holders. The liabilities reported as Insurance contracts for account of segregated fund holders are measured at the aggregate of the policyholder account balances. Changes in the fair value of the invested assets of the segregated funds are recorded in net realized and unrealized gains (losses) within the segregated fund and are not recorded in our Consolidated Statements of Operations.

Other assets and liabilities associated with these insurance contracts, such as origination costs and the liabilities associated with guarantees provided by us, are included in general fund liabilities in Insurance contract liabilities in our Consolidated Statements of Financial Position.

### Investment Contracts for Account of Segregated Fund Holders

Investment contracts for account of segregated fund holders are recorded separately from the Total general fund liabilities in our Consolidated Statements of Financial Position. Investment contracts under which the segregated fund holders bear the risks associated with the underlying investments are classified as Investment contracts for account of segregated fund holders. The liabilities reported as Investment contracts for account of segregated fund holders are measured at the aggregate of the policyholder account balances.

Other liabilities associated with these investment contracts, such as onerous contract provisions required for service components, are included in general fund liabilities in Investment contract liabilities in our Consolidated Statements of Financial Position.

## Income Taxes

Current income tax assets and liabilities for the current and prior periods are measured at the amount expected to be recovered from or paid to the taxation authorities. Deferred income tax is provided using the liability method on temporary differences at the statement of financial position date between the tax bases of assets and liabilities and their carrying amounts for financial reporting purposes. Current and deferred income tax relating to items recognized in the current or previous period in OCI or directly in equity is accordingly recognized in OCI or equity and not in our Consolidated Statements of Operations. Interest and penalties payable to taxation authorities are recorded in Interest expense and Operating expenses, respectively, in our Consolidated Statements of Operations.

Deferred income tax assets and liabilities are calculated based on income tax rates and laws that are expected to apply when the liability is settled or the asset is realized, which are normally those enacted or considered substantively enacted at our Consolidated Statements of Financial Position dates. Deferred income tax assets are recognized for all deductible temporary differences, carry forward of unused tax credits and unused tax losses to the extent of the probability that future taxable profit will be available against which these assets can be utilized. At each reporting period, we assess all available evidence, both positive and negative, to determine the amount of deferred income tax assets to be recognized. The recognition of deferred income tax assets requires estimates and significant judgment about future events, such as projections of future taxable profits, based on the information available at the reporting date.

The determination of the required provision for current and deferred income taxes requires that we interpret tax legislation in the jurisdictions in which we operate. For each reporting period, our income tax provision reflects our best estimate, based on the information available at the reporting date, of tax positions that are under audit or appeal by relevant tax authorities. To the extent that our estimate of tax positions or the timing of realization of deferred income tax assets or liabilities are not as expected, the provision for income taxes may increase or decrease in the future to reflect the actual experience.

Deferred income tax is provided on temporary differences arising on investments in subsidiaries, joint ventures and associates, except where we control the timing of the reversal of the temporary difference and it is apparent that the temporary difference will not reverse in the foreseeable future. No deferred income tax asset or liability is recognized in relation to temporary differences that arise from the initial recognition of an asset or liability in a transaction that is not a business combination and, at the time of the transaction, did not affect either the accounting profit or taxable profit or loss. Deferred income tax assets and deferred income tax liabilities are offset if a legally enforceable right exists to set off current tax assets against current tax liabilities, the deferred income taxes relate to the same taxable entity and the same taxation authority and we intend either to settle on a net basis, or to realize the asset and settle the liability simultaneously.

In determining the impact of taxes, we are required to comply with Canadian accepted actuarial practice and IFRS. CALM requires that all projected cash flows associated with insurance contract liabilities, including income taxes, be included in the determination of insurance contract liabilities. The insurance contract liabilities are therefore determined including all policy-related income tax effects on a discounted basis, and then adjusted for any related deferred income tax assets and liabilities held in accordance with IFRS. The net result of this adjustment is to leave the discounting effect of the deferred income taxes associated with temporary differences on policy-related tax items in the insurance contract liabilities.

## Pension Plans and Other Post-Retirement Benefits

For defined benefit plans, the present value of the defined benefit obligation is calculated by independent actuaries using the projected unit credit method, and actuarial assumptions that represent best estimates of future variables that will affect the ultimate cost of these

obligations. The discount rate used for our material defined benefit plans is determined with reference to market yields of high-quality corporate bonds that are denominated in the same currency in which the benefits will be paid, and that have terms to maturity approximating the terms of obligations. Plan assets are measured at fair value and are held in separate trustee administered funds or as qualifying insurance contracts. The difference between the fair value of the plan assets and the present value of the defined benefit obligation is recognized on the Consolidated Statements of Financial Position as an asset or liability in Other assets or Other liabilities, respectively.

Costs charged to our Consolidated Statements of Operations include current service cost, any past service costs, any gains or losses from curtailments or settlements, and interest on the net defined benefit liability (asset). Remeasurement of the net defined benefit liability (asset), which includes the impact of changes to the actuarial assumption underlying the liability calculations, liability experience gains or losses, the difference between the return on plan assets and the amount included in the interest on the net defined benefit liability (asset), is reflected immediately in OCI. The calculation of the defined benefit expenses and obligations requires judgment as the recognition is dependent on various actuarial assumptions such as discount rates, health care cost trend rates and projected compensation increases. These key assumptions are discussed in Note 25.

## Dividends

Dividends payable to holders of shares of SLF Inc. are recognized in the period in which they are authorized or approved. Dividends that have been reinvested in additional common shares under the Dividend Reinvestment and Share Purchase Plan (“DRIP”) are also reflected as dividends within retained earnings. Where SLF Inc. has issued common shares from treasury under the DRIP, the additional shares have been reflected in common shares.

## Premium and Fee Income Recognition

Gross premiums for all types of insurance contracts excluding segregated fund contracts are generally recognized as revenue when due.

Fee income is generated from insurance contracts and service contracts.

Fee income from insurance contracts includes fees from segregated fund contracts, guarantee fees and other fees associated with insurance contracts and is typically recognized as revenue when services are rendered.

Fee income from service contracts represents fees associated with non-insurance contracts with customers and includes Distribution fees, Fund management and other asset-based fees, and Administrative services and other fees. Distribution fees includes fees earned from the distribution of investment products and other intermediary activities. Fund management and other asset-based fees includes fees earned from investment management services. Administrative services and other fees includes fees earned from contract administration and other management services. Fee income from service contracts is typically recognized as revenue when services are rendered at either a point in time or over time. The majority of fee income from service contracts is comprised of variable consideration which is based on a percentage of assets under management or another variable metric and is recognized as revenue when it is highly probable that a significant reversal in the amount of the revenue recognized will not occur.

## Share-Based Payments

Stock options of SLF Inc. granted to employees are accounted for as equity-settled share-based payment transactions. The total compensation expense for stock options is computed based on the fair value of the stock option at the date of grant and the estimated number of options expected to vest at the end of the vesting period. The expense is recognized over the vesting period as compensation expense in Operating expenses in our Consolidated Statements of Operations, with an offset to contributed surplus in our Consolidated Statements of Changes in Equity. When options are exercised, new common shares are issued, contributed surplus is reversed and the common shares issued are credited to common shares in our Consolidated Statements of Changes in Equity.

Other share-based payment plans based on the value of SLF Inc.’s common shares are accounted for as cash-settled share-based payment transactions. The total liabilities for these plans are computed based on the estimated number of awards expected to vest at the end of the vesting period. The liabilities are recomputed at the end of each reporting period and are measured at the fair value of the award at that reporting date. The liabilities are accrued and expensed on a straight-line basis over the vesting periods. The liabilities are settled in cash at the end of the vesting period.

Share-based payment awards within MFS Investment Management (“MFS”), which are based on their own shares, are accounted for as cash-settled share-based payment awards. The vested and unvested awards, as well as the shares that have been issued under these plans, are recognized as liabilities because MFS has a practice of purchasing the issued shares from employees after a specified holding period. The total liabilities for these plans are computed based on the estimated number of awards expected to vest at the end of the vesting period. The liabilities are accrued over the vesting period and are measured at fair value at each reporting period with the change in fair value recognized as compensation expense in Operating expenses in our Consolidated Statements of Operations. The liabilities are settled in cash when the shares are purchased from the employees.

## Basic and Diluted Earnings Per Share (“EPS”)

Basic EPS is calculated by dividing the common shareholders’ net income by the weighted average number of common shares issued and outstanding.

Diluted EPS adjusts common shareholders’ net income and the weighted average number of common shares for the effects of all dilutive potential common shares under the assumption that convertible instruments are converted and that outstanding options are exercised. Diluted EPS is calculated by dividing the adjusted common shareholders’ net income by the adjusted weighted average number of common shares outstanding. For convertible instruments, common shareholders’ net income is increased by the after-tax expense on the convertible instrument while the weighted average common shares are increased by the number of common shares that would be issued at conversion. For stock options, it is assumed that the proceeds from the exercise of options whose exercise price is less than the average market price of common shares during the period are used to repurchase common shares at the average market price for the period. The difference between the number of common shares issued for the exercise of the dilutive options and the number of common shares that would have been repurchased at the average market price of the common shares during the period is adjusted to the weighted average number of common shares outstanding.

## 2. Changes in Accounting Policies

### 2.A New and Amended International Financial Reporting Standards Adopted in 2019

#### 2.A.i IFRS 16 Leases (“IFRS 16”)

In January 2016, the IASB issued IFRS 16, which replaces IAS 17 *Leases* (“IAS 17”) and related interpretations. IFRS 16 sets out the principles for the recognition, measurement, presentation, and disclosure of leases for both lessees and lessors. For lessees, IFRS 16 removes the classification of leases as either operating or financing and requires that all leases be recognized on the statement of financial position, with certain exemptions allowed by this new standard. The accounting for lessors is substantially unchanged. We adopted IFRS 16 on a modified retrospective basis as at January 1, 2019 and recognized transition adjustments in retained earnings. Our accounting policies under IFRS 16 are as follows:

We assess whether a contract is, or contains, a lease at the inception of the contract. A contract is, or contains, a lease if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration. For leases where we act as the lessee, we recognize a right-of-use asset and a lease liability at the commencement date of the lease. The right-of-use asset is initially measured at cost, which is comprised of the initial amount of the lease liability with certain adjustments, and subsequently depreciated using the straight-line method, with depreciation expense included in Operating expenses in the Consolidated Statements of Operations. The lease liability is initially measured at the present value of lease payments over the term of the lease using a discount rate that is based on our incremental borrowing rate. The discount rate is specific to each lease and is determined by various factors, such as the lease term and currency. The lease term includes the non-cancellable period and the optional period where it is reasonably certain we will exercise or not exercise an extension or termination option, considering various factors that create an economic incentive to do so. Subsequently, the lease liability is measured at amortized cost using the effective interest method, with interest charged to Interest expense in the Consolidated Statements of Operations. Lease liabilities and right-of-use assets are remeasured upon lease modifications.

As a result of the adoption of IFRS 16, we recognized right-of-use assets of \$744 and lease liabilities of \$880, reported in Other assets and Other liabilities, respectively, on our Consolidated Statements of Financial Position. Together with the de-recognition of deferred balances of \$105 previously recognized under IAS 17 and deferred tax impact of \$9, the adoption of IFRS 16 reduced opening retained earnings by \$22 on an after-tax basis as at January 1, 2019.

On transition to IFRS 16, we applied the practical expedient to use hindsight when determining the lease term of contracts containing extension or termination options. Our weighted-average incremental borrowing rate applied to lease liabilities as at January 1, 2019 was 3.3%. The difference between lease liabilities as at January 1, 2019 of \$880 and operating lease commitments as at December 31, 2018 of \$1,056 is primarily due to the time value of money.

#### 2.A.ii Other New and Amended IFRS

The following new and amended IFRS are effective for annual periods beginning on or after January 1, 2019, and did not have a material impact on our Consolidated Financial Statements:

In June 2017, the IASB issued IFRIC 23 *Uncertainty over Income Tax Treatments* (“IFRIC 23”), which was developed by the IFRS Interpretations Committee. IFRIC 23 clarifies how to apply the recognition and measurement requirements in IAS 12 *Income Taxes* when there is uncertainty over income tax treatments, and requires an entity to determine whether tax treatments should be considered collectively or independently. In addition, IFRIC 23 addresses the assumptions an entity should make about the examination of tax treatments by taxation authorities, as well as how an entity should consider changes in facts and circumstances. IFRIC 23 also provides guidance on how to determine taxable profit (tax loss), tax bases, unused tax losses, unused tax credits, and tax rates, based on whether it is probable that a tax authority will accept an uncertain tax treatment used, or proposed to be used, by an entity in its income tax filings. We adopted IFRIC 23 on a cumulative retrospective basis. Adoption of IFRIC 23 did not have a material impact on our Consolidated Financial Statements.

In October 2017, the IASB issued narrow-scope amendments to IAS 28 *Investments in Associates and Joint Ventures*. The amendments clarify that long-term interests in an associate or joint venture to which the equity method is not applied should be accounted for following the requirements of IFRS 9. These amendments are required to be applied retrospectively with certain exceptions. As we qualified for and have elected to take the IFRS 9 deferral approach, we will continue to apply IAS 39 to the long-term interests in associates or joint ventures covered by these amendments.

In December 2017, the IASB issued *Annual Improvements to IFRSs 2015-2017 Cycle*, which includes minor amendments to four IFRS standards. These amendments were applied prospectively.

In February 2018, the IASB issued *Plan Amendment, Curtailment or Settlement* which amends IAS 19 *Employee Benefits* (“IAS 19”). Under IAS 19, when an amendment, curtailment or settlement of a defined benefit pension plan occurs, the net defined benefit liability or asset is remeasured. The amendments require an entity to use the updated assumptions from this remeasurement to determine current service cost and net interest for reporting periods after the change to the plan. These amendments were applied to plan amendments, curtailments or settlements occurring on or after January 1, 2019.

### 2.B New and Amended International Financial Reporting Standards to be Adopted in 2020

The following new and amended IFRS were issued by the IASB and are expected to be adopted by us in 2020:

In March 2018, the IASB issued a revised *Conceptual Framework for Financial Reporting* (“Conceptual Framework”), which replaces the *Conceptual Framework for Financial Reporting* issued in 2010. The revised Conceptual Framework includes revised definitions of an asset and a liability, as well as new guidance on measurement, derecognition, presentation and disclosure. The revised Conceptual Framework is effective for annual periods beginning on or after January 1, 2020. We do not expect the adoption of this guideline to have a material impact on our Consolidated Financial Statements.

In October 2018, the IASB issued *Definition of a Business*, which amends IFRS 3 *Business Combinations*. The amendments clarify the definition of a business to assist entities in determining whether a transaction represents a business combination or an acquisition of assets. The amendments are effective for annual periods beginning on or after January 1, 2020, to be applied prospectively. We do not expect the adoption of these amendments to have a material impact on our Consolidated Financial Statements.

In October 2018, the IASB issued *Definition of Material (Amendments to IAS 1 and IAS 8)*. The amendments clarify the definition of material and provide guidance to improve consistency in its application in IFRS standards. The amendments are effective for annual periods beginning on or after January 1, 2020. We do not expect the adoption of these amendments to have a material impact on our Consolidated Financial Statements.

In September 2019, the IASB issued the *Interest Rate Benchmark Reform*, which includes amendments to IFRS 9, IAS 39, and IFRS 7 *Financial Instruments: Disclosures*. The amendments clarify that entities can continue to apply certain hedge accounting requirements assuming that the interest rate benchmark on which the hedged cash flows and cash flows from the hedging instrument are based will not be altered as a result of interest rate benchmark reform. The amendments are effective for annual periods beginning on or after January 1, 2020. We are currently assessing the impact of adoption on our Consolidated Financial Statements.

## 2.C New and Amended International Financial Reporting Standards to be Adopted in 2021 or Later

The following new and amended standards were issued by the IASB and are expected to be adopted by us in 2021 or later:

In July 2014, the IASB issued the final version of IFRS 9, which replaces IAS 39. IFRS 9 includes guidance on the classification and measurement of financial instruments, impairment of financial assets, and hedge accounting. Financial asset classification is based on the cash flow characteristics and the business model in which an asset is held. The classification determines how a financial instrument is accounted for and measured. IFRS 9 also introduces an impairment model for financial instruments not measured at fair value through profit or loss that requires recognition of expected losses at initial recognition of a financial instrument and the recognition of full lifetime expected losses if certain criteria are met. In addition, a new model for hedge accounting was introduced to achieve better alignment with risk management activities. This standard is effective for annual periods beginning on or after January 1, 2018. In October 2017, the IASB issued narrow-scope amendments to IFRS 9. The amendments clarify the classification of certain prepayable financial assets and the accounting of financial liabilities following modification. The amendments are effective for annual periods beginning on or after January 1, 2019. However, pursuant to the aforementioned amendments to IFRS 4, we elected the deferral approach permitted under IFRS 4 to continue to apply IAS 39. We are currently assessing the impact that IFRS 9, along with these amendments, will have on our Consolidated Financial Statements.

In May 2017, the IASB issued IFRS 17 *Insurance Contracts* ("IFRS 17"), which replaces IFRS 4. IFRS 17 establishes the principles for the recognition, measurement, presentation, and disclosure of insurance contracts. IFRS 17 requires entities to measure insurance contract liabilities at their current fulfillment values using one of three measurement models, depending on the nature of the contract. IFRS 17 is effective for annual periods beginning on or after January 1, 2021 and is to be applied retrospectively to each group of insurance contracts unless impracticable. If, and only if, it is impracticable to apply IFRS 17 retrospectively for a group of insurance contracts, an entity shall apply IFRS 17 using a modified retrospective approach or a fair value approach. In June 2019, the IASB issued an exposure draft ("ED") that proposes targeted amendments to IFRS 17 for public consultation. As part of the ED, the IASB has proposed to defer the effective date by one year to January 1, 2022 as well as extend the deferral option of IFRS 9 for insurers to that same date. The IASB will continue to discuss comments received on the proposals, including comments on the proposed effective date, before finalizing the amendments later in 2020. IFRS 17 will affect how we account for our insurance contracts and how we report our financial performance in our Consolidated Statements of Operations. We are currently assessing the impact that IFRS 17 will have on our Consolidated Financial Statements.

## 3. Acquisitions and Other

### Acquisition of BentallGreenOak

On July 1, 2019, we acquired 56% of BentallGreenOak ("BGO"), which was the product of the merger of the Bentall Kennedy group of companies ("Bentall Kennedy") and GreenOak Real Estate ("GreenOak"), a global real estate investment firm. The former GreenOak shareholders hold the remaining interest in BGO. Total consideration of \$411 included approximately \$192 in cash and 44% of our interest in Bentall Kennedy which, valued on a discounted cash flow basis, represents consideration of \$219. The combined entity is reported in our Asset Management business segment.

The fair values of the identifiable assets and liabilities acquired were:

	As at July 1, 2019
Intangible assets	\$ 238
Net assets	23
Deferred tax liabilities	(48)
Total identifiable net assets at fair value	213
Non-controlling interests <sup>(1)</sup>	(339)
Goodwill arising on acquisition	537
Total consideration	\$ 411

(1) We have elected to measure NCI at fair value for this acquisition. The fair value was determined by calculating the proportionate share of the present value of future cash flows relating to NCI. Significant assumptions inherent in the valuation of NCI include the estimated after-tax cash flows expected to be received and an assessment of the appropriate discount rate.

The fair values of the identifiable assets and liabilities are subject to refinement and may be retroactively adjusted to reflect new information obtained about facts and circumstances that existed at the acquisition date during the measurement period.

This transaction has two additional components ("Additional components"):

- A. We have the option to acquire the remaining outstanding shares in BGO commencing in 2026 ("call option"), and BGO minority shareholders have the option to require us to purchase their shares in 2027 ("put option").

- B. In addition to our 56% ownership interest in BGO, we have acquired the right to 75% of former GreenOak shareholders' share of BGO's earnings for the period from July 2019 to December 2027. Consideration is to be paid in quarterly instalments over that period ("deferred payments").

The present values of the put option and deferred payments are calculated using our incremental borrowing rate; the subsequent interest expense recorded using the effective interest method will be recognized in the Consolidated Statements of Operations. Subsequent revisions to the expected exercise price payable for the put option will be recognized in the Consolidated Statements of Operations. If the put option expires unexercised or is cancelled, the carrying value of the financial liability will be released first to NCI, with excess amounts if any recognized against Retained earnings. If the call option is exercised, the liabilities relating to the Additional components will be extinguished and recognized against Retained earnings.

The Additional components are financial liabilities. Amounts were initially measured at the present value of \$951 for the put option and \$467 for the deferred payments in Other liabilities, with a corresponding reduction to NCI, limited to the original amount recorded upon the acquisition of BGO. Excess amounts were recognized against Retained earnings. At the date of acquisition, the impact to our assets, liabilities, and equity is as follows:

As at July 1, 2019	Share purchase	Additional components	Total
Cash consideration	\$ (192)	\$ –	\$ (192)
Net assets	23	–	23
Intangible assets	238	–	238
Goodwill <sup>(1)</sup>	537	–	537
<b>Total assets</b>	<b>\$ 606</b>	<b>\$ –</b>	<b>\$ 606</b>
Deferred tax liability	\$ (48)	\$ –	\$ (48)
Put option liability	–	(951)	(951)
Deferred payments liability	–	(467)	(467)
<b>Total liabilities</b>	<b>\$ (48)</b>	<b>\$ (1,418)</b>	<b>\$ (1,466)</b>
Non-controlling interests – Bentall Kennedy	\$ (171) <sup>(2)</sup>	\$ 171	\$ –
Non-controlling interests – GreenOak <sup>(3)</sup>	(339)	324	(15)
Retained earnings	(48) <sup>(2)</sup>	923	875
<b>Total equity</b>	<b>\$ (558)</b>	<b>\$ 1,418</b>	<b>\$ 860</b>

(1) Goodwill of \$537 reflects GreenOak's non-contractual customer relationships. Approximately \$285 of goodwill is tax-deductible.

(2) The aggregate amount of \$219 represents the fair value of our interest in Bentall Kennedy transferred as consideration.

(3) The remaining \$15 represents specifically identifiable assets where the risks and rewards accrue to the former GreenOak shareholders and are distributed through a separate class of shares.

## Acquisitions and Other in Asia

On October 3, 2017, we completed the first stage of our acquisition of the pension business of FWD Life Insurance Company (Bermuda) Limited ("FWD") for total consideration of approximately \$105. The first stage included the acquisition of the Mandatory Provident Fund business and the commencement of an exclusive 15-year distribution agreement with FWD that allows Sun Life Hong Kong Limited to distribute its pension products through FWD's agency force in Hong Kong. The completion of the second stage of the transaction involves the purchase of the Occupational Retirement Schemes Ordinance business of FWD, and is expected to close in 2020, subject to the receipt of regulatory approvals and satisfaction of customary closing conditions. These transactions will strengthen our position in the Hong Kong pension market and will be reported in our Asia business segment.

On October 17, 2019, we entered into a 15-year bancassurance partnership with Tien Phong Commercial Bank ("TPBank"). TPBank is fast growing with a strong Client focus, and is a digital leader in Vietnam. The new partnership aligns with our strategic priority to be a leader in Asia through distribution excellence. The agreement includes an initial payment of approximately \$107, which will be funded with internal resources. The initial payment will be capitalized as an intangible asset and will be amortized over 15 years based on a units-of-production method.

## Pending Acquisition

On December 17, 2019, we entered into an agreement with InfraRed Capital Partners ("InfraRed"), a global infrastructure and real estate investment manager, to purchase 80% of the entity and the ability to acquire the remaining interest in the future. InfraRed will form part of our Asset Management business segment. The transaction is expected to close during the first half of 2020, subject to receipt of regulatory approvals and satisfaction of customary closing conditions.

## 4. Segmented Information

We have five reportable business segments: Canada, U.S., Asset Management, Asia, and Corporate. Prior to 2019, these business segments were referred to as SLF Canada, SLF U.S., SLF Asset Management, SLF Asia, and Corporate.

These business segments operate in the financial services industry and reflect our management structure and internal financial reporting. Corporate includes the results of our UK business unit and our Corporate Support operations, which include run-off reinsurance operations as well as investment income, expenses, capital, and other items not allocated to our other business groups.

Revenues from our business segments are derived principally from life and health insurance, investment management and annuities, and mutual funds. Revenues not attributed to the strategic business units are derived primarily from Corporate investments and earnings on capital. Transactions between segments are executed and priced at an arm's-length basis in a manner similar to transactions with third parties.

The expenses in each business segment may include costs or services directly incurred or provided on their behalf at the enterprise level. For other costs not directly attributable to one of our business segments, we use a management reporting framework that uses assumptions, judgments, and methodologies for allocating overhead costs, and indirect expenses to our business segments.

Intersegment transactions consist primarily of internal financing agreements which are measured at fair values prevailing when the arrangements are negotiated. Intersegment investment income consists primarily of interest paid by U.S. to Corporate. Intersegment fee income is primarily asset management fees paid by Canada and Corporate to Asset Management, and product distribution fees paid by Asset Management to Asia. Intersegment transactions are presented in the Consolidation adjustments column in the following tables.

Management considers its external Clients to be individuals and corporations. We are not reliant on any individual Client as none is individually significant to our operations.

Results by segment for the years ended December 31, are as follows:

	Canada	U.S.	Asset Management	Asia	Corporate	Consolidation adjustments	Total
<b>2019</b>							
Gross premiums:							
Annuities	\$ 3,276	\$ 1	\$ –	\$ 2	\$ 23	\$ –	\$ 3,302
Life insurance	5,178	1,605	–	2,597	90	–	9,470
Health insurance	5,629	4,232	–	31	16	–	9,908
Total gross premiums	14,083	5,838	–	2,630	129	–	22,680
Less: Ceded premiums	1,488	662	–	222	20	–	2,392
Net investment income (loss)	6,474	2,802	83	2,865	936	(20)	13,140
Fee income	1,320	86	4,309	531	149	(144)	6,251
Total revenue	20,389	8,064	4,392	5,804	1,194	(164)	39,679
Less:							
Total benefits and expenses	19,317	7,878	3,229	5,172	1,014	(164)	36,446
Income tax expense (benefit)	15	28	262	51	(70)	–	286
Total net income (loss)	\$ 1,057	\$ 158	\$ 901	\$ 581	\$ 250	\$ –	\$ 2,947
Less:							
Net income (loss) attributable to participating policyholders	174	(5)	–	61	–	–	230
Net income (loss) attributable to non-controlling interests	–	–	4	–	–	–	4
Shareholders' net income (loss)	\$ 883	\$ 163	\$ 897	\$ 520	\$ 250	\$ –	\$ 2,713
<b>2018</b>							
Gross premiums:							
Annuities	\$ 3,261	\$ –	\$ –	\$ 1	\$ (79)	\$ –	\$ 3,183
Life insurance	4,796	1,633	–	2,154	94	–	8,677
Health insurance	5,316	3,767	–	24	14	–	9,121
Total gross premiums	13,373	5,400	–	2,179	29	–	20,981
Less: Ceded premiums	1,487	597	–	232	23	–	2,339
Net investment income (loss)	1,942	305	13	76	79	(26)	2,389
Fee income	1,240	73	4,111	514	154	(126)	5,966
Total revenue	15,068	5,181	4,124	2,537	239	(152)	26,997
Less:							
Total benefits and expenses	13,497	5,183	2,930	1,919	109	(152)	23,486
Income tax expense (benefit)	308	(19)	284	51	(27)	–	597
Total net income (loss)	\$ 1,263	\$ 17	\$ 910	\$ 567	\$ 157	\$ –	\$ 2,914
Less:							
Net income (loss) attributable to participating policyholders	321	(35)	–	12	–	–	298
Shareholders' net income (loss)	\$ 942	\$ 52	\$ 910	\$ 555	\$ 157	\$ –	\$ 2,616

Assets and liabilities by segment are as follows:

	Canada	U.S.	Asset Management	Asia	Corporate	Consolidation adjustments	Total
<b>As at December 31, 2019</b>							
Total general fund assets	\$ 94,909	\$ 34,711	\$ 5,666	\$ 31,285	\$ 13,930	\$ (272)	\$ 180,229
Investments for account of segregated fund holders	\$ 98,758	\$ 514	\$ –	\$ 6,675	\$ 11,026	\$ –	\$ 116,973
Total general fund liabilities	\$ 86,847	\$ 31,044	\$ 4,250	\$ 25,750	\$ 8,102	\$ (272)	\$ 155,721
<b>As at December 31, 2018</b>							
Total general fund assets	\$ 86,697	\$ 34,584	\$ 4,468	\$ 28,855	\$ 14,378	\$ (217)	\$ 168,765
Investments for account of segregated fund holders	\$ 85,885	\$ 491	\$ –	\$ 6,173	\$ 10,513	\$ –	\$ 103,062
Total general fund liabilities	\$ 78,946	\$ 30,671	\$ 2,396	\$ 23,692	\$ 8,707	\$ (217)	\$ 144,195



The revenue and assets of our business segments differ from geographic segments primarily due to the geographic segmenting of our Asset Management and Corporate segments.

The following table shows revenue by country for Asset Management and Corporate:

For the years ended December 31,	Asset Management		Corporate	
	2019	2018	2019	2018
Revenue:				
United States	\$ 4,139	\$ 3,945	\$ 191	\$ 58
United Kingdom	32	–	903	142
Canada <sup>(1)</sup>	210	179	93	38
Other countries	11	–	7	1
<b>Total revenue</b>	<b>\$ 4,392</b>	<b>\$ 4,124</b>	<b>\$ 1,194</b>	<b>\$ 239</b>

(1) Consists of the Canadian operations of Bentall Kennedy and Sun Life Institutional Investments (Canada) Inc. for Asset Management.

The following table shows total assets by country for Asset Management and Corporate:

As at December 31,	Asset Management		Corporate	
	2019	2018	2019	2018
Total general fund assets:				
United States	\$ 4,770	\$ 4,147	\$ 2,329	\$ 2,550
United Kingdom	145	–	8,210	8,274
Canada <sup>(1)</sup>	534	321	3,202	3,384
Other countries	217	–	189	170
<b>Total general fund assets</b>	<b>\$ 5,666</b>	<b>\$ 4,468</b>	<b>\$ 13,930</b>	<b>\$ 14,378</b>
Investment for account of segregated fund holders:				
United Kingdom	\$ –	\$ –	\$ 11,026	\$ 10,513
<b>Total investment for account of segregated fund holders</b>	<b>\$ –</b>	<b>\$ –</b>	<b>\$ 11,026</b>	<b>\$ 10,513</b>

(1) Consists of the Canadian operations of Bentall Kennedy and Sun Life Institutional Investments (Canada) Inc. for Asset Management.

## 5. Total Invested Assets and Related Net Investment Income

### 5.A Fair Value of Invested Assets

#### 5.A.i Carrying Value and Fair Value of Financial Assets

The carrying values and fair values of our financial assets are shown in the following table:

As at	December 31, 2019		December 31, 2018	
	Carrying value	Fair value	Carrying value	Fair value
Assets				
Cash, cash equivalents and short-term securities	\$ 9,575	\$ 9,575	\$ 9,506	\$ 9,506
Debt securities – fair value through profit or loss	67,894	67,894	61,402	61,402
Debt securities – available-for-sale <sup>(1)</sup>	13,712	13,712	13,041	13,041
Equity securities – fair value through profit or loss	4,474	4,474	4,014	4,014
Equity securities – available-for-sale	313	313	620	620
Mortgages and loans <sup>(1)</sup>	48,222	52,028	46,822	48,434
Derivative assets	1,548	1,548	1,112	1,112
Other invested assets – fair value through profit or loss <sup>(2)</sup>	3,016	3,016	2,701	2,701
Other invested assets – available-for-sale <sup>(2)</sup>	813	813	621	621
Policy loans	3,218	3,218	3,222	3,222
<b>Total financial assets<sup>(3)</sup></b>	<b>\$ 152,785</b>	<b>\$ 156,591</b>	<b>\$ 143,061</b>	<b>\$ 144,673</b>

(1) As at December 31, 2019, the fair value of invested assets that have contractual cash flows that qualify as SPPI include \$13,602 of Debt securities – AFS (\$12,914 as at December 31, 2018), \$47,398 of Mortgages and loans supporting insurance contract liabilities (\$43,826 as at December 31, 2018), and \$4,315 of Mortgages and loans not supporting insurance contract liabilities (\$4,410 as at December 31, 2018).

(2) Other invested assets (FVTPL and AFS) include our investments in segregated funds, mutual funds and limited partnerships.

(3) Invested assets on our Consolidated Statements of Financial Position of \$161,619 (\$151,726 as at December 31, 2018) includes Total financial assets in this table, Investment properties of \$7,306 (\$7,157 as at December 31, 2018), and Other invested assets – non-financial assets of \$1,528 (\$1,508 as at December 31, 2018).



Our mortgages and loans are generally carried at amortized cost. The fair value of mortgages and loans, for disclosure purposes, is determined based on the methodology and assumptions described in Note 5.A.ii. As at December 31, 2019, \$41,858 and \$10,170 are categorized in Level 2 and Level 3, respectively, of the fair value hierarchy described in this Note (\$40,730 and \$7,704, respectively, as at December 31, 2018).

Derivative liabilities with a fair value of \$2,040 (\$2,295 as at December 31, 2018) are also included on the Consolidated Statements of Financial Position.

Policy loans are carried at their unpaid principal balances. The fair value of policy loans, for disclosure purposes, is approximated by their carrying value, as policy loans are fully secured by policy values on which the loans are made and are categorized in Level 2 of the fair value hierarchy.

### **5.A.ii Fair Value Methodologies and Assumptions**

The fair value of government and corporate debt securities is determined using quoted prices in active markets for identical or similar securities. When quoted prices in active markets are not available, fair value is determined using market standard valuation methodologies, which include discounted cash flow analysis, consensus pricing from various broker dealers that are typically the market makers, or other similar techniques. The assumptions and valuation inputs in applying these market standard valuation methodologies are determined primarily using observable market inputs, which include, but are not limited to, benchmark yields, reported trades of identical or similar instruments, broker-dealer quotes, issuer spreads, bid prices, and reference data including market research publications. In limited circumstances, non-binding broker quotes are used.

The fair value of asset-backed securities is determined using quoted prices in active markets for identical or similar securities, when available, or valuation methodologies and valuation inputs similar to those used for government and corporate debt securities. Additional valuation inputs include structural characteristics of the securities, and the underlying collateral performance, such as prepayment speeds and delinquencies. Expected prepayment speeds are based primarily on those previously experienced in the market at projected future interest rate levels. In instances where there is a lack of sufficient observable market data to value the securities, non-binding broker quotes are used.

The fair value of equity securities is determined using quoted prices in active markets for identical securities or similar securities. When quoted prices in active markets are not available, fair value is determined using equity valuation models, which include discounted cash flow analysis and other techniques that involve benchmark comparison. Valuation inputs primarily include projected future operating cash flows and earnings, dividends, market discount rates, and earnings multiples of comparable companies.

The fair value of mortgages and loans is determined by discounting the expected future cash flows using a current market interest rate applicable to financial instruments with a similar yield, credit quality, and maturity characteristics. Valuation inputs typically include benchmark yields and risk-adjusted spreads from current lending activities or loan issuances. The risk-adjusted spreads are determined based on the borrower's credit and liquidity, as well as term and other loan-specific features. Long-term mortgages and loans are generally categorized in Level 3 of the fair value hierarchy. The significant unobservable input is a portion of these risk-adjusted spreads at or beyond the 20-year point for mortgages and at or beyond the 10-year point for loans.

The fair value of derivative financial instruments depends upon derivative types. The fair value of exchange-traded futures and options is determined using quoted prices in active markets, while the fair value of over-the-counter ("OTC") derivatives is determined using pricing models, such as discounted cash flow analysis or other market standard valuation techniques, with primarily observable market inputs. Valuation inputs used to price OTC derivatives may include swap interest rate curves, foreign exchange spot and forward rates, index prices, the value of underlying securities, projected dividends, volatility surfaces, and in limited circumstances, counterparty quotes. The fair value of OTC derivative financial instruments also includes credit valuation adjustments to reflect the credit risk of both the derivative counterparty and ourselves as well as the impact of contractual factors designed to reduce our credit exposure, such as collateral and legal rights of offset under master netting agreements. Inputs into determining the appropriate credit valuation adjustments are typically obtained from publicly available information and include credit default swap spreads when available, credit spreads derived from specific bond yields, or published cumulative default experience data adjusted for current trends when credit default swap spreads are not available.

The fair value of other invested assets is determined using quoted prices in active markets for identical securities or similar securities. When quoted prices in active markets are not available, fair value is determined using equity valuation models, which include discounted cash flow analysis and other techniques that involve benchmark comparison. Valuation inputs primarily include projected future operating cash flows and earnings, dividends, market discount rates, and earnings multiples of comparable companies.

The fair value of investment properties is generally determined using property valuation models that are based on expected capitalization rates and models that discount expected future net cash flows at current market interest rates reflective of the characteristics, location, and market of each property. Expected future net cash flows include contractual and projected cash flows and forecasted operating expenses, and take into account interest, rental, and occupancy rates derived from market surveys. The estimates of future cash inflows in addition to expected rental income from current leases, include projected income from future leases based on significant assumptions that are consistent with current market conditions. The future rental rates are estimated based on the location, type, and quality of the properties, and take into account market data and projections at the valuation date. The fair values are typically compared to market-based information for reasonability, including recent transactions involving comparable assets. The methodologies and inputs used in these models are in accordance with real estate industry valuation standards. Valuations are prepared externally or internally by professionally accredited real estate appraisers.

The fair value of short-term securities is approximated by their carrying amount, adjusted for credit risk where appropriate.

The fair value of investments for account of segregated fund holders is determined using quoted prices in active markets or independent valuation information provided by investment managers. The fair value of direct investments within investments for account of segregated fund holders, such as short-term securities and government and corporate debt securities, is determined according to valuation methodologies and inputs described above in the respective asset type sections.

The methodologies and assumptions for determining the fair values of investment contract liabilities are included in Note 10.B.

### **5.A.iii Fair Value Hierarchy**

We categorize our assets and liabilities carried at fair value, based on the priority of the inputs to the valuation techniques used to measure fair value, into a three-level fair value hierarchy as follows:

Level 1: Fair value is based on the unadjusted quoted prices for identical assets or liabilities in an active market. The types of assets and liabilities classified as Level 1 generally include cash and cash equivalents, certain U.S. government and agency securities, exchange-traded equity securities, and certain segregated and mutual fund units held for account of segregated fund holders.

Level 2: Fair value is based on quoted prices for similar assets or liabilities traded in active markets, or prices from valuation techniques that use significant observable inputs, or inputs that are derived principally from or corroborated with observable market data through correlation or other means. The types of assets and liabilities classified as Level 2 generally include Canadian federal, provincial and municipal government, other foreign government and corporate debt securities, certain asset-backed securities, OTC derivatives, and certain segregated and mutual fund units held for account of segregated fund holders.

Level 3: Fair value is based on valuation techniques that require one or more significant inputs that are not based on observable market inputs. These unobservable inputs reflect our expectations about the assumptions market participants would use in pricing the asset or liability. The types of assets and liabilities classified as Level 3 generally include certain corporate bonds, certain other invested assets, investment properties and the Put option liability.

Our assets and liabilities that are carried at fair value on a recurring basis by hierarchy level are as follows:

As at	December 31, 2019				December 31, 2018			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
<b>Assets</b>								
Cash, cash equivalents and short-term securities	\$ 9,044	\$ 531	\$ –	\$ 9,575	\$ 8,926	\$ 580	\$ –	\$ 9,506
Debt securities – fair value through profit or loss	1,641	66,005	248	67,894	1,253	59,776	373	61,402
Debt securities – available-for-sale	1,363	12,299	50	13,712	1,513	11,485	43	13,041
Equity securities – fair value through profit or loss	1,868	2,418	188	4,474	1,967	1,845	202	4,014
Equity securities – available-for-sale	152	126	35	313	398	186	36	620
Derivative assets	20	1,528	–	1,548	27	1,085	–	1,112
Other invested assets	1,000	384	2,445	3,829	898	183	2,241	3,322
Investment properties	–	–	7,306	7,306	–	–	7,157	7,157
Total invested assets measured at fair value	\$ 15,088	\$ 83,291	\$ 10,272	\$ 108,651	\$ 14,982	\$ 75,140	\$ 10,052	\$ 100,174
Investments for account of segregated fund holders	26,380	90,044	549	116,973	24,705	76,761	1,596	103,062
Total assets measured at fair value	\$ 41,468	\$ 173,335	\$ 10,821	\$ 225,624	\$ 39,687	\$ 151,901	\$ 11,648	\$ 203,236
<b>Liabilities</b>								
Investment contract liabilities	\$ –	\$ –	\$ 2	\$ 2	\$ –	\$ –	\$ 3	\$ 3
Derivative liabilities	14	2,026	–	2,040	11	2,284	–	2,295
Put option liability	–	–	956	956	–	–	–	–
Total liabilities measured at fair value	\$ 14	\$ 2,026	\$ 958	\$ 2,998	\$ 11	\$ 2,284	\$ 3	\$ 2,298

Debt securities – fair value through profit or loss consist of the following:

As at	December 31, 2019				December 31, 2018			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Canadian federal government	\$ –	\$ 3,875	\$ 15	\$ 3,890	\$ –	\$ 3,815	\$ 15	\$ 3,830
Canadian provincial and municipal government	–	13,811	15	13,826	–	11,852	14	11,866
U.S. government and agency	1,641	106	1	1,748	1,253	125	2	1,380
Other foreign government	–	5,172	9	5,181	–	4,895	34	4,929
Corporate	–	37,508	173	37,681	–	34,665	205	34,870
<b>Asset-backed securities:</b>								
Commercial mortgage-backed securities	–	1,753	6	1,759	–	1,464	3	1,467
Residential mortgage-backed securities	–	2,176	–	2,176	–	1,961	–	1,961
Collateralized debt obligations	–	157	–	157	–	143	–	143
Other	–	1,447	29	1,476	–	856	100	956
Total debt securities – fair value through profit or loss	\$ 1,641	\$ 66,005	\$ 248	\$ 67,894	\$ 1,253	\$ 59,776	\$ 373	\$ 61,402

Debt securities – available-for-sale consist of the following:

As at	December 31, 2019				December 31, 2018			
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Canadian federal government	\$ –	\$ 2,556	\$ –	\$ 2,556	\$ –	\$ 1,746	\$ –	\$ 1,746
Canadian provincial and municipal government	–	1,139	–	1,139	–	1,199	–	1,199
U.S. government and agency	1,363	–	–	1,363	1,513	14	–	1,527
Other foreign government	–	735	1	736	–	716	1	717
Corporate	–	5,039	45	5,084	–	4,971	42	5,013
<b>Asset-backed securities:</b>								
Commercial mortgage-backed securities	–	777	–	777	–	766	–	766
Residential mortgage-backed securities	–	362	–	362	–	386	–	386
Collateralized debt obligations	–	730	–	730	–	804	–	804
Other	–	961	4	965	–	883	–	883
Total debt securities – available-for-sale	\$ 1,363	\$ 12,299	\$ 50	\$ 13,712	\$ 1,513	\$ 11,485	\$ 43	\$ 13,041

During 2019 and 2018, we did not have any significant transfers between Level 1 and Level 2.

The following table provides a reconciliation of the beginning and ending balances for assets and liabilities that are categorized in Level 3:

For the year ended	Debt securities – fair value through profit or loss	Debt securities – available-for-sale	Equity securities – fair value through profit or loss	Equity securities – available-for-sale	Other invested assets	Investment properties	Total invested assets measured at fair value	Investments for account of segregated fund holders	Total assets measured at fair value	Put option liability
<b>December 31, 2019</b>										
Beginning balance	\$ 373	\$ 43	\$ 202	\$ 36	\$ 2,241	\$ 7,157	\$ 10,052	\$ 1,596	\$ 11,648	\$ –
Acquisitions	–	–	–	–	13	–	13	–	13	951
Included in net income <sup>(1)(2)(3)</sup>	28	–	(2)	(23)	(80)	238	161	45	206	11
Included in OCI <sup>(2)</sup>	–	4	–	2	13	–	19	–	19	–
Purchases	85	35	5	22	521	689	1,357	152	1,509	–
Sales / Payments	(49)	–	(9)	–	(122)	(701)	(881)	(59)	(940)	–
Settlements	(40)	–	–	–	–	–	(40)	(1)	(41)	–
Transfers into Level 3 <sup>(4)</sup>	15	–	–	–	–	–	15	–	15	–
Transfers (out) of Level 3 <sup>(4)(5)</sup>	(159)	(31)	(4)	–	(110)	–	(304)	(1,178)	(1,482)	–
Foreign currency translation <sup>(6)</sup>	(5)	(1)	(4)	(2)	(31)	(77)	(120)	(6)	(126)	(6)
Ending balance	\$ 248	\$ 50	\$ 188	\$ 35	\$ 2,445	\$ 7,306	\$ 10,272	\$ 549	\$ 10,821	\$ 956
Gains (losses) included in earnings relating to instruments still held at the reporting date <sup>(1)</sup>										
	\$ 4	\$ –	\$ (3)	\$ –	\$ (78)	\$ 272	\$ 195	\$ 25	\$ 220	\$ –
<b>December 31, 2018</b>										
Beginning balance	\$ 417	\$ 136	\$ 167	\$ 38	\$ 1,721	\$ 7,067	\$ 9,546	\$ 1,154	\$ 10,700	\$ –
Included in net income <sup>(1)(2)(3)</sup>	(4)	–	9	–	69	441	515	29	544	–
Included in OCI <sup>(2)</sup>	–	(5)	–	(8)	(9)	–	(22)	–	(22)	–
Purchases	164	140	19	4	644	621	1,592	430	2,022	–
Sales / Payments	(49)	(6)	–	(1)	(227)	(1,113)	(1,396)	(31)	(1,427)	–
Settlements	(21)	(4)	–	(1)	–	–	(26)	(1)	(27)	–
Transfers into Level 3 <sup>(4)</sup>	12	1	–	1	–	–	14	4	18	–
Transfers (out) of Level 3 <sup>(4)</sup>	(159)	(221)	–	–	–	–	(380)	(5)	(385)	–
Foreign currency translation <sup>(6)</sup>	13	2	7	3	43	141	209	16	225	–
Ending balance	\$ 373	\$ 43	\$ 202	\$ 36	\$ 2,241	\$ 7,157	\$ 10,052	\$ 1,596	\$ 11,648	\$ –
Gains (losses) included in earnings relating to instruments still held at the reporting date <sup>(1)</sup>										
	\$ 5	\$ –	\$ 9	\$ –	\$ 69	\$ 331	\$ 414	\$ 27	\$ 441	\$ –

(1) Included in Net investment income (loss) for Total invested assets measured at fair value in our Consolidated Statements of Operations.

(2) Total gains and losses in net income (loss) and OCI are calculated assuming transfers into or out of Level 3 occur at the beginning of the period. For an asset or liability that transfers into Level 3 during the reporting period, the entire change in fair value for the period is included in the table above. For transfers out of Level 3 during the reporting period, the change in fair value for the period is excluded from the table above.

(3) Investment properties included in net income is comprised of fair value changes on investment properties of \$305 (\$529 in 2018), net of amortization of leasing commissions and tenant inducements of \$67 (\$88 in 2018).

(4) Transfers into Level 3 occur when the inputs used to price the assets and liabilities lack observable market data, and as a result, no longer meet the Level 1 or 2 definitions at the reporting date. Transfers out of Level 3 occur when the pricing inputs become more transparent and satisfy the Level 1 or 2 criteria and are primarily the result of observable market data being available at the reporting date, thus removing the requirement to rely on inputs that lack observability.

(5) An update of certain specific criteria used to determine the leveling classification of the financial instruments was made in 2019 to align with industry practice. This resulted in transfers out of Level 3, including \$1,178 for Investments for account of segregated fund holders as well as \$110 for Other invested assets, and transferred into Level 2 based on the availability of observable inputs and other criteria.

(6) Foreign currency translation relates to the foreign exchange impact of translating Level 3 assets and liabilities of foreign subsidiaries from their functional currencies to Canadian dollars.

#### Unobservable Inputs and Sensitivity for Level 3 Assets and Liabilities

Our assets and liabilities categorized in Level 3 of the fair value hierarchy are primarily Investment properties, Debt securities, Other invested assets and the Put option liability.

The fair value of Investment properties is determined by using the discounted cash flow methodology as described in Note 5.A.ii. The key unobservable inputs used in the valuation of investment properties as at December 31, 2019 include the following:

- **Estimated rental value:** The estimated rental value is based on contractual rent and other local market lease transactions, net of reimbursable operating expenses. An increase (decrease) in the estimated rental value would result in a higher (lower) fair value. The estimated rental value varies depending on the property types, which include retail, office, and industrial properties. The estimated rental value (in dollars, per square foot, per annum) ranges from \$12.00 to \$76.00 for retail and office properties and from \$3.00 to \$15.00 for industrial properties.
- **Rental growth rate:** The rental growth rate is typically estimated based on expected market behaviour, which is influenced by the type of property and geographic region of the property. An increase (decrease) in the rental growth rate would result in a higher (lower) fair value. The rental growth rate (per annum) ranges from 0.00% to 3.00%, however the one- to two-year short-term rent curve is either below or above this range for select properties.
- **Long-term vacancy rate:** The long-term vacancy rate is typically estimated based on expected market behaviour, which is influenced by the type of property and geographic region of the property. An increase (decrease) in the long-term vacancy rate would result in a lower (higher) fair value. The long-term vacancy rate ranges from 2.00% to 10.00%.
- **Discount rate:** The discount rate is derived from market activity across various property types and geographic regions and is a reflection of the expected rate of return to be realized on the investment over the next 10 years. An increase (decrease) in the discount rate would result in a lower (higher) fair value. The discount rate ranges from 4.00% to 10.25%.
- **Terminal capitalization rate:** The terminal capitalization rate is derived from market activity across various property types and geographic regions and is a reflection of the expected rate of return to be realized on the investment over the remainder of its life after the 10-year period. An increase (decrease) in the terminal capitalization rate would result in a lower (higher) fair value. The terminal capitalization rate ranges from 4.25% to 8.75%.

Changes in the estimated rental value are positively correlated with changes in the rental growth rate. Changes in the estimated rental value are negatively correlated with changes in the long-term vacancy rate, the discount rate, and the terminal capitalization rate.

Our Debt securities categorized in Level 3, which are included in Debt securities – FVTPL and Debt securities – AFS in the Level 3 roll forward table, consist primarily of corporate bonds. The fair value of these corporate bonds is generally determined using broker quotes that cannot be corroborated with observable market transactions. Significant unobservable inputs for these corporate bonds would include issuer spreads, which are comprised of credit, liquidity, and other security-specific features of the bonds. An increase (decrease) in these issuer spreads would result in a lower (higher) fair value. Due to the unobservable nature of these broker quotes, we do not assess whether applying reasonably possible alternative assumptions would have an impact on the fair value of the Level 3 corporate bonds. The majority of our debt securities categorized in Level 3 are FVTPL assets supporting insurance contract liabilities. Changes in the fair value of these assets supporting insurance contract liabilities are largely offset by changes in the corresponding insurance contract liabilities under CALM. As a result, though using reasonably possible alternative assumptions may have an impact on the fair value of the Level 3 debt securities, it would not have a significant impact on our Consolidated Financial Statements.

The Other invested assets categorized in Level 3, which are included in Other invested assets – FVTPL and Other invested assets – AFS in the Level 3 roll forward table, consists primarily of limited partnership investments. The fair value of our limited partnership investments is based on net asset value (“NAV”) provided by management of the limited partnership investments. Based on the unobservable nature of these NAVs, we do not assess whether applying reasonably possible alternative assumptions would have an impact on the fair value of the Level 3 limited partnership investments.

The fair value of the Put option liability related to the BGO acquisition is determined by using the discounted cash flow methodology. After initial recognition, the discount rate will remain unchanged. The Put option liability categorized in Level 3 represents the present value of the estimated price we would pay to acquire the remaining outstanding shares in BGO if the put option is exercised by the BGO minority shareholders. The fair value of this liability is based on the average earnings before income tax, depreciation and amortization (“EBITDA”) for the preceding two years before the option’s exercise date and an EBITDA multiple in accordance with the put agreement. Changes in the EBITDA multiple are positively correlated with changes in EBITDA. A change in EBITDA would impact the fair value of the Put option liability and our net income (loss).

#### *Sensitivity Analysis*

The following table represents the sensitivity analysis of key assumptions relating to the Put option liability for 2019:

Change in EBITDA	10% decrease	10% increase
Potential impact on net income (loss)	\$ 130	\$ (141)

#### **Valuation Process for Level 3 Assets and Liabilities**

Our assets and liabilities categorized in Level 3 of the fair value hierarchy are primarily Investment properties, Debt securities, limited partnership investments included in Other invested assets, and the Put option liability. Our valuation processes for these assets are as follows:

The fair value of investment properties are based on the results of appraisals performed annually and reviewed quarterly for material changes. The valuation methodology used to determine the fair value is in accordance with the standards of the Appraisal Institute of Canada, the U.S., and the UK. Investment properties are appraised externally at least once every three years. Investment properties not appraised externally in a given year are reviewed by qualified appraisers. A management committee, including investment professionals, reviews the fair value of investment properties for overall reasonability.

The fair value of Debt securities is generally obtained by external pricing services. We obtain an understanding of inputs and valuation methods used by external pricing services. When fair value cannot be obtained from external pricing services, broker quotes, or internal models subject to detailed review and validation processes are used. The fair value of debt securities is subject to price validation and review procedures to ensure overall reasonability.

The fair value of limited partnership investments, included in Other invested assets, is based on NAV. The financial statements used in calculating the NAV are generally audited annually. We review the NAV of the limited partnership investments and perform analytical and other procedures to ensure the fair value is reasonable.

The fair value of the Put option liability is mainly based on the forecasted EBITDA of BGO at various multiples as stipulated in the put agreement. The financial results and forecasted EBITDA of BGO are reviewed annually, and we perform analytical procedures to ensure the fair value is reasonable.

## 5.B Interest and Other Investment Income

Interest and other investment income presented in our Consolidated Statements of Operations consist of the following:

For the years ended December 31,	2019	2018
Interest income:		
Cash, cash equivalents and short-term securities	\$ 164	\$ 131
Debt securities – fair value through profit or loss	2,395	2,312
Debt securities – available-for-sale	411	384
Mortgages and loans	2,208	2,050
Derivative investments	30	45
Policy loans	188	175
Total interest income	5,396	5,097
Equity securities – dividends on fair value through profit or loss	137	160
Equity securities – dividends on available-for-sale	8	14
Investment properties rental income <sup>(1)</sup>	575	594
Investment properties expenses	(252)	(259)
Other income	196	242
Investment expenses and taxes	(205)	(207)
Total interest and other investment income	\$ 5,855	\$ 5,641

(1) Includes operating lease rental income from investment properties.

## 5.C Fair Value and Foreign Currency Changes on Assets and Liabilities

Fair value and foreign currency changes on assets and liabilities presented in our Consolidated Statements of Operations consist of the following:

For the years ended December 31,	2019	2018
Fair value change:		
Cash, cash equivalents and short-term securities	\$ (2)	\$ 8
Debt securities	5,686	(2,704)
Equity securities	629	(401)
Derivative investments	772	(1,295)
Other invested assets	77	16
Total change in fair value through profit or loss assets and liabilities	7,162	(4,376)
Fair value changes on investment properties	305	529
Foreign exchange gains (losses) <sup>(1)</sup>	(349)	446
Realized gains (losses) on property and equipment <sup>(2)</sup>	–	28
Fair value and foreign currency changes on assets and liabilities	\$ 7,118	\$ (3,373)

(1) Primarily arises from the translation of foreign currency denominated AFS monetary assets and mortgage and loans. Any offsetting amounts arising from foreign currency derivatives are included in the fair value change on derivative investments.

(2) In 2018, we sold and leased back a property in Waterloo, Ontario. The transaction qualified as a sale and operating lease and as a result, we recognized a gain of \$28.

## 5.D Cash, Cash Equivalents and Short-Term Securities

Cash, cash equivalents and short-term securities presented in our Consolidated Statements of Financial Position and Net cash, cash equivalents and short-term securities presented in our Consolidated Statements of Cash Flows consist of the following:

As at December 31,	2019	2018
Cash	\$ 1,656	\$ 2,089
Cash equivalents	5,059	5,209
Short-term securities	2,860	2,208
Cash, cash equivalents and short-term securities	9,575	9,506
Less: Bank overdraft, recorded in Other liabilities	30	104
Net cash, cash equivalents and short-term securities	\$ 9,545	\$ 9,402

## 5.E Derivative Financial Instruments and Hedging Activities

The fair values of derivative financial instruments by major class of derivatives are as follows:

As at December 31,	2019		2018	
	Fair value		Fair value	
	Assets	Liabilities	Assets	Liabilities
Interest rate contracts	\$ 1,198	\$ (517)	\$ 922	\$ (440)
Foreign exchange contracts	242	(1,516)	130	(1,820)
Other contracts	108	(7)	60	(35)
<b>Total derivatives</b>	<b>\$ 1,548</b>	<b>\$ (2,040)</b>	<b>\$ 1,112</b>	<b>\$ (2,295)</b>

The following table presents the fair values of derivative assets and liabilities categorized by type of hedge for accounting purposes and derivative investments:

As at December 31,	2019			2018		
	Total notional amount	Fair value		Total notional amount	Fair value	
		Assets	Liabilities		Assets	Liabilities
Derivative investments <sup>(1)</sup>	\$ 60,707	\$ 1,517	\$ (1,831)	\$ 58,268	\$ 1,101	\$ (2,134)
Fair value hedges	616	–	(208)	779	–	(153)
Cash flow hedges	808	31	(1)	151	11	(8)
<b>Total derivatives</b>	<b>\$ 62,131</b>	<b>\$ 1,548</b>	<b>\$ (2,040)</b>	<b>\$ 59,198</b>	<b>\$ 1,112</b>	<b>\$ (2,295)</b>

(1) Derivative investments are derivatives that have not been designated as hedges for accounting purposes.

We did not have any net investment hedges in 2019 or 2018.

Hedge ineffectiveness recognized in Interest and other investment income consists of the following:

For the years ended December 31,	2019	2018
Fair value hedging ineffectiveness:		
Gains (losses) on the hedged items attributable to the hedged risk	\$ 71	\$ (41)
Gains (losses) on the hedging derivatives	(64)	40
<b>Net ineffectiveness on fair value hedges</b>	<b>\$ 7</b>	<b>\$ (1)</b>

For cash flow hedges, we had hedge ineffectiveness of \$1 in 2019 (\$1 in 2018). We expect to reclassify a gain of \$7 from accumulated OCI to net income within the next 12 months that relates to cash flow hedges of anticipated award payments under certain share-based payment plans that are expected to occur in 2020, 2021 and 2022. The reclassification of accumulated OCI to income relating to these foreign currency forwards occurs upon disposal or impairment of the foreign operation.

## 5.F Transfers of Financial Assets

We enter into transactions, including mortgage securitization, repurchase agreements and securities lending, where we transfer financial assets while retaining the risks and rewards of ownership of the assets. These transferred financial assets are not derecognized and remain on our Consolidated Statements of Financial Position. The carrying value of the transferred assets and the associated liabilities are described in the sections below.

### 5.F.i Mortgage Securitization

We securitize certain insured fixed-rate commercial mortgages through the creation of mortgage-backed securities under the National Housing Act Mortgage-Backed Securities (“NHA MBS”) Program sponsored by the Canada Mortgage and Housing Corporation (“CMHC”). The NHA MBS are then sold to Canada Housing Trust, a government-sponsored security trust that issues securities to third-party investors under the Canadian Mortgage Bond (“CMB”) program. The securitization of these assets does not qualify for derecognition as we have not transferred substantially all of the risks and rewards of ownership. Specifically, we continue to be exposed to pre-payment and interest rate risk associated with these assets. There are no expected credit losses on the securitized mortgages, as the mortgages were already insured by the CMHC prior to securitization. These assets continue to be recognized as Mortgages and loans in our Consolidated Statements of Financial Position. Proceeds from securitization transactions are recognized as secured borrowings and included in Other liabilities in our Consolidated Statements of Financial Position.

Receipts of principal on the securitized mortgages are deposited into a principal reinvestment account (“PRA”) to meet our repayment obligation upon maturity under the CMB program. The assets in the PRA are typically comprised of cash and cash equivalents and certain asset-backed securities. We are exposed to reinvestment risk due to the amortizing nature of the securitized mortgages relative to our repayment obligation for the full principal amount due at maturity. We mitigate this reinvestment risk using interest rate swaps.

The carrying value and fair value of the securitized mortgages as at December 31, 2019 are \$1,587 and \$1,592, respectively (\$1,328 and \$1,318, respectively, as at December 31, 2018). The carrying value and fair value of the associated liabilities as at December 31, 2019 are \$1,715 and \$1,734, respectively (\$1,453 and \$1,446, respectively, as at December 31, 2018). The carrying value of asset-backed securities in the PRA as at December 31, 2019 is \$124 (\$124 as at December 31, 2018). There are no cash and cash equivalents in the PRA as at December 31, 2019 and 2018.

The fair value of the secured borrowings from mortgage securitization is based on the methodologies and assumptions for asset-backed securities described in Note 5.A.ii. The fair value of these liabilities is categorized in Level 2 of the fair value hierarchy as at December 31, 2019 and 2018.

### 5.F.ii Repurchase Agreements

We enter into repurchase agreements for operational funding and liquidity purposes. Repurchase agreements have maturities ranging from 8 to 365 days, averaging 87 days, and bear interest at an average rate of 1.81% as at December 31, 2019 (1.92% as at December 31, 2018). The carrying values of the transferred assets and the obligations related to their repurchase, which approximate their fair values, are \$1,850 as at December 31, 2019 (\$1,824 as at December 31, 2018). These liabilities are categorized in Level 2 of the fair value hierarchy. Collateral primarily consists of cash and cash equivalents as well as government guaranteed securities. Details on the collateral pledged are included in Note 6.A.ii.

### 5.F.iii Securities Lending

The Company engages in securities lending to generate additional income. Certain securities from its portfolio are lent to other institutions for short periods. Collateral exceeding the fair value of the securities lent is deposited by the borrower with a lending agent, usually a securities custodian, and maintained by the lending agent until the underlying security has been returned to us. The fair value of the securities lent is monitored on a daily basis with additional collateral obtained or refunded as the fair values fluctuate. Collateral primarily consists of Canadian federal and provincial government securities and cash and cash equivalents. Certain arrangements allow us to invest the cash collateral received for the securities lent. The carrying values of the securities lent approximate their fair values. The carrying values of the securities lent and the related collateral held are \$2,006 and \$2,128, respectively, as at December 31, 2019 (\$2,217 and \$2,338, respectively, as at December 31, 2018).

## 6. Financial Instrument Risk Management

The significant risks related to financial instruments are credit risk, market risk (including equity risk, interest rate and spread risk, and foreign currency risk) and liquidity risk. The following sections describe how we manage these risks.

Some of our financial instruments risk management policies and procedures are described in our Annual Management's Discussion and Analysis ("MD&A") for the year ended December 31, 2019. The shaded text and tables in the Risk Management section of the MD&A represent part of our disclosures on credit, market and liquidity risks and include a description of how we measure our risk and our objectives, policies and methodologies for managing these risks. Therefore, the shaded text and tables are an integral part of these Consolidated Financial Statements.

We use derivative instruments to manage market risks related to equity market, interest rate and currency fluctuations and in replication strategies for permissible investments. We do not engage in speculative investment in derivatives. The gap in market sensitivities or exposures between liabilities and supporting assets is monitored and managed within defined tolerance limits, by using derivative instruments, where appropriate. We use models and techniques to measure the effectiveness of our risk management strategies.

### 6.A Credit Risk

#### Risk Description

Credit risk is the possibility of loss from amounts owed by our borrowers or financial counterparties. We are subject to credit risk in connection with issuers of securities held in our investment portfolio, debtors, structured securities, reinsurers, counterparties (including derivative, repurchase agreement and securities lending counterparties), other financial institutions and other entities. Losses may occur when a counterparty fails to make timely payments pursuant to the terms of the underlying contractual arrangement or when the counterparty's credit rating or risk profile otherwise deteriorates. Credit risk can also arise in connection with deterioration in the value of, or ability to realize, any underlying security that may be used as collateral for the debt obligation. Credit risk can occur as a result of broad economic conditions, challenges within specific sectors of the economy, or from issues affecting individual companies. Events that result in defaults, impairments or downgrades of the securities in our investment portfolio would cause the Company to record realized or unrealized losses and may cause an increase in our provisions for asset default, adversely impacting earnings.

#### Credit Risk Management Governance and Control

We employ a wide range of credit risk management practices and controls, as outlined below:

- Credit risk governance practices are in place, including independent monitoring and review and reporting to senior management and the Risk & Conduct Review Committee.
- Risk appetite limits have been established for credit risk.
- Income and regulatory capital sensitivities are monitored, managed and reported against pre-established risk limits.
- Comprehensive Investment and Credit Risk Management Policy, guidelines and practices are in place.
- Specific investment diversification requirements are in place, such as defined investment limits for asset class, geography, and industry.
- Risk-based credit portfolio, counterparty, and sector exposure limits have been established.
- Mandatory use of credit quality ratings for portfolio investments has been established and is reviewed regularly. These internal rating decisions for new fixed income investments and ongoing review of existing rating decisions are independently adjudicated by Corporate Risk Management.
- Comprehensive due diligence processes and ongoing credit analyses are conducted.
- Regulatory solvency requirements include risk-based capital requirements and are monitored regularly.
- Comprehensive compliance monitoring practices and procedures including reporting against pre-established investment limits are in place.
- Reinsurance exposures are monitored to ensure that no single reinsurer represents an undue level of credit risk.
- Stress-testing techniques, such as Dynamic Capital Adequacy Testing ("DCAT"), are used to measure the effects of large and sustained adverse credit developments. In 2020, the Canadian Institute of Actuaries will replace DCAT with Financial Condition Testing ("FCT"). FCT, similar to DCAT, will continue to act as a key stress-testing technique for the organization. FCT's testing is broader than DCAT and allows for harmonization with the Company's Own Risk Solvency Assessment ("ORSA").

- Insurance contract liabilities are established in accordance with Canadian actuarial standards of practice.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.

### 6.A.i Maximum Exposure to Credit Risk

Our maximum credit exposure related to financial instruments as at December 31 is the balance as presented in our Consolidated Statements of Financial Position as we believe that these carrying amounts best represent the maximum exposure to credit risk. The credit exposure for debt securities may be increased to the extent that the amounts recovered from default are insufficient to satisfy the actuarial liability cash flows that the assets are intended to support.

The positive fair value of derivative assets is used to determine the credit risk exposure if the counterparties were to default. The credit risk exposure is the cost of replacing, at current market rates, all derivative contracts with a positive fair value. Additionally, we have credit exposure to items not on the Consolidated Statements of Financial Position as follows:

As at December 31,	2019	2018
Off-balance sheet item:		
Loan commitments <sup>(1)</sup>	\$ 2,175	\$ 2,460

(1) Loan commitments include commitments to extend credit under commercial and multi-family residential mortgages and private debt securities not quoted in an active market. Commitments on debt securities contain provisions that allow for withdrawal of the commitment if there is deterioration in the credit quality of the borrower.

### 6.A.ii Right of Offset and Collateral

We invest in financial assets which may be secured by real estate properties, pools of financial assets, third-party financial guarantees, credit insurance, and other arrangements.

For OTC derivatives, collateral is collected from and pledged to counterparties to manage credit exposure according to the Credit Support Annex ("CSA"), which forms part of the International Swaps and Derivatives Association's ("ISDA") master agreements. It is common practice to execute a CSA in conjunction with an ISDA master agreement. Under the ISDA master agreements for OTC derivatives, we have a right of offset in the event of default, insolvency, bankruptcy, or other early termination. In the ordinary course of business, bilateral OTC exposures under these agreements are substantially mitigated through associated collateral agreements with a majority of our counterparties.

For exchange-traded derivatives subject to derivative clearing agreements with the exchanges and clearinghouses, there is no provision for set-off at default. Initial margin is excluded from the table below as it would become part of a pooled settlement process.

For repurchase agreements and reverse repurchase agreements, assets are sold or purchased with a commitment to resell or repurchase at a future date. Additional collateral may be pledged to or collected from counterparties to manage credit exposure according to bilateral repurchase or reverse repurchase agreements. In the event of default by a counterparty, we are entitled to liquidate the assets we hold as collateral to offset against obligations to the same counterparty.

In the case of securities lending, assets are lent with a commitment from the counterparty to return at a future date. Cash or securities are received as collateral from the counterparty. In the event of default by the counterparty, we are entitled to liquidate the assets we hold as collateral to offset against obligations to the same counterparty.

We do not offset financial instruments in our Consolidated Statements of Financial Position, as our rights of offset are conditional. The following tables present the effect of conditional netting and similar arrangements. Similar arrangements include global master repurchase agreements, security lending agreements, and any related rights to financial collateral.

As at December 31,	2019				2018			
	Financial instruments presented in the Consolidated Statements of Financial Position <sup>(1)</sup>	Related amounts not set off in the Consolidated Statements of Financial Position			Financial instruments presented in the Consolidated Statements of Financial Position <sup>(1)</sup>	Related amounts not set off in the Consolidated Statements of Financial Position		
Financial instruments subject to master netting or similar agreements		Financial collateral (received) pledged <sup>(2)</sup>	Net amount	Financial instruments subject to master netting or similar agreements		Financial collateral (received) pledged <sup>(2)</sup>	Net amount	
Financial assets:								
Derivative assets (Note 6.A.v)	\$ 1,548	\$ (737)	\$ (730)	\$ 81	\$ 1,112	\$ (768)	\$ (298)	\$ 46
Reverse repurchase agreements (Note 8)	3	(3)	—	—	17	(17)	—	—
Total financial assets	\$ 1,551	\$ (740)	\$ (730)	\$ 81	\$ 1,129	\$ (785)	\$ (298)	\$ 46
Financial liabilities:								
Derivative liabilities	\$ (2,040)	\$ 737	\$ 937	\$ (366)	\$ (2,295)	\$ 768	\$ 1,132	\$ (395)
Repurchase agreements (Note 5.F.ii)	(1,850)	3	1,847	—	(1,824)	17	1,807	—
Total financial liabilities	\$ (3,890)	\$ 740	\$ 2,784	\$ (366)	\$ (4,119)	\$ 785	\$ 2,939	\$ (395)

(1) Net amounts of the financial instruments presented in our Consolidated Statements of Financial Position are the same as our gross recognized financial instruments, as we do not offset financial instruments in our Consolidated Statements of Financial Position.

(2) Financial collateral excludes overcollateralization and, for exchange-traded derivatives, initial margin. Total financial collateral, including initial margin and overcollateralization, received on derivative assets was \$939 (\$470 as at December 31, 2018), received on reverse repurchase agreements was \$3 (\$17 as at December 31, 2018), pledged on derivative liabilities was \$1,706 (\$1,726 as at December 31, 2018), and pledged on repurchase agreements was \$1,850 (\$1,824 as at December 31, 2018).

### 6.A.iii Concentration Risk

Concentrations of credit risk arise from exposures to a single debtor, a group of related debtors, or groups of debtors that have similar credit risk characteristics, such as groups of debtors in the same economic or geographic regions or in similar industries. Related issuers may have similar economic characteristics so that their ability to meet contractual obligations may be impacted similarly by changes in the economic or political conditions. We manage this risk by appropriately diversifying our investment portfolio through the use of concentration limits. In particular, we maintain policies which set counterparty exposure limits to manage the credit exposure for investments in any single issuer or to the same underlying credit. Exceptions exist for investments in securities which are issued or guaranteed by the Government of Canada, U.S. or UK and issuers for which the Risk & Conduct Review Committee have granted specific approval. Mortgages are collateralized by the related property, and generally do not exceed 75% of the value of the property at the time the original loan is made. Our mortgages and loans are diversified by type and location and, for mortgages, by borrower. Loans provide diversification benefits (name, industry and geography) and often provide stronger covenants and collateral than public debt securities, thereby providing both better credit protection and potentially higher recoveries in the event of default. The following tables provide details of the debt securities, mortgages and loans held by issuer country, geographic location and industry sector, where applicable.

The carrying value of debt securities by geographic location is shown in the following table. The geographic location is based on the country of the creditor's parent.

As at December 31,	2019			2018		
	Fair value through profit or loss	Available-for-sale	Total debt securities	Fair value through profit or loss	Available-for-sale	Total debt securities
Canada	\$ 28,221	\$ 5,031	\$ 33,252	\$ 25,091	\$ 4,217	\$ 29,308
United States	24,224	5,822	30,046	21,329	5,917	27,246
United Kingdom	4,874	528	5,402	5,092	565	5,657
Other	10,575	2,331	12,906	9,890	2,342	12,232
Balance	\$ 67,894	\$ 13,712	\$ 81,606	\$ 61,402	\$ 13,041	\$ 74,443

The carrying value of debt securities by issuer and industry sector is shown in the following table:

As at December 31,	2019			2018		
	Fair value through profit or loss	Available-for-sale	Total debt securities	Fair value through profit or loss	Available-for-sale	Total debt securities
Debt securities issued or guaranteed by:						
Canadian federal government	\$ 3,890	\$ 2,556	\$ 6,446	\$ 3,830	\$ 1,746	\$ 5,576
Canadian provincial and municipal government	13,826	1,139	14,965	11,866	1,199	13,065
U.S. government and agency	1,748	1,363	3,111	1,380	1,527	2,907
Other foreign government	5,181	736	5,917	4,929	717	5,646
Total government issued or guaranteed debt securities	24,645	5,794	30,439	22,005	5,189	27,194
Corporate debt securities by industry sector:						
Financials	9,341	1,585	10,926	8,390	1,470	9,860
Utilities	6,693	565	7,258	6,353	528	6,881
Industrials	4,800	629	5,429	4,053	590	4,643
Energy	3,867	365	4,232	3,628	340	3,968
Communication services <sup>(1)</sup>	3,075	471	3,546	2,826	481	3,307
Real estate	2,595	368	2,963	2,640	376	3,016
Health care	1,886	236	2,122	1,734	299	2,033
Consumer staples	1,703	221	1,924	1,625	257	1,882
Materials	1,331	212	1,543	1,225	256	1,481
Consumer discretionary <sup>(1)</sup>	1,268	219	1,487	1,372	209	1,581
Information technology <sup>(1)</sup>	1,122	213	1,335	1,024	207	1,231
Total corporate debt securities	37,681	5,084	42,765	34,870	5,013	39,883
Asset-backed securities	5,568	2,834	8,402	4,527	2,839	7,366
Total debt securities	\$ 67,894	\$ 13,712	\$ 81,606	\$ 61,402	\$ 13,041	\$ 74,443

(1) Our grouping of debt securities by sector is based on the Global Industry Classification Standard and S&P Dow Jones Indices. During 2018, certain Consumer discretionary and Information technology debt securities were moved to the Communication services sector.

The carrying value of mortgages and loans by geographic location and type is shown in the following tables. The geographic location for mortgages is based on location of property, while for corporate loans it is based on the country of the creditor's parent.

As at December 31, 2019	Canada	United States	United Kingdom	Other	Total
Mortgages:					
Retail	\$ 1,981	\$ 1,921	\$ –	\$ –	\$ 3,902
Office	1,854	2,068	–	–	3,922
Multi-family residential	3,900	1,791	–	–	5,691
Industrial and land	861	1,037	–	–	1,898
Other	714	98	–	–	812
Total mortgages <sup>(1)</sup>	\$ 9,310	\$ 6,915	\$ –	\$ –	\$ 16,225
Loans	\$ 13,249	\$ 11,994	\$ 3,297	\$ 3,457	\$ 31,997
Total mortgages and loans	\$ 22,559	\$ 18,909	\$ 3,297	\$ 3,457	\$ 48,222

(1) \$3,966 of mortgages in Canada are insured by the CMHC.

As at December 31, 2018	Canada	United States	United Kingdom	Other	Total
Mortgages:					
Retail	\$ 1,921	\$ 2,281	\$ –	\$ –	\$ 4,202
Office	1,811	2,417	–	–	4,228
Multi-family residential	3,455	1,920	–	–	5,375
Industrial and land	752	1,154	–	–	1,906
Other	618	104	–	–	722
Total mortgages <sup>(1)</sup>	\$ 8,557	\$ 7,876	\$ –	\$ –	\$ 16,433
Loans	\$ 13,238	\$ 11,458	\$ 2,547	\$ 3,146	\$ 30,389
Total mortgages and loans	\$ 21,795	\$ 19,334	\$ 2,547	\$ 3,146	\$ 46,822

(1) \$3,537 of mortgages in Canada are insured by the CMHC.

#### 6.A.iv Contractual Maturities

The contractual maturities of debt securities are shown in the following table. Actual maturities could differ from contractual maturities because of the borrower's right to call or extend or right to prepay obligations, with or without prepayment penalties.

As at December 31,	2019			2018		
	Fair value through profit or loss	Available-for-sale	Total debt securities	Fair value through profit or loss	Available-for-sale	Total debt securities
Due in 1 year or less	\$ 2,094	\$ 2,025	\$ 4,119	\$ 2,189	\$ 1,175	\$ 3,364
Due in years 2-5	9,692	3,954	13,646	9,307	4,865	14,172
Due in years 6-10	9,655	3,301	12,956	10,080	2,580	12,660
Due after 10 years	46,453	4,432	50,885	39,826	4,421	44,247
Total debt securities	\$ 67,894	\$ 13,712	\$ 81,606	\$ 61,402	\$ 13,041	\$ 74,443

The carrying value of mortgages by scheduled maturity, before allowances for losses, is as follows:

As at December 31,	2019	2018
Due in 1 year or less	\$ 1,099	\$ 968
Due in years 2-5	5,255	5,118
Due in years 6-10	6,787	7,351
Due after 10 years	3,154	3,021
Total mortgages	\$ 16,295	\$ 16,458

The carrying value of loans by scheduled maturity, before allowances for losses, is as follows:

As at December 31,	2019	2018
Due in 1 year or less	\$ 1,834	\$ 1,425
Due in years 2-5	6,872	6,968
Due in years 6-10	5,449	5,183

Due after 10 years	17,889	16,863
Total loans	\$ 32,044	\$ 30,439

Notional amounts of derivative financial instruments are the basis for calculating payments and are generally not the actual amounts exchanged. The following table provides the notional amounts of derivative instruments outstanding by type of derivative and term to maturity:

As at December 31,	2019				2018			
	Term to maturity				Term to maturity			
	Under 1 Year	1 to 5 Years	Over 5 Years	Total	Under 1 Year	1 to 5 Years	Over 5 Years	Total
Over-the-counter contracts:								
Interest rate contracts:								
Forward contracts	\$ 50	\$ -	\$ -	\$ 50	\$ -	\$ -	\$ -	\$ -
Swap contracts	1,906	3,052	14,649	19,607	1,101	3,506	16,685	21,292
Options purchased	617	3,279	2,850	6,746	1,198	2,898	3,737	7,833
Options written <sup>(1)</sup>	357	474	-	831	477	648	225	1,350
Foreign exchange contracts:								
Forward contracts	5,289	4,137	-	9,426	6,529	15	-	6,544
Swap contracts	867	3,723	12,366	16,956	532	4,451	9,210	14,193
Other contracts:								
Options purchased	1,164	-	-	1,164	-	-	-	-
Forward contracts	128	176	-	304	127	158	-	285
Swap contracts	178	1	-	179	112	1	-	113
Credit derivatives	343	878	6	1,227	-	1,329	27	1,356
Exchange-traded contracts:								
Interest rate contracts:								
Futures contracts	2,917	-	-	2,917	3,669	-	-	3,669
Equity contracts:								
Futures contracts	2,507	-	-	2,507	2,377	-	-	2,377
Options purchased	200	-	-	200	186	-	-	186
Options written	17	-	-	17	-	-	-	-
<b>Total notional amount</b>	<b>\$ 16,540</b>	<b>\$ 15,720</b>	<b>\$ 29,871</b>	<b>\$ 62,131</b>	<b>\$ 16,308</b>	<b>\$ 13,006</b>	<b>\$ 29,884</b>	<b>\$ 59,198</b>

(1) These are covered short derivative positions that may include interest rate options, swaptions, or floors.

The following table provides the fair value of derivative instruments outstanding by term to maturity:

As at December 31,	2019				2018			
	Term to maturity				Term to maturity			
	Under 1 Year	1 to 5 Years	Over 5 Years	Total	Under 1 Year	1 to 5 Years	Over 5 Years	Total
Derivative assets	\$ 180	\$ 231	\$ 1,137	\$ 1,548	\$ 100	\$ 150	\$ 862	\$ 1,112
Derivative liabilities	\$ (73)	\$ (377)	\$ (1,590)	\$ (2,040)	\$ (240)	\$ (555)	\$ (1,500)	\$ (2,295)

## 6.A.v Asset Quality

The following sections describe our assessment of the credit quality of our financial assets. We monitor credit quality based on internal risk ratings as well as ratings assigned by external rating agencies where available.

### Debt Securities by Credit Rating

Investment grade debt securities are those rated BBB and above. Our debt security portfolio was 99% investment grade based on carrying value as at December 31, 2019 (99% as at December 31, 2018). The credit risk ratings were established in accordance with the internal rating process described in the Credit Risk Management Governance and Control section.

The following table summarizes our debt securities by credit quality:

As at December 31,	2019			2018		
	Fair value through profit or loss	Available-for-sale	Total debt securities	Fair value through profit or loss	Available-for-sale	Total debt securities
Debt securities by credit rating:						
AAA	\$ 11,097	\$ 6,630	\$ 17,727	\$ 9,728	\$ 5,919	\$ 15,647
AA	10,503	1,670	12,173	14,208	2,044	16,252
A	27,341	3,037	30,378	19,089	2,447	21,536

BBB	18,339	2,248	20,587	17,646	2,483	20,129
BB and lower	614	127	741	731	148	879
<b>Total debt securities</b>	<b>\$ 67,894</b>	<b>\$ 13,712</b>	<b>\$ 81,606</b>	<b>\$ 61,402</b>	<b>\$ 13,041</b>	<b>\$ 74,443</b>

### Mortgages and Loans by Credit Rating

The credit quality of mortgages and loans is evaluated internally through regular monitoring of credit-related exposures. We use judgment and experience to determine what factors should be considered when assigning an internal credit rating, which is validated through the use of credit scoring models, to a particular mortgage or corporate loan. The internal credit ratings reflect the credit quality of the borrower as well as the value of any collateral held as security.

The following tables summarize our mortgages and loans by credit quality indicator:

As at December 31,	2019	2018
Mortgages by credit rating:		
Insured	\$ 3,966	\$ 3,537
AAA	1	3
AA	2,087	2,209
A	5,481	4,841
BBB	3,943	4,925
BB and lower	670	912
Impaired	77	6
<b>Total mortgages</b>	<b>\$ 16,225</b>	<b>\$ 16,433</b>

As at December 31,	2019	2018
Loans by credit rating:		
AAA	\$ 224	\$ 341
AA	5,044	4,659
A	12,516	11,483
BBB	12,920	12,766
BB and lower	1,207	1,097
Impaired	86	43
<b>Total loans</b>	<b>\$ 31,997</b>	<b>\$ 30,389</b>

### Derivative Financial Instruments by Counterparty Credit Rating

Derivative instruments consist of bilateral OTC contracts negotiated directly between counterparties, OTC contracts cleared through central clearing houses or exchange-traded contracts. Since a counterparty failure in an OTC derivative transaction could render it ineffective for hedging purposes, we generally transact our derivative contracts with highly-rated counterparties. In limited circumstances, we enter into transactions with lower-rated counterparties if credit enhancement features are included.

We pledge and hold assets as collateral under CSAs for bilateral OTC derivative contracts. The collateral is realized in the event of early termination as defined in the agreements. The assets held and pledged are primarily cash and debt securities issued by the Canadian federal government and U.S. government and agencies. While we are generally permitted to sell or re-pledge the assets held as collateral, we have not sold or re-pledged any assets. Exchange-traded and cleared OTC derivatives require the posting of initial margin, as well as daily cash settlement of variation margin. The terms and conditions related to the use of the collateral are consistent with industry practice.

Further details on collateral held and pledged as well as the impact of netting arrangements are included in Note 6.A.ii.

The following table shows the OTC derivative financial instruments with a positive fair value split by counterparty credit rating:

As at December 31,	2019			2018		
	Gross positive replacement cost <sup>(2)</sup>	Impact of master netting agreements <sup>(3)</sup>	Net replacement cost <sup>(4)</sup>	Gross positive replacement cost <sup>(2)</sup>	Impact of master netting agreements <sup>(3)</sup>	Net replacement cost <sup>(4)</sup>
Over-the-counter contracts:						
AA	\$ 439	\$ (210)	\$ 229	\$ 289	\$ (252)	\$ 37
A	1,008	(517)	491	750	(507)	243
BBB	82	(10)	72	46	(9)	37
<b>Total over-the-counter derivatives<sup>(1)</sup></b>	<b>\$ 1,529</b>	<b>\$ (737)</b>	<b>\$ 792</b>	<b>\$ 1,085</b>	<b>\$ (768)</b>	<b>\$ 317</b>

(1) Exchange-traded derivatives with a positive fair value of \$19 in 2019 (\$27 in 2018) are excluded from the table above, as they are subject to daily margining requirements. Our credit exposure on these derivatives is with the exchanges and clearinghouses.

(2) Used to determine the credit risk exposure if the counterparties were to default. The credit risk exposure is the cost of replacing, at current market rates, all contracts with a positive fair value.

(3) The credit risk associated with derivative assets subject to master netting arrangements is reduced by derivative liabilities due to the same counterparty in the event of default or early termination. Our overall exposure to credit risk reduced through master netting arrangements may change substantially following the reporting date as the exposure is affected by each transaction subject to the arrangement.

(4) Net replacement cost is positive replacement cost less the impact of master netting agreements.

### Credit Default Swaps by Underlying Financial Instrument Credit Rating

Credit default swaps ("CDS") are OTC contracts that transfer credit risk related to an underlying referenced financial instrument from one counterparty to another. The purchaser receives protection against the decline in the value of the referenced financial instrument as a result of



specified credit events such as default or bankruptcy. The seller receives a periodic premium in return for payment contingent on a credit event affecting the referenced financial instrument. CDS index contracts are those where the underlying referenced financial instruments are a group of assets. The Company enters into credit derivatives to replicate credit exposure of an underlying reference security and enhance investment returns. The credit risk ratings of the underlying reference securities for single name contracts were established in accordance with the internal rating process described in the Credit Risk Management Governance and Control section.

The following table provides a summary of the credit default swap protection sold by credit rating of the underlying reference security:

As at December 31,	2019		2018	
	Notional amount	Fair value	Notional amount	Fair value
Single name credit default swap contracts:				
AA	\$ 45	\$ 1	\$ 48	\$ 1
A	574	9	611	9
BBB	608	19	674	13
Total single name credit default swap contracts	\$ 1,227	\$ 29	\$ 1,333	\$ 23
Credit default swap index contracts	\$ –	\$ –	\$ 23	\$ –
Total credit default swap contracts sold	\$ 1,227	\$ 29	\$ 1,356	\$ 23

#### Reinsurance Assets by Credit Rating

The table below presents the distribution of Reinsurance assets by credit rating:

As at December 31,	2019			2018		
	Gross exposure	Collateral	Net exposure	Gross exposure	Collateral	Net exposure
Reinsurance assets by credit rating:						
AA	\$ 2,131	\$ 5	\$ 2,126	\$ 1,442	\$ 6	\$ 1,436
A	1,170	68	1,102	1,760	83	1,677
BBB	200	128	72	203	132	71
BB	1,707	1,663	44	1,677	1,617	60
CCC	181	168	13	252	72	180
Not rated	78	67	11	79	75	4
Total	\$ 5,467	\$ 2,099	\$ 3,368	\$ 5,413	\$ 1,985	\$ 3,428
Less: Negative reinsurance assets	1,443			1,272		
Total Reinsurance assets	\$ 4,024			\$ 4,141		

#### 6.A.vi Impairment of Assets

Management assesses debt and equity securities, mortgages and loans, and other invested assets for objective evidence of impairment at each reporting date. We employ a portfolio monitoring process to identify assets or groups of assets that have objective evidence of impairment, having experienced a loss event or events that have an impact on the estimated future cash flows of the asset or group of assets. There are inherent risks and uncertainties in our evaluation of assets or groups of assets for objective evidence of impairment, including both internal and external factors such as general economic conditions, issuers' financial conditions and prospects for economic recovery, market interest rates, unforeseen events which affect one or more issuers or industry sectors, and portfolio management parameters, including asset mix, interest rate risk, portfolio diversification, duration matching, and greater than expected liquidity needs. All of these factors could impact our evaluation of an asset or group of assets for objective evidence of impairment.

Management exercises considerable judgment in assessing for objective evidence of impairment and, based on its assessment, classifies specific assets as either performing or into one of the following credit quality lists:

"Monitor List" – the timely collection of all contractually specified cash flows is reasonably assured, but changes in issuer-specific facts and circumstances require monitoring. No impairment charge is recorded for unrealized losses on assets related to these debtors.

"Watch List" – the timely collection of all contractually specified cash flows is reasonably assured, but changes in issuer-specific facts and circumstances require heightened monitoring. An asset is moved from the Monitor List to the Watch List when changes in issuer-specific facts and circumstances increase the possibility that a security may experience a loss event on an imminent basis. No impairment charge is recorded for unrealized losses on assets related to these debtors.

"Impaired List" – the timely collection of all contractually specified cash flows is no longer reasonably assured. For these investments that are classified as AFS or amortized cost, an impairment charge is recorded or the asset is sold and a realized loss is recorded as a charge to income. Impairment charges and realized losses are recorded on assets related to these debtors.

Our approach to determining whether there is objective evidence of impairment varies by asset type. However, we have a process to ensure that in all instances where a decision has been made to sell an asset at a loss, the asset is impaired.

#### Debt Securities

Objective evidence of impairment on debt securities involves an assessment of the issuer's ability to meet current and future contractual interest and principal payments. In determining whether debt securities have objective evidence of impairment, we employ a screening

process. The process identifies securities in an unrealized loss position, with particular attention paid to those securities whose fair value to amortized cost percentages have been less than 80% for an extended period of time. Discrete credit events, such as a ratings downgrade, are also used to identify securities that may have objective evidence of impairment. The securities identified are then evaluated based on issuer-specific facts and circumstances, including an evaluation of the issuer's financial condition and prospects for economic recovery, evidence of difficulty being experienced by the issuer's parent or affiliate, and management's assessment of the outlook for the issuer's industry sector.

Management also assesses previously impaired debt securities whose fair value has recovered to determine whether the recovery is objectively related to an event occurring subsequent to the impairment loss that has an impact on the estimated future cash flows of the asset.

Asset-backed securities are assessed for objective evidence of impairment. Specifically, we periodically update our best estimate of cash flows over the life of the security. In the event that there is an adverse change in the expected cash flows, the asset is impaired. Estimating future cash flows is a quantitative and qualitative process that incorporates information received from third parties, along with assumptions and judgments about the future performance of the underlying collateral. Losses incurred on the respective mortgage-backed securities portfolios are based on loss models using assumptions about key systematic risks, such as unemployment rates and housing prices, and loan-specific information such as delinquency rates and loan-to-value ratios.

#### *Equity Securities and Other Invested Assets*

Objective evidence of impairment for equity securities and investments in limited partnerships, segregated funds, and mutual funds involves an assessment of the prospect of recovering the cost of our investment. Instruments in an unrealized loss position are reviewed to determine if objective evidence of impairment exists. Objective evidence of impairment for these instruments includes, but is not limited to, the financial condition and near-term prospects of the issuer, including information about significant changes with adverse effects that have taken place in the technological, market, economic, or legal environment in which the issuer operates, and a significant or prolonged decline in the fair value of the instruments below their cost.

We apply presumptive impairment tests to determine whether there has been a significant or prolonged decline in the fair value of an instrument below its cost, and unless extenuating circumstances exist, the instrument is considered to be impaired.

#### *Mortgages and Loans*

Objective evidence of impairment on mortgages and loans involves an assessment of the borrower's ability to meet current and future contractual interest and principal payments. In determining whether objective evidence of impairment exists, we consider a number of factors including, but not limited to, the financial condition of the borrower and, for collateral dependent mortgages and loans, the fair value of the collateral.

Mortgages and loans causing concern are monitored closely and evaluated for objective evidence of impairment. For these mortgages and loans, we review information that is appropriate to the circumstances, including recent operating developments, strategy review, timelines for remediation, financial position of the borrower and, for collateral-dependent mortgages and loans, the value of security as well as occupancy and cash flow considerations.

In addition to specific allowances, circumstances may warrant a collective allowance based on objective evidence of impairment for a group of mortgages and loans. We consider regional economic conditions, developments for various property types, and significant exposure to struggling tenants in determining whether there is objective evidence of impairment for certain collateral dependent mortgages and loans, even though it is not possible to identify specific mortgages and loans that are likely to become impaired on an individual basis.

Management also assesses previously impaired mortgages and loans to determine whether a recovery is objectively related to an event occurring subsequent to the impairment loss that has an impact on the estimated future cash flows of the asset.

#### **Impairment of Fair Value Through Profit or Loss Assets**

Since financial assets classified as FVTPL are carried at fair value with changes in fair value recorded to income, any reduction in value of the assets due to impairment is already reflected in income. However, the impairment of assets classified as FVTPL generally impacts the change in insurance contract liabilities due to the impact of asset impairment on estimates of future cash flows.

#### **Impairment of Available-for-Sale Assets**

We recognized impairment losses on AFS assets of \$36 for the year ended December 31, 2019 (\$12 during 2018).

We did not reverse any impairment on AFS debt securities during 2019 and 2018.

#### **Past Due and Impaired Mortgages and Loans**

The distribution of mortgages and loans past due or impaired is shown in the following tables:

As at December 31, 2019	Gross carrying value			Allowance for losses		
	Mortgages	Loans	Total	Mortgages	Loans	Total
Not past due	\$ 16,148	\$ 31,911	\$ 48,059	\$ –	\$ –	\$ –
Impaired	147	133	280	70	47	117
Total	\$ 16,295	\$ 32,044	\$ 48,339	\$ 70	\$ 47	\$ 117

As at December 31, 2018	Gross carrying value			Allowance for losses		
	Mortgages	Loans	Total	Mortgages	Loans	Total
Not past due	\$ 16,427	\$ 30,332	\$ 46,759	\$ –	\$ –	\$ –
Past due:						
Past due less than 90 days	–	14	14	–	–	–
Impaired	31	93	124	25	50	75
Total	\$ 16,458	\$ 30,439	\$ 46,897	\$ 25	\$ 50	\$ 75

## Changes in Allowances for Losses

The changes in the allowances for losses are as follows:

	Mortgages	Loans	Total
Balance, January 1, 2018	\$ 22	\$ 28	\$ 50
Provision for (reversal of) losses	3	19	22
Write-offs, net of recoveries, and other adjustments	(2)	–	(2)
Foreign exchange rate movements	2	3	5
Balance, December 31, 2018	\$ 25	\$ 50	\$ 75
Provision for (reversal of) losses	46	(1)	45
Foreign exchange rate movements	(1)	(2)	(3)
<b>Balance, December 31, 2019</b>	<b>\$ 70</b>	<b>\$ 47</b>	<b>\$ 117</b>

## 6.B Market Risk

### Risk Description

We are exposed to financial and capital market risk, which is defined as the risk that the fair value or future cash flows of an insurance contract or financial instrument will fluctuate because of changes or volatility in market prices. Market risk includes equity, interest rate and spread, real estate and foreign currency risks.

### Market Risk Management Governance and Control

We employ a wide range of market risk management practices and controls as outlined below:

- Market risk governance practices are in place, including independent monitoring and review and reporting to senior management and the Risk & Conduct Review Committee.
- Risk appetite limits have been established for equity, interest rate, real estate and foreign currency risks.
- Income and regulatory capital sensitivities are monitored, managed and reported against pre-established risk limits.
- Comprehensive asset-liability management and hedging policies, programs and practices are in place.
- Regulatory solvency requirements include risk-based capital requirements and are monitored regularly.
- Product Design and Pricing Policy requires a detailed risk assessment and pricing provisions for material risks.
- Stress-testing techniques, such as DCAT, are used to measure the effects of large and sustained adverse market movements.
- Insurance contract liabilities are established in accordance with Canadian actuarial standards of practice.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.

Specific market risks and our risk management strategies are discussed below in further detail.

### 6.B.i Equity Risk

Equity risk is the potential for financial loss arising from declines or volatility in equity market prices. We are exposed to equity risk from a number of sources. A portion of our exposure to equity risk arises in connection with benefit guarantees on segregated fund contracts and variable annuities. These benefit guarantees may be triggered upon death, maturity, withdrawal or annuitization. The cost of providing for these guarantees is uncertain and will depend upon a number of factors, including general capital market conditions, underlying fund performance, policyholder behaviour and mortality experience, which may result in negative impacts on our net income and capital.

We generate revenue in our asset management businesses and from certain insurance and annuity contracts where fees are levied on account balances that are affected directly by equity market levels. Accordingly, we have further exposure to equity risk as adverse fluctuations in the market value of such assets will result in corresponding adverse impacts on our revenue and net income. In addition, declining and volatile equity markets may have a negative impact on sales and redemptions (surrenders) in these businesses, and this may result in further adverse impacts on our net income and financial position.

We also have direct exposure to equity markets from the investments supporting other general account liabilities, surplus, and employee benefit plans. These exposures fall within our risk-taking philosophy and appetite, and are therefore generally not hedged.

The carrying value of equities by issuer country is shown in the following table:

As at December 31,	2019			2018		
	Fair value through profit or loss	Available-for-sale	Total equities	Fair value through profit or loss	Available-for-sale	Total equities
Canada	\$ 2,813	\$ 22	\$ 2,835	\$ 2,651	\$ 15	\$ 2,666
United States	550	137	687	508	388	896
United Kingdom	132	5	137	121	5	126
Other	979	149	1,128	734	212	946
Total equities	\$ 4,474	\$ 313	\$ 4,787	\$ 4,014	\$ 620	\$ 4,634

### 6.B.ii Embedded Derivatives Risk

An embedded derivative is contained within a host insurance contract if it includes an identifiable condition to modify the cash flows that are otherwise payable. This section is applicable to those embedded derivatives where we are not required to, and have not measured (either separately or together with the host contract) the embedded derivative at fair value.

A significant market risk exposure from embedded derivatives arises in connection with the benefit guarantees on segregated fund contracts. These benefit guarantees are linked to underlying fund performance and may be triggered upon death, maturity, withdrawal, or annuitization. We have implemented hedging programs to mitigate a portion of this market risk exposure.

We are also exposed to significant interest rate risk from embedded derivatives in certain general account products and segregated fund contracts, which contain explicit or implicit investment guarantees in the form of minimum crediting rates, guaranteed premium rates, settlement options, and benefit guarantees. If investment returns fall below guaranteed levels, we may be required to increase liabilities or capital in respect of these contracts. The guarantees attached to these products may be applicable to both past premiums collected and future premiums not yet received. Segregated fund contracts provide benefit guarantees that are linked to underlying fund performance and may be triggered upon death, maturity, withdrawal, or annuitization. These products are included in our asset-liability management program and the residual interest rate exposure is managed within our risk appetite limits.

We are also exposed to interest rate risk through guaranteed annuitization options included primarily in retirement contracts and pension plans. These embedded options give policyholders the right to convert their investment into a pension on a guaranteed basis, thereby exposing us to declining long-term interest rates as the annuity guarantee rates come into effect. Embedded options on unit-linked pension contracts give policyholders the right to convert their fund at retirement into pensions on a guaranteed basis, thereby exposing us to declining interest rates and increasing equity market returns (increasing the size of the fund which is eligible for the guaranteed conversion basis). Guaranteed annuity options are included in our asset-liability management program and most of the interest rate and equity exposure is mitigated through hedging.

Significant changes or volatility in interest rates or spreads could have a negative impact on sales of certain insurance and annuity products, and adversely impact the expected pattern of redemptions (surrenders) on existing policies. Increases in interest rates or widening spreads may increase the risk that policyholders will surrender their contracts, potentially forcing us to liquidate assets at a loss and accelerate recognition of certain acquisition expenses. While we have established hedging programs in place and our insurance and annuity products often contain surrender mitigation features, these may not be sufficient to fully offset the adverse impact of the underlying losses.

Certain annuity and long-term disability contracts contain embedded derivatives as benefits are linked to the Consumer Price Index; however most of this exposure is hedged through the Company's ongoing asset-liability management program.

## 6.C Liquidity Risk

### Risk Description

Liquidity risk is the possibility that we will not be able to fund all cash outflow commitments and collateral requirements as they fall due. This includes the risk of being forced to sell assets at depressed prices resulting in realized losses on sale. This risk also includes restrictions on our ability to efficiently allocate capital among our subsidiaries due to various market and regulatory constraints on the movement of funds. Our funding obligations arise in connection with the payment of policyholder benefits, expenses, reinsurance settlements, asset purchases, investment commitments, interest on debt, and dividends on common and preferred shares. Sources of available cash flow include general fund premiums and deposits, investment related inflows (such as maturities, principal repayments, investment income and proceeds of asset sales), proceeds generated from financing activities, and dividends and interest payments from subsidiaries. We have various financing transactions and derivative contracts under which we may be required to pledge collateral or to make payments to our counterparties for the decline in market value of specified assets. The amount of collateral or payments required may increase under certain circumstances (such as changes to interest rates, credit spreads, equity markets or foreign exchange rates), which could adversely affect our liquidity.

### Liquidity Risk Management Governance and Control

We generally maintain a conservative liquidity position and employ a wide range of liquidity risk management practices and controls, which are described below:

- Liquidity risk governance practices are in place, including independent monitoring and review and reporting to senior management and the Risk & Conduct Review Committee.
- Liquidity is managed in accordance with our Asset Liability Management Policy and operating guidelines.
- Liquidity contingency plans are maintained for the management of liquidity in a liquidity event.
- Stress testing is performed by comparing liquidity coverage risk metrics under a one-month stress scenario to our policy thresholds. These liquidity coverage risk metrics are measured and managed at the enterprise and legal entity levels.
- Stress testing of our collateral is performed by comparing collateral coverage ratios to our policy threshold.
- Cash Management and asset-liability management programs support our ability to maintain our financial position by ensuring that sufficient cash flow and liquid assets are available to cover potential funding requirements. We invest in various types of assets with a view of matching them to our liabilities of various durations.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.
- We actively manage and monitor our capital and asset levels, and the diversification and credit quality of our investments.
- Various credit facilities for general corporate purposes are maintained.

We are subject to various regulations in the jurisdictions in which we operate. The ability of SLF Inc.'s subsidiaries to pay dividends and transfer funds is regulated in certain jurisdictions and may require local regulatory approvals and the satisfaction of specific conditions in certain circumstances. Through effective cash management and capital planning, SLF Inc. ensures that its subsidiaries, as a whole and on a stand-alone basis, are properly funded and maintain adequate liquidity to meet obligations, both individually and in aggregate.

Based on our historical cash flows and liquidity management processes, we believe that the cash flows from our operating activities will continue to provide sufficient liquidity for us to satisfy debt service obligations and to pay other expenses as they fall due.

## 7. Insurance Risk Management

### 7.A Insurance Risk

#### Risk Description

Insurance risk is the uncertainty of product performance due to actual experience emerging differently than expected in the areas of policyholder behaviour, mortality, morbidity and longevity. In addition, product design and pricing, expense and reinsurance risks impact multiple risk categories, including insurance risk.

#### Insurance Risk Management Governance and Control

We employ a wide range of insurance risk management practices and controls, as outlined below:

- Insurance risk governance practices are in place, including independent monitoring and review and reporting to senior management and the Risk & Conduct Review Committee.
- Risk appetite limits have been established for policyholder behaviour, mortality and morbidity, and longevity risks.
- Income and regulatory capital sensitivities are monitored, managed and reported against pre-established risk limits.
- Comprehensive Insurance Risk Policy, guidelines and practices are in place.
- The global underwriting manual aligns underwriting practices with our corporate risk management standards and ensures a consistent approach in insurance underwriting.
- Board-approved maximum retention limits are in place. Amounts issued in excess of these limits are reinsured.
- Detailed procedures, including criteria for approval of risks and for claims adjudication are established and monitored for each business segment.
- Underwriting and risk selection standards are established and overseen by the corporate underwriting and claims risk management function.
- Diversification and risk pooling is managed by aggregation of exposures across product lines, geography and distribution channels.
- The Insurance Risk Policy and Investment & Credit Risk Policy establish acceptance criteria and protocols to monitor the level of reinsurance ceded to any single reinsurer or group of reinsurers.
- Reinsurance counterparty risk is monitored, including annual reporting of reinsurance exposure to the Risk & Conduct Review Committee.
- Concentration risk exposure is monitored on group policies in a single location to avoid a catastrophic event occurrence resulting in a significant impact.
- Various limits, restrictions and fee structures are introduced into plan designs in order to establish a more homogeneous policy risk profile and limit potential for anti-selection.
- Regulatory solvency requirements include risk-based capital requirements and are monitored regularly.
- The Product Design and Pricing Policy requires detailed risk assessment and pricing provision for material risks.
- Company specific and industry level experience studies and sources of earnings analysis are monitored and factored into valuation, renewal and new business pricing processes.
- Stress-testing techniques, such as DCAT, are used to measure the effects of large and sustained adverse movements in insurance risk factors. In 2020, the Canadian Institute of Actuaries will replace DCAT with FCT. FCT, similar to DCAT, will continue to act as a key stress-testing technique for the organization. FCT's testing is broader than DCAT and allows for harmonization with the Company's ORSA.
- Insurance contract liabilities are established in accordance with Canadian actuarial standards of practice.
- Internal capital targets are established at an enterprise level to cover all risks and are above minimum regulatory and supervisory levels. Actual capital levels are monitored to ensure they exceed internal targets.

We use reinsurance to limit losses, minimize exposure to significant risks and to provide additional capacity for growth. Our Insurance Risk Policy sets maximum global retention limits and related management standards and practices that are applied to reduce our exposure to large claims. Amounts in excess of the Board-approved maximum retention limits are reinsured. Effective January 1, 2019, we updated our single life or joint-first-to-die basis retention limit to \$40 (\$25 in 2018) in Canada and US\$40 (US\$25 in 2018) outside of Canada. For survivorship life insurance, our maximum global retention limit is \$50 (\$30 in 2018) in Canada and US\$50 (US\$30 in 2018) outside of Canada. In certain markets and jurisdictions, retention levels below the maximum are applied. Reinsurance is utilized for numerous products in most business segments, and placement is done on an automatic basis for defined insurance portfolios and on a facultative basis for individual risks with certain characteristics.

Our reinsurance coverage is well diversified and controls are in place to manage exposure to reinsurance counterparties. Reinsurance exposures are monitored to ensure that no single reinsurer represents an undue level of credit risk. This includes performing periodic due diligence on our reinsurance counterparties as well as internal credit assessments on counterparties with which we have material exposure. While reinsurance arrangements provide for the recovery of claims arising from the liabilities ceded, we retain primary responsibility to the policyholders.

Specific insurance risks and our risk management strategies are discussed below in further detail. The sensitivities provided below reflect the impact of any applicable ceded reinsurance arrangements.

#### 7.A.i Policyholder Behaviour Risk

##### Risk Description

We can incur losses due to adverse policyholder behaviour relative to the assumptions used in the pricing and valuation of products with regard to lapse of policies or exercise of other embedded policy options.

Uncertainty in policyholder behaviour can arise from several sources including unexpected events in the policyholder's life circumstances, the general level of economic activity (whether higher or lower than expected), changes in the financial and capital markets, changes in pricing and availability of current products, the introduction of new products, changes in underwriting technology and standards, as well as changes in our financial strength or reputation. Uncertainty in future cash flows affected by policyholder behaviour can be further exacerbated by irrational behaviour during times of economic turbulence or at key option exercise points in the life of an insurance contract.

For individual life insurance products where fewer terminations would be financially adverse to us, shareholders' net income and equity would be decreased by about \$265 (\$250 in 2018) if the termination rate assumption were reduced by 10%. For products where more terminations would be financially adverse to us, shareholders' net income and equity would be decreased by about \$195 (\$195 in 2018) if the termination rate assumption were increased by 10%. These sensitivities reflect the impact of any applicable ceded reinsurance arrangements.

#### **Policyholder Behaviour Risk Management Governance and Control**

Various types of provisions are built into many of our products to reduce the impact of uncertain policyholder behaviour. These provisions include:

- Surrender charges that adjust the payout to the policyholder by taking into account prevailing market conditions.
- Limits on the amount that policyholders can surrender or borrow.
- Restrictions on the timing of policyholders' ability to exercise certain options.
- Restrictions on both the types of funds Clients can select and the frequency with which they can change funds.
- Policyholder behaviour risk is also mitigated through reinsurance on some insurance contracts.

Internal experience studies are used to monitor, review and update policyholder behaviour assumptions as needed, which could result in updates to policy liabilities.

### **7.A.ii Mortality and Morbidity Risk**

#### **Risk Description**

Mortality and morbidity risk is the risk that future experience could be worse than the assumptions used in the pricing and valuation of products. Mortality and morbidity risk can arise in the normal course of business through random fluctuation in realized experience, through catastrophes, or in association with other risk factors such as product development and pricing or model risk. Adverse mortality and morbidity experience could also occur through systemic anti-selection, which could arise due to poor plan design, or underwriting process failure or the development of investor-owned and secondary markets for life insurance policies.

The risk of adverse morbidity experience also increases during economic slowdowns, especially with respect to disability coverage, as well as with increases in high medical treatment costs and growth in utilization of specialty drugs. This introduces the potential for adverse financial volatility in our financial results. External factors could adversely affect our life insurance, health insurance, critical illness, disability, long-term care insurance and annuity businesses. Adverse trends in morbidity experience, such as higher disability incidence, increases in high medical treatment costs and growth in utilization of specialty drugs, introduce the potential for adverse volatility in our financial results.

For life insurance products, a 2% increase in the best estimate assumption would decrease shareholders' net income and equity by about \$35 (\$35 in 2018). This sensitivity reflects the impact of any applicable ceded reinsurance arrangements.

For products where morbidity is a significant assumption, a 5% adverse change in the assumptions would reduce shareholders' net income and equity by about \$205 (\$185 in 2018). This sensitivity reflects the impact of any applicable ceded reinsurance arrangements.

#### **Mortality and Morbidity Risk Management Governance and Control**

Detailed uniform underwriting procedures have been established to determine the insurability of applicants and to manage exposure to large claims. These underwriting requirements are regularly scrutinized against industry guidelines and oversight is provided through a corporate underwriting and claim management function.

We do not have a high degree of concentration risk to single individuals or groups due to our well-diversified geographic and business mix. The largest portion of mortality risk within the Company is in North America. Individual and group insurance policies are underwritten prior to initial issue and renewals, based on risk selection, plan design, and rating techniques.

The Insurance Risk Policy approved by the Risk & Conduct Review Committee includes limits on the maximum amount of insurance that may be issued under one policy and the maximum amount that may be retained. These limits vary by geographic region and amounts in excess of limits are reinsured to ensure there is no exposure to unreasonable concentration of risk.

### **7.A.iii Longevity Risk**

#### **Risk Description**

Longevity risk is the potential for economic loss, accounting loss or volatility in earnings arising from adverse changes in rates of mortality improvement relative to the assumptions used in the pricing and valuation of products. This risk can manifest itself slowly over time as socioeconomic conditions improve and medical advances continue. It could also manifest itself more quickly, for example, due to medical breakthroughs that significantly extend life expectancy. Longevity risk affects contracts where benefits or costs are based upon the likelihood of survival (for example, annuities, pensions, pure endowments, reinsurance, segregated funds, and specific types of health contracts). Additionally, our longevity risk exposure is increased for certain annuity products such as guaranteed annuity options by an increase in equity market levels.

For annuities products for which lower mortality would be financially adverse to us, a 2% decrease in the mortality assumption would decrease shareholders' net income and equity by about \$135 (\$120 in 2018). These sensitivities reflect the impact of any applicable ceded reinsurance arrangements.

#### **Longevity Risk Management Governance and Control**

To improve management of longevity risk, we monitor research in the fields that could result in a change in expected mortality improvement. Stress-testing techniques are used to measure and monitor the impact of extreme mortality improvement on the aggregate portfolio of insurance and annuity products as well as our own pension plans.

### **7.A.iv Product Design and Pricing Risk**

#### **Risk Description**

Product design and pricing risk is the risk a product does not perform as expected, causing adverse financial consequences. This risk may arise from deviations in realized experience versus assumptions used in the pricing of products. Risk factors include uncertainty concerning future investment yields, policyholder behaviour, mortality and morbidity experience, sales levels, mix of business, expenses and taxes. Although

some of our products permit us to increase premiums or adjust other charges and credits during the life of the policy or contract, the terms of these policies or contracts may not allow for sufficient adjustments to maintain expected profitability. This could have an adverse effect on our profitability and capital position.

#### **Product Design and Pricing Governance and Control**

Our Product Design and Pricing Policy, approved by the Risk & Conduct Review Committee, establishes the framework governing our product design and pricing practices and is designed to align our product offerings with our strategic objectives and risk-taking philosophy. Consistent with this policy, product development, design and pricing processes have been implemented throughout the Company. New products follow a stage-gate process with defined management approvals based on the significance of the initiative, and each initiative is subject to a risk assessment process to identify key risks and risk mitigation requirements, and is reviewed by multiple stakeholders. Additional governance and control procedures are listed below:

- Pricing models, methods, and assumptions are subject to periodic internal peer reviews.
- Experience studies, sources of earnings analysis, and product dashboards are used to monitor actual experience against those assumed in pricing and valuation.
- On experience rated, participating, and adjustable products, emerging experience is reflected through changes in policyholder dividend scales as well as other policy adjustment mechanisms such as premium and benefit levels.
- Limits and restrictions may be introduced into the design of products to mitigate adverse policyholder behaviour or apply upper thresholds on certain benefits.

### **7.A.v Expense Risk**

#### **Risk Description**

Expense risk is the risk that future expenses are higher than the assumptions used in the pricing and valuation of products. This risk can arise from general economic conditions, unexpected increases in inflation, slower than anticipated growth, or reduction in productivity leading to increases in unit expenses. Expense risk occurs in products where we cannot or will not pass increased costs onto the Client and will manifest itself in the form of a liability increase or a reduction in expected future profits.

The sensitivity of liabilities for insurance contracts to a 5% increase in unit expenses would result in a decrease in shareholders' net income and equity of about \$170 (\$175 in 2018). These sensitivities reflect the impact of any applicable ceded reinsurance arrangements.

#### **Expenses Risk Management Governance and Control**

We closely monitor expenses through an annual budgeting process and ongoing monitoring of any expense gaps between unit expenses assumed in pricing and actual expenses.

### **7.A.vi Reinsurance Risk**

#### **Risk Description**

We purchase reinsurance for certain risks underwritten by our various insurance businesses. Reinsurance risk is the risk of financial loss due to adverse developments in reinsurance markets (for example, discontinuance or diminution of reinsurance capacity, or an increase in the cost of reinsurance), insolvency of a reinsurer or inadequate reinsurance coverage.

Changes in reinsurance market conditions, including actions taken by reinsurers to increase rates on existing and new coverage and our ability to obtain appropriate reinsurance, may adversely impact the availability or cost of maintaining existing or securing new reinsurance capacity, with adverse impacts on our business strategies, profitability and financial position. There is an increased possibility of rate increases or renegotiation of legacy reinsurance contracts by our reinsurers, as the global reinsurance industry continues to review and optimize their business models. In addition, changes to the regulatory treatment of reinsurance arrangements could have an adverse impact on our capital position.

#### **Reinsurance Risk Management Governance and Control**

We have an Insurance Risk Policy and an Investment & Credit Risk Policy approved by the Risk & Conduct Review Committee, which set acceptance criteria and processes to monitor the level of reinsurance ceded to any single reinsurer. These policies also set minimum criteria for determining which reinsurance companies qualify as suitable reinsurance counterparties having the capability, expertise, governance practices and financial capacity to assume the risks being considered. Additionally, these policies require that all agreements include provisions to allow action to be taken, such as recapture of ceded risk (at a potential cost to the Company), in the event that the reinsurer loses its legal ability to carry on business through insolvency or regulatory action. Periodic due diligence is performed on the reinsurance counterparties with which we do business and internal credit assessments are performed on reinsurance counterparties with which we have material exposure. Reinsurance counterparty credit exposures are monitored closely and reported annually to the Risk & Conduct Review Committee.

New sales of our products can be discontinued or changed to reflect developments in the reinsurance markets. Rates for our in-force reinsurance treaties can be either guaranteed or adjustable for the life of the ceded policy. In order to diversify reinsurance risk, there is generally more than one reinsurer supporting a reinsurance pool.

## 8. Other Assets

Other assets consist of the following:

As at December 31,	2019	2018
Accounts receivable	\$ 1,294	\$ 1,451
Investment income due and accrued	1,122	1,131
Property and equipment	630	621
Right-of-use assets	770	–
Deferred acquisition costs <sup>(1)</sup>	139	130
Prepaid expenses	319	309
Premium receivable	662	567
Accrued post-retirement benefit assets (Note 25)	187	184
Other	93	105
<b>Total other assets</b>	<b>\$ 5,216</b>	<b>\$ 4,498</b>

(1) Amortization of deferred acquisition cost charged to income during the year amounted to \$18 in 2019 (\$33 in 2018).

## 9. Goodwill and Intangible Assets

### 9.A Goodwill

Changes in the carrying amount of goodwill acquired through business combinations by reportable business segment are as follows:

	Canada	U.S.	Asia	Asset Management	Corporate	Total
Balance, January 1, 2018	\$ 2,573	\$ 1,043	\$ 655	\$ 729	\$ 183	\$ 5,183
Acquisitions	34	7	–	–	–	41
Foreign exchange rate movements	–	88	50	46	4	188
Balance, December 31, 2018	\$ 2,607	\$ 1,138	\$ 705	\$ 775	\$ 187	\$ 5,412
Acquisitions (Note 3)	–	–	–	537	–	537
Foreign exchange rate movements	–	(55)	(29)	(31)	(2)	(117)
<b>Balance, December 31, 2019</b>	<b>\$ 2,607</b>	<b>\$ 1,083</b>	<b>\$ 676</b>	<b>\$ 1,281</b>	<b>\$ 185</b>	<b>\$ 5,832</b>

Goodwill was not impaired in 2019 or 2018. The carrying amounts of goodwill allocated to our CGUs or groups of CGUs are as follows:

As at December 31,	2019	2018
Canada		
Individual	\$ 1,100	\$ 1,100
Group retirement services	453	453
Group benefits	1,054	1,054
U.S. Employee benefits group	1,083	1,138
Asia	676	705
Asset Management		
MFS	494	515
SLC Management <sup>(1)</sup>	787	260
Corporate		
UK	185	187
<b>Total</b>	<b>\$ 5,832</b>	<b>\$ 5,412</b>

(1) Prior to 2019, SLC Management was referred to as Sun Life Investment Management.

Goodwill acquired in business combinations is allocated to the CGUs or groups of CGUs that are expected to benefit from the synergies of the particular acquisition.

Goodwill is assessed for impairment annually or more frequently if events or circumstances occur that may result in the recoverable amount of a CGU falling below its carrying value. The recoverable amount is the higher of fair value less costs of disposal and value in use. We use fair value less costs of disposal as the recoverable amount.

We use the best evidence of fair value less costs of disposal as the price obtainable for the sale of a CGU, or group of CGUs. Fair value less costs of disposal is initially assessed by looking at recently completed market comparable transactions. In the absence of such comparables, we use either an appraisal methodology (with market assumptions commonly used in the valuation of insurance companies or asset management companies) or a valuation multiples methodology. The fair value measurements are categorized in Level 3 of the fair value hierarchy.

The most recent calculations from 2018 for certain CGUs and groups of CGUs were carried forward and used in the impairment test in the current period as: (i) the recoverable amount for these CGUs and groups of CGUs exceeded the carrying amount by a substantial margin, (ii) the assets and liabilities making up the CGUs and groups of CGUs had not changed significantly, and (iii) the likelihood that the carrying value would exceed the recoverable amount was remote, based on an analysis of events that have occurred and circumstances that have changed. The key drivers impacting the recoverable amount from 2018 are consistent with the key assumptions below.

Under the appraisal methodology, fair value is assessed based on best estimates of future income, expenses, level and cost of capital over the lifetime of the policies and, where appropriate, adjusted for items such as transaction costs. The value ascribed to new business is based on sales anticipated in our business plans, sales projections for the valuation period based on reasonable growth assumptions, and anticipated levels of profitability of that new business. In calculating the value of new business, future sales are projected for 10 to 15 years. In some instances, market multiples are used to approximate the explicit projection of new business.

The discount rates applied reflect the nature of the environment for that CGU. The discount rates used range from 9.0% to 12.5% (after tax). More established CGUs with a stronger brand and competitive market position use discount rates at the low end of the range and CGUs with a weaker competitive position use discount rates at the high end of the range. The capital levels used are aligned with our business objectives.

Under the valuation multiples methodology, fair value is assessed with reference to multiples or ratios of comparable businesses. For life insurers and asset managers, these valuation multiples and ratios may include price-to-earnings or price-to-assets-under-management measures. This assessment takes into consideration a variety of relevant factors and assumptions, including expected growth, risk, and market conditions among others. The price-to-earnings multiples used range from 10.5 to 11.5. The price-to-assets-under-management ratios used range from 0.7% to 2.0%.

Judgment is used in estimating the recoverable amounts of CGUs and the use of different assumptions and estimates could result in material adjustments to the valuation of CGUs and the size of any impairment. Any material change in the key assumptions including those for capital, discount rates, the value of new business, and expenses, as well as cash flow projections used in the determination of recoverable amounts, may result in impairment charges, which could be material.

In considering the sensitivity of the key assumptions above, management determined that there is no reasonably possible change in any of the above that would result in the recoverable amount of any of the CGUs to be less than its carrying amount.

## 9.B Intangible Assets

Changes in intangible assets are as follows:

	Finite life			Total
	Internally generated software	Other	Indefinite life	
<b>Gross carrying amount</b>				
Balance, January 1, 2018	\$ 579	\$ 1,202	\$ 625	\$ 2,406
Additions	118	(1)	–	117
Acquisitions	–	19	3	22
Foreign exchange rate movements	25	46	45	116
Balance, December 31, 2018	\$ 722	\$ 1,266	\$ 673	\$ 2,661
Additions	151	115	–	266
Acquisitions	–	238	–	238
Foreign exchange rate movements	(16)	(28)	(27)	(71)
<b>Balance, December 31, 2019</b>	<b>\$ 857</b>	<b>\$ 1,591</b>	<b>\$ 646</b>	<b>\$ 3,094</b>
<b>Accumulated amortization and impairment losses</b>				
Balance, January 1, 2018	\$ (338)	\$ (397)	\$ (4)	\$ (739)
Amortization charge for the year	(66)	(53)	–	(119)
Foreign exchange rate movements	(13)	(11)	–	(24)
Balance, December 31, 2018	\$ (417)	\$ (461)	\$ (4)	\$ (882)
Amortization charge for the year	(73)	(64)	–	(137)
Impairment of intangible assets	(13)	–	(2)	(15)
Foreign exchange rate movements	15	8	–	23
<b>Balance, December 31, 2019</b>	<b>\$ (488)</b>	<b>\$ (517)</b>	<b>\$ (6)</b>	<b>\$ (1,011)</b>
<b>Net carrying amount, end of period:</b>				
As at December 31, 2018	\$ 305	\$ 805	\$ 669	\$ 1,779
<b>As at December 31, 2019</b>	<b>\$ 369</b>	<b>\$ 1,074</b>	<b>\$ 640</b>	<b>\$ 2,083</b>

The components of the intangible assets are as follows:

As at December 31,	2019	2018
Finite life intangible assets:		
Distribution, sales potential of field force	\$ 339	\$ 366
Client relationships and asset administration contracts	735	439
Internally generated software	369	305
Total finite life intangible assets	1,443	1,110
Indefinite life intangible assets:		
Fund management contracts <sup>(1)</sup>	640	669
Total indefinite life intangible assets	640	669
Total intangible assets	\$ 2,083	\$ 1,779

(1) Fund management contracts are attributable to Asset Management, where its competitive position in, and the stability of, its markets support their classification as indefinite life intangible assets.

## 10. Insurance Contract Liabilities and Investment Contract Liabilities

### 10.A Insurance Contract Liabilities

#### 10.A.i Description of Business

The majority of the products sold by the Company are insurance contracts. These contracts include all forms of life, health and critical illness insurance sold to individuals and groups, life contingent annuities, accumulation annuities, and segregated fund products with guarantees.

#### 10.A.ii Methods and Assumptions

##### General

The liabilities for insurance contracts represent the estimated amounts which, together with estimated future premiums and net investment income, will provide for outstanding claims, estimated future benefits, policyholders' dividends, taxes (other than income taxes), and expenses on in-force insurance contracts.

In determining our liabilities for insurance contracts, assumptions must be made about mortality and morbidity rates, lapse and other policyholder behaviour, interest rates, equity market performance, asset default, inflation, expenses, and other factors over the life of our products. Most of these assumptions relate to events that are anticipated to occur many years in the future. Assumptions require significant judgment and regular review and, where appropriate, revision.

We use best estimate assumptions for expected future experience and apply margins for adverse deviations to provide for uncertainty in the choice of the best estimate assumptions. The amount of insurance contract liabilities related to the application of margins for adverse deviations to best estimate assumptions is called a provision for adverse deviations.

##### Best Estimate Assumptions

Best estimate assumptions are intended to be current, neutral estimates of the expected outcome as guided by Canadian actuarial standards of practice. The choice of best estimate assumptions takes into account current circumstances, past experience data (Company and/or industry), the relationship of past to expected future experience, anti-selection, the relationship among assumptions, and other relevant factors. For assumptions on economic matters, the assets supporting the liabilities and the expected policy for asset-liability management are relevant factors.

##### Margins for Adverse Deviations

The appropriate level of margin for adverse deviations on an assumption is guided by Canadian actuarial standards of practice. For most assumptions, the standard range of margins for adverse deviations is 5% to 20% of the best estimate assumption, and the actuary chooses from within that range based on a number of considerations related to the uncertainty in the determination of the best estimate assumption. The level of uncertainty, and hence the margin chosen, will vary by assumption and by line of business and other factors. Considerations that would tend to indicate a choice of margin at the high end of the range include:

- The statistical credibility of the Company's experience is too low to be the primary source of data for choosing the best estimate assumption
- Future experience is difficult to estimate
- The cohort of risks lacks homogeneity
- Operational risks adversely impact the ability to estimate the best estimate assumption
- Past experience may not be representative of future experience and the experience may deteriorate

Provisions for adverse deviations in future interest rates are included by testing a number of scenarios of future interest rates, some of which are prescribed by Canadian actuarial standards of practice, and determining the liability based on the range of possible outcomes. A scenario of future interest rates includes, for each forecast period between the statement of financial position date and the last liability cash flow, interest rates for risk-free assets, premiums for asset default, rates of inflation, and an investment strategy consistent with the Company's investment policy. The starting point for all future interest rate scenarios is consistent with the current market environment. If few scenarios are tested, the liability would be at least as great as the largest of the outcomes. If many scenarios are tested, the liability would be within a range defined by the average of the outcomes that are above the 60th percentile of the range of outcomes and the corresponding average for the 80th percentile.

Provisions for adverse deviations in future equity returns are included by scenario testing or by applying margins for adverse deviations. In blocks of business where the valuation of liabilities uses scenario testing of future equity returns, the liability would be within a range defined by the average of the outcomes that are above the 60th percentile of the range of outcomes and the corresponding average for the 80th percentile. In blocks of business where the valuation of liabilities does not use scenario testing of future equity returns, the margin for adverse deviations on common share dividends is between 5% and 20%, and the margin for adverse deviations on capital gains would be 20% plus an assumption that those assets reduce in value by 20% to 50% at the time when the reduction is most adverse. A 30% reduction is appropriate for a diversified portfolio of North American common shares and, for other portfolios, the appropriate reduction depends on the volatility of the portfolio relative to a diversified portfolio of North American common shares.

In choosing margins, we ensure that, when taken one at a time, each margin is reasonable with respect to the underlying best estimate assumption and the extent of uncertainty present in making that assumption, and also that, in aggregate, the cumulative impact of the margins for adverse deviations is reasonable with respect to the total amount of our insurance contract liabilities. Our margins are generally stable over time and are generally only revised to reflect changes in the level of uncertainty in the best estimate assumptions. Our margins tend to be at the high end of the range for expenses and in the mid-range or higher for other assumptions. When considering the aggregate impact of margins, the actuary assesses the consistency of margins for each assumption across each block of business to ensure there is no double counting or omission and to avoid choosing margins that might be mutually exclusive. In particular, the actuary chooses similar margins for blocks of business with similar characteristics, and also chooses margins that are consistent with other assumptions, including assumptions about economic factors. The actuary is guided by Canadian actuarial standards of practice in making these professional judgments about the reasonableness of margins for adverse deviations.

The best estimate assumptions and margins for adverse deviations are reviewed at least annually and revisions are made when appropriate. The choice of assumptions underlying the valuation of insurance contract liabilities is subject to external actuarial peer review.

### **Mortality**

Mortality refers to the rates at which death occurs for defined groups of people. Life insurance mortality assumptions are generally based on the past five to ten years of experience. Our experience is combined with industry experience where our own experience is insufficient to be statistically valid. Assumed mortality rates for life insurance and annuity contracts include assumptions about future mortality improvement based on recent trends in population mortality and our outlook for future trends.

### **Morbidity**

Morbidity refers to both the rates of accident or sickness and the rates of recovery therefrom. Most of our disability insurance is marketed on a group basis. We offer critical illness policies on an individual basis in Canada and Asia, long-term care on an individual basis in Canada, and medical stop-loss insurance is offered on a group basis in the U.S. In Canada, group morbidity assumptions are based on our five-year average experience, modified to reflect any emerging trend in recovery rates. For long-term care and critical illness insurance, assumptions are developed in collaboration with our reinsurers and are largely based on their experience. In the U.S., our experience is used for both medical stop-loss and disability assumptions, with some consideration of industry experience.

### **Lapse and Other Policyholder Behaviour**

#### *Lapse*

Policyholders may allow their policies to lapse prior to the end of the contractual coverage period by choosing not to continue to pay premiums or by surrendering their policy for the cash surrender value. Assumptions for lapse experience on life insurance are generally based on our five-year average experience. Lapse rates vary by plan, age at issue, method of premium payment, and policy duration.

#### *Premium Payment Patterns*

For universal life contracts, it is necessary to set assumptions about premium payment patterns. Studies prepared by industry or the actuarial profession are used for products where our experience is insufficient to be statistically valid. Premium payment patterns usually vary by plan, age at issue, method of premium payment, and policy duration.

### **Expense**

Future policy-related expenses include the costs of premium collection, claims adjudication and processing, actuarial calculations, preparation and mailing of policy statements, and related indirect expenses and overhead. Expense assumptions are mainly based on our recent experience using an internal expense allocation methodology. Inflationary increases assumed in future expenses are consistent with the future interest rates used in scenario testing.

### **Investment Returns**

#### *Interest Rates*

We generally maintain distinct asset portfolios for each major line of business. In the valuation of insurance contract liabilities, the future cash flows from insurance contracts and the assets that support them are projected under a number of interest rate scenarios, some of which are prescribed by Canadian actuarial standards of practice. Reinvestments and disinvestments take place according to the specifications of each scenario, and the liability is set based on the range of possible outcomes.

#### *Non-Fixed Income Rates of Return*

We are exposed to equity markets through our segregated fund products (including variable annuities) that provide guarantees linked to underlying fund performance and through insurance products where the insurance contract liabilities are supported by non-fixed income assets.

For segregated fund products (including variable annuities), we have implemented hedging programs involving the use of derivative instruments to mitigate a large portion of the equity market risk associated with the guarantees. The cost of these hedging programs is reflected in the liabilities. The equity market risk associated with anticipated future fee income is not hedged.

The majority of non-fixed income assets that are designated as FVTPL support our participating and universal life products where investment returns are passed through to policyholders through routine changes in the amount of dividends declared or in the rate of interest credited. In these cases, changes in non-fixed income asset values are largely offset by changes in insurance contract liabilities.

### Asset Default

As required by Canadian actuarial standards of practice, insurance contract liabilities include a provision for possible future default of the assets supporting those liabilities. The amount of the provision for asset default included in the insurance contract liabilities is based on possible reductions in future investment yield that vary by factors such as type of asset, asset credit quality (rating), duration, and country of origin. The asset default assumptions are comprised of a best estimate plus a margin for adverse deviations, and are intended to provide for loss of both principal and income. Best estimate asset default assumptions by asset category and geography are derived from long-term studies of industry experience and the Company's experience. Margins for adverse deviation are chosen from the standard range (of 25% to 100%) as recommended by Canadian actuarial standards of practice based on the amount of uncertainty in the choice of best estimate assumption. The credit quality of an asset is based on external ratings if available (public bonds) and internal ratings if not (mortgages and loans). Any assets without ratings are treated as if they are rated below investment grade.

In contrast to asset impairment provisions and changes in FVTPL assets arising from impairments, both of which arise from known credit events, the asset default provision in the insurance contract liabilities covers losses related to possible future (unknown) credit events. Canadian actuarial standards of practice require the asset default provision to be determined taking into account known impairments that are recognized elsewhere on the statement of financial position. The asset default provision included in the insurance contract liabilities is reassessed each reporting period in light of impairments, changes in asset quality ratings, and other events that occurred during the period.

### 10.A.iii Insurance Contract Liabilities

Insurance contract liabilities consist of the following:

As at December 31, 2019	Canada	U.S.	Asia	Corporate <sup>(1)</sup>	Total
Individual participating life	\$ 23,526	\$ 5,611	\$ 8,497	\$ 987	\$ 38,621
Individual non-participating life and health	13,527	13,832	12,188	386	39,933
Group life and health	10,493	5,541	39	14	16,087
Individual annuities	9,529	24	(17)	5,335	14,871
Group annuities	14,276	7	99	–	14,382
Insurance contract liabilities before other policy liabilities	71,351	25,015	20,806	6,722	123,894
Add: Other policy liabilities <sup>(2)</sup>	2,959	1,724	2,401	206	7,290
Total insurance contract liabilities	\$ 74,310	\$ 26,739	\$ 23,207	\$ 6,928	\$ 131,184

(1) Primarily business from the UK and run-off reinsurance operations. Includes UK business of \$893 for Individual participating life, \$238 for Individual non-participating life and health, \$5,107 for Individual annuities, and \$156 for Other policy liabilities.

(2) Consists of amounts on deposit, policy benefits payable, provisions for unreported claims, provisions for policyholder dividends, and provisions for experience rating refunds.

As at December 31, 2018	Canada	U.S.	Asia	Corporate <sup>(1)</sup>	Total
Individual participating life	\$ 21,095	\$ 5,785	\$ 6,651	\$ 1,076	\$ 34,607
Individual non-participating life and health	11,435	13,239	12,463	391	37,528
Group life and health	9,591	5,674	32	–	15,297
Individual annuities	9,267	25	(44)	5,608	14,856
Group annuities	12,461	6	147	–	12,614
Insurance contract liabilities before other policy liabilities	63,849	24,729	19,249	7,075	114,902
Add: Other policy liabilities <sup>(2)</sup>	3,049	1,457	2,276	239	7,021
Total insurance contract liabilities	\$ 66,898	\$ 26,186	\$ 21,525	\$ 7,314	\$ 121,923

(1) Primarily business from the UK and run-off reinsurance operations. Includes UK business of \$980 for Individual participating life, \$240 for Individual non-participating life and health, \$5,214 for Individual annuities, and \$170 for Other policy liabilities.

(2) Consists of amounts on deposit, policy benefits payable, provisions for unreported claims, provisions for policyholder dividends, and provisions for experience rating refunds.

### 10.A.iv Changes in Insurance Contract Liabilities and Reinsurance Assets

Changes in Insurance contract liabilities and Reinsurance assets are as follows:

For the years ended December 31,	2019			2018		
	Insurance contract liabilities	Reinsurance assets	Net	Insurance contract liabilities	Reinsurance assets	Net
Balances, before Other policy liabilities and assets as at January 1,	\$ 114,902	\$ 3,653	\$ 111,249	\$ 111,091	\$ 3,503	\$ 107,588
Change in balances on in-force policies	7,632	268	7,364	(3,094)	(129)	(2,965)
Balances arising from new policies	4,098	136	3,962	3,780	128	3,652
Method and assumption changes	(363)	(376)	13	(374)	(96)	(278)
Increase (decrease) in Insurance contract liabilities and Reinsurance assets	11,367	28	11,339	312	(97)	409
Other <sup>(1)</sup>	(123)	(123)	–	–	–	–
Foreign exchange rate movements	(2,252)	(163)	(2,089)	3,499	247	3,252
Balances before Other policy liabilities and assets	123,894	3,395	120,499	114,902	3,653	111,249
Other policy liabilities and assets	7,290	629	6,661	7,021	488	6,533
Total Insurance contract liabilities and Reinsurance assets, December 31	\$ 131,184	\$ 4,024	\$ 127,160	\$ 121,923	\$ 4,141	\$ 117,782

(1) Termination of reinsurance contracts.

### 10.A.v Impact of Method and Assumption Changes

Impacts of method and assumption changes on Insurance contract liabilities, net of Reinsurance assets, are as follows:

For the year ended December 31, 2019	Net increase (decrease) before income taxes	Description
Mortality / Morbidity	\$ (347)	Updates to reflect mortality/morbidity experience in all jurisdictions. The largest items were favourable mortality impacts in the UK in Corporate and in Group Retirement Services in Canada.
Lapse and other policyholder behaviour	102	Updates to lapse and policyholder behaviour in all jurisdictions. The largest item was an unfavourable lapse update in International in Asia.
Expenses	6	Updates to reflect expense experience in all jurisdictions.
Investment returns	6	Updates to various investment-related assumptions across the Company, partially offset by updates to promulgated ultimate reinvestment rates.
Model enhancements and other	246	Various enhancements and methodology changes across all jurisdictions. The largest item was an unfavourable strengthening of reinsurance provisions in In-force Management in the U.S., partially offset by a favourable change to participating accounts in the UK in Corporate and the Philippines in Asia.
Total impact of method and assumption changes	\$ 13	

For the year ended December 31, 2018	Net increase (decrease) before income taxes	Description
Mortality / Morbidity	\$ (337)	Updates to reflect mortality/morbidity experience in all jurisdictions. The largest items were favourable mortality in International in Asia, Group Retirement Services in Canada and the UK in Corporate.
Lapse and other policyholder behaviour	563	Updates to lapse and other policyholder behaviour in all jurisdictions. The largest items, which all had unfavourable impacts, were updated lapse assumptions in the U.S. and International in Asia.
Expenses	6	Updates to reflect expense experience in all jurisdictions including updates to Canada participating life insurance accounts.
Investment returns	(331)	Updates to various investment-related assumptions across the Company including updates to Canada participating life insurance accounts.
Model enhancements and other	(179)	Various enhancements and methodology changes across all jurisdictions. The largest items were a favourable change to the participating provisions for adverse deviation in Canada and the U.S., partially offset by a change in reinsurance provisions in the U.S.
<b>Total impact of method and assumption changes</b>	<b>\$ (278)</b>	

## 10.B Investment Contract Liabilities

### 10.B.i Description of Business

The following are the types of investment contracts in-force:

- Term certain payout annuities in Canada
- Guaranteed Investment Contracts in Canada
- Unit-linked products issued in the UK and Hong Kong
- Non-unit-linked pensions contracts issued in the UK and Hong Kong

### 10.B.ii Method and Assumption Changes

#### Investment Contracts with Discretionary Participation Features

Investment contracts with DPF are measured using the same approach as insurance contracts.

#### Investment Contracts without Discretionary Participation Features

Investment contracts without DPF are measured at FVTPL if by doing so, a potential accounting mismatch is eliminated or significantly reduced or if the contract is managed on a fair value basis. Other investment contracts without DPF are measured at amortized cost.

The fair value liability is measured through the use of prospective discounted cash-flow techniques. For unit-linked contracts, the fair value liability is equal to the current unit fund value, plus additional non-unit liability amounts on a fair value basis if required. For non-unit-linked contracts, the fair value liability is equal to the present value of cash flows.

Amortized cost is measured at the date of initial recognition as the fair value of consideration received, less the net effect of principal payments such as transaction costs and front-end fees. At each reporting date, the amortized cost liability is measured as the present value of future cash flows discounted at the effective interest rate where the effective interest rate is the rate that equates the discounted cash flows to the liability at the date of initial recognition.

### 10.B.iii Investment Contract Liabilities

Investment contract liabilities consist of the following:

As at December 31, 2019	Canada	Asia	Corporate	Total
Individual participating life	\$ –	\$ –	\$ 5	\$ 5
Individual non-participating life and health	–	258	2	260
Individual annuities	2,612	–	39	2,651
Group annuities	–	200	–	200
<b>Total investment contract liabilities</b>	<b>\$ 2,612</b>	<b>\$ 458</b>	<b>\$ 46</b>	<b>\$ 3,116</b>

For the year ended December 31, 2019, Investment contract liabilities of \$3,116 are comprised of investment contracts with DPF of \$502, investment contracts without DPF measured at amortized cost of \$2,612, and for investment contracts without DPF measured at fair value of \$2.

As at December 31, 2018	Canada	Asia	Corporate	Total
Individual participating life	\$ –	\$ –	\$ 6	\$ 6
Individual non-participating life and health	–	254	3	257
Individual annuities	2,646	–	43	2,689
Group annuities	–	212	–	212
<b>Total investment contract liabilities</b>	<b>\$ 2,646</b>	<b>\$ 466</b>	<b>\$ 52</b>	<b>\$ 3,164</b>

For the year ended December 31, 2018, Investment contract liabilities of \$3,164 are comprised of investment contracts with DPF of \$515, investment contracts without DPF measured at amortized cost of \$2,646, and investment contracts without DPF measured at fair value of \$3.

#### 10.B.iv Changes in Investment Contract Liabilities

Changes in investment contract liabilities without DPF are as follows:

For the years ended December 31,	2019		2018	
	Measured at fair value	Measured at amortized cost	Measured at fair value	Measured at amortized cost
Balance as at January 1	\$ 3	\$ 2,646	\$ 3	\$ 2,517
Deposits	–	360	–	483
Interest	–	57	–	53
Withdrawals	–	(464)	–	(420)
Fees	–	(6)	–	(8)
Other	–	20	–	21
Foreign exchange rate movements	(1)	(1)	–	–
<b>Balance as at December 31</b>	<b>\$ 2</b>	<b>\$ 2,612</b>	<b>\$ 3</b>	<b>\$ 2,646</b>

Changes in investment contract liabilities with DPF are as follows:

For the years ended December 31,	2019	2018
Balance as at January 1	\$ 515	\$ 562
Change in liabilities on in-force	2	(84)
Changes in assumptions or methodology	6	–
Foreign exchange rate movements	(21)	37
<b>Balance as at December 31</b>	<b>\$ 502</b>	<b>\$ 515</b>

#### 10.C Gross Claims and Benefits Paid

Gross claims and benefits paid consist of the following:

For the years ended December 31,	2019	2018
Maturities and surrenders	\$ 2,956	\$ 2,609
Annuity payments	1,909	1,876
Death and disability benefits	4,246	3,948
Health benefits	7,222	6,421
Policyholder dividends and interest on claims and deposits	1,088	1,132
<b>Total gross claims and benefits paid</b>	<b>\$ 17,421</b>	<b>\$ 15,986</b>

#### 10.D Total Assets Supporting Liabilities and Equity

The following tables show the total assets supporting liabilities for the product lines shown (including insurance contract and investment contract liabilities) and assets supporting equity and other:

As at December 31, 2019	Debt securities	Equity securities	Mortgages and loans	Investment properties	Other	Total
Individual participating life	\$ 22,533	\$ 2,899	\$ 8,372	\$ 4,941	\$ 4,754	\$ 43,499
Individual non-participating life and health	21,301	1,418	14,145	1,790	9,353	48,007
Group life and health	6,858	72	9,301	–	2,897	19,128
Individual annuities	11,711	48	6,065	–	793	18,617
Group annuities	7,323	37	7,261	–	697	15,318
Equity and other	11,880	313	3,078	575	19,814	35,660
<b>Total assets</b>	<b>\$ 81,606</b>	<b>\$ 4,787</b>	<b>\$ 48,222</b>	<b>\$ 7,306</b>	<b>\$ 38,308</b>	<b>\$ 180,229</b>

As at December 31, 2018	Debt securities	Equity securities	Mortgages and loans	Investment properties	Other	Total
Individual participating life	\$ 19,624	\$ 2,557	\$ 7,978	\$ 4,736	\$ 4,397	\$ 39,292
Individual non-participating life and health	18,720	1,303	14,398	1,638	9,058	45,117
Group life and health	6,271	70	9,217	–	2,882	18,440
Individual annuities	11,918	49	5,769	–	959	18,695
Group annuities	6,448	35	6,298	–	822	13,603
Equity and other	11,462	620	3,162	783	17,591	33,618
<b>Total assets</b>	<b>\$ 74,443</b>	<b>\$ 4,634</b>	<b>\$ 46,822</b>	<b>\$ 7,157</b>	<b>\$ 35,709</b>	<b>\$ 168,765</b>

## 10.E Role of the Appointed Actuary

The Appointed Actuary is appointed by the Board and is responsible for ensuring that the assumptions and methods used in the valuation of policy liabilities and reinsurance recoverables are in accordance with accepted actuarial practice in Canada, applicable legislation, and associated regulations or directives.

The Appointed Actuary is required to provide an opinion regarding the appropriateness of the policy liabilities, net of reinsurance recoverables, at the statement dates to meet all policy obligations of the Company. Examination of supporting data for accuracy and completeness and analysis of our assets for their ability to support the amount of policy liabilities, net of reinsurance recoverables, are important elements of the work required to form this opinion.

The Appointed Actuary is required each year to investigate the financial condition of the Company and prepare a report for the Board. The 2019 analysis tested our capital adequacy until December 31, 2023, under various adverse economic and business conditions. The Appointed Actuary reviews the calculation of our Life Insurance Capital Adequacy Test (“LICAT”) Ratios.

## 11. Reinsurance

Reinsurance is used primarily to limit exposure to large losses. We have a retention policy that requires that such arrangements be placed with well-established, highly-rated reinsurers. Coverage is well-diversified and controls are in place to manage exposure to reinsurance counterparties. While reinsurance arrangements provide for the recovery of claims arising from the liabilities ceded, we retain primary responsibility to the policyholders.

### 11.A Reinsurance Assets

Reinsurance assets are measured using the amounts and assumptions associated with the underlying insurance contracts and in accordance with the terms of each reinsurance contract. Reinsurance assets are comprised of the following:

As at December 31, 2019	Canada	U.S.	Asia	Corporate <sup>(1)</sup>	Total
Individual participating life	\$ 35	\$ 10	\$ 322	\$ –	\$ 367
Individual non-participating life and health	(377)	913	48	20	604
Group life and health	384	1,881	2	–	2,267
Individual annuities	–	–	–	26	26
Group annuities	131	–	–	–	131
Reinsurance assets before other policy assets	173	2,804	372	46	3,395
Add: Other policy assets <sup>(2)</sup>	73	456	57	43	629
<b>Total Reinsurance assets</b>	<b>\$ 246</b>	<b>\$ 3,260</b>	<b>\$ 429</b>	<b>\$ 89</b>	<b>\$ 4,024</b>

(1) Primarily business from the UK and run-off reinsurance operations. Includes UK business of \$20 for Individual non-participating life and health, and \$26 for Individual annuities.

(2) Consists of amounts on deposit, policy benefits payable, provisions for unreported claims, provisions for policyholder dividends, and provisions for experience rating refunds.

As at December 31, 2018	Canada	U.S.	Asia	Corporate <sup>(1)</sup>	Total
Individual participating life	\$ 20	\$ 10	\$ 180	\$ –	\$ 210
Individual non-participating life and health	(205)	1,076	36	21	928
Group life and health	358	1,848	2	–	2,208
Individual annuities	–	–	–	186	186
Group annuities	121	–	–	–	121
Reinsurance assets before other policy assets	294	2,934	218	207	3,653
Add: Other policy assets <sup>(2)</sup>	80	307	42	59	488
<b>Total Reinsurance assets</b>	<b>\$ 374</b>	<b>\$ 3,241</b>	<b>\$ 260</b>	<b>\$ 266</b>	<b>\$ 4,141</b>

(1) Primarily business from the UK and run-off reinsurance operations. Includes UK business of \$21 for Individual non-participating life and health, and \$47 for Individual annuities.

(2) Consists of amounts on deposit, policy benefits payable, provisions for unreported claims, provisions for policyholder dividends, and provisions for experience rating refunds.

There was no impairment of Reinsurance assets in 2019 or 2018. Changes in Reinsurance assets are included in Note 10.A.iv.

## 11.B Reinsurance (Expenses) Recoveries

Reinsurance (expenses) recoveries are comprised of the following:

For the years ended December 31,	2019	2018
Recovered claims and benefits	\$ 1,955	\$ 1,839
Commissions	70	74
Reserve adjustments	26	25
Operating expenses and other	80	83
Reinsurance (expenses) recoveries	\$ 2,131	\$ 2,021

## 11.C Reinsurance Gains or Losses

We did not enter into reinsurance arrangements that resulted in profits on inception in 2019 or 2018.

## 12. Other Liabilities

### 12.A Composition of Other Liabilities

Other liabilities consist of the following:

As at December 31,	2019	2018
Accounts payable	\$ 1,903	\$ 2,045
Bank overdrafts and cash pooling	30	104
Repurchase agreements (Note 5)	1,850	1,824
Accrued expenses and taxes	3,251	3,137
Borrowed funds <sup>(1)</sup>	320	188
Senior financing <sup>(2)</sup>	1,967	2,066
Accrued post-retirement benefit liability (Note 25)	675	651
Secured borrowings from mortgage securitization (Note 5)	1,715	1,453
Lease liabilities	902	–
Put option liability (Note 5)	956	–
Deferred payments liability	438	–
Other	930	685
Total other liabilities	\$ 14,937	\$ 12,153

(1) The change in Borrowed funds relates to net cash flow changes of \$132 in 2019 (\$40 in 2018) and foreign exchange rate movements of \$nil in 2019 (\$1 in 2018).

(2) The change in Senior financing relates to foreign exchange rate movements of \$(99) in 2019 (\$161 in 2018).

### 12.B Borrowed Funds

Borrowed funds include the following:

As at December 31,	Currency of borrowing	Maturity	2019	2018
Encumbrances on real estate	Cdn. dollars	Current – 2033	\$ 320	\$ 177
Encumbrances on real estate	U.S. dollars	Current – 2020	–	11
Total borrowed funds			\$ 320	\$ 188

Interest expense for the borrowed funds was \$13 and \$10 for 2019 and 2018, respectively. The aggregate maturities of borrowed funds are included in Note 6.

### 12.C Senior Financing

On November 8, 2007, a structured entity consolidated by us issued a US\$1,000 variable principal floating rate certificate (the “Certificate”) to a financial institution (the “Lender”). At the same time, Sun Life Assurance Company of Canada-U.S. Operations Holdings, Inc. (“U.S. Holdings”), a subsidiary of SLF Inc., entered into an agreement with the Lender, pursuant to which U.S. Holdings will bear the ultimate obligation to repay the outstanding principal amount of the Certificate and be obligated to make quarterly interest payments at three-month LIBOR plus a fixed spread. SLF Inc. has fully guaranteed the obligation of U.S. Holdings. The structured entity issued additional certificates after the initial issuance, totaling to US\$515, none of which were issued during 2019 and 2018. Total collateral posted per the financing agreement was US\$nil as at December 31, 2019 and 2018.

The maximum capacity of this agreement is US\$2,500. The agreement expires on November 8, 2037 and the maturity date may be extended annually for additional one-year periods upon the mutual agreement of the parties, provided such date is not beyond November 8, 2067. The agreement can be cancelled or unwound at the option of U.S. Holdings in whole or in part from time to time, or in whole under certain events.

For the year ended December 31, 2019, we recorded \$64 of interest expense relating to this obligation (\$57 in 2018). The fair value of the obligation is \$1,874 (\$1,879 in 2018). The fair value is determined by discounting the expected future cash flows using a current market interest rate adjusted by SLF Inc.’s credit spread and is categorized in Level 3 of the fair value hierarchy.

## 13. Senior Debentures and Innovative Capital Instruments

### 13.A Senior Debentures<sup>(1)</sup>

The following obligations are included in Senior debentures as at December 31:

	Interest rate	Earliest par call or redemption date	Maturity	2019	2018
SLF Inc. senior debentures:					
Series D issued June 30, 2009 <sup>(2)</sup>	5.70%	n/a	2019	\$ –	\$ 300
Series E issued August 23, 2011 <sup>(2)</sup>	4.57%	n/a	2021	300	299
Sun Life Assurance senior debentures: <sup>(3)</sup>					
Issued to Sun Life Capital Trust ("SLCT I")					
Series B issued June 25, 2002	7.09%	June 30, 2032 <sup>(4)</sup>	2052	200	200
Issued to Sun Life Capital Trust II ("SLCT II")					
Series C issued November 20, 2009 <sup>(5)</sup>	6.06%	December 31, 2019	2108	–	500
Total senior debentures				\$ 500	\$ 1,299
Fair value				\$ 585	\$ 1,390

(1) All senior debentures are unsecured.

(2) Redeemable in whole or in part at any time prior to maturity at a price equal to the greater of par and a price based on the yield of a corresponding Government of Canada bond plus 0.575% for the Series D debentures and 0.53% for the Series E debentures. On July 2, 2019, SLF Inc.'s Series D debentures matured and SLF Inc. repaid all of the outstanding \$300 principal amount of such debentures together with all accrued and unpaid interest.

(3) Redemption is subject to regulatory approval.

(4) Redeemable in whole or in part on any interest payment date or in whole upon the occurrence of a Regulatory Event or Tax Event, as described in the debenture. Prior to June 30, 2032, the redemption price is the greater of par and a price based on the yield of a corresponding Government of Canada bond plus 0.32%; from June 30, 2032, the redemption price is par.

(5) Redeemed on December 31, 2019.

Fair value is determined based on quoted market prices for identical or similar instruments. When quoted market prices are not available, fair value is determined from observable market data by dealers that are typically the market makers. The fair value is categorized in Level 2 of the fair value hierarchy.

Interest expense for senior debentures was \$67 and \$76 for 2019 and 2018, respectively.

The senior debentures issued by SLF Inc. are direct senior unsecured obligations and rank equally with other unsecured and unsubordinated indebtedness of SLF Inc.

### 13.B Innovative Capital Instruments

Innovative capital instruments consist of Sun Life Exchangeable Capital Securities ("SLEECs"), which were issued by SLCT I and SLCT II (together "SL Capital Trusts"), established as trusts under the laws of Ontario. SLCT I issued Sun Life Exchangeable Capital Securities – Series B ("SLEECs B"), which are units representing an undivided beneficial ownership interest in the assets of that trust. SLEECs B are non-voting except in certain limited circumstances. Holders of the SLEECs B are eligible to receive semi-annual non-cumulative fixed cash distributions.

SLCT II issued Sun Life Exchangeable Capital Securities – Series 2009-1 ("SLEECs 2009-1"), which were subordinated unsecured debt obligations. Holders of SLEECs 2009-1 were eligible to receive semi-annual interest payments. The SLEECs 2009-1 were redeemed on December 31, 2019.

The proceeds of the issuances of SLEECs B and SLEECs 2009-1 were used by the SL Capital Trusts to purchase senior debentures of Sun Life Assurance. The SL Capital Trusts are not consolidated by us. As a result, the innovative capital instruments are not reported on our Consolidated Financial Statements. However, the senior debentures issued by Sun Life Assurance to the SL Capital Trusts are reported on our Consolidated Financial Statements.

The SLEECs are structured to achieve Tier 1 regulatory capital treatment for SLF Inc. and Sun Life Assurance and, as such, have features of equity capital. No interest payments or distributions will be paid in cash by the SL Capital Trusts on the SLEECs if Sun Life Assurance fails to declare regular dividends (i) on its Class B Non-Cumulative Preferred Shares Series A, or (ii) on its public preferred shares, if any are outstanding (each, a "Missed Dividend Event"). In the case of the SLEECs B, if a Missed Dividend Event occurs, the net distributable funds of SLCT I will be distributed to Sun Life Assurance as the holder of Special Trust Securities of that trust.

If SLCT I fails to pay in cash the semi-annual interest payments or distributions on the SLEECs B in full for any reason other than a Missed Dividend Event, then, for a specified period of time, Sun Life Assurance will not declare dividends of any kind on any of its public preferred shares, and if no such public preferred shares are outstanding, SLF Inc. will not declare dividends of any kind on any of its preferred shares or common shares.

Each SLEECs B unit will be automatically exchanged for 40 non-cumulative perpetual preferred shares of Sun Life Assurance if any one of the following events occurs: (i) proceedings are commenced or an order is made for the winding-up of Sun Life Assurance; (ii) OSFI takes control of Sun Life Assurance or its assets; (iii) Sun Life Assurance's capital ratios fall below applicable thresholds; or (iv) OSFI directs Sun Life Assurance to increase its capital or provide additional liquidity and Sun Life Assurance either fails to comply with such direction or elects to have the SLEECs B automatically exchanged ("Automatic Exchange Event"). Upon an Automatic Exchange Event, former holders of the SLEECs B will cease to have any claim or entitlement to distributions, interest or principal against the issuing SL Capital Trusts and will rank as preferred shareholders of Sun Life Assurance in a liquidation of Sun Life Assurance.

The table below presents additional significant terms and conditions of the SLEECs:

Issuer	Issuance date	Distribution or interest payment dates	Annual yield	Redemption date at the issuer's option	Conversion date at the holder's option	Principal amount
Sun Life Capital Trust <sup>(1)(2)(3)(4)</sup> SLEECs B	June 25, 2002	June 30, December 31	7.093%	June 30, 2007	Any time	\$ 200
<p>(1) Subject to regulatory approval, the SL Capital Trusts may (i) redeem any outstanding SLEECs, in whole or in part, on the redemption date specified above or on any distribution date thereafter, or in the case of SLCT II, on any date thereafter, and (ii) may redeem all, but not part of any class of SLEECs upon occurrence of a Regulatory Event or a Tax Event, prior to the redemption date specified above.</p> <p>(2) The SLEECs B may be redeemed for cash equivalent to (i) the greater of the Early Redemption Price or the Redemption Price if the redemption occurs prior to June 30, 2032 or (ii) the Redemption Price if the redemption occurs on or after June 30, 2032. Redemption Price is equal to one thousand dollars plus the unpaid distributions, other than unpaid distributions resulting from a Missed Dividend Event, to the redemption date. Early Redemption Price for the SLEECs B is the price calculated to provide an annual yield, equal to the yield of a Government of Canada bond issued on the redemption date that has a maturity date of June 30, 2032, plus 32 basis points, plus the unpaid distributions, other than unpaid distributions resulting from a Missed Dividend Event, to the redemption date.</p> <p>(3) The non-cumulative perpetual preferred shares of Sun Life Assurance issued upon an Automatic Exchange Event in respect of the SLEECs B will become convertible, at the option of the holder, into a variable number of common shares of SLF Inc. on distribution dates on or after December 31, 2032.</p> <p>(4) Holders of SLEECs B may exchange, at any time, all or part of their SLEECs B units for non-cumulative perpetual preferred shares of Sun Life Assurance at an exchange rate for each SLEECs of 40 non-cumulative perpetual preferred shares of Sun Life Assurance. SLCT I will have the right, at any time before the exchange is completed, to arrange for a substituted purchaser to purchase SLEECs tendered for surrender to SLCT I so long as the holder of the SLEECs so tendered has not withheld consent to the purchase of its SLEECs. Any non-cumulative perpetual preferred shares issued in respect of an exchange by the holders of SLEECs B will become convertible, at the option of the holder, into a variable number of common shares of SLF Inc. on distribution dates on or after December 31, 2032.</p>						

## 14. Subordinated Debt

The following obligations are included in Subordinated debt as at December 31, and qualify as capital for Canadian regulatory purposes:

	Interest rate	Earliest par call or redemption date <sup>(1)</sup>	Maturity	2019	2018
Sun Life Assurance:					
Issued May 15, 1998 <sup>(2)</sup>	6.30%	n/a	2028	\$ 150	\$ 150
Sun Life Financial Inc.:					
Issued May 29, 2007 <sup>(3)</sup>	5.40%	May 29, 2037 <sup>(4)</sup>	2042	398	398
Issued May 13, 2014 <sup>(5)</sup>	2.77%	May 13, 2019	2024	–	250
Issued September 25, 2015 <sup>(6)</sup>	2.60%	September 25, 2020	2025	500	499
Issued February 19, 2016 <sup>(7)</sup>	3.10%	February 19, 2021	2026	349	349
Issued September 19, 2016 <sup>(8)</sup>	3.05%	September 19, 2023 <sup>(4)</sup>	2028	996	995
Issued November 23, 2017 <sup>(9)</sup>	2.75%	November 23, 2022	2027	399	398
Issued August 7, 2019 <sup>(10)</sup>	2.38%	August 13, 2024	2029	746	–
<b>Total subordinated debt</b>				<b>\$ 3,538</b>	<b>\$ 3,039</b>
<b>Fair value</b>				<b>\$ 3,727</b>	<b>\$ 3,129</b>

- The debentures issued by SLF Inc. in 2007 are redeemable at any time and the debentures issued by SLF Inc. in 2014, 2015, 2016, and 2017 are redeemable on or after the date specified. From the date noted, the redemption price is par and redemption may only occur on a scheduled interest payment date. Redemption of all subordinated debentures is subject to regulatory approval.
- 6.30% Debentures, Series 2, due 2028, issued by The Mutual Life Assurance Company of Canada, which subsequently changed its name to Clarica Life Insurance Company ("Clarica") and was amalgamated with Sun Life Assurance. These debentures are redeemable at any time. Prior to May 15, 2028, the redemption price is the greater of par and a price based on the yield of a corresponding Government of Canada bond plus 0.16%.
- Series 2007-1 Subordinated Unsecured 5.40% Fixed/Floating Debentures due 2042. From May 29, 2037, interest is payable at 1.00% over Canadian dollar offered rate for three-month bankers' acceptances ("CDOR").
- For redemption of the 2007 debentures prior to the date noted, and for redemptions of the September 19, 2016 debentures between September 19, 2021 and September 19, 2023, the redemption price is the greater of par and a price based on the yield of a corresponding Government of Canada bond plus 0.25% for the 2007 debentures and 0.52% for the September 19, 2016 debentures.
- Series 2014-1 Subordinated Unsecured 2.77% Fixed/Floating Debentures due 2024. On May 13, 2019, SLF Inc. redeemed all of the outstanding \$250 principal amount of these debentures in accordance with the redemption terms attached to such debentures.
- Series 2015-1 Subordinated Unsecured 2.60% Fixed/Floating Debentures due 2025. From September 25, 2020, interest is payable at 1.43% over CDOR.
- Series 2016-1 Subordinated Unsecured 3.10% Fixed/Floating Debentures due 2026. From February 19, 2021, interest is payable at 2.20% over CDOR.
- Series 2016-2 Subordinated Unsecured 3.05% Fixed/Floating Debentures due 2028. From September 19, 2023, interest is payable at 1.85% over CDOR.
- Series 2017-1 Subordinated Unsecured 2.75% Fixed/Floating Debentures due 2027. From November 23, 2022, interest is payable at 0.74% over CDOR.
- Series 2019-1 Subordinated Unsecured 2.38% Fixed/Floating Debentures due 2029. From August 13, 2024, interest is payable at 0.85% over CDOR.

Fair value is determined based on quoted market prices for identical or similar instruments. When quoted market prices are not available, fair value is determined from observable market data by dealers that are typically the market makers. The fair value is categorized in Level 2 of the fair value hierarchy.

Interest expense on subordinated debt was \$105 for 2019 and 2018.

## 15. Share Capital

The authorized share capital of SLF Inc. consists of the following:

- An unlimited number of common shares without nominal or par value. Each common share is entitled to one vote at meetings of the shareholders of SLF Inc. There are no pre-emptive, redemption, purchase, or conversion rights attached to the common shares.
- An unlimited number of Class A and Class B non-voting shares, issuable in series. The Board is authorized before issuing the shares, to fix the number, the consideration per share, the designation of, and the rights and restrictions of the Class A and Class B shares of each series, subject to the special rights and restrictions attached to all the Class A and Class B shares. The Board has authorized 13 series of Class A non-voting preferred shares, 10 of which are outstanding.

The common and preferred shares of SLF Inc. qualify as capital for Canadian regulatory purposes. See Note 21.

### Dividends and Restrictions on the Payment of Dividends

Under the *Insurance Companies Act* (Canada), SLF Inc. and Sun Life Assurance are each prohibited from declaring or paying a dividend on any of its shares if there are reasonable grounds for believing that it is, or by paying the dividend would be, in contravention of: (i) the requirement that it maintains adequate capital and adequate and appropriate forms of liquidity, (ii) any regulations under the *Insurance Companies Act* (Canada) in relation to capital and liquidity, and (iii) any order by which OSFI directs it to increase its capital or provide additional liquidity.

SLF Inc. and Sun Life Assurance have each covenanted that, if a distribution is not paid when due on any outstanding SLEECs issued by the SL Capital Trusts, then (i) Sun Life Assurance will not pay dividends on its public preferred shares, if any are outstanding, and (ii) if Sun Life Assurance does not have any public preferred shares outstanding, then SLF Inc. will not pay dividends on its preferred shares or common shares, in each case, until the 12th month (in the case of the SLEECs issued by SLCT I) or 6th month (in the case of SLEECs issued by SLCT II) following the failure to pay the required distribution in full, unless the required distribution is paid to the holders of SLEECs. Public preferred shares means preferred shares issued by Sun Life Assurance which: (a) have been issued to the public (excluding any preferred shares held beneficially by affiliates of Sun Life Assurance); (b) are listed on a recognized stock exchange; and (c) have an aggregate liquidation entitlement of at least \$200. As at December 31, 2019, Sun Life Assurance did not have outstanding any shares that qualify as public preferred shares.

The terms of SLF Inc.'s outstanding preferred shares provide that for so long as Sun Life Assurance is a subsidiary of SLF Inc., no dividends on such preferred shares are to be declared or paid if Sun Life Assurance's minimum regulatory capital ratio falls below the applicable threshold.

In addition, under the terms of SLF Inc.'s outstanding preferred shares, SLF Inc. cannot pay dividends on its common shares without the approval of the holders of those preferred shares unless all dividends on the preferred shares for the last completed period for which dividends are payable have been declared and paid or set apart for payment.

Currently, the above limitations do not restrict the payment of dividends on SLF Inc.'s preferred or common shares.

The declaration and payment of dividends on SLF Inc.'s shares are at the sole discretion of the Board of Directors and will be dependent upon our earnings, financial condition and capital requirements. Dividends may be adjusted or eliminated at the discretion of the Board on the basis of these or other considerations.

### 15.A Common Shares

The changes in common shares issued and outstanding for the years ended December 31 were as follows:

	2019		2018	
	Number of shares	Amount	Number of shares	Amount
Common shares (in millions of shares)				
Balance, January 1	598.5	\$ 8,419	610.5	\$ 8,582
Stock options exercised (Note 19)	0.8	28	0.4	16
Common shares purchased for cancellation	(11.5)	(158)	(12.5) <sup>(1)</sup>	(183)
Common shares issued as consideration for business acquisition	–	–	0.1	4
Balance, December 31	587.8	\$ 8,289	598.5	\$ 8,419

(1) 1.1 million shares were purchased pursuant to a third-party share repurchase program under an issuer bid exemption order at a discount to the prevailing market price of the common shares on the Toronto Stock Exchange.

On August 14, 2019, SLF Inc. launched a normal course issuer bid to purchase and cancel up to 15 million common shares of SLF Inc. ("common shares") between August 14, 2019 and August 13, 2020 (the "2019 NCIB") and implemented an automatic repurchase plan with its designated broker in order to facilitate purchases of common shares under such bid. Under such automatic repurchase plan, SLF Inc.'s designated broker may purchase common shares pursuant to the 2019 NCIB at times when SLF Inc. ordinarily would not be active in the market due to regulatory restrictions or self-imposed blackout periods. SLF Inc. launched a normal course issuer bid on August 14, 2018 and amended it effective May 14, 2019 (the "2018 NCIB"). Under the 2018 NCIB, SLF Inc. was authorized to purchase and cancel up to 18 million common shares between August 14, 2018 and August 13, 2019. On August 14, 2017, SLF Inc. launched a normal course issuer bid to purchase and cancel up to 11.5 million common shares between August 14, 2017 and August 13, 2018 (the "2017 NCIB" and, together with the 2018 NCIB and the 2019 NCIB, the "NCIBs").

Pursuant to each of the NCIBs, common shares purchased for cancellation were (or, in the case of the 2019 NCIB, are) able to be purchased through the facilities of the Toronto Stock Exchange, other Canadian stock exchanges, and/or alternative Canadian trading platforms, at prevailing market rates, or by way of private agreements or share repurchase programs under issuer bid exemption orders issued by securities regulatory authorities at a discount to the prevailing market price.

In 2019, SLF Inc. purchased and cancelled approximately 11.4 million common shares at an average price per share of \$52.01 for a total amount of \$592 under the 2018 NCIB and 2019 NCIB. An additional 0.1 million common shares purchased in 2018, at an average price per share of \$44.91 for a total amount of \$6, were subsequently cancelled in 2019. The total amount paid to purchase the shares is allocated to Common shares and Retained earnings in our Consolidated Statements of Changes in Equity. The amount allocated to Common shares is based on the average cost per common share and amounts paid above the average cost are allocated to Retained earnings.



## 15.B Preferred Shares

The were no changes in preferred shares issued and outstanding for the years ended December 31, 2019 and December 31, 2018.

Further information on the preferred shares outstanding as at December 31, 2019, is as follows:

Class A Preferred shares (in millions of shares)	Issue date	Annual dividend rate	Annual dividend per share	Earliest par call or redemption date <sup>(1)</sup>	Number of shares	Face amount	Net amount <sup>(2)</sup>
Series 1	February 25, 2005	4.75%	\$ 1.19	Any time	16.0	\$ 400	\$ 394
Series 2	July 15, 2005	4.80%	\$ 1.20	Any time	13.0	325	318
Series 3	January 13, 2006	4.45%	\$ 1.11	Any time	10.0	250	245
Series 4	October 10, 2006	4.45%	\$ 1.11	Any time	12.0	300	293
Series 5	February 2, 2007	4.50%	\$ 1.13	Any time	10.0	250	245
Series 8R <sup>(3)</sup>	May 25, 2010	2.275% <sup>(3)</sup>	\$ 0.57	June 30, 2020 <sup>(4)</sup>	5.2	130	127
Series 9QR <sup>(5)</sup>	June 30, 2015	Floating <sup>(6)</sup>	Floating	June 30, 2020 <sup>(7)</sup>	6.0	150	147
Series 10R <sup>(3)</sup>	August 12, 2011	2.842% <sup>(3)</sup>	\$ 0.71 <sup>(8)</sup>	September 30, 2021 <sup>(4)</sup>	6.9	173	169
Series 11QR <sup>(5)</sup>	September 30, 2016	Floating <sup>(6)</sup>	Floating	September 30, 2021 <sup>(7)</sup>	1.1	27	26
Series 12R <sup>(3)</sup>	November 10, 2011	3.806% <sup>(3)</sup>	\$ 0.95 <sup>(8)</sup>	December 31, 2021 <sup>(4)</sup>	12.0	300	293
<b>Total preferred shares</b>					<b>92.2</b>	<b>\$ 2,305</b>	<b>\$ 2,257</b>

(1) Redemption of all preferred shares is subject to regulatory approval.

(2) Net of after-tax issuance costs.

(3) On the earliest redemption date and every five years thereafter, the dividend rate will reset to an annual rate equal to the 5-year Government of Canada bond yield plus a spread specified for each series. The specified spread for Class A shares is: Series 8R – 1.41%, Series 10R – 2.17%, and Class A Non-Cumulative 5-Year Rate Reset Preferred Shares Series 12R (“Series 12R Shares”) – 2.73%. On the earliest redemption date and every five years thereafter, holders will have the right, at their option, to convert their shares into the series that is one number higher than their existing series.

(4) Redeemable on the redemption date and every five years thereafter, in whole or in part, at \$25.00 per share.

(5) On the earliest redemption date and every five years thereafter, holders will have the right, at their option, to convert those shares into the series that is one number lower than their existing series.

(6) Holders are entitled to receive quarterly floating rate non-cumulative dividends at an annual rate equal to the then 3-month Government of Canada treasury bill yield plus a spread specified for each series. The specified spread for Class A shares is: Series 9QR – 1.41% and Series 11QR – 2.17%.

(7) Redeemable on the redemption date and every five years thereafter, in whole or in part, at \$25.00 per share, and on any other date at \$25.50 per share.

(8) The annual dividend per share in the table above is the amount paid per share in 2019.

## 16. Interests in Other Entities

### 16.A Subsidiaries

Our principal subsidiaries are Sun Life Assurance and Sun Life Global Investments Inc. Sun Life Assurance is our principal operating insurance company and holds our insurance operations in Canada, the U.S., the UK, the Philippines, Hong Kong, Indonesia and Vietnam. These insurance operations are operated directly by Sun Life Assurance or through other subsidiaries. Sun Life Global Investments Inc. is a non-operating holding company that holds our asset management businesses, including Massachusetts Financial Services and the group of companies under SLC Management.

We are required to comply with various regulatory capital and solvency requirements in the jurisdictions in which we operate that may restrict our ability to access or use the assets of the group and to pay dividends. Further details on these restrictions are included in Notes 15 and 21.

### 16.B Joint Ventures and Associates

We have interests in various joint ventures and associates that principally operate in India, Malaysia, China, and the Philippines. We also have interests in joint ventures related to certain real estate investments in Canada. Our interests in these joint ventures and associates range from 24.99% to 50%. The following table summarizes, in aggregate, the financial information of these joint ventures and associates:

As at or for the years ended December 31,	2019	2018
Carrying amount of interests in joint ventures and associates	\$ 1,510	\$ 1,500
Our share of:		
Net income (loss)	86	91
Other comprehensive income (loss)	(9)	7
<b>Total comprehensive income (loss)</b>	<b>\$ 77</b>	<b>\$ 98</b>

In 2019, our investment in our joint ventures and associates changed by \$19 (\$64 in 2018), primarily in Canada.

During 2019, we received dividends from our joint ventures and associates of \$45 (\$34 in 2018). We also incurred rental expenses of \$17 (\$16 in 2018) related to leases with our joint ventures and associates, with the remaining future rental payments payable to our joint ventures and associates totaling \$212 over 13 years.

### 16.C Joint Operations

We invest jointly in investment properties and owner-occupied properties which are co-managed under contractual relationships with the other investors. We share in the revenues and expenses generated by these properties in proportion to our investment. The carrying amount

of these jointly controlled assets, which is included in Investment properties and in Other Assets for owner-occupied properties, is \$1,503 as at December 31, 2019 (\$1,223 as at December 31, 2018). The fair value of these jointly controlled assets is \$1,595 as at December 31, 2019 (\$1,307 as at December 31, 2018).

## 16.D Unconsolidated Structured Entities

SLF Inc. and its subsidiaries have interests in various structured entities that are not consolidated by us. A structured entity is an entity that has been designed so that voting or similar rights are not the dominant factor in deciding who controls the entity, such as when any voting rights relate to administrative tasks only and the relevant activities are directed by means of contractual arrangements. We have an interest in a structured entity when we have a contractual or non-contractual involvement that exposes us to variable returns from the performance of the entity. Our interest includes investments held in securities or units issued by these entities and fees earned from management of the assets within these entities.

Information on our interests in unconsolidated structured entities is as follows:

As at December 31,		2019		2018		
Type of structured entity	Type of investment held	Consolidated Financial Position line item	Carrying	Maximum	Carrying	Maximum
			amount	exposure to loss <sup>(1)</sup>	amount	exposure to loss <sup>(1)</sup>
Securitization entities – third-party managed	Debt securities	Debt securities	\$ 8,402	\$ 8,402	\$ 7,366	\$ 7,366
Securitization entities – third-party managed	Short-term securities	Cash, cash equivalents and short-term securities	\$ 498	\$ 498	\$ 430	\$ 430
Investment funds – third-party managed	Investment fund units	Equity securities	\$ 3,453	\$ 3,453	\$ 3,439	\$ 3,439
Investment funds – company managed <sup>(2)</sup>	Investment fund units and Limited partnership units	Equity securities and Other invested assets	\$ 2,293	\$ 2,293	\$ 1,705	\$ 1,705
Limited partnerships – third-party managed	Limited partnership units	Other invested assets	\$ 1,682	\$ 1,682	\$ 1,557	\$ 1,557

(1) The maximum exposure to loss is the maximum loss that we could record through comprehensive income as a result of our involvement with these entities.

(2) Includes investments in funds managed by our joint ventures with a carrying amount of \$204 (\$213 in 2018).

### 16.D.i Securitization Entities

Securitization entities are structured entities that are generally financed primarily through the issuance of debt securities that are backed by a pool of assets, such as mortgages or loans.

#### Third-Party Managed

Our investments in third-party managed securitization entities consist of asset-backed securities, such as commercial mortgage-backed securities, residential mortgage-backed securities, collateralized debt obligations (“CDOs”), and commercial paper. These securities are generally large-issue debt securities designed to transform the cash flows from a specific pool of underlying assets into tranches providing various risk exposures for investment purposes. We do not provide financial or other support to these entities other than our original investment and therefore our maximum exposure to loss on these investments is limited to the carrying amount of our investment. We do not have control over these investments since we do not have power to direct the relevant activities of these entities, regardless of the level of our investment.

#### Company Managed

We provide collateral management services to various securitization entities, primarily CDOs, from which we earn a fee for our services. The financial support provided to these entities is limited to the carrying amount of our investment in these entities. We provide no guarantees or other contingent support to these entities. We have not consolidated these entities since we do not have significant variability from our interests in these entities and we do not have any investment in these entities.

### 16.D.ii Investment Funds and Limited Partnerships

Investment funds and limited partnerships are investment vehicles that consist of a pool of funds collected from a group of investors for the purpose of investing in assets such as money market instruments, debt securities, equity securities, real estate, and other similar assets. The preceding table includes our investments in all investment funds, including mutual funds, exchange-traded funds, and segregated funds, and our investments in certain limited partnerships. Some of these investment funds and limited partnerships are structured entities. For all investment funds and limited partnerships, our maximum exposure to loss is equivalent to the carrying amount of our investment in the fund or partnership. Investment funds and limited partnerships are generally financed through the issuance of investment fund units or limited partnership units.

#### Third-Party Managed

We hold units in investment funds and limited partnerships managed by third-party asset managers. Our investments in fund units and limited partnership units generally give us an undivided interest in the investment performance of a portfolio of underlying assets managed or tracked to a specific investment mandate for investment purposes. We do not have control over investment funds or limited partnerships that are structured entities since we do not have power to direct their relevant activities.

#### Company Managed

We hold units in Company managed investment funds and limited partnerships. We generally have power over Company managed investment funds and limited partnerships that are structured entities since we have power to direct the relevant activities of the funds and limited

partnerships. However, we have not consolidated these funds and limited partnerships since we do not have significant variability from our interests in these funds and limited partnerships. We earn management fees from the management of these investment funds and limited partnerships that are commensurate with the services provided and are reported in Fee income. Management fees are generally based on the value of the assets under management. Therefore, the fees earned are impacted by the composition of the assets under management and fluctuations in financial markets. The fee income earned is included in Fund management and other asset based fees in Note 17. We also hold units in investment funds and limited partnerships managed by our joint ventures. Our share of the management fees earned is included as part of the Net income (loss) reported in Note 16.B.

## 16.E Consolidated Structured Entities

A significant structured entity consolidated by us is the entity that issued the senior financing that is described in more detail in Note 12.C. We also consolidate certain investment funds managed by SLC Management that invest primarily in mortgages and investment properties.

## 17. Fee Income

Fee income for the years ended December 31 consists of the following:

	2019	2018
Fee income from insurance contracts	\$ 1,017	\$ 968
Fee income from service contracts:		
Distribution fees	820	829
Fund management and other asset-based fees	3,662	3,444
Administrative service and other fees	752	725
<b>Total fee income</b>	<b>\$ 6,251</b>	<b>\$ 5,966</b>

Distribution fees and Fund management and other asset-based fees are primarily earned in the Asset Management segment. Administrative service and other fees are primarily earned in the Canada segment. The fee income by business segment is presented in Note 4.

## 18. Operating Expenses

Operating expenses for the years ended December 31 consist of the following:

	2019	2018
Employee expenses <sup>(1)</sup>	\$ 4,090	\$ 3,707
Premises and equipment	163	268
Capital asset depreciation	241	107
Service fees	919	870
Amortization of intangible assets (Note 9)	137	119
Impairment of intangible assets (Note 9)	15	-
Other expenses	1,468	1,361
<b>Total operating expenses</b>	<b>\$ 7,033</b>	<b>\$ 6,432</b>

(1) See table below for further details.

Employee expenses for the years ended December 31 consist of the following:

	2019	2018
Salaries, bonus, employee benefits	\$ 3,497	\$ 3,322
Share-based payments (Note 19)	549	346
Other personnel costs	44	39
<b>Total employee expenses</b>	<b>\$ 4,090</b>	<b>\$ 3,707</b>

## 19. Share-Based Payments

### 19.A Stock Option Plans

SLF Inc. has granted stock options to eligible employees under the Executive Stock Option Plan. These options are granted at the closing price of the common shares on the Toronto Stock Exchange ("TSX") on the grant date. The options granted under the stock option plans vest over a four-year period. All options have a maximum exercise period of 10 years. The maximum number of common shares that may be issued under the Executive Stock Option Plan is 29,525,000 shares.

The activities in the stock option plans for the years ended December 31 are as follows:

	2019		2018	
	Number of stock options (thousands)	Weighted average exercise price	Number of stock options (thousands)	Weighted average exercise price
Balance, January 1,	3,101	\$ 37.06	3,008	\$ 33.88
Granted	745	\$ 50.58	517	\$ 53.96
Exercised	(772)	\$ 29.01	(399)	\$ 34.57
Forfeited	–	\$ –	(25)	\$ 43.79
Balance, December 31,	3,074	\$ 42.36	3,101	\$ 37.06
Exercisable, December 31,	1,670	\$ 35.51	2,041	\$ 30.97

The average share price at the date of exercise of stock options for the year ended December 31, 2019 was \$53.22 (\$53.28 for 2018).

Compensation expense for stock options was \$4 for the year ended December 31, 2019 (\$3 for 2018).

The stock options outstanding as at December 31, 2019, by exercise price, are as follows:

Range of exercise prices	Number of stock options (thousands)	Weighted average remaining contractual life (years)	Weighted average exercise price
\$18.00 to \$24.00	407	2.16	\$ 21.53
\$24.01 to \$30.00	176	3.16	\$ 28.20
\$30.01 to \$35.00	82	0.72	\$ 31.03
\$35.01 to \$45.00	794	5.29	\$ 39.50
\$45.01 to \$53.96	1,615	8.40	\$ 51.14
Total stock options	3,074	6.27	\$ 42.36

The weighted average fair values of the stock options, calculated using the Black-Scholes option pricing model, granted during the year ended December 31, 2019 was \$5.56 (\$7.00 for 2018). The Black-Scholes option pricing model used the following assumptions to determine the fair value of options granted during the years ending December 31:

Weighted average assumptions	2019	2018
Risk-free interest rate	1.8%	2.2%
Expected volatility	19.5%	21.3%
Expected dividend yield	4%	4%
Expected life of the option (in years)	6.3	6.3
Exercise price	\$ 50.58	\$ 53.96

Expected volatility is based on historical volatility of the common shares, implied volatilities from traded options on the common shares, and other factors. The expected term of options granted is derived based on historical employee exercise behaviour and employee termination experience. The risk-free rate for periods within the expected term of the option is based on the Canadian government bond yield curve in effect at the time of grant.

## 19.B Employee Share Ownership Plan

In Canada, we match eligible employees' contributions to the Sun Life Financial Employee Stock Plan. Employees may elect to contribute from 1% to 20% of their target annual compensation to the Sun Life Financial Employee Stock Plan. Under this plan the match is provided for employees who have met one year of employment eligibility and is equal to 50% of the employee's contributions up to 5% of an employee's annual compensation. The match is further capped by a one thousand five hundred dollar annual maximum. Our contributions vest immediately and are expensed.

In 2019, we introduced the Sun Life Financial U.S. Employee Stock Purchase Plan which allows eligible employees to buy shares of SLF Inc. at a 10% discount at the end of six-month offering windows. Under this plan, employees who enroll can contribute from 1% to 10% of their base salary. At the end of each window, accumulated employee amounts are used to purchase stock, with the Company financing the 10% discount. The total annual contribution, including the company discount, is limited to U.S. twenty-five thousand dollars.

We recorded an expense of \$8 for the year ended December 31, 2019 (\$8 for 2018).

## 19.C Other Share-Based Payment Plans

All other share-based payment plans use notional units that are valued based on the common share price on the TSX. Any fluctuation in the common share price changes the value of the units, which affects our share-based payment compensation expense. Upon redemption of these units, payments are made to the employees with a corresponding reduction in the accrued liability. We use equity swaps and forwards to hedge our exposure to variations in cash flows due to changes in the common share price for all of these plans.

Details of these plans are as follows:

**Senior Executives' Deferred Share Unit ("DSU") Plan:** Under the DSU plan, designated executives may elect to receive all or a portion of their annual incentive award in the form of DSUs. Each DSU is equivalent in value to one common share and earns dividend equivalents in the form of additional DSUs at the same rate as the dividends on common shares. The designated executives must elect to participate in the plan prior to the beginning of the plan year and this election is irrevocable. Awards generally vest immediately; however, participants are not permitted to redeem the DSUs until after termination, death, or retirement. The value at the time of redemption will be based on the fair value of the common shares immediately before their redemption.

**Sun Share Unit ("Sun Share") Plan:** Under the Sun Share plan, participants are granted units that are equivalent in value to one common share and have a grant price equal to the average of the closing price of a common share on the TSX on the five trading days immediately prior to the date of grant. Participants generally hold units for up to 36 months from the date of grant. The units earn dividend equivalents in the form of additional units at the same rate as the dividends on common shares. Units may vest or become payable if we meet specified threshold performance targets. The plan provides for performance factors to motivate participants to achieve a higher return for shareholders (performance factors are determined through a multiplier that can be as low as zero or as high as two times the number of units that vest). Payments to participants are based on the number of units vested multiplied by the average closing price of a common share on the TSX on the five trading days immediately prior to the vesting date.

**Additional information for other share-based payment plans:** The units outstanding under these plans and the liabilities recognized for these units in our Consolidated Statements of Financial Position are summarized in the following table:

Number of units (in thousands)	Sun Shares	DSUs	Total
Units outstanding December 31, 2019	5,521	930	6,451
Units outstanding December 31, 2018	5,967	854	6,821
Liability accrued as at December 31, 2019	\$ 257	\$ 51	\$ 308
Liability accrued as at December 31, 2018	\$ 200	\$ 35	\$ 235

Compensation expense and the income tax expense (benefit) for other share-based payment plans for the years ended December 31 are shown in the following table. Since expenses for the DSUs are accrued as part of incentive compensation in the year awarded, the expenses below do not include these accruals. The expenses presented in the following table include increases in the liabilities for Sun Shares and DSUs due to changes in the fair value of the common shares and the accruals of the Sun Shares liabilities over the vesting period, and exclude any adjustment in expenses due to the impact of hedging.

For the years ended December 31,	2019	2018
Compensation expense	\$ 205	\$ 87
Income tax expense (benefit)	\$ (53)	\$ (21)

## 19.D Share-Based Payment Plans of MFS

Share-based payment awards within MFS are based on their own shares. Restricted share awards and stock option awards are settled in MFS shares and restricted stock unit awards are settled in cash. Restricted share awards, restricted stock unit awards, and stock option awards generally vest over a four-year period and continued employment is generally the only service requirement for these awards. Holders of restricted share awards and restricted stock unit awards are entitled to receive non-forfeitable dividend equivalent payments during the vesting period at the same rate as the dividends on MFS's shares.

Although restricted share awards and stock option awards are settled in shares, all of the MFS share-based awards, including outstanding MFS shares, are accounted for as cash-settled share-based payment awards due to the fact that MFS has a practice of repurchasing its outstanding shares after a specified holding period. The fair value of stock option awards is determined using the Black-Scholes option pricing model, while the fair value of restricted share awards, restricted stock unit awards, and outstanding MFS shares are estimated using a market consistent share valuation model. The amount of periodic compensation expense recognized is impacted by grants of new awards, vesting, exercise, and forfeiture of unvested awards, share repurchases, changes in fair value of awards, and outstanding MFS shares. The total liability accrued attributable to all MFS share-based payment plans as at December 31, 2019 was \$810 (\$831 as at December 31, 2018) which includes a liability of \$644 (\$677 as at December 31, 2018) for the stock options, restricted shares, and outstanding MFS shares.

Compensation expense and the income tax expense (benefit) for these awards for the years ended December 31 are shown in the following table:

For the years ended December 31,	2019	2018
Compensation expense	\$ 332	\$ 248
Income tax expense (benefit)	\$ (58)	\$ (49)

## 20. Income Taxes

### 20.A Deferred Income Taxes

The following represents the deferred tax assets and liabilities in the Consolidated Statements of Financial Position:

For the years ended December 31,	2019	2018
Deferred tax assets <sup>(1)</sup>	\$ 1,455	\$ 1,209
Deferred tax liabilities <sup>(1)</sup>	406	322
Net deferred tax asset	\$ 1,049	\$ 887

(1) Our deferred tax assets and deferred tax liabilities are offset when there is a legally enforceable right to offset current tax assets against current tax liabilities and when the deferred taxes relate to the same taxable entity and the same taxation authority.

The movement in net deferred tax assets for the years ended December 31, are as follows:

	Investments	Policy liabilities <sup>(1)</sup>	Deferred acquisition costs	Losses available for carry forward	Pension and other employee benefits	Other <sup>(2)</sup>	Total
As at December 31, 2018	\$ (746)	\$ 737	\$ 96	\$ 648	\$ 319	\$ (167)	\$ 887
Acquisitions (disposals)	–	–	–	–	–	(48)	(48)
Charged to statement of operations	(263)	406	(9)	63	7	50	254
Charged to other comprehensive income	(52)	(9)	–	(10)	21	(1)	(51)
Charged to equity, other than other comprehensive income	–	–	–	–	–	9	9
Foreign exchange rate movements and Other	21	(13)	(4)	(4)	(9)	7	(2)
<b>As at December 31, 2019</b>	<b>\$ (1,040)</b>	<b>\$ 1,121</b>	<b>\$ 83</b>	<b>\$ 697</b>	<b>\$ 338</b>	<b>\$ (150)</b>	<b>\$ 1,049</b>

(1) Consists of Insurance contract liabilities and Investment contract liabilities, net of Reinsurance assets.

(2) Includes unused tax credits.

	Investments	Policy liabilities <sup>(1)</sup>	Deferred acquisition costs	Losses available for carry forward	Pension and other employee benefits	Other <sup>(2)</sup>	Total
As at December 31, 2017	\$ (957)	\$ 896	\$ 77	\$ 549	\$ 351	\$ (24)	\$ 892
Charged to statement of operations	195	(170)	6	107	(26)	(149)	(37)
Charged to other comprehensive income	45	–	–	(13)	(17)	9	24
Charged to equity, other than other comprehensive income	–	–	6	–	–	3	9
Foreign exchange rate movements and Other	(29)	11	7	5	11	(6)	(1)
As at December 31, 2018	\$ (746)	\$ 737	\$ 96	\$ 648	\$ 319	\$ (167)	\$ 887

(1) Consists of Insurance contract liabilities and Investment contract liabilities, net of Reinsurance assets.

(2) Includes unused tax credits.

We have accumulated non-capital tax losses, primarily in Canada, the Philippines, the UK and Indonesia, totaling \$3,317 (\$3,245 in 2018). The benefit of these tax losses has been recognized to the extent that it is probable that the benefit will be realized. In addition, in the U.S., we have net capital losses of \$1 (\$30 in 2018) for which a deferred tax asset of less than \$1 (\$6 in 2018) has been recognized. Unused tax losses for which a deferred tax asset has not been recognized amount to \$553 as of December 31, 2019 (\$702 in 2018) primarily in the Philippines and Indonesia. We also have capital losses of \$455 in the UK (\$460 in 2018) and \$178 in Canada (\$176 in 2018) for which a deferred tax asset of \$101 (\$102 in 2018) has not been recognized.

We will realize the benefit of tax losses carried forward in future years through a reduction in current income taxes as and when the losses are utilized. These tax losses are subject to examination by various tax authorities and could be reduced as a result of the adjustments to tax returns. Furthermore, legislative, business or other changes may limit our ability to utilize these losses.

Included in the deferred tax asset related to losses available for carry forward are tax benefits that have been recognized on losses incurred in either the current or the preceding year. In determining if it is appropriate to recognize these tax benefits, we rely on projections of future taxable profits, and we also consider tax planning opportunities that will create taxable income in the period in which the unused tax losses can be utilized.

The non-capital losses carried forward in Canada expire beginning in 2028 and the capital losses can be carried forward indefinitely. The operating and capital losses in the UK can be carried forward indefinitely. The non-capital losses in the Philippines can be carried forward three years, and the non-capital losses in Indonesia can be carried forward five years.

We recognize a deferred tax liability on all temporary differences associated with investments in subsidiaries, branches, joint ventures and associates unless we are able to control the timing of the reversal of these differences and it is probable that these differences will not reverse in the foreseeable future. As at December 31, 2019, temporary differences associated with investments in subsidiaries, branches, joint ventures and associates for which a deferred tax liability has not been recognized amount to \$6,068 (\$5,723 in 2018).

## 20.B Income Tax Expense (Benefit)

**20.B.i** In our Consolidated Statements of Operations, Income tax expense (benefit) for the years ended December 31 has the following components:

	2019	2018
Current income tax expense (benefit):		
Current year	\$ 620	\$ 561
Adjustments in respect of prior years, including resolution of tax disputes	(80)	(1)
Total current income tax expense (benefit)	540	560
Deferred income tax expense (benefit):		
Origination and reversal of temporary differences	(240)	42
Adjustments in respect of prior years, including resolution of tax disputes	(24)	(9)
Tax expense (benefit) arising from unrecognized tax losses	8	4
Tax rate and other legislative changes	2	–
Total deferred income tax expense (benefit)	(254)	37
Total income tax expense (benefit)	\$ 286	\$ 597

**20.B.ii** Income tax benefit (expense) recognized directly in equity for the years ended December 31:

	2019	2018
Recognized in other comprehensive income:		
Current income tax benefit (expense)	\$ (12)	\$ (4)
Deferred income tax benefit (expense)	(51)	24
Total recognized in other comprehensive income	(63)	20
Recognized in equity, other than other comprehensive income:		
Deferred income tax benefit (expense)	9	9
Total income tax benefit (expense) recorded in equity, including tax benefit (expense) recorded in Other comprehensive income	\$ (54)	\$ 29

**20.B.iii** Our effective income tax rate differs from the combined Canadian federal and provincial statutory income tax rate as follows:

For the years ended December 31,	2019		2018	
		%		%
Total net income (loss)	\$ 2,947		\$ 2,914	
Add: Income tax expense (benefit)	286		597	
Total net income (loss) before income taxes	\$ 3,233		\$ 3,511	
Taxes at the combined Canadian federal and provincial statutory income tax rate	\$ 857	26.5	\$ 939	26.8
Increase (decrease) in rate resulting from:				
Tax-exempt investment income	(260)	(8.0)	(131)	(3.8)
Higher (lower) effective rates on income subject to taxation in foreign jurisdictions	(194)	(6.0)	(222)	(6.3)
Adjustments in respect of prior years, including resolution of tax disputes	(104)	(3.2)	(10)	(0.3)
Tax (benefit) cost of unrecognized tax losses and tax credits	8	0.2	4	0.1
Tax rate and other legislative changes	2	0.1	–	–
Other	(23)	(0.8)	17	0.5
Total tax expense (benefit) and effective income tax rate	\$ 286	8.8	\$ 597	17.0

In the second quarter of 2019, a provincial corporate tax rate decrease from 12% to 8% was enacted in Alberta, Canada. As a result, our statutory tax rate decreased from 26.75% (rounded to 26.8% in the table above) in 2018 to 26.5% in 2019 and future years.

Tax-exempt investment income includes tax rate differences related to various types of investment income that is taxed at rates lower than our statutory income tax rate, such as dividend income, capital gains arising in Canada, and various others. Fluctuations in foreign exchange rates, changes in market values of real estate properties and other investments have an impact on the amount of these tax rate differences.

Statutory income tax rates in other jurisdictions in which we conduct business range from 0% to 30%, which creates a tax rate differential and corresponding tax provision difference compared to the Canadian federal and provincial statutory rate when applied to foreign income not subject to tax in Canada. Generally, higher earnings in jurisdictions with higher statutory tax rates result in an increase of our tax expense, while earnings arising in tax jurisdictions with statutory rates lower than 26.5% reduce our tax expense. These differences are reported in Higher (lower) effective rates on income subject to taxation in foreign jurisdictions. The benefit reported in 2019 included lower income in jurisdictions with low statutory income tax rates compared to 2018.

Adjustments in respect of prior periods, including the resolution of tax disputes, relates mainly to the resolution of Canadian tax matters, and the finalization of the prior year's Canadian and U.S. tax filings in 2019. In 2018, it related to tax audit adjustments and the finalization of tax filings in Canada, Asia and the U.S.

Tax (benefit) cost of unrecognized tax losses/tax credits reflects unrecognized losses in Asia.

Tax rate and other legislative changes relates to the corporate tax rate decrease in Alberta in 2019.

Other primarily reflects withholding taxes on distributions from our foreign subsidiaries and the benefit relating to investments in joint ventures in Asia. In 2019, Other also reflects the reversal of withholding taxes no longer expected to be paid.

## 21. Capital Management

### 21.A Capital

Our capital base is structured to exceed minimum regulatory and internal capital targets and maintain strong credit and financial strength ratings while maintaining a capital efficient structure. We strive to achieve an optimal capital structure by balancing the use of debt and equity financing. Capital is managed both on a consolidated basis under principles that consider all the risks associated with the business as well as at the business group level under the principles appropriate to the jurisdiction in which each operates. We manage the capital for all of our international subsidiaries on a local statutory basis in a manner commensurate with their individual risk profiles.

The Board of Directors of SLF Inc. is responsible for the annual review and approval of the Company's capital plan and capital risk policy. Management oversight of our capital programs and position is provided by the Company's Executive Risk Committee, the membership of which includes senior management from the finance, actuarial, and risk management functions.

We engage in a capital planning process annually in which capital deployment options, fundraising, and dividend recommendations are presented to the Risk & Conduct Review Committee of the Board of Directors. Capital reviews are regularly conducted which consider the potential impacts under various business, interest rate, and equity market scenarios. Relevant components of these capital reviews, including dividend recommendations, are presented to the Risk & Conduct Review Committee on a quarterly basis. The Board of Directors is responsible for the approval of the dividend recommendations.

The capital risk policy is designed to ensure that adequate capital is maintained to provide the flexibility necessary to take advantage of growth opportunities, to support the risks associated with our businesses and to optimize return to our shareholders. This policy is also intended to provide an appropriate level of risk management over capital adequacy risk, which is defined as the risk that capital is not or will not be sufficient to withstand adverse economic conditions, to maintain financial strength or to allow us and our subsidiaries to support ongoing operations and to take advantage of opportunities for expansion. SLF Inc. manages its capital in a manner commensurate with its risk profile and control environment.

SLF Inc. is a non-operating insurance company and is subject to the LICAT guideline. As at December 31, 2019, SLF Inc.'s LICAT ratio exceeds the regulatory minimum ratio as set out by OSFI.

Sun Life Assurance, SLF's principal operating life insurance subsidiary in Canada, is also subject to the LICAT guideline. With a LICAT Ratio of 130% as at December 31, 2019, Sun Life Assurance's LICAT Ratio is above OSFI's Supervisory Target Total Ratio of 100% and minimum Total Ratio of 90%.

OSFI may intervene and assume control of a Canadian life insurance company if it deems the amount of available capital insufficient. Capital requirements may be adjusted by OSFI in the future, as experience develops or the risk profile of Canadian life insurers changes or to reflect other risks. Sun Life Assurance exceeded levels that would require regulatory or corrective action as at December 31, 2019 and December 31, 2018.

The Company's regulated subsidiaries must comply with the capital adequacy requirements imposed in the jurisdictions in which they operate. In certain jurisdictions, the payment of dividends from our subsidiaries is subject to maintaining capital levels exceeding regulatory targets and/or receiving regulatory approval. We maintained capital levels above minimum local requirements as at December 31, 2019 and December 31, 2018.

In the U.S., Sun Life Assurance operates through a branch which is subject to U.S. regulatory supervision and it exceeded the levels under which regulatory action would be required as at December 31, 2019 and December 31, 2018. In the U.S., we use captive reinsurance arrangements to provide efficient financing of U.S. statutory reserve requirements in excess of those required under IFRS. Under one such arrangement, the funding of these reserve requirements is supported by a guarantee from SLF Inc.

Our capital base consists mainly of common shareholders' equity, preferred shareholders' equity, participating policyholders' equity, non-controlling interests' equity and certain other capital securities that qualify as regulatory capital. For regulatory reporting purposes under the LICAT framework, there were further adjustments, including goodwill, non-life investments, and others as was prescribed by OSFI, to the total capital figure presented in the table below:

As at December 31,	2019	2018
Subordinated debt	\$ 3,538	\$ 3,039
Innovative capital instruments <sup>(1)</sup>	200	699
Equity:		
Preferred shareholders' equity	2,257	2,257
Common shareholders' equity	21,141	21,449
Participating policyholders' equity	1,091	864
Non-controlling interests' equity	19	–
<b>Total capital</b>	<b>\$ 28,246</b>	<b>\$ 28,308</b>

(1) Innovative capital instruments are SLEECs issued by the SL Capital Trusts (Note 13). The SL Capital Trusts are not consolidated by us.

## 21.B Participating Account Seed Capital

In the first quarter of 2018, with OSFI's approval, seed capital, together with interest earned since demutualization, was transferred from the participating account to the shareholder account. The transfer of seed capital is recorded on our Consolidated Statements of Changes in Equity as a Transfer from participating policyholders' equity totaling \$89, comprised of \$50 in Canada and \$39 in U.S. The transfer of interest on seed capital is included as a reduction in Participating policyholders' net income (loss) and an increase in Shareholders' net income (loss) totaling \$110, on a pre- and post-tax basis, comprised of \$75 in Canada and \$35 in U.S. At the time of demutualization, OSFI required shareholders to transfer seed capital into the participating account to support participating insurance policies sold after demutualization. It was anticipated that over time the seed capital would no longer be needed and that the seed capital and accumulated interest would be returned to the shareholders, subject to OSFI's approval. The transfer has no impact on regulatory capital requirements, and will have no adverse impact on the policy dividends or security of benefits of participating policyholders.

## 22. Segregated Funds

We have segregated fund products, including variable annuities, unit-linked products and universal life insurance policies, in Canada, the U.S., the UK, and Asia. Under these contracts, the benefit amount is contractually linked to the fair value of the investments in the particular segregated fund. Policyholders can select from a variety of categories of segregated fund investments. Although the underlying assets are registered in our name and the segregated fund contract holder has no direct access to the specific assets, the contractual arrangements are such that the segregated fund policyholder bears the risk and rewards of the funds' investment performance. Therefore, net realized gains and losses, other net investment income earned, and expenses incurred on the segregated funds are attributable to policyholders and not to us. However, certain contracts include guarantees from us. We are exposed to equity market risk and interest rate risk as a result of these guarantees. Further details on these guarantees and our risk management activities related to these guarantees are included in the Risk Management section of the MD&A.

We derive fee income from segregated funds. Market value movements in the investments held for segregated fund holders impact the management fees earned on these funds.

The segregated fund types offered, by percentage of total investments for account of segregated fund holders, were within the following ranges as at December 31, 2019 and 2018:

Type of fund	%
Money market	1 to 5
Fixed income	10 to 15
Balanced	40 to 45
Equity	40 to 45

Money market funds include investments that have a term to maturity of less than one year. Fixed income funds are funds that invest primarily in investment grade fixed income securities and where less than 25% can be invested in diversified equities or high-yield bonds. Balanced funds are a combination of fixed income securities with a larger equity component. The fixed income component is greater than 25% of the portfolio. Equity consists primarily of broad-based diversified funds that invest in a well-diversified mix of Canadian, U.S. or global equities. Other funds in this category include low volatility funds, intermediate volatility funds, and high volatility funds.

## 22.A Investments for Account of Segregated Fund Holders

The carrying value of investments held for segregated fund holders are as follows:

As at December 31,	2019	2018
Segregated and mutual fund units	\$ 102,071	\$ 89,049
Equity securities	10,565	9,771
Debt securities	3,825	3,448
Cash, cash equivalents and short-term securities	589	711
Investment properties	403	400
Mortgages	21	23
Other assets	146	156
<b>Total assets</b>	<b>\$ 117,620</b>	<b>\$ 103,558</b>
Less: Liabilities arising from investing activities	647	496
<b>Total investments for account of segregated fund holders</b>	<b>\$ 116,973</b>	<b>\$ 103,062</b>

## 22.B Changes in Insurance Contracts and Investment Contracts for Account of Segregated Fund Holders

Changes in insurance contracts and investment contracts for account of segregated fund holders are as follows:

For the years ended December 31,	Insurance contracts		Investment contracts	
	2019	2018	2019	2018
Balance as at January 1	\$ 96,663	\$ 99,121	\$ 6,399	\$ 7,271
Additions to segregated funds:				
Deposits	11,874	11,468	84	85
Net transfer (to) from general funds	(437)	(308)	–	–
Net realized and unrealized gains (losses)	10,700	(7,123)	844	(658)
Other investment income	4,522	4,576	143	178
<b>Total additions</b>	<b>\$ 26,659</b>	<b>\$ 8,613</b>	<b>\$ 1,071</b>	<b>\$ (395)</b>
Deductions from segregated funds:				
Payments to policyholders and their beneficiaries	11,420	10,224	604	614
Management fees	1,053	1,004	56	57
Taxes and other expenses	371	256	14	–
Foreign exchange rate movements	209	(413)	92	(194)
<b>Total deductions</b>	<b>\$ 13,053</b>	<b>\$ 11,071</b>	<b>\$ 766</b>	<b>\$ 477</b>
<b>Net additions (deductions)</b>	<b>\$ 13,606</b>	<b>\$ (2,458)</b>	<b>\$ 305</b>	<b>\$ (872)</b>
<b>Balance as at December 31</b>	<b>\$ 110,269</b>	<b>\$ 96,663</b>	<b>\$ 6,704</b>	<b>\$ 6,399</b>

## 23. Commitments, Guarantees and Contingencies

### 23.A Lease Commitments

We lease offices and certain equipment. These are operating leases with rents charged to operations in the year to which they relate. Total future rental payments for the remainder of these leases total \$1,114. The future rental payments by year of payment are included in the MD&A as described in Note 6.

### 23.B Contractual Commitments

In the normal course of business, various contractual commitments are outstanding, which are not reflected in our Consolidated Financial Statements. In addition to loan commitments for debt securities and mortgages included in Note 6.A.i, we have equity, investment property, and property and equipment commitments. As at December 31, 2019, we had a total of \$3,583 of contractual commitments outstanding. The expected maturities of these commitments are included in the MD&A as described in Note 6.

### 23.C Letters of Credit

We issue commercial letters of credit in the normal course of business. As at December 31, 2019, we had credit facilities of \$859 available for the issuance of letters of credit (\$891 as at December 31, 2018), from which a total of \$214 in letters of credit were outstanding (\$227 as at December 31, 2018).

## 23.D Commission on Release

Commissions on Release ("CORE") is a program designed to facilitate the transfer of blocks of business between advisors in order to provide ongoing service and advice to our Clients. We facilitate and administer these transactions including payment and collection streams. Under the CORE program, when an eligible advisor releases Clients they are servicing, we are contractually obligated to pay them the associated CORE value, based on a specified formula as stipulated in the advisor contract. The value of the CORE commitment will vary for blocks of business which have not been released by an active advisor. The occurrence of future events that will trigger an advisor to release their block of business and the value of the related CORE commitment at that future release date is difficult to predict. As a result of uncertainty in the timing of the triggering event, we cannot reliably estimate our commitment under the CORE program. Due to the nature of the program, in the normal course of business, the commitment related to the future payment to advisors on release of a block of business would be expected to be matched or partially matched by a corresponding amount related to the receivable on the assignment of blocks of business to new advisors, resulting in an immaterial impact to earnings and liquidity in any reporting period.

## 23.E Indemnities and Guarantees

In the normal course of our business, we have entered into agreements that include indemnities in favour of third parties, such as confidentiality agreements, engagement letters with advisors and consultants, outsourcing agreements, leasing contracts, trade-mark licensing agreements, underwriting and agency agreements, information technology agreements, distribution agreements, financing agreements, the sale of equity interests, and service agreements. These agreements may require us to compensate the counterparties for damages, losses or costs incurred by the counterparties as a result of breaches in representation, changes in regulations (including tax matters), or as a result of litigation claims or statutory sanctions that may be suffered by the counterparty as a consequence of the transaction. We have also agreed to indemnify our directors and certain of our officers and employees in accordance with our by-laws. These indemnification provisions will vary based upon the nature and terms of the agreements. In many cases, these indemnification provisions do not contain limits on our liability, and the occurrence of contingent events that will trigger payment under these indemnities is difficult to predict. As a result, we cannot estimate our potential liability under these indemnities. We believe that the likelihood of conditions arising that would trigger these indemnities is remote and, historically, we have not made any significant payment under such indemnification provisions. In certain cases, we have recourse against third parties with respect to the aforesaid indemnities, and we also maintain insurance policies that may provide coverage against certain of these claims.

In the normal course of our business, we have entered into purchase and sale agreements that include indemnities in favour of third parties. These agreements may require us to compensate the counterparties for damages, losses, or costs incurred by the counterparties as a result of breaches in representation. As at December 31, 2019, we are not aware of any breaches in representations that would result in any payment required under these indemnities that would have a material impact on our Consolidated Financial Statements.

Guarantees made by us that can be quantified are included in Note 6.A.i.

## 23.F Guarantees of Sun Life Assurance Preferred Shares and Subordinated Debentures

SLF Inc. has provided a guarantee on the \$150 of 6.30% subordinated debentures due 2028 issued by Sun Life Assurance. Claims under this guarantee will rank equally with all other subordinated indebtedness of SLF Inc. SLF Inc. has also provided a subordinated guarantee of the preferred shares issued by Sun Life Assurance from time to time, other than such preferred shares which are held by SLF Inc. and its affiliates. Sun Life Assurance has no outstanding preferred shares subject to the guarantee. As a result of these guarantees, Sun Life Assurance is entitled to rely on exemptive relief from most continuous disclosure and the certification requirements of Canadian securities laws.

The following tables set forth certain consolidating summary financial information for SLF Inc. and Sun Life Assurance (consolidated):

Results for the years ended	SLF Inc. (unconsolidated)	Sun Life Assurance (consolidated)	Other subsidiaries of SLF Inc. (combined)	Consolidation adjustments	SLF Inc. (consolidated)
<b>December 31, 2019</b>					
Revenue	\$ 213	\$ 33,693	\$ 7,516	\$ (1,743)	\$ 39,679
Shareholders' net income (loss)	\$ 2,713	\$ 1,750	\$ 881	\$ (2,631)	\$ 2,713
<b>December 31, 2018</b>					
Revenue	\$ 361	\$ 22,619	\$ 4,453	\$ (436)	\$ 26,997
Shareholders' net income (loss)	\$ 2,616	\$ 2,036	\$ 382	\$ (2,418)	\$ 2,616

Assets and liabilities as at	SLF Inc. (unconsolidated)	Sun Life Assurance (consolidated)	Other subsidiaries of SLF Inc. (combined)	Consolidation adjustments	SLF Inc. (consolidated)
<b>December 31, 2019</b>					
Invested assets	\$ 23,639	\$ 152,512	\$ 8,552	\$ (23,084)	\$ 161,619
Total other general fund assets	\$ 4,135	\$ 24,000	\$ 11,955	\$ (21,480)	\$ 18,610
Investments for account of segregated fund holders	\$ –	\$ 116,918	\$ 55	\$ –	\$ 116,973
Insurance contract liabilities	\$ –	\$ 131,428	\$ 9,644	\$ (9,888)	\$ 131,184
Investment contract liabilities	\$ –	\$ 3,116	\$ –	\$ –	\$ 3,116
Total other general fund liabilities	\$ 4,376	\$ 23,780	\$ 8,053	\$ (14,788)	\$ 21,421
<b>December 31, 2018</b>					
Invested assets	\$ 24,255	\$ 143,040	\$ 6,991	\$ (22,560)	\$ 151,726
Total other general fund assets	\$ 4,088	\$ 21,958	\$ 10,389	\$ (19,396)	\$ 17,039
Investments for account of segregated fund holders	\$ –	\$ 103,014	\$ 48	\$ –	\$ 103,062
Insurance contract liabilities	\$ –	\$ 122,066	\$ 8,534	\$ (8,677)	\$ 121,923
Investment contract liabilities	\$ –	\$ 3,164	\$ –	\$ –	\$ 3,164
Total other general fund liabilities	\$ 4,636	\$ 21,801	\$ 5,972	\$ (13,301)	\$ 19,108

### 23.G Legal and Regulatory Proceedings

We are regularly involved in legal actions, both as a defendant and as a plaintiff. Legal actions naming us as a defendant ordinarily involve our activities as a provider of insurance protection and wealth management products, as an investor and investment advisor, and as an employer. In addition, government and regulatory bodies in Canada, the U.S., the UK and Asia, including federal, provincial, and state securities and insurance regulators and government authorities, from time to time, make inquiries and require the production of information or conduct examinations or investigations concerning our compliance with insurance, securities, and other laws.

Provisions for legal proceedings related to insurance contracts, such as for disability and life insurance claims and the cost of litigation, are included in Insurance contract liabilities in our Consolidated Statements of Financial Position. Other provisions are established outside of the Insurance contract liabilities if, in the opinion of management, it is both probable that a payment will be required and a reliable estimate can be made of the amount of the obligation. Management reviews the status of all proceedings on an ongoing basis and exercises judgment in resolving them in such manner as management believes to be in our best interest.

Two class action lawsuits have been filed against Sun Life Assurance in connection with sales practices relating to, and the administration of, individual policies issued by the Metropolitan Life Insurance Company (“MLIC”). These policies were assumed by Clarica when Clarica acquired the bulk of MLIC’s Canadian operations in 1998 and subsequently assumed by Sun Life Assurance as a result of its amalgamation with Clarica. One of the lawsuits (*Fehr et al v Sun Life Assurance Company of Canada*) is issued in Ontario and the other (*Alamwala v Sun Life Assurance Company of Canada*) is in British Columbia. In the *Fehr* action, the motions judge dismissed the plaintiff’s motion for certification in its entirety by way of a two-part decision released on November 12, 2015 and December 7, 2016. The plaintiffs appealed and, in a decision released on September 5, 2018, the Ontario Court of Appeal overturned part of the lower court’s decision and certified certain common issues, including three alleged breach of contract claims related to the policies. The next step in the process is the discovery phase. The other action (*Alamwala v Sun Life Assurance Company of Canada*) has remained largely dormant since it was commenced in 2011 and has not been certified. We will continue to vigorously defend against the claims in these actions. In connection with the acquisition of the Canadian operations of MLIC, MLIC agreed to indemnify Clarica for certain losses, including those incurred relating to the sales of its policies. Should either of the *Fehr* or the *Alamwala* lawsuits result in a loss, Sun Life Assurance will seek recourse against MLIC under that indemnity through arbitration.

Management does not believe that the probable conclusion of any current legal or regulatory matter, either individually or in the aggregate, will have a material adverse effect on the Consolidated Statements of Financial Position or results of operations of the Company.

### 24. Related Party Transactions

SLF Inc. and its subsidiaries, joint ventures and associates transact business worldwide. All transactions between SLF Inc. and its subsidiaries have been eliminated on consolidation. Transactions with joint ventures and associates, which are also related parties, are disclosed in Note 16. Transactions between the Company and related parties are executed and priced on an arm’s-length basis in a manner similar to transactions with third parties.

## 24.A Transactions with Key Management Personnel, Remuneration and Other Compensation

Key management personnel refers to the executive team and Board of Directors of SLF Inc. These individuals have the authority and responsibility for planning, directing, and controlling the activities of the Company. The aggregate compensation to the executive team and directors are as follows:

For the years ended December 31,	2019		2018	
	Executive team	Directors	Executive team	Directors
Number of individuals	12	10	12	10
Base salary and annual incentive compensation	\$ 17	\$ –	\$ 18	\$ –
Additional short-term benefits and other	\$ 1	\$ 1	\$ 3	\$ 1
Share-based long-term incentive compensation	\$ 22	\$ 2	\$ 24	\$ 2
Value of pension and post-retirement benefits	\$ 2	\$ –	\$ 2	\$ –

## 24.B Other Related Party Transactions

We provide investment management services for our pension plans. The services are provided on substantially the same terms as for comparable transactions with third parties. We also hold units of investment funds managed by certain of our joint ventures. The carrying amount of our investment in these funds is included in Note 16.D.

## 25. Pension Plans and Other Post-Retirement Benefits

We sponsor defined benefit pension plans and defined contribution plans for eligible employees. All of our material defined benefit plans worldwide are closed to new entrants with new hires participating in defined contribution plans. Material defined benefit plans are located in Canada, the U.S., and the UK. The defined benefit pension plans offer benefits based on length of service and final average earnings and certain plans offer some indexation of benefits. The specific features of these plans vary in accordance with the employee group and countries in which employees are located. In addition, we maintain supplementary non-contributory defined benefit pension arrangements for eligible employees, which are primarily for benefits which are in excess of local tax limits. As at December 31, 2014, there are no active members in the UK and the U.S. defined benefit plans continuing to accrue future service benefits. On January 1, 2009, the Canadian defined benefit plans were closed to new employees. Canadian employees hired before January 1, 2009 continue to earn future service benefits in the previous plans, which includes both defined benefit and defined contribution components, while new hires since then are eligible to join a defined contribution plan. In addition, one small defined benefit plan in the Philippines remains open to new hires.

Our funding policy for defined benefit pension plans is to make at least the minimum annual contributions required by regulations in the countries in which the plans are offered. Our UK defined benefit pension scheme is governed by pension trustees. In other countries in which we operate, the defined benefit pension arrangements are governed by local pension committees. Significant plan changes require the approval of the Board of Directors of the sponsoring subsidiary of SLF Inc.

We also established defined contribution plans for eligible employees. Our contributions to these defined contribution pension plans may be subject to certain vesting requirements. Generally, our contributions are a set percentage of employees' annual income and may be a set percentage of employee contributions, up to specified levels.

In addition to our pension plans, in Canada and the U.S., we provide certain post-retirement health care and life insurance benefits to eligible employees and to their dependents upon meeting certain requirements. Eligible retirees may be required to pay a portion of the premiums for these benefits and, in general, deductible amounts and co-insurance percentages apply to benefit payments. These post-retirement benefits are not pre-funded. In Canada, certain post-retirement health care and life insurance benefits are provided for eligible employees who retired before December 31, 2015. Eligible employees in Canada who retire after December 31, 2015 will have access to voluntary retiree-paid health care coverage. In the U.S., certain post-retirement health care and life insurance benefits are provided to eligible retirees. In the U.S., employees who were not age 50 with 10 years of service as of December 31, 2015 only have access to subsidized retiree health care coverage until eligible for Medicare. Eligible existing and future retirees and covered dependents eligible for Medicare receive an annual contribution to a health reimbursement account to be applied against individual coverage and other eligible expenses.

## 25.A Risks Associated with Employee Defined Benefit Plans

With the closure of the material defined benefit pension and retiree benefit plans to new entrants, the volatility associated with future service accruals for active members has been limited and will decline over time.

The major risks remaining in relation to past service obligations are increases in liabilities due to a decline in discount rates, greater life expectancy than assumed and adverse asset returns. We have significantly de-risked the investments of our material defined benefit pension plans Company-wide by shifting the pension asset mix away from equities and into more fixed income and liability-matching investments. In 2018, the risk in our UK pension plan was reduced through a buy-in insurance contract protecting the majority of pensioner benefits. The target for our material funded defined benefit plans is to minimize volatility in funded status arising from changes in discount rates and exposure to equity markets.

## 25.B Defined Benefit Pension and Other Post-Retirement Benefit Plans

The following tables set forth the status of the defined benefit pension and other post-retirement benefit plans:

	2019			2018		
	Pension	Other post-retirement	Total	Pension	Other post-retirement	Total
Change in defined benefit obligations:						
Defined benefit obligation, January 1	\$ 3,458	\$ 262	\$ 3,720	\$ 3,661	\$ 268	\$ 3,929
Current service cost	52	5	57	54	5	59
Interest cost	123	10	133	118	9	127
Actuarial losses (gains)	360	20	380	(253)	(11)	(264)
Benefits paid	(158)	(14)	(172)	(180)	(15)	(195)
Curtailment losses (gains)	1	—	1	—	—	—
Plan amendments	—	—	—	(1)	—	(1)
Foreign exchange rate movement	(31)	(4)	(35)	59	6	65
Defined benefit obligation, December 31	\$ 3,805	\$ 279	\$ 4,084	\$ 3,458	\$ 262	\$ 3,720
Change in plan assets:						
Fair value of plan assets, January 1	\$ 3,253	\$ —	\$ 3,253	\$ 3,301	\$ —	\$ 3,301
Administrative expense	(1)	—	(1)	(1)	—	(1)
Interest income on plan assets	115	—	115	105	—	105
Return on plan assets (excluding amounts included in net interest expense)	306	—	306	(156)	—	(156)
Employer contributions	111	14	125	127	15	142
Benefits paid	(158)	(14)	(172)	(180)	(15)	(195)
Foreign exchange rate movement	(30)	—	(30)	57	—	57
Fair value of plan assets, December 31	\$ 3,596	\$ —	\$ 3,596	\$ 3,253	\$ —	\$ 3,253
Amounts recognized on Statement of Financial Position:						
Fair value of plan assets	\$ 3,596	\$ —	\$ 3,596	\$ 3,253	\$ —	\$ 3,253
Defined benefit (obligation)	(3,805)	(279)	(4,084)	(3,458)	(262)	(3,720)
Net recognized (liability) asset, December 31	\$ (209)	\$ (279)	\$ (488)	\$ (205)	\$ (262)	\$ (467)
Components of net benefit expense recognized:						
Current service cost	\$ 52	\$ 5	\$ 57	\$ 54	\$ 5	\$ 59
Administrative expense	1	—	1	1	—	1
Net interest expense (income)	8	10	18	13	9	22
Curtailment losses (gains)	1	—	1	—	—	—
Plan amendments	—	—	—	(1)	—	(1)
Other long-term employee benefit losses (gains)	—	5	5	—	(3)	(3)
Net benefit expense	\$ 62	\$ 20	\$ 82	\$ 67	\$ 11	\$ 78
Remeasurement of net recognized (liability) asset:						
Return on plan assets (excluding amounts included in net interest expense)	\$ 306	\$ —	\$ 306	\$ (156)	\$ —	\$ (156)
Actuarial gains (losses) arising from changes in demographic assumptions	28	1	29	7	(2)	5
Actuarial gains (losses) arising from changes in financial assumptions	(393)	(18)	(411)	241	8	249
Actuarial gains (losses) arising from experience adjustments	5	2	7	5	2	7
Foreign exchange rate movement	2	4	6	(2)	(2)	(4)
Components of defined benefit costs recognized in Other comprehensive income (loss)	\$ (52)	\$ (11)	\$ (63)	\$ 95	\$ 6	\$ 101

## 25.C Principal Assumptions for Significant Plans

	2019			2018		
	Canada %	UK %	U.S. %	Canada %	UK %	U.S. %
To determine defined benefit obligation at end of year:						
Discount rate for pension plans	3.00	2.00	3.45	3.60	2.85	4.40
Rate of compensation increase	3.00	n/a	n/a	3.00	n/a	n/a
Pension increases	0.00-0.15	2.95	n/a	0.00-0.15	3.15	n/a
To determine net benefit expense for year:						
Discount rate for pension plans	3.60	2.85	4.40	3.40	2.30	3.70
Rate of compensation increase	3.00	n/a	n/a	3.10	n/a	n/a
Pension increases	0.00-0.15	3.15	n/a	0.00-0.15	3.50	n/a
Health care trend rates:						
Initial health care trend rate	5.36	n/a	6.50	5.42	n/a	6.50
Ultimate health care trend rate	4.50	n/a	5.00	4.50	n/a	5.00
Year ultimate health care trend rate reached	2030	n/a	2025	2030	n/a	2023

	2019			2018		
	Canada	UK	U.S.	Canada	UK	U.S.
Mortality rates:						
Life expectancy (in years) for individuals currently at age 65:						
Male	23	23	22	23	24	23
Female	25	24	24	25	25	24
Life expectancy (in years) at 65 for individuals currently at age 45:						
Male	24	25	24	24	25	24
Female	26	27	25	26	28	26
Average duration (in years) of pension obligation	16.7	16.6	13.4	17.3	16.9	12.2

### Discount Rate, Rate of Compensation Increase and Health Care Cost

The major economic assumptions which are used in determining the actuarial present value of the accrued benefit obligations vary by country.

The discount rate assumption used for material plans is determined by reference to the market yields, as of December 31, of high-quality corporate bonds that have terms to maturity approximating the terms of the related obligation. In countries where a deep corporate market does not exist, government bonds are used. Compensation and health care trend assumptions are based on expected long-term trend assumptions which may differ from actual results.

## 25.D Sensitivity of Key Assumptions

The following table provides the potential impact of changes in key assumptions on the defined benefit obligation for pension and other post-retirement benefit plans as at December 31, 2019. These sensitivities are hypothetical and should be used with caution. The impact of changes in each key assumption may result in greater than proportional changes in sensitivities.

	Pension	Post-retirement benefits
Interest/discount rate sensitivity: <sup>(1)</sup>		
1% decrease	\$ 690	\$ 36
1% increase	\$ (537)	\$ (30)
Rate of compensation increase assumption:		
1% decrease	\$ (78)	n/a
1% increase	\$ 81	n/a
Health care trend rate assumption:		
1% decrease	n/a	\$ (14)
1% increase	n/a	\$ 17
Mortality rates: <sup>(2)</sup>		
10% decrease	\$ 99	\$ 7

(1) Represents a parallel shift in interest rates across the entire yield curve, resulting in a change in the discount rate assumption.

(2) Represents 10% decrease in mortality rates at each age.

## 25.E Fair Value of Plan Assets

Composition of fair value of plan assets, December 31:

	2019	2018
Equity investments	3%	3%
Fixed income investments	77%	76%
Real estate investments	7%	8%
Qualifying insurance contract	8%	9%
Other	5%	4%
<b>Total composition of fair value of plan assets</b>	<b>100%</b>	<b>100%</b>

The fair value of our equity investments in 2019 and 2018 are consistent with Level 1 or Level 2 fair value hierarchy. In 2019, 3% of our fixed income investments (2% in 2018) are determined based on valuation techniques consistent with Level 1 of the fair value hierarchy.

The assets of the defined benefit pension plans are primarily held in trust for plan members, and are managed within the provisions of each plan's investment policies and procedures. Diversification of the investments is used to limit credit, market, and foreign currency risks. We have significantly de-risked the investments of our material defined benefit pension plans by shifting the pension asset mix away from equities and into more fixed income and liability-matching investments. In 2018, the risk in our UK pension plan was reduced through a buy-in insurance contract, protecting the majority of pensioner benefits. The long-term investment objectives of the defined benefit pension plans are to equal or exceed the rate of growth of the liabilities. Over shorter periods, the objective of the defined benefit pension plan investment strategy is to minimize volatility in the funded status. Liquidity is managed with consideration to the cash flow requirements of the liabilities.

## 25.F Future Cash Flows

The following tables set forth the expected contributions and expected future benefit payments of the defined benefit pension and other post-retirement benefit plans:

	Pension	Post-retirement	Total
Expected contributions for the next 12 months	\$ 84	\$ 16	\$ 100

### Expected Future Benefit Payments

	2020	2021	2022	2023	2024	2025 to 2029
Pension	\$ 149	\$ 155	\$ 159	\$ 167	\$ 170	\$ 924
Post-retirement	16	16	17	17	17	93
<b>Total</b>	<b>\$ 165</b>	<b>\$ 171</b>	<b>\$ 176</b>	<b>\$ 184</b>	<b>\$ 187</b>	<b>\$ 1,017</b>

## 25.G Defined Contribution Plans

We expensed \$131 in 2019 (\$120 for 2018) with respect to defined contribution plans.

## 26. Earnings (Loss) Per Share

Details of the calculation of the net income (loss) and the weighted average number of shares used in the earnings per share computations are as follows:

For the years ended December 31,	2019	2018
Common shareholders' net income (loss) for basic earnings per share	\$ 2,618	\$ 2,522
Add: Increase in income due to convertible instruments <sup>(1)</sup>	10	10
Common shareholders' net income (loss) on a diluted basis	\$ 2,628	\$ 2,532
Weighted average number of common shares outstanding for basic earnings per share (in millions)	592	606
Add: Dilutive impact of stock options <sup>(2)</sup> (in millions)	1	1
Add: Dilutive impact of convertible instruments <sup>(1)</sup> (in millions)	4	4
Weighted average number of common shares outstanding on a diluted basis (in millions)	597	611
Basic earnings (loss) per share	\$ 4.42	\$ 4.16
Diluted earnings (loss) per share	\$ 4.40	\$ 4.14

(1) The convertible instruments are the SLEECs B issued by SL Capital Trusts.

(2) Excludes the impact of 1 million stock options for the year ended December 31, 2019 (1 million for the year ended December 31, 2018) because these stock options were anti-dilutive for the period.

## 27. Accumulated Other Comprehensive Income (Loss)

Changes in accumulated other comprehensive income (loss), net of taxes, are as follows:

For the years ended December 31,	2019			2018		
	Balance, beginning of period	Other comprehensive income (loss)	Balance, end of period	Balance, beginning of period	Other comprehensive income (loss)	Balance, end of period
Items that may be reclassified subsequently to income:						
Unrealized foreign currency translation gains (losses), net of hedging activities	\$ 1,923	\$ (564)	\$ 1,359	\$ 1,012	\$ 911	\$ 1,923
Unrealized gains (losses) on available-for-sale assets	(56)	369	313	346	(402)	(56)
Unrealized gains (losses) on cash flow hedges	(21)	14	(7)	(11)	(10)	(21)
Share of other comprehensive income (loss) in joint ventures and associates	(24)	(9)	(33)	(31)	7	(24)
Items that will not be reclassified subsequently to income:						
Remeasurement of defined benefit plans	(263)	(42)	(305)	(347)	84	(263)
Revaluation surplus on transfers to investment properties	145	-	145	145	-	145
<b>Total</b>	<b>\$ 1,704</b>	<b>\$ (232)</b>	<b>\$ 1,472</b>	<b>\$ 1,114</b>	<b>\$ 590</b>	<b>\$ 1,704</b>
Total attributable to:						
Participating policyholders	\$ 14	\$ (3)	\$ 11	\$ 9	\$ 5	\$ 14
Shareholders	1,690	(229)	1,461	1,105	585	1,690
<b>Total</b>	<b>\$ 1,704</b>	<b>\$ (232)</b>	<b>\$ 1,472</b>	<b>\$ 1,114</b>	<b>\$ 590</b>	<b>\$ 1,704</b>

# *Annual Information Form*

Sun Life Financial Inc.

For the Year Ended December 31, 2019

February 12, 2020

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<sup>(1)</sup> As indicated, parts of the Company's MD&A, consolidated financial statements and accompanying notes for the year ended December 31, 2019 are incorporated by reference in this AIF. The 2019 MD&A (as defined below) and the 2019 Consolidated Financial Statements (as defined below) may be accessed at [www.sedar.com](http://www.sedar.com) and [www.sec.gov](http://www.sec.gov), respectively.

The following defined terms are used in this document.

Abbreviation	Description	Abbreviation	Description
<b>AIF</b>	Annual Information Form	<b>OSFI</b>	Office of the Superintendent of Financial Institutions, Canada
<b>IFRS</b>	International Financial Reporting Standards	<b>SEC</b>	United States Securities and Exchange Commission
<b>LICAT</b>	Life Insurance Capital Adequacy Test	<b>Sun Life Assurance</b>	Sun Life Assurance Company of Canada
<b>MD&amp;A</b>	Management's Discussion & Analysis	<b>SLF Inc.</b>	Sun Life Financial Inc.
<b>NAIC</b>	National Association of Insurance Commissioners, United States	<b>Superintendent</b>	The Superintendent under the Office of the Superintendent of Financial Institutions Act
<b>OECD</b>	The Organization for Economic Cooperation and Development		

## Presentation of Information

In this AIF, SLF Inc. and its consolidated subsidiaries are collectively referred to as "Sun Life", the "Company", "we", "us" or "our" and also includes, where applicable, our joint ventures and associates.

Unless otherwise indicated, all information in this AIF is presented as at and for the year ended December 31, 2019, and amounts are expressed in Canadian dollars. Financial information is presented in accordance with IFRS and the accounting requirements of OSFI.

## Documents Incorporated by Reference

The following documents are incorporated by reference in and form part of this AIF:

- (i) SLF Inc.'s MD&A for the year ended December 31, 2019 (our "2019 MD&A"), and
- (ii) SLF Inc.'s Consolidated Financial Statements and accompanying notes for the year ended December 31, 2019 (our "2019 Consolidated Financial Statements").

These documents have been filed with securities regulators in Canada and with the SEC and may be accessed at [www.sedar.com](http://www.sedar.com) and [www.sec.gov](http://www.sec.gov), respectively.

## Forward-looking Statements

Certain statements in this AIF and the documents incorporated by reference herein including, (i) statements relating to our strategies, (ii) statements that are predictive in nature, (iii) statements that depend upon or refer to future events or conditions, and (iv) statements that include words such as "achieve", "aim", "ambition", "anticipate", "aspiration", "assumption", "believe", "could", "estimate", "expect", "goal", "intend", "may", "objective", "outlook", "plan", "project", "seek", "should", "initiatives", "strategy", "strive", "target", "will" and similar expressions are forward-looking statements. Forward-looking statements include information concerning our possible or assumed future results of operations. These statements represent our current expectations, estimates and projections regarding future events and are not historical facts. Forward-looking statements are not a guarantee of future performance and involve risks and uncertainties that are difficult to predict. Future results and shareholder value may differ materially from those expressed in these forward-looking statements due to, among other factors, the matters set out in this AIF under Risk Factors and in our annual MD&A under the heading Forward-looking Statements and the factors detailed in our annual and interim financial statements and other filings with Canadian and U.S. securities regulators, which are available for review at [www.sedar.com](http://www.sedar.com) and [www.sec.gov](http://www.sec.gov), respectively.

Important risk factors that could cause our assumptions and estimates, and expectations and projections to be inaccurate and our actual results or events to differ materially from those expressed in or implied by the forward-looking statements contained in this document, are set out below. The realization of our forward-looking statements, essentially depends on our business performance which, in turn, is subject to many risks. Factors that could cause actual results to differ materially from expectations include, but are not limited to: **market risks** - related to the performance of equity markets; changes or volatility in interest rates or credit spreads or swap spreads; real estate investments; and fluctuations in foreign currency exchange rates; **insurance risks** - related to policyholder behaviour; mortality experience, morbidity experience and longevity; product design and pricing; the impact of higher-than-expected future expenses; and the availability, cost and effectiveness of reinsurance; **credit risks** - related to issuers of securities held in our investment portfolio, debtors, structured securities, reinsurers, counterparties, other financial institutions and other entities; **business and strategic risks** - related to global economic and political conditions; the design and implementation of business strategies; changes in distribution channels or Client behaviour including risks relating to market conduct by intermediaries and agents; the impact of competition; the performance of our investments and investment portfolios managed for Clients such as segregated and mutual funds; changes in the legal or regulatory environment, including capital requirements and tax laws; the environment, environmental laws and regulations; tax matters, including estimates and judgments used in calculating taxes; our international operations, including our joint ventures; market conditions that affect our capital position or ability to raise capital; downgrades in financial strength or credit ratings and the impact of mergers, acquisitions and divestitures; **operational risks** - related

to breaches or failure of information system security and privacy, including cyber-attacks; our ability to attract and retain employees; legal, regulatory compliance and market conduct, including the impact of regulatory inquiries and investigations; the execution and integration of mergers, acquisitions, strategic investments and divestitures; our information technology infrastructure; a failure of information systems and Internet-enabled technology; dependence on third-party relationships, including outsourcing arrangements; business continuity; model errors; information management; and **liquidity risks** - the possibility that we will not be able to fund all cash outflow commitments as they fall due.

The Company does not undertake any obligation to update or revise its forward-looking statements to reflect events or circumstances after the date of this document or to reflect the occurrence of unanticipated events, except as required by law.

## Corporate Structure

SLF Inc. was incorporated under the Insurance Companies Act, Canada (the “Insurance Act”) on August 5, 1999, to become the holding company of Sun Life Assurance in connection with the demutualization of Sun Life Assurance.

Sun Life Assurance was incorporated in 1865 as a stock insurance company and was converted into a mutual insurance company in 1962. On March 22, 2000, Sun Life Assurance implemented a plan of demutualization under which it converted back to a stock company pursuant to Letters Patent of Conversion issued under the Insurance Act. Under this plan of demutualization, Sun Life Assurance became a wholly-owned subsidiary of SLF Inc.

The head and registered office of SLF Inc. is located at 1 York Street, Toronto, Ontario, M5J 0B6.

SLF Inc. conducts its business worldwide through direct and indirect operating subsidiaries, joint ventures and associates. SLF Inc.’s principal subsidiaries are included in the subsidiaries listed in SLF Inc.’s annual report and that list of subsidiaries is incorporated herein by reference. That list includes the percentage of voting shares owned by SLF Inc., directly or indirectly, and where those companies are incorporated, continued, formed or organized. SLF Inc.’s current annual report is accessible on [www.sedar.com](http://www.sedar.com), [www.sec.gov](http://www.sec.gov) and [www.sunlife.com](http://www.sunlife.com).

We manage our operations and report our financial results in five business segments: Canada, United States (“U.S.”), Asset Management, Asia and Corporate.

## Development of the Business

Sun Life is a leading international financial services organization providing insurance, wealth and asset management solutions to individual and corporate Clients. Sun Life has operations in a number of markets worldwide, including Canada, the United States, the United Kingdom (“UK”), Ireland, Hong Kong, the Philippines, Japan, Indonesia, India, China, Australia, Singapore, Vietnam, Malaysia and Bermuda. As of December 31, 2019, Sun Life had total assets under management of \$1.1 trillion.

## Three Year History: Acquisitions, Disposals, and Other Developments

We assess our businesses and corporate strategies on an ongoing basis to ensure that we make optimal use of our capital and provide maximum shareholder value. The following summary outlines our major acquisitions, dispositions and other developments in the past three years in our business segments. Additional information is provided in Note 3 to SLF Inc.’s 2019 Consolidated Financial Statements.

### Canada

In January 2018, we acquired Excel Funds Management Inc. and Excel Investment Counsel Inc., a Canadian firm specializing in the emerging markets asset class.

### U.S.

In June 2018, we acquired Maxwell Health, a Boston based start-up with a comprehensive employee benefits platform.

Effective January 1, 2018, our International business unit was transferred from the U.S. to Asia.

In November 2017, we formed a strategic relationship with CollectiveHealth, Inc., which is built around an advanced technology platform. Together, we aim to transform the benefits experience for self-funded employers and their employees in the U.S. by integrating stop-loss protection with health and other employee benefits and pooling our data analytics capabilities to serve Clients better.

In October 2017, we launched the new Sun Life Dental Network®, enabling employers to provide competitive coverage with a widespread national Preferred Provider Organization that allows employees to locate participating dentists. Our dental network also includes the Premier Dental Group, Inc., which was acquired in 2017 and has helped us grow in key markets in the U.S.

## Asset Management

In December 2019, we entered into an agreement to acquire a majority stake in InfraRed Capital Partners (“InfraRed”), a global infrastructure and real estate investment manager. InfraRed will form part of SLC Management, our institutional asset management business, following the completion of the transaction. The transaction is subject to regulatory approvals and customary closing conditions and is expected to close in the first half of 2020.

In July 2019, we completed the acquisition of a majority stake in BentallGreenOak, forming the real estate pillar of SLC Management. For additional information, refer to Note 3 of our 2019 Consolidated Financial Statements.

## Asia

### Hong Kong

In December 2018, we completed a strategic investment in Bowtie Life Insurance Company Limited (“Bowtie”). Bowtie offers insurance products in or from Hong Kong through its digital distribution channels without the use of any conventional channels involving insurance agents, banks or insurance brokers.

In October 2017, we completed the first stage of our acquisition of the pension business of FWD Life Insurance Company (Bermuda) Limited (“FWD”) for total consideration of approximately \$105 million. The first stage included the acquisition of the Mandatory Provident Fund business and the commencement of an exclusive 15-year distribution agreement with FWD that allows Sun Life Hong Kong Limited to distribute its pension products through FWD’s agency force in Hong Kong. The completion of the second and final stage of the transaction involves the purchase of the Occupational Retirement Schemes Ordinance business of FWD, and is expected to close in 2020, subject to the receipt of regulatory approvals and satisfaction of customary closing conditions.

### Malaysia

In May 2017, we signed a 10-year arrangement with CIMB Principal Asset Management (“CPAM”), enabling Sun Life Malaysia to fast track the launch of its agency channel through CPAM’s 8,000 agents and over 300,000 Clients. In addition, we also announced an arrangement with U Mobile, one of Malaysia’s fastest growing telecommunication companies, to offer life insurance via a telco service.

### Vietnam

In October 2019, we entered into a 15-year bancassurance partnership with Tien Phong Commercial Bank, a digital leader in Vietnamese banking.

In April 2017, we acquired an ownership interest in Crescent Asia Limited, the holding company of Global Online Financial Solutions, which operates TIMO, Vietnam’s first digital bank. In addition, we entered into a three-year arrangement with TIMO to offer the life and health insurance products of Sun Life Vietnam Insurance Company Limited to TIMO’s membership base.

## International

Effective January 1, 2018, our International business unit was transferred from the U.S. to Asia.

## Business of Sun Life

Information about our business and operating segments, our strategy, products and methods of distribution, risk management policies and investment activities, is included in the 2019 MD&A, which is incorporated by reference in this AIF.

The global financial services industry continues to evolve in response to demographic, economic and technological trends. Specific trends that have an impact on our businesses include:

### Demographic

- Major demographic shifts in developed markets include the aging of baby boomers and the growth of millennials. Aging baby boomers are generating greater demand for retirement solutions and health solutions as they retire, while millennials seek holistic financial advice and solutions, including protection and wealth accumulation products in preparation for life events.
- An increasing download of responsibility from governments and employers to individuals has created demand for protection, group benefits and group retirement solutions as individuals seek to fill the gaps. To help them make some of these decisions, consumers are seeking financial advice and assistance with financial planning.
- The growing prosperity in Asia is resulting in the rise of the young middle class in Asian countries, which is increasing the demand for a wide variety of financial products, including insurance, savings and investment vehicles. Low financial literacy has also increased the importance of financial education and advice in this region. These markets have low penetration rates and are expected to grow much faster than industrialized countries. In certain Asian markets such as Hong Kong and China, the aging population is creating a growing opportunity for retirement and health solutions.

- Changes in the nature of work and the rise of the gig economy, where work is temporary, contractual or project-based, has created an opportunity to provide solutions to workers who are left unsupported across key life needs, e.g. savings, benefits, protection.
- Consumers are more proactively managing both physical and mental health, leading to an increased demand for health and wellness solutions.
- Desire for greater transparency has caused consumers to question the value exchange with organizations. This has resulted in an increase in demand for low-cost asset management products, such as index funds.

### Economic

- While we have seen an improvement in economic conditions in recent years across many of our main markets (including Canada, U.S. and Asia), we believe we are entering a period of increased economic, market, and geo-political volatility.
- Low interest rates are increasing the difficulty for investors to get higher yield with relatively lower risk investments. In search for greater returns, investors are seeking alternatives, which offer greater yield in exchange for illiquidity, in order to meet their target returns.
- Economic growth is slowing and we see increasing uncertainty from ongoing trade disputes. This situation has a cascading effect on economies across various markets where Sun Life operates. We are monitoring the situation continuously and are ready to take actions as needed to minimize impact.

### Technological

- Digital adoption continues to grow rapidly as consumers spend an increasing amount of time on mobile for everyday needs, e.g. social, shopping and banking. Omni-channel capabilities will become more important to create a consistent Client experience across channels and to serve Clients in their channel of choice.
- Increasing personalization using data and analytics are allowing companies to create a frictionless digital user experience as they are able to better engage with Clients and meet their needs.
- Consumers continue to transfer expectations from technology companies to financial services. A seamless digital experience and personalization of advice and services will be increasingly important in creating better experiences and outcomes for Clients.
- Consumers are becoming more concerned about the protection and use of their data in an environment of increasing collection and use of their data and data breaches. Meeting those Client concerns and expectations will be key to maintaining their trust.

### Competition

The markets in which Sun Life participates are highly competitive. We compete against other insurance companies, banks, asset managers, mutual fund companies, financial planners and other financial services providers. Frequently, competition is based on factors including price, the ability to provide value-added products and services, financial strength and consistent delivery of an excellent experience to distributors and Clients through both traditional and more innovative digital channels.

Sustained low investment yields (and tightening investment spreads) and evolving regulatory requirements continue to be challenges for our industry and have forced insurers and financial services providers to review their businesses, re-focus their operations and in some cases discontinue or divest non-core lines of business, as well as acquire businesses with higher growth potential.

We also face increasing competition from new market entrants (including non-traditional service providers such as insurtech and fintech companies) and incumbents that have partnered with start-ups as they compete in new and innovative ways that could challenge existing insurance, asset management and wealth management business models. In addition, big technology companies are entering the financial services market by leveraging their large customer base and digital ecosystems that offer interconnected services. Sun Life continues to explore new business models and seek strategic partnerships that will drive our businesses forward.

In Canada, the federal government is examining the merits of open banking, which is an example of data portability for banking transactions under which clients of banks can ask their financial institution to securely transfer or provide access to their personal data to an authorized third-party service provider, such as a fintech. A number of countries have introduced, or are moving to introduce, open banking or data portability rights with the aim of increasing competition and innovation in the financial services sector. We are continuing to monitor how data portability and any privacy and security issues will impact the financial services industry.

In addition to closely monitoring potential business disruptors, we also continuously adapt by making investments in technology and advanced analytics, and building digital services and tools. Below are some examples of how we are adapting in these key areas:

- Digitizing current interactions and processes: Web and mobile functionality in Canada and Asia; online dental provider access in the U.S.
- Using data & analytics to be personal, predictive and proactive: Digital Benefits Assistant and Ella in Canada; Maxwell Health, a digital benefits marketplace, for voluntary benefits enrolment the U.S.
- Building new business models: Lumino Health, which allows all Canadians to access provider search and discover innovative health solutions; direct business models in Asia, including offerings for telcom customers.
- Building a partnership ecosystem: Making strategic investments in early stage collaborations (e.g. Bowtie, Hong Kong's

first virtual insurer licensed by the Insurance Authority of Hong Kong); investing in key technologies to drive global growth.

The markets in which we compete are diverse and at different stages of development:

- In Canada, the financial services industry is relatively mature and the three largest life insurance companies serve more than two-thirds of the Canadian life insurance and group benefits markets. In the wealth space, we also face competition from Canadian retail banks and investment dealers, and also from emerging disruptors such as “robo-advisors”.
- In the United States, the largest insurance market in the world, the market is more fragmented and characterized by a large number of competitors. We face strong competition from established players in the group life and disability, dental, vision, stop-loss, and voluntary markets, all of which are markets with a number of competitors. In the turn-key disability market, there are two other primary competitors and competition is expected to remain stable.
- In Asia, the life insurance market in countries where we participate are still evolving. The growth potential for insurance in Asian markets, has created strong competition from both domestic and international insurers. We are observing the larger pan-Asian insurers grow at the fastest rate, with consolidation occurring in many markets. Additionally, many of the Asian markets that we operate in have foreign ownership restrictions, and this may place constraints on our ability to operate or grow in these markets. In the international high net worth life insurance market (which we moved from the U.S. to Asia), competition is increasing from the main competitors who operate in this business.
- In Asset Management, despite some consolidation, we face strong competition from a variety of players including large global asset managers, small local managers specializing in niche markets / products, multi-national and local banks as well as other insurance companies. In addition, there has been a trend among retail and institutional investors towards lower-cost passive investment products, including index and other types of exchange-traded funds, which has led to a decreased allocation of investor assets to active investment strategies. At the same time, there has been an increased demand for fixed-income, liability-driven investing and yield-oriented alternative products among institutional and high net worth investors.

## Seasonality

Some of our businesses are subject to seasonal factors. In Canada, sales of investment products spike during the first quarter of the year due to a contribution deadline for Registered Retirement Savings Plans. Timing of sales campaigns also influences sales of individual products in Canada and Asia. In the U.S., the sales pattern of our group life and health business largely reflects the renewal timing of employee benefit plans of our corporate Clients, many of which begin on January 1 each year. This often results in higher sales in the fourth quarter. In India, the sales of individual insurance products usually peak in the first quarter of each year due to tax planning by Clients. Overall, the impact of seasonal trends is not material to Sun Life.

## Number of Employees

As at December 31, 2019, we had 22,719 full-time equivalent employees across our operations excluding joint ventures and associates.

Business Segment	Employees <sup>(1)</sup>
Canada	6,891
U.S.	3,674
Asset Management	3,254
Asia	4,207
Corporate <sup>(2)</sup>	4,689

<sup>(1)</sup> Excludes temporary staff.

<sup>(2)</sup> Corporate includes the operations of our UK business unit, investments, enterprise services.

## Sustainability Commitment

Sustainability is an important focus for our Company and is essential to our overall business success. Our Purpose is to help our Clients achieve lifetime financial security and live healthier lives. Our Sustainability Plan helps us bring this Purpose to life.

Building on our previous strategy and updated in 2019, Sun Life’s Sustainability Plan was developed with internal and external stakeholder input and was approved by the Governance, Nomination & Investment Committee of the SLF Inc. Board of Directors. In 2020 and beyond, the new plan will guide our efforts to advance sustainability through our products, services and investments. While continuing to deliver on our commitment to be a trusted and responsible business, our new Sustainability Plan focuses on three areas where we have the greatest opportunity to have a positive impact on society, and create a competitive advantage for our business: sustainable investing, financial security and healthier lives. Our recent accomplishments are well-aligned with our new focus areas.

In 2019, Sun Life issued its inaugural sustainability bond - a first among life insurance companies globally. An amount equivalent to the net proceeds from this \$750 million offering will be used to finance or re-finance, in whole or in part, new and/or existing green or social assets that meet the eligibility criteria set out in Sun Life’s Sustainability Bond Framework. The Sustainability Bond

Framework is aligned with the International Capital Markets Association's Sustainability Bond Guidelines. Examples of potentially eligible sustainable investments include investments in renewable energy, energy efficiency, green buildings, clean transportation, sustainable water management, and access to essential services.

Sun Life remains committed to greenhouse gas emissions reduction targets across our corporate real estate and real estate investment portfolios. We are on track to achieve targeted reductions of 20% per square foot by the end of 2020 and 30% per square foot by 2030, relative to a 2014 baseline.

Sun Life Assurance was the first major Canadian life insurer to sign on to the United Nations-supported Principles for Responsible Investment. MFS Investment Management ("MFS"), SLC Management and BentalGreenOak have also adopted these Principles.

Sun Life is a supporter of the Task Force on Climate-related Financial Disclosures, and a member of the United Nations Environment Programme Finance Initiative and the Canadian Council for Clean Capitalism. We also support and participate in several other sustainability-related forums, meetings and discussions with a range of external stakeholders. Sun Life ranked among the 2019 Global 100 Most Sustainable Corporations in the World. This was the 10<sup>th</sup> consecutive year Sun Life was named to the ranking, and we were the only Canadian insurance company to appear on the list, ranked ahead of all other insurance companies. Sun Life was also included on the Dow Jones Sustainability Index - North America, and continues to be a constituent in the FTSE4Good Index.

Our commitment to sustainability is set out in our Code of Business Conduct which applies to all employees and directors. The Governance, Nomination & Investment Committee of the SLF Inc. Board of Directors reviews and approves our enterprise sustainability policy and annual sustainability report, receives annual reports on our sustainability program and initiatives and ensures our approach to sustainability is consistent with our corporate strategy. At the management level, our International Sustainability Council is composed of senior representatives from a diverse range of geographic regions, business groups and functions. This Council supports the implementation of our Sustainability Plan and is responsible for advocacy and awareness of sustainability across the enterprise. The Council works closely with the Sustainability team on strategy and policy development and monitoring, and risk escalation. The Council meets regularly and reports progress to our senior executive management and to the Governance, Nomination & Investment Committee.

Additional details on our Sustainability Plan, and our most recent Sustainability Report, can be found on our website at [www.sunlife.com/Sustainability](http://www.sunlife.com/Sustainability).

## Capital Structure

### General

SLF Inc.'s authorized capital consists of unlimited numbers of Common Shares, Class A Shares and Class B Shares, each without nominal or par value.

The Class A Shares and Class B Shares may be issued in series as determined by SLF Inc.'s Board of Directors. The Board of Directors is authorized to fix the number, consideration per share, designation and rights and restrictions attached to each series of shares. The holders of Class A Shares and Class B Shares are not entitled to any voting rights except as described below or as otherwise provided by law. Additional information concerning our capital structure is included in SLF Inc.'s 2019 MD&A under the heading Capital and Liquidity Management and in Notes 13-15 and 21 to the 2019 Consolidated Financial Statements.

### Common Shares

SLF Inc.'s Common Shares are listed on the Toronto, New York and Philippines stock exchanges, under the ticker symbol "SLF". Each Common Share is entitled to one vote at meetings of the shareholders of SLF Inc., except for meetings at which only holders of another specified class or series of shares are entitled to vote separately as a class or series.

Common Shares are entitled to receive dividends if and when declared by the Board of Directors. Dividends must be declared and paid in equal amounts per share on all Common Shares, subject to the rights of holders of the Class A Shares and Class B Shares. Holders of Common Shares will participate in any distribution of the net assets of SLF Inc. upon its liquidation, dissolution or winding-up on an equal basis per share, subject to the rights of the holders of the Class A Shares and Class B Shares. There are no pre-emptive, redemption, purchase or conversion rights attaching to the Common Shares.

### Class A Shares

The Class A Shares of each series rank on parity with the Class A Shares of each other series with respect to the payment of dividends and the return of capital on the liquidation, dissolution or winding-up of SLF Inc. The Class A Shares are entitled to preference over the Class B Shares, the Common Shares and any other shares ranking junior to the Class A Shares with respect to the payment of dividends and the return of capital. The special rights and restrictions attaching to the Class A Shares as a class may not be amended without such approval as may then be required by law, subject to a minimum requirement of approval by the affirmative vote of at least two-thirds of the votes cast at a meeting of the holders of Class A Shares held for that purpose.

The following table provides information on SLF Inc.'s issued and outstanding Class A Shares (the "Class A Preferred Shares"). These Class A Preferred Shares are listed on the Toronto Stock Exchange ("TSX").

## Class A Preferred Shares

Series	Number of Shares Issued	TSX Ticker Symbol	Quarterly Dividend (\$)	Redemption Date	Prospectus Date
Series 1	16,000,000	SLF.PR.A	0.296875	Any time	February 17, 2005
Series 2	13,000,000	SLF.PR.B	0.300000	Any time	July 8, 2005
Series 3	10,000,000	SLF.PR.C	0.278125	Any time	January 6, 2006
Series 4	12,000,000	SLF.PR.D	0.278125	Any time	October 2, 2006
Series 5	10,000,000	SLF.PR.E	0.281250	Any time	January 25, 2007
Series 8R	5,192,686	SLF.PR.G	0.142188	June 30, 2020	May 13, 2010
Series 9QR	6,007,314	SLF.PR.J	Floating	June 30, 2020	May 13, 2010
Series 10R	6,919,928	SLF.PR.H	0.177625	September 30, 2021	August 5, 2011
Series 11QR	1,080,072	SLF.PR.K	Floating	September 30, 2021	August 5, 2011
Series 12R	12,000,000	SLF.PR.I	0.237875	December 31, 2021	November 3, 2011

The shares in each series of Class A Preferred Shares were issued for \$25 per share and holders are entitled to receive the non-cumulative quarterly dividends outlined in the preceding table. Subject to regulatory approval, SLF Inc. may redeem: (i) the Series 1, 2, 3, 4 or 5 shares at any time; (ii) the Series 8R, 9QR, 10R, 11QR and 12R on the redemption date noted above and every five years thereafter for \$25 per share; and (iii) the Series 9QR and 11QR at any other time for \$25.50 per share, in each case in whole or in part. Additional information concerning these shares is contained in the Investor Relations section of [www.sunlife.com](http://www.sunlife.com) and in the prospectus and prospectus supplement under which the shares were issued, which may be accessed at [www.sedar.com](http://www.sedar.com).

**Class B Shares**

The Class B Shares of each series rank on a parity with the Class B Shares of each other series with respect to the payment of dividends and the return of capital on the liquidation, dissolution or winding-up of SLF Inc. The Class B Shares are entitled to preference over the Common Shares and any other shares ranking junior to the Class B Shares with respect to the payment of dividends and the return of capital, but are subordinate to the Class A Shares and any other shares ranking senior to the Class B Shares with respect to the payment of dividends and return of capital. The special rights and restrictions attaching to the Class B Shares as a class may not be amended without such approval as may then be required by law, subject to a minimum requirement of approval by the affirmative vote of at least two-thirds of the votes cast at a meeting of the holders of Class B Shares held for that purpose. No Class B Shares have been issued.

**Constraints on Shares**

The Insurance Act contains restrictions on the purchase or other acquisition, issue, transfer and voting of the shares of SLF Inc. and Sun Life Assurance. Information on those restrictions can be found in this AIF under the heading Regulatory Matters - Canada - Restrictions on Ownership.

**Market for Securities**

The following tables set out the price range and trading volumes of SLF Inc.'s Common Shares and Class A Preferred Shares on the TSX during 2019:

Common Shares	Price (\$)			Trading volume (thousands)
	High	Low	Close	
January	48.95	44.43	47.40	28,207
February	51.22	46.12	49.82	46,198
March	52.23	50.00	51.34	47,864
April	55.87	51.64	55.66	24,642
May	55.97	52.27	52.46	36,875
June	54.43	51.86	54.23	26,005
July	55.95	54.20	54.84	17,921
August	54.79	51.19	54.57	30,640
September	59.73	53.98	59.24	26,823
October	59.83	56.62	59.09	21,160
November	61.91	59.04	60.61	27,627
December	60.60	58.23	59.21	24,562

## Class A Preferred Shares

	Series 1				Series 2			
	Price (\$)			Trading volume (thousands)	Price (\$)			Trading volume (thousands)
	High	Low	Close		High	Low	Close	
January	21.82	20.79	21.45	77	21.92	20.92	21.37	109
February	21.90	21.01	21.64	86	22.09	21.33	21.87	266
March	22.37	21.35	22.30	1,106	22.74	21.53	22.58	215
April	22.70	22.15	22.42	154	22.83	22.27	22.65	84
May	22.75	21.75	21.88	264	22.70	21.77	21.95	118
June	22.37	21.57	22.23	475	22.55	21.55	22.55	98
July	22.50	22.03	22.20	193	22.78	22.23	22.43	494
August	22.45	21.20	21.57	132	22.60	21.59	21.82	185
September	22.25	21.54	22.16	166	22.48	21.72	22.36	106
October	22.40	21.86	22.32	319	22.66	22.15	22.52	483
November	22.77	22.33	22.52	240	22.93	22.54	22.77	164
December	22.79	22.32	22.74	288	23.23	22.48	23.14	110

	Series 3				Series 4			
	Price (\$)			Trading volume (thousands)	Price (\$)			Trading volume (thousands)
	High	Low	Close		High	Low	Close	
January	20.52	19.75	20.19	96	20.60	19.82	20.20	105
February	20.85	20.09	20.59	123	20.96	20.09	20.58	92
March	21.23	20.31	21.19	109	21.25	20.30	21.22	587
April	21.35	20.98	21.09	71	21.35	21.01	21.10	103
May	21.41	20.46	20.55	117	21.31	20.35	20.46	232
June	21.20	20.35	20.99	64	20.97	20.17	20.89	52
July	21.55	20.93	21.04	130	21.45	20.58	21.07	127
August	21.18	19.98	20.34	149	21.12	20.00	20.17	205
September	21.22	20.25	21.00	88	21.02	20.02	20.91	334
October	21.38	20.65	21.07	66	21.19	20.57	21.05	149
November	21.48	21.10	21.18	119	21.48	21.09	21.21	173
December	21.54	21.02	21.34	78	21.54	21.07	21.44	86

	Series 5				Series 8R			
	Price (\$)			Trading volume (thousands)	Price (\$)			Trading volume (thousands)
	High	Low	Close		High	Low	Close	
January	20.58	19.81	20.32	102	16.03	14.38	14.45	91
February	20.90	20.15	20.68	76	15.35	14.36	15.19	117
March	21.29	20.31	21.20	61	15.25	14.08	14.48	219
April	21.48	21.01	21.09	89	15.31	14.54	15.00	219
May	21.25	20.42	20.52	109	15.01	13.62	13.70	112
June	21.20	20.30	20.93	126	13.90	13.15	13.51	95
July	22.00	20.82	21.10	86	14.24	13.53	13.67	214
August	21.20	20.31	20.60	302	13.76	12.05	12.90	92
September	21.33	20.58	21.15	176	13.52	12.69	12.90	119
October	21.51	20.84	21.39	423	13.51	12.41	13.30	125
November	21.61	21.24	21.32	75	13.90	12.91	12.99	104
December	21.50	21.13	21.49	102	13.69	12.70	13.52	219

	Series 9QR				Series 10R			
	Price (\$)			Trading volume (thousands)	Price (\$)			Trading volume (thousands)
	High	Low	Close		High	Low	Close	
January	15.67	14.27	14.64	160	18.58	17.05	17.31	147
February	15.26	14.47	14.93	87	18.00	17.41	17.80	94
March	15.38	13.88	14.43	184	17.98	16.86	17.53	297
April	15.20	14.40	14.90	88	18.00	17.39	17.70	84
May	15.10	13.95	13.95	97	17.88	16.05	16.05	173
June	13.95	13.26	13.75	287	16.49	15.10	16.49	60
July	13.95	13.20	13.59	133	16.65	16.00	16.38	63
August	13.62	12.00	12.79	147	16.40	14.62	16.20	254
September	13.54	12.60	13.10	76	16.15	15.49	15.70	163
October	13.59	12.22	13.30	174	16.60	15.41	15.81	168
November	13.91	12.68	12.78	138	16.81	15.77	15.90	119
December	13.40	12.35	13.40	181	16.70	15.25	16.69	157

	Series 11QR				Series 12R			
	Price (\$)			Trading volume (thousands)	Price (\$)			Trading volume (thousands)
	High	Low	Close		High	Low	Close	
January	18.50	17.41	17.41	9	21.84	19.50	20.30	102
February	18.02	17.24	17.95	6	20.90	20.06	20.90	177
March	18.01	16.86	16.86	6	21.20	20.08	21.07	298
April	17.75	17.29	17.75	8	21.25	20.70	20.99	143
May	17.70	16.60	16.62	21	21.02	19.00	19.10	175
June	16.41	15.11	15.95	35	19.40	18.27	19.37	106
July	16.85	15.65	16.58	65	19.54	18.88	19.32	148
August	16.62	14.90	15.24	31	19.43	17.01	18.16	461
September	16.00	15.44	15.68	17	18.90	17.75	18.46	330
October	16.44	15.28	16.20	29	18.78	18.00	18.72	256
November	16.70	16.05	16.05	26	18.93	18.15	18.21	177
December	16.28	15.25	16.25	33	19.14	17.89	18.98	244

## Sales of Unlisted Securities

SLF Inc. has issued the following unlisted securities since January 1, 2019:

On August 13, 2019, SLF Inc. issued \$750 million principal amount of Series 2019-1 Subordinated Unsecured 2.38% Fixed/Floating Debentures due 2029.

## Dividends

The declaration, amount and payment of dividends by SLF Inc. is subject to the approval of its Board of Directors and is dependent on our results of operations, financial condition, cash requirements, regulatory and contractual restrictions and other factors considered by the Board of Directors.

The dividends declared by SLF Inc. in the three years ended December 31, 2019 are set out in the 2019 MD&A under the heading Capital and Liquidity Management - Shareholder Dividends, which is incorporated by reference in this AIF.

The Insurance Act prohibits the declaration or payment of dividends on shares of an insurance company if there are reasonable grounds for believing a company does not have, or the payment of the dividend would cause the company not to have, adequate capital or liquidity, or upon any direction made by the Superintendent. The Insurance Act also requires that an insurance company notify the Superintendent of the declaration of a dividend at least fifteen days before the dividend payment date.

As a holding company, SLF Inc. depends primarily on the receipt of funds from its subsidiaries to pay shareholder dividends, interest payments and operating expenses. The source of these funds is primarily dividends and capital repayments that SLF Inc. receives from its subsidiaries. The inability of its subsidiaries to pay dividends or return capital in the future may materially impair SLF Inc.'s ability to pay dividends to shareholders or to meet its cash obligations. Additional information concerning legislation regulating the ability of SLF Inc.'s subsidiaries in Canada, the U.S., the UK and Asia to pay dividends or return capital can be found in this AIF under the heading Regulatory Matters.

SLF Inc. and Sun Life Assurance have each covenanted that, if a distribution is not paid when due on any outstanding Sun Life Exchangeable Capital Securities ("SLEECs") issued by Sun Life Capital Trust, Sun Life Assurance will not pay dividends on its Public Preferred Shares, if any are outstanding. If Sun Life Assurance does not have any Public Preferred Shares, then SLF Inc. will not pay dividends on its preferred shares or Common Shares until the twelfth month following the failure to pay the required distribution in full, unless the required distribution is paid to the holders of the SLEECs. Public Preferred Shares means preferred shares issued by Sun Life Assurance which: (a) have been issued to the public (excluding any preferred shares held beneficially by affiliates of Sun Life Assurance); (b) are listed on a recognized stock exchange; and (c) have an aggregate liquidation entitlement of at least \$200 million. Sun Life Assurance has not issued any shares that qualify as Public Preferred Shares as at the date of this AIF.

The terms of SLF Inc.'s outstanding Class A Preferred Shares provide that for so long as Sun Life Assurance is a subsidiary, no dividends on such preferred shares may be declared or paid if Sun Life Assurance's minimum regulatory capital ratio falls below the applicable threshold.

## Security Ratings

SLF Inc.'s Class A Preferred Shares, senior unsecured debentures, and subordinated unsecured debentures are rated by independent rating agencies. Security ratings assigned to securities by the rating agencies may be subject to revision or withdrawal at any time by the applicable rating agency and are not a recommendation to purchase, hold or sell these securities as such ratings do not comment as to market price or suitability for a particular investor. Security ratings are intended to provide investors with an independent measure of the credit quality of an issue of securities.

The table below provides the security ratings for SLF Inc.'s securities as at February 12, 2020. All rating agencies currently have stable outlooks on SLF Inc. issuer credit ratings:

### Security Ratings

	A.M. Best <sup>(1)</sup>		DBRS <sup>(2)</sup>		Fitch <sup>(3)</sup>		Moody's <sup>(4)</sup>		S&P <sup>(5)</sup>	
	Rating	Rank	Rating	Rank	Rating	Rank	Rating	Rank	Rating	Rank
Senior Unsecured Debentures Series E	a	6 of 21	A (high)	5 of 26	A	6 of 21	NR <sup>(6)</sup>	-	A+	5 of 22
Subordinated Unsecured Debentures Series 2007-1, 2015-1, 2016-1, 2016-2 2017-1 and 2019-1	a-	7 of 21	A	6 of 26	A-	7 of 21	NR <sup>(6)</sup>	-	A	6 of 22
Class A Preferred Shares Series 1 - 5, 8R, 9QR, 10R, 11QR and 12R	bbb+	8 of 21	Pfd-2 (high)	4 of 16	BBB	9 of 21	Baa1 (hyb)	8 of 21	P-1(low) /A- <sup>(7)</sup>	3 of 18/ 5 of 20 <sup>7</sup>

(1) A.M. Best Company, Inc.

(2) DBRS Limited.

(3) Fitch Ratings, Inc., part of Fitch Group, is majority owned by Hearst. We do not participate in Fitch's ratings process, or provide additional information to Fitch Ratings, beyond our available public disclosures.

(4) Moody's Investors Service, a subsidiary of Moody's Corporation (NYSE: MCO). Moody's rate Preferred Shares Series 2 only.

(5) S&P Global (NYSE:SPGI).

(6) Not Rated.

(7) The Canadian scale rating/global scale rating for preferred shares.

SLF Inc. has made payments in the ordinary course to A.M. Best, DBRS, Moody's and S&P in connection with the assignment of ratings on the securities of SLF Inc. In addition, SLF Inc. has made customary payments in respect of certain other services provided to SLF Inc. by the applicable rating agencies during the last two years.

The descriptions of the ratings below are sourced from public information as disclosed by each rating agency.

### **A.M. Best**

A.M. Best's issue credit rating ("IR") provides an opinion of credit quality assigned to issues that gauges the ability to meet the terms of the obligations and can be issued on a long- or short-term basis. An IR assigned to a specific issue is A.M. Best's opinion of the issuer's ability to meet the ongoing financial obligations to security holders when due. As such, an IR is an opinion regarding the relative future credit risk. Credit risk is the risk that a debt issuer may not meet its contractual financial obligations as they come due. The rating does not address any other risk, including, but not limited to, liquidity risk, market value risk or price volatility of rated obligations.

A.M. Best assigns long-term IR in a range from "aaa" to "c". Ratings from "aa" to "ccc" may be enhanced with a "+" (plus) or "-" (minus) to indicate whether credit quality is near the top or bottom of a category. The absence of either a plus or minus designation indicates the rating is in the middle of the category.

SLF Inc.'s Senior Unsecured Debentures and Subordinated Unsecured Debentures have been assigned "a" and "a-" ratings, respectively. An "a" rating denotes an issuer's excellent ability to meet the terms of the obligation.

SLF Inc.'s Class A Preferred Shares have been assigned "bbb+" ratings. A "bbb" rating denotes an issuer's good ability to meet the terms of the obligation, however, the issue is more susceptible to changes in economic and other conditions.

### **DBRS**

The DBRS long-term rating scale provides an opinion on the risk of default. That is, the risk that an issuer will fail to satisfy its financial obligations in accordance with the terms under which an obligation has been issued. Ratings are based on quantitative and qualitative considerations relevant to the issuer, and the relative ranking of claims. DBRS assigns long-term ratings in a range from AAA to D, and "(high)" and "(low)" designations indicate standing within the major rating categories. The absence of either a "(high)" or "(low)" designation indicates the rating is in the middle of the category. There are no "(high)" or "(low)" designations for AAA and D ratings.

SLF Inc.'s Senior Unsecured Debentures have been assigned an A (high) rating. SLF Inc.'s Subordinated Unsecured Debentures have been assigned an A rating. A ratings, reflecting a good credit quality, are assigned to issues when the capacity for the payment of financial obligations is substantial, but of lesser credit quality than AA, and the issue may be vulnerable to future events, but qualifying negative factors are considered manageable.

DBRS assigns ratings for preferred shares in a range from Pfd-1 to D. Reference to "high" and "low" designations indicate standing within the major rating categories. The absence of either a "(high)" or "(low)" designation indicates the rating is in the middle of the category. There are no "(high)" or "(low)" designations for D ratings. The DBRS preferred share rating scale is used in the Canadian securities market and is meant to give an indication of the risk that a borrower will not fulfill its full obligations in a timely manner, with respect to both dividend and principal commitments. SLF Inc.'s Class A Preferred Shares have been assigned a Pfd-2 (high) rating, the second highest among rating categories used by DBRS. Preferred shares rated Pfd-2 are generally of good credit quality. Protection of dividends and principal is still substantial, but earnings, the balance sheet and coverage ratios are not as strong as Pfd-1 rated companies.

### **Fitch**

Fitch's credit ratings provide an opinion on the relative ability of an entity to meet financial commitments, such as interest, preferred dividends, repayment of principal, insurance claims or counterparty obligations. Fitch's credit ratings do not directly address any risk other than credit risk. In particular, ratings do not deal with the risk of a market value loss on a rated security due to changes in interest rates, liquidity and other market considerations.

Fitch assigns long-term ratings for debt and preferred shares in a range from AAA to C. The modifiers + or - may be appended to a rating to denote relative status within major rating categories. The absence of either a plus or minus designation indicates the rating is in the middle of the category. Such modifiers are not added to the AAA rating or to ratings below CCC.

SLF Inc.'s Senior Unsecured Debentures and Subordinated Unsecured Debentures have been assigned an A and A- ratings, respectively. An A rating denotes expectations of low credit risk and the capacity for payment of financial commitments is considered

strong. This capacity may, nevertheless, be more vulnerable to adverse business or economic conditions than is the case for higher ratings. SLF Inc.'s Class A Preferred Shares have been assigned a BBB rating. A BBB rating indicates that expectations of credit risk are currently low and the capacity for payment of financial commitments is considered adequate but adverse business or economic conditions are more likely to impair this capacity.

## Moody's

Moody's long-term obligation ratings are forward-looking opinions of the relative credit risk of financial obligations with an original maturity of one year or more. They reflect both on the likelihood of a default on contractually promised payments and the expected financial loss suffered in the event of default.

Moody's assigns long-term obligation ratings in a range from Aaa to C. Moody's appends numerical modifiers 1, 2, and 3 to each generic rating classification from Aa through Caa. The modifier 1 indicates that the obligation ranks in the higher end of its generic rating category; the modifier 2 indicates a mid-range ranking; and the modifier 3 indicates a ranking in the lower end of that generic rating category. Additionally, a "(hyb)" indicator is appended to all ratings of hybrid securities.

SLF Inc.'s Class A Preferred Shares Series 2 have been assigned a Baa2 (hyb) rating. Obligations rated Baa are judged to be medium-grade and subject to moderate credit risk and as such may possess certain speculative characteristics.

## Standard & Poor's

An S&P issue credit rating is a forward-looking opinion about the creditworthiness of an obligor with respect to a specific financial obligation. The opinion reflects S&P's view of the obligor's capacity and willingness to meet its financial commitments as they come due, and may assess terms, such as collateral security and subordination, which could affect ultimate payment in the event of default.

S&P's credit ratings for securities are based, in varying degrees, on S&P's analysis of the following considerations:

- Likelihood of payment - capacity and willingness of the obligor to meet its financial commitment on an obligation in accordance with the terms of the obligation;
- Nature of and provisions of the obligation and the promise imputed by S&P; and
- Protection afforded by, and relative position of, the obligation in the event of bankruptcy, reorganization, or other arrangement under the laws of bankruptcy and other laws affecting creditors' rights.

These ratings are an assessment of default risk, but may incorporate an assessment of relative seniority or ultimate recovery in the event of default. Junior obligations are typically rated lower than senior obligations, to reflect the lower priority in bankruptcy.

S&P assigns long-term ratings in a range from AAA to D. The ratings from AA to CCC may be modified by the addition of a plus (+) or minus (-) sign to show relative standing within the major rating categories. The absence of either a plus or minus designation indicates the rating is in the middle of the category.

SLF Inc.'s Senior Unsecured Debentures and Subordinated Unsecured Debentures have been assigned A+ and A- ratings, respectively. An A rating category indicates that the obligor's capacity to meet its financial commitment on the obligation is strong. S&P has Canadian and global rating scales for preferred shares. S&P assigns ratings for Canadian preferred shares in a range from P-1 to D on the Canadian scale and from AA to D on the global rating scale. S&P uses "high" and "low" designations to indicate standing within the major rating categories on the Canadian rating scale and plus or minus designations to indicate the relative standing of securities within a particular rating category on the global rating scale. The absence of either a "high" and "low" or a plus or minus designation indicates the rating is in the middle of the category. There are no plus and minus or "high" and "low" designations for CC, C and D ratings, and no plus designation for a AA rating category.

S&P's preferred share rating on the Canadian scale is a forward-looking opinion about the creditworthiness of an obligor with respect to a specific preferred share obligation issued in the Canadian market, relative to preferred shares issued by other issuers in the Canadian market. There is a direct correspondence between the specific ratings assigned on the Canadian preferred share scale and the various rating levels on the global debt rating scale of Standard & Poor's. S&P presents an issuer's preferred share ratings on both the global rating scale and on the Canadian national scale when listing the ratings for a particular issuer.

SLF Inc.'s Class A Preferred Shares have been assigned a P-1 (low) rating on the Canadian scale, which corresponds to a A- rating on the global scale. An A rating category indicates that the obligor's capacity to meet its financial commitment on the obligation is strong.

## Transfer Agents and Registrars

### Common Shares

AST Trust Company (Canada) is the principal transfer agent and the registrar for SLF Inc.'s Common Shares. The central securities register is maintained in Toronto, Ontario, Canada. The transfer agent and co-transfer agents for SLF Inc.'s Common Shares are as follows (opposite their applicable jurisdictions):

Transfer Agent	
Canada	AST Trust Company (Canada) 1 Toronto Street, Suite 1200 Toronto, Ontario Canada M5C 2V6
Co-Transfer Agents	
United States	American Stock Transfer & Trust Company, LLC 6201 15 <sup>th</sup> Avenue Brooklyn, NY 11219 United States
United Kingdom	Link Asset Services 34 Beckenham Road Beckenham BR3 4TU Kent United Kingdom
Philippines	Rizal Commercial Banking Corporation RCBC Stock Transfer Processing Section Ground Floor, West Wing GPL (Grepalife) Building 221 Senator Gil Puyat Avenue Makati City, Philippines
Hong Kong	Computershare Hong Kong Investor Services Limited 17M Floor, Hopewell Centre 183 Queen's Road East Wanchai, Hong Kong

### Preferred Shares and Debentures

AST Trust Company (Canada) is the transfer agent and the registrar for SLF Inc.'s Class A Preferred Shares, and CIBC Mellon Trust Company c/o BNY Trust Company of Canada is the trustee and the registrar for SLF Inc.'s senior unsecured debentures, Series E, and its subordinated unsecured debentures, Series 2007-1, 2015-1, 2016-1, 2016-2, 2017-1 and 2019-1. The registers for those securities are maintained in Toronto, Ontario, Canada.

## Directors and Executive Officers

### Board of Directors

As of the date of this AIF, the Board of Directors of SLF Inc. had four standing committees: Audit Committee, Governance, Nomination & Investment Committee, Management Resources Committee and Risk & Conduct Review Committee.

The following table sets out the directors of SLF Inc. as of the date of this AIF and, for each director, the province or state and country of his or her residence, principal occupation, years as a director, and membership on board committees. The term of each director expires at the close of business of the Annual Meeting in 2020. Each director of SLF Inc. is an independent director as defined in the Company's Director Independence Policy, except Mr. Connor, the President & Chief Executive Officer of SLF Inc.

<b>Name and Province/State and Country of Residence</b>	<b>Principal Occupation</b>	<b>Director Since</b>	<b>Board Committee Membership</b>
William D. Anderson Ontario, Canada	Chairman, SLF Inc. and Sun Life Assurance	2010	None
Dean A. Connor Ontario, Canada	President & Chief Executive Officer, SLF Inc. and Sun Life Assurance	2011	None
Stephanie L. Coyles Ontario, Canada	Corporate Director	2017	Audit Governance, Nomination & Investment
Martin J. G. Glynn British Columbia, Canada	Corporate Director	2010	Management Resources Risk & Conduct Review
Ashok K. Gupta London, England	Corporate Director	2018	Management Resources Risk & Conduct Review
M. Marianne Harris Ontario, Canada	Corporate Director	2013	Management Resources Risk & Conduct Review
Sara Grootwassink Lewis Arizona, U.S.A.	Corporate Director	2014	Audit Governance, Nomination & Investment
James M. Peck Texas, U.S.A.	Corporate Director	2019	Management Resources Risk & Conduct Review
Scott F. Powers Massachusetts, U.S.A.	Corporate Director	2015	Governance, Nomination & Investment Management Resources
Hugh D. Segal, OC, OONT, CD Ontario, Canada	Corporate Director	2009	Audit Governance, Nomination & Investment
Barbara G. Stymiest Ontario, Canada	Corporate Director	2012	Audit Risk & Conduct Review

Each director of SLF Inc. has been engaged for more than five years in his or her present principal occupation or in other capacities with the company or organization (or predecessor thereof) in which he or she currently holds his or her principal occupation, except:

- (i) Ms. Coyles, who from 2012 to 2016 was an independent strategy consultant;
- (ii) Mr. Peck, who from 2012 to May 2019 was President & Chief Executive Officer, TransUnion;
- (iii) Mr. Powers, who from 2008 to 2015 was President and Chief Executive Officer, State Street Global Advisors and Executive Vice-President, State Street Corporation;
- (iv) Mr. Segal, who from 2014 to June 2019 was Principal of Massey College, University of Toronto.

## Audit Committee

The responsibilities and duties of the Audit Committee are set out in its charter, a copy of which is attached as Appendix A. The Board of Directors has determined that each member of its Audit Committee is independent as defined in the Company's Director Independence Policy and is financially literate. In the Board's judgment, a member of the Committee is financially literate if, after seeking and receiving any explanations or information from senior financial management of the Company or the auditors of the Company that the member requires, the member is able to read and understand the consolidated financial statements of the Company to the extent sufficient to be able to intelligently ask, and to evaluate the answers to, probing questions about the material aspects of those financial statements.

The members of the Audit Committee as of the date of this AIF and their qualifications and education are set out below:

Sara Grootwassink Lewis (Chair), is a corporate director, a Certified Public Accountant and a Chartered Financial Analyst. Prior to 2009, she held progressively senior positions during her seven-year career with Washington Real Estate Investment Trust, a publicly traded real estate investment trust, including Executive Vice-President, and was Chief Financial Officer from 2002 to 2009. Ms. Lewis joined the Board of Directors, the Governance, Nomination & Investment Committee and the Management Resources Committee of SLF Inc. and Sun Life Assurance in December 2014. She became a member of the Audit & Conduct Review Committee (now the Audit Committee) in May 2016 and was appointed Chair of the Audit Committee in May 2017. Ms. Lewis is a director and Chair of the Audit Committee of Weyerhaeuser Company. She is also a Trustee and Vice Chair of the Audit Committee of The Brookings

Institution. Ms. Lewis is a director and a member of the Audit Committee of Healthpeak Properties, Inc. She was formerly a director and a member of the Audit Committee of PS Business Parks, Inc. from 2010 to April 2019, and was the Chair of its Audit Committee from 2012 to April 2019. She was a director and a member of the Audit Committee of Adamas Pharmaceuticals, Inc. from March 2014 to June 2016. Ms. Lewis served as a director and a member of the Audit Committee of Plum Creek Timber Company, Inc. from November 2013 until its acquisition by Weyerhaeuser in February 2016. Ms. Lewis was also a director and a member of the Audit Committee of CapitalSource, Inc. from 2004 to April 2014, and was the Chair of its Audit Committee from February 2013 to April 2014. In addition, Ms. Lewis serves on the Leadership Board and Governance Working Group for the United States Chamber of Commerce - Center for Capital Markets Competitiveness. She is a National Association of Corporate Directors Board Leadership Fellow and a member of the Tapestry West Audit Committee Network. Ms. Lewis was named to the National Association of Corporate Directors (NACD) Directorship 100 in 2017.

Stephanie L. Coyles is a corporate director. Her background is as a strategic consultant and advisor who has worked with a diverse clientele across North America, including retail, consumer distribution, private equity and business consulting organizations. She was previously Chief Strategic Officer at LoyaltyOne Co. from 2008 to 2012. Prior to that, Ms. Coyles spent 18 years with McKinsey & Company Canada where she held progressively senior positions and was a principal for eight years from 2000 to 2008. Ms. Coyles joined the Board of Directors, the Audit & Conduct Review Committee (now the Audit Committee) and the Governance, Nomination & Investment Committee of SLF Inc. and Sun Life Assurance in January 2017. She is currently a director and a member of the Audit Committee of Métro Inc. and Hudson's Bay Company. Ms. Coyles also serves on the advisory board of Reliant Web Hosting Inc. and on the board of The Earth Rangers Foundation. She holds a Master in Public Policy degree and a Bachelor of Commerce degree. Ms. Coyles also received the ICD.D designation from the Institute of Corporate Directors and the CERT Certificate in Cybersecurity Oversight, issued by the CERT Division of the Software Engineering Institute at Carnegie Mellon University.

Hugh D. Segal, OC, OONT, CD is a corporate director. He served as Principal of Massey College, University of Toronto from 2014 to June 2019. Before that, Mr. Segal was a Canadian senator from 2005 to 2014 and President & Chief Executive Officer of the Institute for Research on Public Policy from 1999 to 2006. He was formerly Chair of the NATO Association of Canada and Vice-Chair of the Institute of Canadian Advertising. Mr. Segal joined the Board of Directors, the Governance & Conduct Review Committee and the Investment Oversight Committee of SLF Inc. and Sun Life Assurance in 2009. He became a member of the Audit & Conduct Review Committee (now the Audit Committee) in May 2016. Mr. Segal served as a director of Just Energy Group Inc. from 2001 to 2015 and was a member of its audit committee from 2013 to 2015. He is a Senior Advisor at Aird & Berlis LLP. Mr. Segal is Chair and a Distinguished Fellow of the School of Policy Studies External Advisory Board and the Donald Matthews Faculty Fellow in Global Public Policy, Queen's University, a Distinguished Fellow at the Munk School of Global Affairs, University of Toronto and a Senior Fellow at the Canadian Institute of Global Affairs. He is also an Honourary Captain of the Royal Canadian Navy, an Honorary Captain of the Canadian Forces College and Honorary Chair of the Navy League of Canada. Mr. Segal is an officer of the Order of Canada and a member of the Order of Ontario.

Barbara G. Stymiest is a corporate director and a Chartered Professional Accountant. She was a member of the Group Executive at Royal Bank of Canada, an international banking and financial services organization, from 2004 to 2011; Royal Bank's Group Head, Strategy, Treasury and Corporate Services from 2010 to 2011; and Chief Operating Officer from 2004 to 2009. Prior to that Ms. Stymiest held senior positions in the financial services sector including Chief Executive Officer, TSX Group Inc., Executive Vice-President and Chief Financial Officer, BMO Nesbitt Burns, and Partner, Financial Services Group, Ernst & Young LLP. She joined the Board of Directors, the Management Resources Committee and the Risk Review Committee of SLF Inc. and Sun Life Assurance in May 2012. Ms. Stymiest became a member of the Audit & Conduct Review Committee (now the Audit Committee) and Chair of the Risk & Conduct Review Committee (formerly the Risk Review Committee) in May 2015. She is a Fellow of the Chartered Professional Accountants of Ontario and received an Award of Outstanding Merit from that organization in 2011. Ms. Stymiest is a director and Chair of the audit and risk management committee of BlackBerry Limited, a director and Chair of the audit committee of George Weston Limited, one of North America's largest food processing and distribution groups. She also serves as a director of President's Choice Bank and Vice Chair of University Health Network. Ms. Stymiest holds an Honours Business Administration degree. She was named to the National Association of Corporate Directors (NACD) Directorship 100 in 2018.

SLF Inc.'s Board of Directors has determined that each of Sara Grootwassink Lewis and Barbara G. Stymiest is an audit committee financial expert as defined by the SEC. The SEC has indicated that the designation of a person as an audit committee financial expert does not make that person an "expert" for any purpose, or impose any duties, obligations or liabilities on that person that are greater than those imposed on members of the audit committee and board of directors who do not carry this designation or affect the duties, obligations or liabilities of any other member of the Audit Committee or Board of Directors. Each of Ms. Lewis and Ms. Stymiest is "independent" within the meaning of the listing standards of the New York Stock Exchange and Rule 10A-3 of the U.S. Securities Exchange Act of 1934, as amended.

## Executive Officers

The following table sets out the executive officers of SLF Inc. as of the date of this AIF:

Name	Province/State and Country of Residence	Position
Dean A. Connor	Ontario, Canada	President & Chief Executive Officer
Linda M. Dougherty	Ontario, Canada	Executive Vice-President, Corporate Strategy and Global Marketing
Daniel R. Fishbein	Maine, USA	President, Sun Life U.S.
Colm J. Freyne	Ontario, Canada	Executive Vice-President & Chief Risk Officer
Jacques Goulet	Ontario, Canada	President, Sun Life Canada
Léo M. Grépin	Hong Kong, China	President, Sun Life Asia
Melissa J. Kennedy	Ontario, Canada	Executive Vice-President, Chief Legal Officer & Public Affairs
Helena J. Pagano	Ontario, Canada	Executive Vice-President, Chief Human Resources & Communications Officer
Stephen C. Peacher	Massachusetts, USA	President, SLC Management
Mark S. Saunders	Ontario, Canada	Executive Vice-President & Chief Information Officer
Kevin D. Strain	Ontario, Canada	Executive Vice-President & Chief Financial Officer

Each executive officer of SLF Inc. has held his current position or other senior positions with the Company during the past five years with the following exceptions:

- (i) Prior to September 2015, Ms. Dougherty was Managing Director, Strategy, Analytics and Transformation, TD Wealth Management, The Toronto-Dominion Bank;
- (ii) Mr. Goulet was President, Health and Wealth, Mercer (US) Inc. ("Mercer"), from January 2017 to December 2017 and President, Retirement, Health and Benefits, Mercer, from October 2014 to December 2016;
- (iii) Prior to February 2016, Mr. Grépin was Account Management Department Head, Bridgewater Associates; and
- (iv) Prior to February 2017, Ms. Pagano was Managing Director, Head of Human Resources, RBC Capital Markets and Investor & Treasury Services, Royal Bank of Canada.

## Cease Trade Orders, Bankruptcies, Penalties and Sanctions

To the best of SLF Inc.'s knowledge, as at the date of this AIF, except as set out below, no director or executive officer of SLF Inc.:

- (i) is or has been, in the last ten years, a director, chief executive officer or chief financial officer of a company (including SLF Inc.) that, while that person was acting in that capacity,
  - (a) was the subject of a cease trade or similar order or an order that denied the company access to any exemption under Canadian securities legislation, for a period of more than 30 consecutive days, or
  - (b) was subject to an event that resulted, after that person ceased to be a director, chief executive officer or chief financial officer, in the company being the subject of a cease trade or similar order or an order that denied the company access to any exemption under Canadian securities legislation, for a period of more than 30 consecutive days.
- (ii) is or has been, in the last ten years, a director or executive officer of a company (including SLF Inc.) that, while that person was acting in that capacity or within a year of that person ceasing to act in that capacity, became bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency or was subject to or instituted any proceedings, arrangement or compromise with creditors or had a receiver, receiver manager or trustee appointed to hold its assets,
- (iii) has, within the last ten years, become bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency, or become subject to or instituted any proceedings, arrangement or compromise with creditors, or had a receiver, receiver manager or trustee appointed to hold the assets of the director or executive officer; and
- (iv) has been subject to (a) any penalties or sanctions imposed by a court relating to securities legislation or by a securities regulatory authority or has entered into a settlement agreement with a securities regulatory authority or (b) any other penalties or sanctions imposed by a court or regulatory body that would likely be considered important to a reasonable investor in making an investment decision.

Ms. Coyles was a director of Postmedia Network Canada Corp. while it completed a restructuring following an arrangement plan under the Canada Business Corporation Act in October 2016. Ms. Coyles is no longer a director of Postmedia Network Canada Corp.

Mr. Glynn was a director of MF Global Holdings Ltd. when it filed a voluntary petition under Chapter 11 of the Bankruptcy Code in the United States in October 2011. Mr. Glynn is no longer a director of MF Global Holdings Ltd.

Mr. Peck was a director and President & Chief Executive Officer of TransUnion when it agreed to settle a Civil Investigative Demand by the US Consumer Financial Protection Bureau (CFPB) in December 2016 focused on common industry practices relating to the

advertising, marketing and sale of consumer reports, credit scores or credit monitoring products to consumers by TransUnion's Consumer Interactive segment. TransUnion executed a Stipulation and Consent to the Issuance of a Consent Order which was issued by the CFPB in January 2017, which required them to implement certain practice changes in the way they advertise, market and sell products and services to consumers, develop a comprehensive compliance plan, and pay approximately US\$13.9 million for redress to eligible customers and a civil money penalty to the CFPB in the amount of US\$3.0 million.

## Shareholdings of Directors and Executive Officers

To the knowledge of SLF Inc., as at December 31, 2019, SLF Inc.'s directors and executive officers, as a group, owned, directly or indirectly, or had voting control or direction over 182,951 Common Shares of SLF Inc., or less than 1% of the total Common Shares outstanding.

## Code of Business Conduct

We have built a strong corporate culture on a foundation of ethical behaviour, high business standards, integrity and respect. The Board of Directors establishes the "tone from the top" and makes every effort to ensure that Senior Management consists of people of integrity who create and sustain a culture of integrity throughout the organization. Questions about integrity are included in our Board of Directors, committee and peer effectiveness surveys.

The Board of Directors has established the Code that applies to every Director, Officer and employee, with no exception. Each Director, Officer and employee receives training and is required to attest to compliance with the Code annually.

Our Code promotes speaking up and outlines our commitment against retaliation. Our Code also requires employees and Board of Directors members to report all known and suspected breaches. Our Employee Ethics Hotline empowers our employees to play an active role in protecting the organization. They can seek guidance and report misconduct anonymously.

Communications that accompanied the Code in 2019 further reinforced our expectations of behaviours in the workplace; emphasizing the importance of fostering a workplace that is free of harassment of any kind and encouraging employees to report any inappropriate behavior or conduct that does not align with the Code.

The Governance, Nomination & Investment Committee of the Board (GNIC) is responsible for reviewing the effectiveness of the Code, monitoring compliance with the Code and reporting the results of its review to the Board annually. Any breaches of the Code are reported at the next committee meeting and the Chief Compliance Officer (CCO) reviews our controls and compliance with the committee annually. No waivers of the Code for Directors or Executive Officers have been granted. The Code is currently under review and the updated Code will be published in June 2020. The most recent copy of the Sun Life Code of Business Conduct is available on our website ([www.sunlife.com](http://www.sunlife.com)). It has been filed with securities regulators in Canada and with the SEC and may be accessed at [www.sedar.com](http://www.sedar.com) and [www.sec.gov](http://www.sec.gov), respectively.

## Principal Accountant Fees and Services

The following table shows the fees related to services provided by the Company's external auditors, Deloitte LLP, for the past two years:

For the years ended December 31 (\$ millions)	2019	2018 <sup>(1)</sup>
Audit Services	18.1	17.4
Audit-Related Services	1.2	1.1
Tax Services	0.5	0.3
Other Services	1.7	1.3

<sup>(1)</sup>Adjustment to 2018 fees of \$0.1 million for Audit Services and \$0.3 million for Other Services.

**Audit fees** relate to professional services rendered by the auditors for the audit of our annual consolidated financial statements, the statements for our segregated funds and services related to statutory and regulatory filings. Audit Services fees of \$12.6 million (2018: \$11.1 million) relates to audit of the consolidated financial statements of SLF and its subsidiaries to support the group audit opinions expressed in the Independent Auditor's Report; the remaining Audit Services fees of \$5.5 million (2018: \$6.3 million) relates to audit of the statements of segregated funds and statutory and regulatory filings.

**Audit-related fees** include assurance services not directly related to performing the audit of the annual consolidated financial statements of the Company. These include internal control reviews, specified procedure audits and employee benefit plan audits.

**Tax fees** relate to tax compliance, tax advice and tax planning.

**All other fees** relate to products and services other than audit, audit-related and tax as described above.

## Pre-Approval Policies and Procedures

The Audit Committee of SLF Inc. and Sun Life Assurance have adopted a policy restricting the use of the external auditor (the "Policy"). The objective of the Policy is to ensure that the independence of the external auditor is not compromised by certain engagements. The Policy is based on the following principles, which specify that the external auditor cannot:

- function in the role of management of the Company;
- audit its own firm's work; or
- serve in an advocacy role for the Company.

The Policy requires that any services to be provided by the external auditor be pre-approved by the Audit Committees of SLF Inc. and/or Sun Life Assurance, as applicable, and the audit committee of any affected subsidiary that is itself directly subject to the Sarbanes-Oxley Act of 2002. If a service has not been pre-approved by the Audit Committee, specific approval must be obtained from the committee before an engagement letter can be issued and the related work commenced. The committee has, subject to certain fee thresholds and reporting requirements, pre-approved certain audit, audit-related and other permissible non-audit services that are consistent with maintaining the independence of the external auditor. These pre-approved services are reviewed annually by the committee. The Policy prohibits engaging the external auditor to provide certain services, including:

- bookkeeping or other services related to accounting records or financial statements;
- financial information systems design or implementation services;
- appraisal or valuation services, fairness opinions or contribution in kind reports;
- actuarial services;
- internal audit outsourcing services;
- management functions or human resources services;
- broker or dealer, investment adviser, underwriting, securities or investment banking services;
- legal services and expert services unrelated to an audit;
- any service for which no fee is payable unless a specific result is obtained;
- any non-audit tax services that recommend the Company engage in confidential transactions or aggressive tax position transactions, as defined by the U.S. Public Company Accountability Oversight Board; and
- any other service that governing regulators or professional bodies determine to be impermissible.

Fees paid to SLF Inc.'s external auditors have been approved by the Audit Committee of the Board of Directors of SLF Inc. or otherwise in accordance with the Policy. None of the services provided by the Company's external auditors described above were approved pursuant to a waiver of pre-approval provisions under SEC rules (paragraph (c)(7)(i)(C) of Rule 2 - 01 of Regulation S-X).

## Interests of Experts

Deloitte LLP is the auditor of SLF Inc. and is independent of SLF Inc. within the meaning of the Rules of Professional Conduct of the Chartered Professional Accountants of Ontario and within the meaning of the U.S. Securities Act of 1933, as amended, and the applicable rules and regulations thereunder adopted by the Securities and Exchange Commission (SEC) and the Public Company Accounting Oversight Board (United States)(PCAOB).

Kevin Morrissey, the Appointed Actuary of SLF Inc., has provided an opinion on the value of policy liabilities and reinsurance recoverables for SLF Inc.'s statements of financial position as at December 31, 2019 and 2018 and the change in the consolidated statement of operations for the years ended December 31, 2019 and 2018. Mr. Morrissey owned beneficially, directly or indirectly, less than 1% of all outstanding securities or other property of SLF Inc. or its affiliates when he prepared that opinion, and after that opinion was prepared, and he does not expect to receive any such securities or other property in excess of that amount in the future.

## Regulatory Matters

Sun Life is subject to regulation and supervision by government authorities in the jurisdictions in which it does business.

### Canada

#### Regulation of Insurance Operations

SLF Inc. is incorporated under and governed by the Insurance Act. OSFI administers the Insurance Act and supervises the activities of Sun Life Financial. SLF Inc. has all the powers and restrictions applicable to life insurance companies governed by the Insurance Act, which permits insurance companies to offer, directly or through subsidiaries or networking arrangements, a broad range of financial services, including:

- Insurance and reinsurance;
- Investment counselling and portfolio management;
- Mutual funds and segregated funds;
- Trust services;
- Banking services;
- Real property brokerage and appraisal; and
- Merchant banking services.

The Insurance Act requires the filing of annual and other reports on the financial condition of insurance companies, provides for periodic examinations of insurance companies' affairs, imposes restrictions on transactions with related parties, and sets out requirements governing certain aspects of insurance companies' businesses.

OSFI supervises SLF Inc. on a consolidated basis to ensure that it has an overview of activities of SLF Inc. and its consolidated subsidiaries. This consolidated supervision includes the ability to review insurance and non-insurance operations of SLF Inc. and subsidiaries and supervisory power to bring about corrective action. OSFI has extensive powers to intervene in the affairs of regulated insurance companies, including the power to request information or documents, to conduct investigations, to require that appropriate actions are taken to address issues identified by OSFI and to levy fines. OSFI may intervene and assume control of an insurance company governed by the Insurance Act if OSFI deems that the amount of the company's available capital is not sufficient.

### **Investment Powers**

Under the Insurance Act, a life insurance company must maintain a prudent portfolio of investments, subject to certain overall limitations on the amount it may invest in certain classes of investments, such as commercial loans, real estate and stocks. Additional restrictions (and, in some cases, the need for regulatory approvals) limit the type of investments which Sun Life Financial can make in excess of 10% of the voting rights or 25% of the equity of any entity.

### **Capital and Surplus Requirements**

SLF Inc. and Sun Life Assurance, SLF Inc.'s principal operating life insurance subsidiary in Canada, are subject to OSFI's Life Insurance Capital Adequacy Test ("LICAT") capital framework.

The LICAT Guideline uses a risk-based approach for measuring specific life insurer risks and for aggregating the results to calculate the amount of a life insurer's regulatory required capital to support these risks. LICAT measures the capital adequacy of an insurer using a Total Ratio and a Core Ratio and is one of several indicators used by OSFI to assess an insurer's financial condition. The Total Ratio is the Available Capital plus Surplus Allowance and Eligible Deposits divided by a Base Solvency Buffer as described below.

The principal elements included in determining Qualifying Regulatory Available Capital ("Available Capital") under LICAT include common shares, contributed surplus, retained earnings, the participating account, accumulated currency translation account, unrealized gains and losses on available for sale equity and debt securities, qualifying preferred shares, innovative capital instruments and subordinated debt.

The calculation of the Total Ratio takes into consideration other aspects of the balance sheet that are available as loss absorbing capacity, including the Surplus Allowance and Eligible Deposits. The Surplus Allowance includes the provisions for adverse deviations for non-economic and risk-free interest rate assumptions. The Eligible Deposits consist of the excess deposits held for unregistered reinsurers and claims fluctuation reserves.

The Base Solvency Buffer includes five risk components: (1) credit risk, (2) market risk, (3) insurance risk, (4) segregated funds guarantee risk, and (5) operational risk. Credits are available for: (1) qualifying in-force participating and adjustable products, (2) other risk mitigation and risk transfer, and (3) risk diversification. The sum of the risk components, net of credits, are multiplied by 1.05 to arrive at the Base Solvency Buffer.

The LICAT Guideline sets a Supervisory Target Total Ratio of 100% and a minimum Total Ratio of 90%. The supervisory target provides a cushion above the minimum requirements, provides a margin for other risks, and facilitates OSFI's early intervention process. The supervisory target is not applicable to regulated insurance holding companies and non-operating insurance companies. The Company has established capital targets in excess of the supervisory target set by OSFI.

### **Restrictions on Dividends and Capital Transactions**

The Insurance Act prohibits the declaration or payment of dividends on shares of an insurance company if there are reasonable grounds for believing the company does not have, or the payment of the dividend would cause the company not to have, adequate capital or liquidity, or upon any direction made by the Superintendent. The Insurance Act also requires that an insurance company notify the Superintendent of the declaration of a dividend at least fifteen days before the dividend payment date.

The Insurance Act also prohibits the purchase for cancellation of shares issued by an insurance company or the redemption of redeemable shares or other similar capital transactions, if there are reasonable grounds for believing that the company does not have, or the payment would cause the company not to have, adequate capital or liquidity, or upon any direction made by the Superintendent. Further, any redemption or purchase for cancellation of shares issued by an insurance company or similar capital transactions are prohibited without the prior approval of the Superintendent.

### **Restrictions on Ownership**

The Insurance Act contains restrictions on the purchase or other acquisition, issue, transfer and voting of the shares of an insurance company. Pursuant to these restrictions:

- No person is permitted to acquire any shares of SLF Inc. if the acquisition would cause the person to have a “significant interest” in any class of shares of SLF Inc., without the prior approval of the Minister of Finance of Canada;
- SLF Inc. is not permitted to record any transfer or issue of shares of SLF Inc. if the transfer or issue would cause the person to have a significant interest in SLF Inc., unless prior approval is obtained from the Minister of Finance of Canada; and
- No person who has a significant interest in SLF Inc. may exercise any voting rights attached to the shares held by that person, unless prior approval of the Minister of Finance of Canada is obtained.

A person has a significant interest in a class of shares where the aggregate of any shares of that class beneficially owned by that person, any entity controlled by that person and any person acting jointly or in concert with that person exceeds 10% of all of the outstanding shares of that class of shares.

Under the Insurance Act, the Minister of Finance of Canada may approve only the acquisition of a significant interest of up to 30% of any class of non-voting shares and up to 20% of a class of voting shares, provided that the person acquiring those shares does not have direct or indirect influence over SLF Inc. that, if exercised, would result in that person having control in fact of SLF Inc. In addition, the Insurance Act prohibits life insurance companies, including SLF Inc., from recording a transfer or issuing shares of any class to Her Majesty in right of Canada or of a province, an agent of Her Majesty, a foreign government or an agent of a foreign government.

SLF Inc. is required to continue to control, but not wholly own, Sun Life Assurance. Any shares of Sun Life Assurance that are not owned by SLF Inc. are required to meet the widely-held criteria (no individual may own more than 10% of any class of shares without prior approval of the Minister of Finance of Canada). The 20% limit on voting share ownership and 30% limit on non-voting share ownership apply to the direct and indirect cumulative ownership of Sun Life Assurance, with the effect that no single investor will be able to use the holding company structure to exceed those ownership restrictions.

### **Appointed Actuary**

In accordance with the Insurance Act, SLF Inc.’s Board of Directors has appointed a Fellow of the Canadian Institute of Actuaries as its “Appointed Actuary”. The Appointed Actuary must provide an opinion on:

- The value of the Company’s consolidated policy liabilities as at the end of each fiscal period in accordance with accepted actuarial practice, including the selection of appropriate assumptions and methods;
- Whether the amount of policy liabilities makes appropriate provisions for all obligations to policyholders; and
- Whether the valuation of liabilities is fairly presented in the consolidated financial statements.

Regulations require that the Appointed Actuary meet with the Board of Directors or a delegated Committee of the Board at least once in each financial year to report, in accordance with accepted actuarial practice, on the Company’s financial position and its expected future financial condition. The Appointed Actuary must report to the Chief Executive Officer and the Chief Financial Officer of SLF Inc. any matters that, in the Appointed Actuary’s opinion, could have material adverse effects on the financial condition of SLF Inc.

### **Prescribed Supervisory Information**

The Supervisory Information (Insurance Companies) Regulations made under the Insurance Act prohibit regulated insurance companies, such as SLF Inc. and Sun Life Assurance, from disclosing, directly or indirectly, “prescribed supervisory information”, as defined in those Regulations. Prescribed supervisory information includes assessments, recommendations, ratings and reports concerning the Company made by or at the request of the Superintendent, orders of the Superintendent with respect to capital and liquidity, certain regulatory actions taken with respect to the Company, prudential agreements between the Company and the Superintendent, and directions of the Superintendent that we cease or refrain from committing, or remedy, unsafe or unsound practices in conducting our business.

### **Provincial/Territorial Insurance Regulation**

In Canada, life insurance is also subject to provincial regulation and supervision in each province and territory in Canada. Provincial insurance regulation is primarily concerned with market conduct matters, the rights and obligations under insurance contracts, and the licensing and oversight of insurance intermediaries. In addition to those regulations, guidelines adopted by the Canadian Life and Health Insurance Association (“CLHIA”) govern several aspects of our business in Canada.

SLF Inc. is licensed as an insurance company in Canada under the Insurance Act and is the holding company for the Sun Life Financial group of companies. SLF Inc. is not licensed to carry on life insurance business in any province or territory in Canada.

Sun Life Assurance and Sun Life Insurance (Canada) Limited are licensed to carry on life insurance and accident and sickness insurance business in each province and territory in Canada.

## Regulation of Securities Operations

Several of SLF Inc.'s subsidiaries in Canada are registered with various Canadian Securities Administrators as dealers, advisors or managers under one or more of the following categories of registration: mutual fund dealer, investment fund manager, commodity trading manager, investment counsel/portfolio manager and exempt market dealer. These entities, their registered employees and their products and/or services are regulated in Canada under provincial and territorial securities laws which are administered and enforced by the various Canadian Securities Administrators, and certain entities are also subject to the rules of the applicable self-regulatory organization, such as the Mutual Fund Dealers Association of Canada for mutual fund dealers. These entities may be subject to examinations or proceedings by the various Canadian Securities Administrators and self-regulatory organizations. These examinations or proceedings could subject our registered subsidiaries to a range of regulatory sanctions, including censure, limitations on the registrant's activities, and termination of registration, and could subject these entities to a cessation of sales or the rescission of a sale of securities.

## Client Protection for Financial Institution Failure

Sun Life Assurance's Canadian policyholders are provided protection from an insolvency through Assuris, a not for profit organization that is funded by its member insurance companies. Every life insurance company authorized to sell insurance policies in Canada is required, by the federal, provincial and territorial regulators, to become a member of Assuris. Assuris provides separate protection for individual, group, registered and non-registered, life insurance policies and annuity policies.

The MFDA Investor Protection Corporation ("IPC") provides Clients with protection, within defined limits, in the event of the insolvency of their mutual fund dealer. The IPC is funded by its member mutual fund dealers, including Sun Life Financial Investment Services (Canada) Inc.

The Canada Deposit Insurance Corporation ("CDIC") is a federal crown corporation created to protect deposits made with member financial institutions in case of their failure. CDIC member institutions, including Sun Life Financial Trust Inc., fund deposit insurance through premiums paid on the insured deposits that they hold.

## Other Regulatory Matters

### *Privacy of Client Information and Anti-Spam Legislation*

Canadian federal, and some provincial, laws and regulations require organizations, including financial institutions to protect the security and confidentiality of Client information. This includes financial institutions notifying Clients about their policies and practices relating to their collection, use and disclosure of Client information and their policies to protect the security and confidentiality of that information. New requirements include additional record keeping obligations and an obligation to notify individuals and report to privacy regulators when there is a real risk of significant harm to affected individuals resulting from a breach of security safeguards. Canadian anti-spam legislation imposes certain restrictions and formalities on the delivery of commercial electronic messages to existing and prospective Clients. This includes obtaining consent from recipients and providing the ability to unsubscribe from subsequent messages.

### *Anti-Money Laundering Legislation*

The Proceeds of Crime (Money Laundering) and Terrorist Financing Act, Canada, contains measures to assist in detecting, deterring, and facilitating the investigation of money laundering and terrorist financing offences. This legislation and the associated regulations impose reporting, recordkeeping and "know your Client" obligations on SLF Inc. and certain of its subsidiaries.

## United States

In the U.S. SLF Inc. does not carry on business and is not regulated as an insurance company. Sun Life Assurance and several indirect U.S. subsidiaries of SLF Inc. carry on business and are regulated as insurance companies in the United States. Michigan is Sun Life Assurance's "state of entry" and is treated as the state of domicile for Sun Life Assurance's U.S. branch (the "U.S. Branch"). The U.S. Branch is licensed to transact business in every state in the United States except New York, plus in the District of Columbia, Puerto Rico, and the U.S. Virgin Islands. SLF Inc.'s U.S. life and health insurance subsidiaries are, collectively, licensed to transact business in all states, the District of Columbia, and Puerto Rico.

Certain of SLF Inc.'s U.S. subsidiaries (including MFS and its subsidiaries, Sun Life Capital Management (U.S.) LLC <sup>(1)</sup> and certain BentallGreenOak entities) and certain contracts, policies and funds issued, offered or managed by them are subject to regulation under federal securities laws administered by the SEC and under certain state securities laws.

<sup>(1)</sup> On January 1, 2020, Ryan Labs Asset Management Inc., Prime Advisors Inc. and Sun Life Capital Management (U.S.) LLC merged, with the resulting entity being Sun Life Capital Management (U.S.) LLC.

## **Regulation of Insurance Operations - State Level**

In the United States, each state, the District of Columbia, and U.S. territories and possessions has insurance laws that apply to companies licensed to carry on an insurance business in the jurisdiction. The primary regulator of an insurance company, however, is the state insurance department or equivalent body located in its state of domicile. Most jurisdictions have laws and regulations governing the financial aspects of insurers, including standards of solvency, reserves, reinsurance, capital adequacy and the business conduct of insurers. In addition, the laws of the various states provide state insurance regulators with broad administrative powers to approve policy forms and related materials and approve rates for certain lines of insurance, grant and revoke licenses to transact business, regulate trade practices, license agents, and require statutory financial statements. The primary purpose of such regulation is the protection of policyholders and consumers, rather than shareholders.

The National Association of Insurance Commissioners (“NAIC”) is the U.S. standard-setting and regulatory support organization created and governed by the chief insurance regulators from the 50 states, the District of Columbia and five U.S. territories. Through the NAIC, state insurance regulators establish standards and best practices, conduct peer review, and coordinate their regulatory oversight. NAIC members, together with the central resources of the NAIC, form the national system of state-based insurance regulation in the United States.

The U.S. Branch and SLF Inc.’s U.S. life and health insurance subsidiaries are subject to the insurance holding company laws and regulations in the states in which they are domiciled (or deemed to be commercially domiciled). Most states’ insurance holding company laws generally require each insurer that is domiciled therein and that is a member of a holding company system to register with the insurance regulatory authority of that state and, annually, to furnish those authorities with certain reports that include information concerning capital structure, ownership, financial condition, certain intercompany transactions and general business operations. In addition, under most states’ holding company laws, transactions within the holding company system to which the domestic insurer is a party must be fair and equitable and such insurer’s policyholder surplus following any such transaction must be both reasonable in relation to its outstanding liabilities and adequate for its needs. Most states require prior regulatory approval of the change of control of the domestic insurer or an entity that controls the domestic insurer and prior notice or regulatory approval of certain intercompany transfers of assets or other material affiliate transactions to which a domestic insurer is a party. Generally, under such laws, a state insurance authority must approve in advance the direct or indirect acquisition of 10% or more of the voting securities of an insurance company domiciled in the state.

SLF Inc.’s U.S. special purpose financial captive insurance companies are subject to the laws and regulations applicable to captive insurers in their states of domicile, as well as the terms of the business plans approved by, and the licensing orders issued by, the companies’ domestic regulators. Generally, a special purpose financial captive insurance company is required to seek regulatory approval prior to taking any action that would deviate from the activities described in its approved business plan or specifically permitted by the licensing order issued by its domestic regulator.

The U.S. Branch and SLF Inc.’s U.S. life and health insurance subsidiaries are required to file detailed annual and quarterly financial statements with state insurance regulators in each of the states in which they are licensed, and their business and accounts are subject to examination by such regulators at any time. Regulators have authority to limit or prohibit the ability to issue new policies if, in their judgment, an insurer is not maintaining sufficient surplus or capital or if the further transaction of business would be detrimental to policyholders.

As part of their oversight process, state insurance departments conduct detailed examinations periodically (generally, every three- to five-years) of the financial condition and market conduct of insurance companies domiciled in their states. The latest published examination reports of the U.S. Branch and SLF Inc.’s U.S. life and health insurance companies did not raise any material issues or adjustments. In addition to the periodic examinations, states will on occasion perform targeted market conduct reviews that may cover, among other things, content of disclosures, advertising, sales practices and complaint handling. Examinations are periodically conducted, in cooperation with the departments of other states, under guidelines published by the NAIC.

### ***Restrictions on Dividends***

The amount of dividends that an insurance company may pay to its parent without prior regulatory approval is regulated under the U.S. state insurance holding company laws and regulations and under the terms of licensing orders issued by various states.

### ***NAIC IRIS Ratios***

The NAIC has developed a set of financial relationships or “tests” known as the Insurance Regulatory Information System (“IRIS”) to assist state regulators in monitoring the financial condition of insurance companies and identifying companies that may require special attention or action by insurance regulatory authorities. A second set of confidential ratios, called the Financial Analysis Solvency Tracking System, is also used for monitoring. Insurance companies generally submit data to the NAIC, which in turn analyzes the data using prescribed financial data ratios, each with defined “usual ranges”. Having ratios that fall outside the usual range does not necessarily indicate that a company experienced unfavourable results. Generally, if four or more of an insurance company’s ratios fall outside the usual ranges, regulators will begin to investigate or monitor the company. Regulators have the authority to impose remedies with various degrees of supervision, ranging from increased monitoring to certain business limitations. For the

twelve-month period ended December 31, 2018, the most recent period for which results are available, SLF Inc.'s U.S. life and health insurance subsidiaries were within the usual ranges for most of the IRIS ratios: the U.S. Branch had two ratios outside of the usual ranges, down from four the prior year, which was anticipated in connection with a reinsurance transaction that received regulatory approval. The ratios that were outside the usual ranges did not indicate any adverse solvency issues.

### ***Risk-based Capital Ratio Requirements***

All states have risk-based capital ("RBC") ratio requirements for insurance companies. The NAIC RBC system was created to provide a capital adequacy standard that is related to risk, raises a safety net for insurers, is uniform among the states, and provides regulatory authority for timely action. The RBC system requires an insurer to calculate a minimum amount of capital that it must maintain to support the various risks to which it is exposed. A separate factor is used across each major risk category, and may vary by primary insurance type. RBC focuses on the material risks that are common for the particular insurance type. For life and health insurance, RBC considers investment risk, insurance risk, interest rate risk, and other market and business risks, by applying factors to various amounts presented in the company's statutory financial statements. The RBC framework was updated in 2018 to incorporate the impacts of the Tax Cuts and Jobs Act of 2017. For the year ended December 31, 2019, the RBC ratio for the U.S. Branch and SLF Inc.'s U.S. life and health insurance subsidiaries is expected to exceed the levels under which any remedial or regulatory action would be required.

### ***Statutory Reserves***

State insurance laws require life and health insurance companies to analyze the adequacy of their reserves annually. The appointed actuary for the U.S. Branch and SLF Inc.'s other U.S. life and health insurance subsidiaries must submit an opinion that such reserves, when considered in light of the assets held with respect to those reserves, make adequate provision for the associated contractual obligations and related expenses of the U.S. Branch and each of SLF Inc.'s life and health insurance subsidiaries. If such opinion cannot be provided, the affected insurer must set up additional reserves.

Under NAIC rules, life and health insurance companies must maintain an asset valuation reserve ("AVR"), which is a provision for potential asset credit defaults. The size of the AVR depends upon the composition and results of a company's investment portfolio. These reserves are recorded for purposes of statutory accounting practices; they are not recorded under the provisions of IFRS and therefore have no impact on SLF Inc.'s reported results of operations or financial position. The AVR affects the determination of statutory surplus, and changes in such reserves may affect the ability of SLF Inc.'s U.S. life and health insurance subsidiaries to pay dividends or other distributions to their respective parents and also may affect the amounts required to be maintained in trust by the U.S. Branch (see discussion below under Minimum Statutory Surplus and Capital).

In 2016, laws related to the implementation of principles-based reserving reached the threshold required to enact principles-based reserving and became operative on January 1, 2017. Companies had a three year window to become compliant with the law. This change will have little impact on SLF Inc.'s U.S. life and health insurance subsidiaries based on their current product offerings.

### ***Minimum Statutory Surplus and Capital***

The U.S. Branch and SLF Inc.'s U.S. life and health insurance subsidiaries are required to have minimum statutory surplus and capital of various amounts, depending on the states in which they are licensed and the types of business that they transact.

The U.S. Branch is required to maintain a certain amount of assets in trust with a financial institution acceptable to the Director of Michigan's Department of Insurance and Financial Services (the "Michigan Director") in an amount at all times at least equal to the sum of the U.S. Branch's reserves and other liabilities, the minimum required capital and surplus, and any additional amounts considered necessary by the Michigan Director to cover the U.S. Branch's liabilities. Generally, these assets are available only to meet the obligations of Sun Life Assurance to its U.S. policyholders, claimants and other U.S. Branch creditors. Amendments to the trust agreement must be approved by the Michigan Director. As at December 31, 2019, the U.S. Branch had assets in trust in excess of Michigan's requirements.

### ***Investments of Insurance Companies***

The U.S. Branch and SLF Inc.'s other U.S. life and health insurance subsidiaries are subject to state laws and regulations that require diversification of their investment portfolios and limit the amount of investments in certain investment categories such as below-investment-grade fixed income securities, equity real estate, foreign investments and equity investments. Failure to comply with these laws and regulations would cause investments exceeding regulatory limits to be treated as non-admitted assets for purposes of measuring surplus and, in some instances, would require divestiture of such non-qualifying investments.

### ***State Guaranty Association Assessments***

All states, the District of Columbia and Puerto Rico require insurers to participate in the local insurance guaranty association. The association may levy assessments for policyholder losses incurred by impaired or insolvent insurers. Generally, assessments up to certain prescribed limits are based upon the proportionate share of premiums written by member insurers in the lines of business in which the impaired or insolvent insurer is engaged. A large part of the assessments paid by SLF Inc.'s U.S. insurance subsidiaries pursuant to these laws may be used as credits for a portion of its U.S. premium taxes.

## Regulation of Insurance Operations - Federal Level

Although the U.S. federal government does not directly regulate the insurance business, federal legislation and administrative policies in several areas apply to the conduct of the insurance business, including age and sex discrimination, investment company regulation, financial services regulation, health care regulation, foreign corrupt practices regulation and federal taxation. For example, the U.S. Congress has, from time to time, considered legislation related to limitations on antitrust immunity and the alteration of the federal income tax structure.

## Regulation of Securities Operations

The investment management activities of SLF Inc.'s U.S. subsidiaries are subject to federal and state laws and regulations in the jurisdictions where they conduct business. MFS and certain of SLF Inc.'s other U.S. subsidiaries are registered as investment advisers under the Investment Advisers Act of 1940, as amended (the "Advisers Act"), which imposes various obligations on registered investment advisers, including fiduciary duties, and disclosure, operational, recordkeeping and reporting requirements.

Several of SLF Inc.'s U.S. subsidiaries issue or have issued products that are registered with the SEC as investment companies under the Investment Company Act of 1940, as amended (the "1940 Act") and which issue securities that are registered under the Securities Act of 1933, as amended (the "1933 Act"). Certain of SLF Inc.'s U.S. subsidiaries provide investment management services to affiliated funds, which similarly are registered as investment companies under the 1940 Act and which issue securities that are registered under the 1933 Act. The 1940 Act and the 1933 Act impose various obligations on registered investment companies and with respect to the securities that they issue, including disclosure, operational, recordkeeping and reporting requirements and, in the case of the 1940 Act, prohibitions or restrictions on certain transactions with affiliates.

Registered investment companies and investment advisers are regulated by and subject to examination by the SEC. The SEC is authorized to institute proceedings and impose sanctions for violations of the U.S. federal securities laws. Failure to comply with applicable securities laws could subject SLF Inc.'s investment companies and investment adviser subsidiaries to a range of regulatory sanctions, including censure, limitations on the registrant's activities, and termination of registration, and could subject its registered investment companies to a cessation of sales or rescission of securities sold.

To the extent that any products are deemed to be securities under U.S. federal or state securities laws, they are qualified for sale as needed in certain states in the United States and the District of Columbia. Marketing and sales of securities products are subject to the Securities Exchange Act of 1934, as amended (the "1934 Act"), and regulations promulgated by the Financial Industry Regulatory Authority ("FINRA").

Certain of SLF Inc.'s U.S. subsidiaries are registered as broker-dealers under the 1934 Act and are subject, for example, to the SEC's net capital rules, and are members of, and subject to regulation by FINRA. Certain other U.S. subsidiaries of SLF Inc. are registered as transfer agents under the 1934 Act.

MFS also conducts business in the European Union ("EU") that is also subject to securities laws and regulations. The revised Markets in Financial Instruments Directive and Regulation (together "MiFID II") became effective on January 3, 2018 and applies across the EU and member states of the European Economic Area ("EEA"). Implementation of MiFID II is having a significant impact on both the structure and operation of EU financial markets. Some of the main changes introduced under MiFID II include applying enhanced disclosure requirements, enhancing conduct of business and governance requirements, broadening the scope of pre and post trade transparency, increasing transaction reporting requirements, transforming the relationship between Client commissions and research, and further regulation of trading venues. In response to MiFID II, MFS is paying for all external investment research for all clients (including non-European clients).

## Other U.S. Regulatory Matters

### *U.S. Tax Reform*

U.S. tax reform legislation was signed into law on December 22, 2017, and became effective on January 1, 2018. This legislation included a number of base broadening measures including provisions limiting the deductibility of certain amounts paid to related foreign taxpayers and expanded rules impacting foreign source income of non-US affiliates. There is still some uncertainty surrounding the provisions limiting the deductibility of interest payments to related foreign taxpayers. Interpretive guidance on these provisions, in the form of Final Regulations, are expected to be issued by the U.S. in 2020.

### *The Dodd-Frank Act*

The Wall Street Reform and Consumer Protection Act ("Dodd-Frank Act"), which was signed into law in July 2010, enacted numerous legal and regulatory changes for the financial services industry, which have been gradually implemented over the ensuing years.

The Dodd-Frank Act mandated the U.S. federal regulation of the over-the-counter ("OTC") derivatives market and granted new joint regulatory authority to the SEC and the U.S. Commodity Futures Trading Commission ("CFTC") over OTC derivatives. While the SEC and CFTC continue to promulgate additional rules, certain of SLF Inc.'s derivatives operations have become subject to, among other things, new recordkeeping, reporting and documentation requirements. In addition, certain non-cleared derivatives entered into as

part of SLF Inc.'s derivatives operations have become subject to two-way variation margin requirements and may become subject to two-way initial margin requirements beginning in 2021. These margining requirements are expected to increase the cost and reduce the availability of non-cleared derivatives. Collectively, the Dodd-Frank Act requirements have increased the direct and indirect costs of the Company's hedging and related activities and will likely increase them further in the future.

### **LIBOR**

Uncertainty relating to the LIBOR and other Interbank Offer Rates ("IBORs") calculation process and the anticipated phasing out of LIBOR and other IBORs after December 31, 2021, may adversely affect the value of SLF Inc.'s derivatives and floating rate securities investments (collectively, the "Investments") that are LIBOR or IBOR-based. On July 27, 2017, the UK Financial Conduct Authority, which regulates the panel banks that submit quotes to the ICE Benchmark Administration (which is responsible for computing LIBOR) for the purpose of calculating LIBOR, announced that it will no longer require or compel panel banks to submit rates for the calculation of the LIBOR rates after December 31, 2021. At this time, it is not clear whether certain IBORs will be discontinued, but the suspension, discontinuance or unavailability of some IBORs is anticipated. In addition, regulatory and industry initiatives concerning LIBOR and other IBORs, such as a change in the compiling body, sponsor or administrator of LIBOR and other IBORs, could result in changes or modifications affecting LIBOR or IBOR-based investments like the Investments.

In the United States, the Alternative Reference Rates Committee of the Federal Reserve Board has identified the Secured Overnight Financing Rate ("SOFR") as the replacement rate for USD LIBOR. SOFR is a broad measure of the cost of borrowing cash overnight collateralized by Treasury securities. During the third quarter of 2018, certain market participants began moving towards the utilization of SOFR as a possible LIBOR replacement through the issuance of debt securities indexed to SOFR. It is expected that some of these, and other, market participants will continue or begin to transition to SOFR in anticipation of the cessation of USD LIBOR after December 31, 2021. However, there can be no guarantee that alternative rates will be developed, that SOFR will become the dominant alternative rate to USD LIBOR, or that SOFR will be widely used. A transition to SOFR or another replacement rate (whether prior to or after December 31, 2021) may adversely affect the trading of USD LIBOR-based investments, including the Investments, insofar as their value, liquidity, return, and usefulness for intended purpose are concerned. While it may be possible to convert SOFR into an approximate USD LIBOR-equivalent rate by developing a term rate or by adding, subtracting or otherwise incorporating one or more interest rate spreads, or by making other appropriate adjustments to minimize, to the extent possible, discrepancies between LIBOR and SOFR, the feasibility and appropriateness of such adjustments will depend on a variety of factors, including market conditions, monetary policy, and factors affecting SOFR's or USD LIBOR's integrity during the transition.

Similar benchmark reform is also underway in several other countries, where working groups (including, but not limited to, the Canadian Alternative Reference Rate Working Group in Canada and the Working Group on Risk-Free Reference Rates for the Euro Area in the European Union) have identified, and are considering the implications of a transition to, alternative secured or unsecured (depending upon the jurisdiction) "risk free" transaction-based rates, which may or may not have been published at the time of this disclosure. For example, in the UK, the regulators are working with market participants to catalyse a transition from LIBOR to the Sterling Overnight Index Average as the primary interest rate benchmark in sterling markets.

At this time, it is difficult to predict the effect of any changes to the methodology for calculating LIBOR or other IBORs or of any other benchmark reform that may happen in the United States or elsewhere. Uncertainty as to the nature of potential changes, alternative rates, accounting and tax relief, and other related reforms may adversely affect our operations and cash flows and the value of and return on our investments. Accordingly, we continue to be focused and engaged on developing and implementing an effective transition away from LIBOR and other IBORs.

### **Cybersecurity and Privacy of Client Information**

U.S. regulators at the federal and state level are increasing their focus on cybersecurity. In particular, U.S. insurance regulators have begun to adopt new laws and regulations designed to address specific cyber risks. These laws and regulations require licensees, including SLF Inc.'s U.S. insurance subsidiaries, to implement risk-based information security programs; establish detailed procedures for investigating cybersecurity events, assessing risk, and overseeing third-party service providers; and comply with increased regulatory reporting requirements.

In addition, U.S. federal and state laws require financial institutions, including insurers, investment companies and investment dealers, to protect the security and confidentiality of Client information and to notify Clients about the institution's policies and practices relating to its collection, use and disclosure of client information. States are starting to enact new consumer focused privacy laws that will significantly change data privacy requirements in the U.S., impose greater penalties for non-compliance, and provide for consumer rights to access and delete their personal information and private rights of action.

These laws and regulations will increase the costs and compliance obligations associated with the Company's information security and administration activities.

### **The Affordable Care Act**

The Patient Protection and Affordable Care Act ("Affordable Care Act") enacted significant legal and regulatory changes for the health care and insurance industries with a primary goal of increasing the number of Americans with health insurance coverage.

While the law's changes are primarily directed at traditional health insurance products not offered by the U.S. Branch and SLF Inc.'s U.S. life and health insurance subsidiaries, the Affordable Care Act has led to an increase in the number of employers choosing to self insure their health plans. The expansion of the self-insured health plan market has positively impacted our medical stop-loss business.

### ***The USA PATRIOT Act of 2001***

The USA PATRIOT Act of 2001 (the "PATRIOT Act") seeks to promote cooperation among financial institutions, regulators and law enforcement agencies in identifying parties that may be involved in terrorism, money laundering or other illegal activities. Regulations applicable to the insurance industry require insurance companies issuing "covered products" to implement anti-money laundering programs and file suspicious activity reports with the U.S. Treasury Department. SLF Inc.'s U.S. subsidiaries that issue covered products and its U.S. broker-dealer subsidiaries have implemented anti-money laundering programs to comply with the PATRIOT Act regulations and with the Office of Foreign Assets Control requirements with respect to anti-terrorist financing.

### ***Paid Family and Medical Leave***

A growing number of states have passed or are considering mandated paid family and medical leave ("PFML") programs. These programs generally provide partial income protection for an employee who is unable to work on account of his or her own serious health condition or for various family care reasons. There are a number of PFML proposals at the federal level as well. While PFML programs overlap with short term disability coverage and, as a result, could have a negative impact on the short term disability marketplace in which the U.S. Branch and SLF Inc.'s U.S. life and health subsidiaries operate, these programs also offer an opportunity for insurers to build new products to serve an emerging market.

### **United Kingdom**

SLF Inc. does not carry-on business and is not regulated as an insurance or asset management company in the UK. However, it is the indirect owner of Sun Life Assurance Company of Canada (U.K.) Limited ("Sun Life (UK)"), which is authorized and regulated as an insurance company in the UK. Insurance supervision in the UK is performed by two financial services regulators, the Financial Conduct Authority ("FCA") and the Prudential Regulation Authority ("PRA"). In addition, there are several other UK regulatory bodies of financial services with whom Sun Life (UK) is required to maintain compliance.

The FCA's statutory objective is to ensure that the markets it regulates function well. It also has three operational objectives: to secure an appropriate degree of protection for consumers; to protect and enhance the integrity of the UK financial system and to promote effective competition in the interests of consumers.

The PRA is responsible for ensuring the effective prudential regulation of insurance companies. It has two primary statutory objectives: to promote the safety and soundness of its regulated firms and to ensure policyholders are appropriately protected. It also has a secondary objective to facilitate effective competition in the markets for services provided by PRA-authorized firms.

### **Insurance Regulation**

Sun Life (UK) carries out certain regulated activities in the UK in relation to long-term contracts of insurance. Insurance companies in the UK are required to meet certain threshold conditions and to conduct their business in accordance with the provisions set out in the FCA Handbook and the PRA Rulebook. Under these requirements, Sun Life (UK) must maintain systems, procedures and controls appropriate to the nature, scale and complexity of its business, to conduct its business with due regard to the interests of its Clients and to treat them fairly. It is also required to file financial statements and other information returns with the FCA and PRA on a regular basis.

Sun Life (UK) is regulated as a "standard formula" firm under the Solvency II insurance regime in effect within the EU and EEA. This requires it to monitor and annually review this standard formula approach to ensure it holds a level of capital appropriate to its risk profile, and report to the regulator its ongoing compliance in that respect.

Solvency II includes a group supervision regime that applies to groups wholly operating within the EEA and to companies that carry on business in the EEA as part of insurance groups, such as Sun Life, that are located outside the EEA. Sun Life (UK), its ultimate EEA holding company (SLF of Canada UK Limited), and a number of small, mostly inactive and un-regulated entities are supervised on a group basis. A rule modification is currently in place between Sun Life (UK) and the PRA to meet the requirements of the group supervision regime that excludes SLF Inc. from its scope. This permission has been granted until December 31, 2022.

As a member of the EU, the UK was subject to specific European regulation and European Commission Directives relevant to Sun Life (UK)'s business. Following the UK's withdrawal from the EU, it is expected that EU legislation will continue to apply to UK firms. Also, individual EU/EEA regulators may seek certain additional returns from Sun Life (UK) to meet their local requirements as National Competent Authorities.

## Restrictions on Dividends and Capital Transactions

Sun Life (UK) is subject to the guidelines set out by the PRA and the provisions of the Companies Act 2006 governing the payment of dividends, which prevent any distribution by a company except out of profits available for this purpose.

## Financial Ombudsman Service

Insurance companies operating in the UK are subject to the regulation of the Financial Ombudsman Service (“FOS”) which provides consumers with a free and independent service to resolve disputes between consumers and financial services firms. The FOS is empowered to order firms to pay compensation for consumer losses and to take steps to remedy a complaint.

## Financial Services Compensation Scheme

The Financial Services Compensation Scheme provides for the protection of certain individual financial services consumers who may be affected by the inability of financial services companies, including insurance companies, who carry on regulated business in the UK to meet their liabilities.

## The Pensions Regulator

The Pensions Regulator is the regulator of workplace pension schemes and has agreed a joint strategy with the FCA that aims to take joint action to deliver better outcomes for pension savers and those entering retirement.

## Intervention

Both the FCA and the PRA have extensive powers to intervene in the affairs of an authorized insurance company. These include the power to fine an authorized company and to vary or cancel its permission to carry on regulated activities in the UK, to request information or documents, to investigate the business of the company and to require the company to take appropriate actions to satisfy required threshold conditions for authorization. In addition, Sun Life (UK) is subject to the FCA and the PRA’s Senior Managers and Certification Regime, which became effective in December 2018. This regime includes the introduction of a certification process for individuals whose roles have the potential to significantly harm the firm if they are not carried out correctly. Also, the majority of Sun Life (UK) staff will be subject to the FCA’s Individual Conduct Rules with effect from December 2019, with firms being obliged to inform the FCA and PRA if formal disciplinary action is taken against any staff member as a result of any of these Conduct Rules being breached.

## Regulatory Methodology

In order to pursue its objectives, the PRA imposes standards or policies that govern the actions of regulated entities and supervises these by assessing the risks each entity poses to the PRA’s objectives and, where necessary, takes action to reduce them.

The FCA also applies a risk and outcomes based regulatory methodology. Its focus is towards the outcomes achieved by firms and individuals, rather than primarily applying a prescriptive, rules-based regime to regulate processes. The FCA has highlighted that, as part of outcomes focused regulation, it wishes to work more closely with firms, particularly as strategic initiatives are announced, to fully work through the implications of any such changes and challenge management’s thinking at an early stage to ensure the correct regulatory outcomes. While treating Clients fairly continues to be a major focus of the FCA’s regulatory reviews, the FCA continues to place emphasis on the wider subject of conduct risk. Both regulators have publicly stated their intention to be proportionate and forward looking, in order to anticipate and deal with risks before they crystallize.

## Asia

Sun Life carries on business through subsidiaries, joint ventures or associates in the Philippines, Hong Kong, Indonesia, India, China, Vietnam and Malaysia. The operations of our subsidiaries, joint ventures and associates in Asia are subject to the local regulatory and supervisory schemes in the jurisdictions in which they operate, which varies from country to country, but the regulators typically grant (or revoke) licenses to operate and control the ability of a company to operate an insurance business in that country. In general, the applicable legislation in a particular country includes features governing the registration of agents, regulation of product features and product approvals, asset allocation, minimum capital, the basis for calculating solvency and reserves, the valuation of policyholder liabilities, conditions for outsourcing non-core functions, policyholder and investor protection, and money laundering, know-your-Client and terrorist financing requirements. Regulatory authorities may also regulate affiliations with other financial institutions, shareholder structures and may impose restrictions on declaring dividends and the ability to effect certain capital transactions and many jurisdictions require insurance companies to participate in policyholder protection schemes.

## Philippines

Our operations in the Philippines, established in 1895, distribute a diverse range of insurance and savings products largely through our career agency sales force and bancassurance channel. We offer individual and group life and health insurance products to individuals and businesses through our wholly-owned subsidiary, Sun Life of Canada (Philippines), Inc. (“Sun Life Philippines”), and our joint venture with the Yuchengco Group, Sun Life Grepa Financial, Inc. (“Sun Life Grepa”), in which we have a 49% ownership stake. In addition, we offer mutual funds and pre-need products respectively through Sun Life Philippines’ wholly-owned subsidiaries, Sun Life Asset Management Company, Inc. (“Sun Life Asset Management (Philippines)”) and Sun Life Financial Plans Inc. (“SLFPI”). There are no foreign ownership restrictions applicable to life insurance, mutual funds, or pre-need businesses in Philippines.

Sun Life Philippines and Sun Life Grepa are life insurance companies incorporated in the Philippines and governed by the Insurance Code. Sun Life Philippines offers individual and group life and health insurance products through its agency sales force. Sun Life Grepa offers its individual and group life products through an agency sales force and through bancassurance distribution arrangements. The Insurance Commission supervises and regulates the operations of life, non-life, and pre-need companies.

Life insurance companies in the Philippines are required at all times to maintain the minimum net worth requirements prescribed by regulations. Current minimum net worth requirements are 550 million Philippine Pesos (Php), the total amount of which increased to Php900 million in 2019 and will increase to Php1.3 billion by 2022. In addition, life insurance companies must maintain a minimum risk-based capital (RBC) ratio of 100% as prescribed in the Risk-Based Capital Framework.

Sun Life Asset Management (Philippines) is a mutual fund manager and distributor and is governed by the Securities Regulation Code and the Investment Company Act. SLFPI is governed by the Pre-Need Code and offers pension and education plans in the Philippines, and is supervised and regulated by the Insurance Commission.

The Securities and Exchange Commission supervises and regulates the operations of investment company advisers and mutual fund companies and issues licenses to these companies and other securities market participants.

## Hong Kong

Our Hong Kong operations offer a full range of products to address insurance and savings needs. We offer individual life and health insurance, mandatory provident funds (the government-legislated pension system) and pension administration to individuals and businesses through a career sales agency force and independent financial advisors.

Sun Life Hong Kong Limited is licensed to carry on the business of “long-term” insurance and is regulated under the Hong Kong Insurance Ordinance by the Insurance Authority (“IA”), which oversees the authorization and regulation of insurance companies. The IA took over from the previous government-funded regulator, the Office of the Commissioner of Insurance, on June 26, 2017 to enhance the regulatory regime. In September 2019, the IA took over the regulation of insurance intermediaries from the existing self-regulatory organisations through a statutory licencing regime. The Insurance Agents Registration Board under the Hong Kong Federation of Insurers (a self-regulatory body of the insurance industry) is currently responsible for registering insurance agents. Our Hong Kong operations are also regulated by the Hong Kong Securities and Futures Commission, which approves the marketing materials of investment linked products, and the Mandatory Provident Fund Schemes Authority, which oversees the supervision and regulation of mandatory provident fund schemes and occupational retirement schemes, as well as the trustees and intermediaries who administer and distribute these schemes.

In Hong Kong, long-term insurance companies are required to maintain at all times a required solvency margin. The required solvency margin is the higher of \$2 million Hong Kong dollars (HKD) or the aggregate of two components: a percentage of the mathematical reserves and a percentage of the capital at risk as prescribed under the Insurance Companies (Margin of Solvency) Regulation (which is generally 4% of the mathematical reserves and 0.3% of the capital at risk). For a long-term insurer, the value of its assets must be greater than the amount of its liabilities by at least the required solvency margin. The minimum paid-up capital for insurers in Hong Kong is HKD\$10 million. The actual capital requirement depends on the business undertaken by the insurer.

## Indonesia

In Indonesia, we offer individual life and health insurance, as well as creditor life insurance through our wholly-owned subsidiary, PT Sun Life Financial Indonesia.

PT Sun Life Financial Indonesia is licensed to carry on insurance business in Indonesia and can distribute life insurance products. PT Sun Life Financial Indonesia can additionally manufacture and distribute Shariah products through its Shariah unit.

The Otoritas Jasa Keuangan (“OJK”) is the regulator responsible for supervising the insurance industry. The Indonesia Life Insurance Association (“AAJI”) continues to act as a conduit between insurers and the Ministry of Finance and the OJK in terms of the development of new regulations and guidelines. Insurance sales forces are licensed by the AAJI. The Indonesia Sharia Insurance Association acts in the similar capacity as AAJI in relation to the Shariah business. The implementation of anti-money laundering controls in the insurance industry is monitored by the Indonesian Financial Transaction Reports and Analysis Center.

Life insurance companies in Indonesia are required to maintain a minimum solvency ratio of 120% of the minimum required capital and must have minimum shareholder equity of 100 billion Indonesian Rupiah.

In October 2014, legislation was enacted in Indonesia that introduced significant changes to the insurance sector in Indonesia, including establishing single presence requirements, establishing local ownership requirements to be prescribed by regulations, establishing an insurance guarantee program, requiring that Shariah (Takaful) products are distributed through separate standalone insurance companies within 10 years, requiring the appointment of a controlling entity that will be responsible for losses of the insurance company under its control and imposing stiffer penalties and sanctions for non-compliance. The Government Regulation

which regulates local/foreign ownership requirements was issued in April 2018 and since then a grandfathering provision has been included to allow existing ownership by a foreign shareholder to be maintained.

## Vietnam

In Vietnam, we offer a diverse range of insurance, savings, investment and pension products through our wholly owned subsidiary Sun Life Vietnam Insurance Company Limited (“Sun Life Vietnam”). There are no foreign ownership restrictions applicable to Sun Life Vietnam, however, a transfer of 10% or more of the charter capital of any life insurer must be approved by the Ministry of Finance of Vietnam (“MOF”).

Insurance operations in Vietnam are mainly regulated by the MOF, which sets the standards on all insurance business matters, including product approvals, limits on commission rates payable on insurance products, actuarial liability valuation, and solvency requirements. Life insurers have responsibility for legal capital of Vietnamese Dong (VND) 600 billion and that a security deposit equal to 2% of the legal capital be maintained at a commercial bank in Vietnam. Life insurers that sell pension products are required to have a minimum legal capital of VND 800 billion and minimum equity of VND 1,000 billion and a solvency margin of VND 300 billion over the minimum solvency margin. The MOF also requires life insurers to maintain minimum reserves and a minimum solvency margin of 4% of insurance reserves plus either (i) 0.1% of sums at risk for policies with a term of five years or less, or (ii) 0.3% of the sums at risk for policies with a term over five years. An additional solvency margin of VND 100 billion over the minimum solvency margin is also required for companies transacting universal life business and additional amounts of capital may be required to enter other lines of business. Life insurers must also establish a reserve fund to ensure their solvency. The annual contribution is 5 per cent of after-tax profits up to a maximum of 10 per cent of an insurer’s charter capital.

Sun Life Vietnam’s products are distributed through a career agency sales force, including both individual agency and corporate agency, for individual Clients and through a general agency for corporate Clients.

## India

ABSLI, our insurance joint venture with the Aditya Birla Group in India in which we have a 49% stake, provides a full range of individual and group insurance, savings and retirement products through a multi-channel distribution network, including an agency sales force, bancassurance distribution, brokers and worksite marketing.

Insurance operations in India are regulated by the Insurance Regulatory & Development Authority of India, whose duties include issuing certificates of registration to insurance companies, protecting the interests of policyholders, and regulating, promoting and ensuring the orderly growth of the insurance industry. In recent years, a number of regulatory changes have been introduced, affecting matters that include product design and structure including commissions, distribution, investments, expense management, risk management, corporate governance and grievance handling.

Life insurance companies in India are expected to maintain a Minimum Solvency Ratio (Total Assets Available for Solvency / Required Solvency Margin) of 150% at all times, where the Required Solvency Margin is an amount calculated by applying specified factors to reserves and amounts-at-risk. Life insurance companies are required to maintain their Available Solvency Margin at a level which is not less than the greater of fifty per cent of the amount of minimum required capital and one hundred percent of Required Solvency Margin. The Minimum Paid-up Capital for life insurers is INR 1 billion.

The foreign investment limit in the insurance sector in India is 49% of the equity share capital in an Indian insurance company. In addition, prior approval is required from the Insurance Regulatory & Development Authority of India for any sale of shares over 1% of the total equity share capital and any purchase of more than 5% of the equity share capital and increases in foreign investment in an Indian insurance company must comply with the pricing guidelines specified by the Reserve Bank of India and Guidelines on Indian Owned and Control.

Aditya Birla Sun Life Pension Management Limited (formerly Birla Sun Life Pension Management Limited) (“ABSLPML”) is a wholly owned subsidiary of ABSLI. ABSLPML’s business offers pension solutions and acts as Pension Fund Manager under the National Pension Scheme Trust of the National Pension System (“NPS”) to manage pension funds in the private sector according to the provisions of the NPS, the schemes, and the guidelines issued by the Pension Fund Regulatory and Development Authority. Mutual funds and portfolio management services in India are regulated by the guidelines and regulations issued by the Securities and Exchange Board of India and various other applicable statutes.

Aditya Birla Sun Life AMC Limited (formerly known as Birla Sun Life Asset Management Company Limited) (“ABSLAMC”), our asset management joint venture in India in which we have a 49% stake, offers mutual fund products and portfolio management services, and is registered with the Securities and Exchange Board of India to act as an investment manager to the funds launched under Alternative Investment Funds: Category II and Category II. ABSLAMC acts as an investment manager to two offshore funds. ABSLAMC has also set up wholly owned subsidiaries in Singapore, Dubai and Mauritius.

## China

Sun Life Everbright Life Insurance Company Limited is a Chinese domestic life insurance company in which we have a 24.99% ownership stake. It operates a multi-distribution model that combines a direct career agency, financial consultants, telemarketing and bancassurance alliances to sell individual life and health insurance and savings products.

Sun Life Everbright Life Insurance Company Limited has a 99% ownership stake in Sun Life Everbright Asset Management Co., Ltd, which carries on business in China as an insurance asset management company.

The insurance industry is regulated by the China Banking and Insurance Regulatory Commission (“CBIRC”), which is an agency authorized by the State Council of the People’s Republic of China. The CBIRC has authority to: (i) promulgate laws and regulations applicable to the insurance industry and insurance market participants; (ii) approve and examine insurance companies and insurance intermediaries in China and, where applicable, abroad; (iii) establish investment regulations; (iv) approve and examine the policy terms and premium rates for insurance products; (v) set standards to measure the financial soundness of insurance companies; (vi) require insurance companies to submit reports concerning their business operations and condition of assets; and (vii) order the suspension of all or part of an insurance company’s business.

Currently, Chinese life insurance companies are allowed to invest in the following assets (subject to the satisfaction of conditions prescribed for each form of investment): bank deposits, government bonds of China, government agency bonds, corporate bonds, stocks, securities investments funds, real estate, domestic financial derivatives such as forwards, options and interest rate swaps, certain products of commercial banks, trust companies, securities companies and insurance asset management companies, and other investment channels as approved by the State Council.

The minimum paid-up capital of an insurance company is 200 million Chinese yuan (RMB) and there are additional capital requirements when additional branches are established.

Insurance asset management companies are also regulated by the insurance regulatory agency under the State Council and may conduct the following businesses: (i) managing funds in RMB or foreign currencies entrusted to it by its Clients; (ii) managing its own funds in RMB or foreign currencies; (iii) offering insurance asset management products; and (iv) other businesses approved by the insurance regulator or other departments of the State Council.

The investment of insurance funds by insurance asset management companies is subject to the same requirements and limitations applicable to the investment activities of insurance companies. Custodians are designated for funds managed by insurance asset management companies and the custodians must be independent commercial banks or financial institutions that satisfy regulatory requirements. The registered capital of an insurance asset management company may not be less than RMB100 million or the equivalent amount of other freely convertible currencies.

Effective January 1, 2020, the CBIRC lifted the 51% cap on foreign ownership in Chinese life insurance companies. In September 2019, the CBIRC also implemented an amendment to the Administrative Regulations on Foreign-Invested Insurance Companies, which relaxes market access by removing the requirement that a foreign insurance company must have engaged in insurance business for more than 30 years and have maintained a representative office in China for at least two years before it can establish a foreign invested insurance company in China.

## Malaysia

Our operations in Malaysia offer individual and group insurance and takaful products through Sun Life Malaysia Assurance Berhad and Sun Life Malaysia Takaful Berhad, our joint ventures with Khazanah Nasional Berhad and CIMB Group Holdings Berhad, in which we have a 49% ownership stake. The companies have an exclusive bancassurance agreement with CIMB Group to distribute insurance and takaful products through the CIMB bank network across Malaysia. The companies have expanded their distribution channel to include other bancassurance partners, tied agency distribution and telco-assurance.

The central bank of Malaysia, Bank Negara Malaysia, regulates entities carrying on the insurance business and requires life insurers to have a minimum paid-up capital of Ringgit Malaysian 100 million. Bank Negara Malaysia also requires insurers to maintain a capital adequacy level that is commensurate with their risk profiles under a risk-based capital framework and has set a minimum Supervisory Target Capital Adequacy Level of 130 per cent. There is a 70% limit on foreign equity ownership in insurance companies in Malaysia.

## Bermuda

Sun Life Assurance and certain SLF Inc. subsidiaries carry on insurance and investment business in or from Bermuda and are regulated as insurance or investment companies, as the case may be, in that jurisdiction. The Bermuda Monetary Authority (“BMA”) is the primary regulator of domestic and international insurance and investment companies carrying on business in or from Bermuda, and has regulatory authority for licensing and registration matters. The BMA has broad supervisory powers to regulate licensees under the Insurance Act 1978 and the Investment Business Act 2003, and is also the designated supervisory authority over the financial services industry in respect of Bermuda’s Proceeds of Crime Act anti-money laundering legislation. In accordance with

these and related laws, Sun Life Assurance and certain subsidiaries of SLF Inc. are subject to requirements governing their solvency, financial reporting, and business conduct.

## Other Jurisdictions

In each of the countries in which our other subsidiaries, joint ventures and associates operate, local regulatory authorities supervise and monitor their business and financial condition. In a number of countries, certain insurance subsidiaries, joint ventures and associates are required to meet specific minimum working and regulatory capital requirements. Certain of our subsidiaries, including MFS and its subsidiaries, joint ventures and associates, also conduct business in various countries, including Singapore, Japan and Australia, that are subject to securities laws and regulations, which vary from country to country.

## Risk Factors

This section provides a summary of some of the significant risks that could affect (and, in some cases, are affecting) our business, reputation, financial condition or results of operations. As a large financial services organization operating in a complex industry, the Company encounters a variety of risks. We are subject to financial and insurance risks that are connected to our liabilities and also in connection with the management and performance of our assets, including how we match returns from assets with the payment of liabilities to our Clients. We also face risks in formulating our business strategy and business objectives, in carrying on our business activities in the pursuit of our strategy and objectives, and from external factors such as changes in the economic, political, competitive and regulatory environments. These risk factors have been grouped as outlined in our Risk Management Framework into six major categories: market, insurance, credit, business and strategic, operational and liquidity risks. Other risks, not specified below, may exist but are not considered to be material at the present time may also impact our business in the future. This information should be considered carefully together with other information in this AIF and in the 2019 MD&A, the 2019 Consolidated Financial Statements and other reports and materials that we file with securities regulators.

These risks may occur independently or in combinations, and may occur simultaneously or in an environment where one or more risks evolve rapidly. For example, a major global pandemic could have a material adverse impact on mortality and claims experience. Such an event may also trigger adverse global capital markets developments, including a downturn in equity market levels and interest rates, increased market volatility and credit deterioration, and could also lead to operational risks such as disruptions in third party service arrangements.

While a number of risks that are described below provide examples of inter-connectedness and relationships between risks, these do not represent a complete inventory. It should be noted that these relationships can continue to develop and change over time, and the combined adverse impact on our profitability, financial position, and reputation could be significantly greater than the sum of the individual parts. Our assessment of the impact and probability of these risks changes over time.

A description of our risk management approach can be found under the heading Risk Management in our 2019 MD&A. Many of the risk factors set out below contain forward-looking statements.

### Market Risk

We are exposed to financial and capital market risk, which is defined as the risk that the fair value or future cash flows of an insurance contract or financial instrument will fluctuate because of changes or volatility in market prices. Market risk includes equity, interest rate and spread, real estate and foreign currency risks.

### Equity Risk

Equity risk is the potential for financial loss arising from declines or volatility in equity market prices. We are exposed to equity risk from a number of sources. A portion of our exposure to equity risk arises in connection with benefit guarantees on segregated fund contracts and variable annuities. These benefit guarantees may be triggered upon death, maturity, withdrawal or annuitization. The cost of providing for these guarantees is uncertain and will depend upon a number of factors, including general capital market conditions, underlying fund performance, policyholder behaviour and mortality experience, which may result in negative impacts on our net income and capital.

While a large percentage of these variable annuity and segregated fund contracts are included in our hedging program, not all of this exposure is hedged. For those contracts included in our hedging program, we generally hedge the value of expected future net claims costs and associated margins, as we are primarily focused on hedging expected economic costs associated with providing the guarantees. Since the value of benefits being hedged will generally differ from the financial statement value (due to different valuation methods and the inclusion of valuation margins in respect of financial statement values), this approach will result in residual volatility to equity market shocks in reported income and capital. The general availability and cost of these hedging instruments may be adversely impacted by a number of factors, including changes in interest rates, increased volatility in capital markets and changes in the general market and regulatory environment within which these hedging programs operate.

Our hedging programs may themselves expose us to other risks such as basis risk (the risk that hedges do not exactly replicate the underlying portfolio experience), derivative counterparty credit risk, increased levels of liquidity risk, model risk and other

operational risks. These factors may adversely impact the net effectiveness, costs and financial viability of maintaining our hedging programs and therefore adversely impact our profitability and financial position. While our hedging programs include various elements aimed at mitigating these effects (for example, counterparty credit risk is managed by maintaining broad diversification, dealing primarily with highly rated counterparties and transacting through over-the-counter contracts cleared through central clearing houses, exchange-traded contracts or bilateral over-the-counter contracts negotiated directly between counterparties that include applicable credit support annexes), residual risk and potential reported earnings and capital volatility remain. In addition, regulations for over-the-counter derivatives could impose additional costs and could affect our hedging strategy.

We generate revenue in our asset management businesses and from certain insurance and annuity contracts where fees are levied on account balances that are affected directly by equity market levels. Accordingly, we have further exposure to equity risk as adverse fluctuations in the market value of such assets will result in corresponding adverse impacts on our revenue and net income. In addition, declining and volatile equity markets may have a negative impact on sales and redemptions (surrenders) in these businesses, and this may result in further adverse impacts on our net income and financial position.

We also have direct exposure to equity markets from the investments supporting other general account liabilities, surplus, and employee benefit plans. These exposures fall within our risk-taking philosophy and appetite, and are therefore generally not hedged.

### **Interest Rate and Spread Risk**

Interest rate and spread risk is the potential for financial loss arising from changes or volatility in interest rates or spreads when asset cash flows and the policy obligations they support are not matched. This may result in the need to either sell assets to meet policy payments and expenses or reinvest excess asset cash flows in unfavourable interest rate or spread environments. The impact of changes or volatility in interest rates or spreads is reflected in the valuation of our financial assets and liabilities for insurance contracts.

Our primary exposure to interest rate and spread risk arises from certain general account products and segregated fund contracts which contain investment guarantees in the form of minimum crediting rates, guaranteed premium rates, settlement options and benefit guarantees. If investment returns fall below guaranteed levels, we may be required to increase liabilities or capital in respect of these contracts. The guarantees attached to these products may be applicable to both past premiums collected and future premiums not yet received. Segregated fund contracts provide benefit guarantees that are linked to underlying fund performance and may be triggered upon death, maturity, withdrawal or annuitization. These products are included in our asset-liability management program and the residual interest rate exposure is managed within our risk appetite limits.

Declines in interest rates or narrowing spreads can result in compression of the net spread between interest earned on investments and interest credited to policyholders. Declines in interest rates or narrowing spreads may also result in increased asset calls, mortgage prepayments and net reinvestment of positive cash flows at lower yields, and therefore adversely impact our profitability and financial position. Negative interest rates may additionally result in losses on our cash deposits and low or negative returns on our fixed income assets impacting our profitability. In contrast, increases in interest rates or a widening of spreads may have a material impact on the value of fixed income assets, resulting in depressed market values, and may lead to lower LICAT ratios or losses in the event of the liquidation of assets prior to maturity.

Significant changes or volatility in interest rates or spreads could have a negative impact on sales of certain insurance and annuity products, and adversely impact the expected pattern of redemptions (surrenders) on existing policies. Increases in interest rates or widening spreads may increase the risk that policyholders will surrender their contracts, potentially forcing us to liquidate assets at a loss and accelerate recognition of certain acquisition expenses. While we have established hedging programs in place and our insurance and annuity products often contain surrender mitigation features, these may not be sufficient to fully offset the adverse impact of the underlying losses.

We also have direct exposure to interest rates and spreads from investments supporting other general account liabilities, surplus and employee benefit plans. Lower interest rates or a narrowing of spreads will result in reduced investment income on new fixed income asset purchases. Conversely, higher interest rates or wider spreads will reduce the value of our existing assets. These exposures fall within our risk-taking philosophy and appetite and are therefore generally not hedged.

We have implemented asset-liability management and hedging programs involving regular monitoring and adjustment of risk exposures using assets, derivative instruments and repurchase agreements to maintain interest rate exposures within our risk appetite. The general availability and cost of these hedging instruments may be adversely impacted by a number of factors including changes in interest rates, increased volatility in capital markets, and changes in the general market and regulatory environment within which these hedging programs operate. In particular, regulations for over-the-counter derivatives could impose additional costs and could affect our hedging strategy. In addition, these programs may themselves expose us to other risks such as those described under the heading Risk Factors - Market Risk - Equity Risk in this AIF.

A sustained low interest rate environment may adversely impact our earnings, regulatory capital requirements and our ability to implement our business strategy and plans in several ways, including:

- (i) Lower sales of certain insurance and wealth products, which can in turn pressure our operating expense levels;
- (ii) Shifts in the expected pattern of redemptions (surrenders) on existing policies;
- (iii) Higher new business strain reflecting lower new business profitability;
- (iv) Reduced return on new fixed income asset purchases, and higher hedging costs;
- (v) The impact of changes in actuarial assumptions;
- (vi) Impairment of goodwill; and
- (vii) Additional valuation allowances against our deferred tax assets.

We have taken various management actions to mitigate the risk of low levels of interest rates including changes in product mix, product design and hedging activities. If low levels of interest rates continue to be persistent over an extended period of time, other effects may also surface including changes in policyholder behaviour and actuarial assumptions prescribed by the regulating bodies.

### **Real Estate Risk**

Real estate risk is the potential for financial loss arising from fluctuations in the value of, or future cash flows from, our investments in real estate. We are exposed to real estate risk and may experience financial losses resulting from the direct ownership of real estate investments or indirectly through fixed income investments secured by real estate property, leasehold interests, ground rents, and purchase and leaseback transactions. Real estate price risk may arise from external market conditions, inadequate property analysis, inadequate insurance coverage, inappropriate real estate appraisals, or from environmental risk exposures. We hold direct real estate investments that support general account liabilities and surplus, and fluctuations in value will impact our profitability and financial position. A material and sustained increase in interest rates may lead to deterioration in real estate values.

### **Foreign Currency Risk**

Foreign currency risk is the result of mismatches in the currency of our assets and liabilities (inclusive of capital), and cash flows. This risk may arise from a variety of sources such as foreign currency transactions and services, foreign currency hedging, investments denominated in foreign currencies, investments in foreign subsidiaries and net income from foreign operations. Changes or volatility in foreign exchange rates, including a change to currencies that are fixed in value to another currency, could adversely affect our financial condition and results of operations.

As an international provider of financial services, we operate in a number of countries, with revenues and expenses denominated in several local currencies. In each country in which we operate, we generally maintain the currency profile of assets to match the currency of aggregate liabilities and required surplus. This approach provides an operational hedge against disruptions in local operations caused by currency fluctuations. Foreign currency derivative contracts such as currency swaps and forwards are used as a risk management tool to manage the currency exposure in accordance with our Asset Liability Management Policy. As at December 31, 2019 and December 31, 2018, the Company did not have a material foreign currency risk exposure on a functional currency basis.

Changes in exchange rates can affect our net income and surplus when financial results in functional currencies are translated into Canadian dollars. Net income earned outside of Canada is generally not currency hedged and a weakening in the local currency of our foreign operations relative to the Canadian dollar can have a negative impact on our net income reported in Canadian currency. A strengthening in the local currency of our foreign operations relative to the Canadian dollar would have the opposite effect. Regulatory capital ratios could also be impacted by changes in exchange rates.

### **Insurance Risk**

Insurance risk is the uncertainty of product performance due to actual experience emerging differently than expected in the areas of policyholder behaviour, mortality, morbidity and longevity. In addition, product design and pricing, expense and reinsurance risks impact multiple risk categories, including insurance risk.

### **Policyholder Behaviour Risk**

We can incur losses due to adverse policyholder behaviour relative to the assumptions used in the pricing and valuation of products with regard to lapse of policies or exercise of other embedded policy options.

Uncertainty in policyholder behaviour can arise from several sources including unexpected events in the policyholder's life circumstances, the general level of economic activity (whether higher or lower than expected), changes in the financial and capital markets, changes in pricing and availability of current products, the introduction of new products, changes in underwriting technology and standards, as well as changes in our financial strength or reputation. Uncertainty in future cash flows affected by policyholder behaviour can be further exacerbated by irrational behaviour during times of economic turbulence or at key option exercise points in the life of an insurance contract.

Many of our products include some form of embedded policyholder option. These could range from simple options relating to surrender or termination, to more complex options relating to payment of premiums or various other benefit and coverage provisions. Changes in the relative frequency or pattern with which these options are elected (relative to those assumed in the pricing and valuation of these options) could have an adverse impact on our profitability and financial position.

Systemic forms of policyholder behaviour risk could also arise with the development of investor-owned and secondary markets for life insurance policies.

### **Mortality and Morbidity Risk**

Mortality and morbidity risk is the risk that future experience could be worse than the assumptions used in the pricing and valuation of products. Mortality and morbidity risk can arise in the normal course of business through random fluctuation in realized experience, through catastrophes, or in association with other risk factors such as product development and pricing or model risk. Adverse mortality and morbidity experience could also occur through systemic anti-selection, which could arise due to poor plan design, or underwriting process failure or the development of investor-owned and secondary markets for life insurance policies.

The risk of adverse morbidity experience also increases during economic slowdowns, especially with respect to disability coverage, as well as with increases in high medical treatment costs and growth in utilization of specialty drugs. This introduces the potential for adverse financial volatility in our financial results. External factors could adversely affect our life insurance, health insurance, critical illness, disability, long-term care insurance and annuity businesses. Adverse trends in morbidity experience, such as higher disability incidence, increases in high medical treatment costs and growth in utilization of specialty drugs, introduce the potential for adverse volatility in our financial results.

Mortality and morbidity concentration risk is the risk of a catastrophic event, such as natural environmental disasters (for example, earthquakes), human-made disasters (for example, acts of terrorism, military actions, and inadvertent introduction of toxic elements into the environment) as well as pandemics that could occur in geographic locations where there is significant insurance coverage. These factors could adversely affect our mortality or morbidity experience relative to the assumptions used in the pricing and valuation of products, leading to a material adverse effect on our profitability and financial position.

Current legislation restricts insurers from requiring Clients to take or release the results of genetic tests. If Clients have access to the results of genetic tests and we do not, this creates asymmetry of information between Clients and insurers, which could adversely impact mortality and morbidity experience and policyholder behaviour. This asymmetry of information may increase as genetic testing advances and becomes more accessible, giving rise to better diagnoses of conditions where treatments are expensive or non-existent. The asymmetry of information may lead to increased anti-selection in new business underwriting. There may also be an impact on policy lapse rates where adverse genetic testing results may motivate Clients to retain their policies resulting in higher claims payouts than assumed in the pricing and valuation of products, as well as increased insurance rates which may result in loss of new and existing Clients.

### **Longevity Risk**

Longevity risk is the potential for economic loss, accounting loss or volatility in earnings arising from adverse changes in rates of mortality improvement relative to the assumptions used in the pricing and valuation of products. This risk can manifest itself slowly over time as socioeconomic conditions improve and medical advances continue. It could also manifest itself more quickly, for example, due to medical breakthroughs that significantly extend life expectancy. Longevity risk affects contracts where benefits or costs are based upon the likelihood of survival (for example, annuities, pensions, pure endowments, reinsurance, segregated funds, and specific types of health contracts). Additionally, our longevity risk exposure is increased for certain annuity products such as guaranteed annuity options by an increase in equity market levels.

Many of our products provide benefits over the policyholder's continued lifetime. Higher than expected improvements in policyholder life expectancy could therefore increase the ultimate cost of these benefits, thereby requiring strengthening of policyholder liabilities and resulting in reductions in net income and capital. For longevity risks, external factors including medical advances could adversely affect our life insurance, health insurance, critical illness, disability, long-term care insurance and annuity businesses.

### **Product Design and Pricing Risk**

Product design and pricing risk is the risk a product does not perform as expected, causing adverse financial consequences. This risk may arise from deviations in realized experience versus assumptions used in the pricing of products. Risk factors include uncertainty concerning future investment yields, policyholder behaviour, mortality and morbidity experience, sales levels, mix of business, expenses and taxes. Although some of our products permit us to increase premiums or adjust other charges and credits during the life of the policy or contract, the terms of these policies or contracts may not allow for sufficient adjustments to maintain expected profitability. This could have an adverse effect on our profitability and capital position.

Products that offer complex features, options or guarantees require increasingly complex pricing models, methods or assumptions, leading to additional levels of uncertainty. The risk of mis-pricing increases with the number and inherent uncertainty of

assumptions needed to model a product. Past experience data supplemented with future trend assumptions may be poor predictors of future experience. Lack of experience data on new products or new Client segments increases the risk that future actual experience unfolds differently from expected assumptions. External environmental factors may introduce new risk factors, which were unanticipated during product design, and have an adverse result on the financial performance of the product. Policyholder sophistication and behaviour in the future may vary from that assumed at the time the product is designed, thereby adversely affecting the product's financial performance.

### **Expense Risk**

Expense risk is the risk that future expenses are higher than the assumptions used in the pricing and valuation of products. This risk can arise from general economic conditions, unexpected increases in inflation, slower than anticipated growth, or reduction in productivity leading to increases in unit expenses. Expense risk occurs in products where we cannot or will not pass increased costs onto the Client and will manifest itself in the form of a liability increase or a reduction in expected future profits.

From time to time, certain products or business segments may be closed for new sales (for example our international wealth business in the Asia pillar, our business in the UK and our individual insurance business in the U.S.). Our ability to effectively manage the run-off of business in these products or business segments introduces additional risks, such as policyholder behaviour and expense risk that may have an adverse effect on our operations, profitability and financial position.

### **Reinsurance Risk**

We purchase reinsurance for certain risks underwritten by our various insurance businesses. Reinsurance risk is the risk of financial loss due to adverse developments in reinsurance markets (for example, discontinuance or diminution of reinsurance capacity, or an increase in the cost of reinsurance), insolvency of a reinsurer or inadequate reinsurance coverage.

Changes in reinsurance market conditions, including actions taken by reinsurers to increase rates on existing and new coverage and our ability to obtain appropriate reinsurance, may adversely impact the availability or cost of maintaining existing or securing new reinsurance capacity, with adverse impacts on our business strategies, profitability and financial position. There is an increased possibility of rate increases or renegotiation of legacy reinsurance contracts by our reinsurers, as the global reinsurance industry continues to review and optimize their business models. In addition, changes to the regulatory treatment of reinsurance arrangements could have an adverse impact on our capital position.

### **Credit Risk**

Credit risk is the possibility of loss from amounts owed by our borrowers or financial counterparties. We are subject to credit risk in connection with issuers of securities held in our investment portfolio, debtors, structured securities, reinsurers, counterparties (including derivative, repurchase agreement and securities lending counterparties), other financial institutions and other entities. Losses may occur when a counterparty fails to make timely payments pursuant to the terms of the underlying contractual arrangement or when the counterparty's credit rating or risk profile otherwise deteriorates. Credit risk can also arise in connection with deterioration in the value of, or ability to realize, any underlying security that may be used as collateral for the debt obligation. Credit risk can occur as a result of broad economic conditions, challenges within specific sectors of the economy, or from issues affecting individual companies. Events that result in defaults, impairments or downgrades of the securities in our investment portfolio would cause the Company to record realized or unrealized losses and may cause an increase in our provisions for asset default, adversely impacting earnings.

Volatility in the capital markets, including deteriorating credit and negative real estate risk indicators, fluctuations in global or domestic macro-economic factors, or loss given default expectations, may have a significant impact on the value of the fixed income assets in our investment portfolio. For example, our asset-backed portfolio is sensitive to fluctuations in macro-economic factors, assumed default rates for the underlying collateral pool and loss given default expectations.

As part of our risk management strategy, we maintain hedging programs that may employ the use of derivatives. Market conditions determine the availability and cost of the derivative protection. Although we deal primarily with highly rated counterparties, a derivative counterparty's insolvency or its inability or unwillingness to make payments under the terms of a derivative agreement could have an adverse effect on our profitability and financial position.

We purchase reinsurance for certain risks underwritten by our various insurance businesses. Reinsurance does not relieve us from our direct liability to policyholders and accordingly, we bear credit risk with respect to our reinsurers. Although we deal primarily with highly rated reinsurers, deterioration in their credit ratings, or reinsurer insolvency, inability or unwillingness to make payments under the terms of a reinsurance agreement could have an adverse effect on our profitability and financial position. The risk that a reinsurer is unable or unwilling to make payments may occur due to, but is not limited to, legal disagreements, interpretations by a court regarding the terms of the reinsurance contract, changes in laws and regulations or interpretation of those changes.

## Business and Strategic Risk

Business and strategic risk includes risks related to changes in the economic or political environment, distribution channels or Client behaviour, environmental risks, competitive, legal or regulatory environment and risks relating to the design or implementation of our business strategy.

### Economic and Political Risk

We operate in various geographies and our business and financial operations are susceptible to regional and global economic, political and regulatory changes. We may be affected by economic and capital markets conditions and economic shocks around the globe as a result of increasingly connected global markets. Factors such as changes in interest rates, foreign exchange rates, market volatility, housing prices, consumer spending, saving and debt, business investment and inflation around the globe can affect the business and economic environments in which we operate. Continued economic and political uncertainty may give rise to increased business and strategic risks including those associated with industry restructuring, mergers and acquisitions, changing competitive dynamics and changes in the legal, regulatory and tax regimes in which our businesses operate. In addition, adverse economic conditions often arise in conjunction with volatile and deteriorating capital markets conditions, which can have an adverse impact on Client behaviour and in turn on our sales and profitability, credit and financial strength ratings, and capital and liquidity positions.

Currently, there are various factors that impact continuing economic and political risk and uncertainty, including the following examples:

- the shift to protectionism leading to ongoing trade uncertainties and/or new or increased tariffs;
- macro-economic uncertainty and potential disruptive policy changes due to global political unrest as seen within Hong Kong and strained relations between countries, such as between the United States and Russia or China;
- uncertainty due to Euroscepticism in various European Union countries and the impact of Brexit negotiations;
- increased support for populist parties; and
- rising income inequality.

The impact of these factors include the possibility of continued low growth, sustained low interest rates, increased volatility in interest rates and equity markets, and a continuation of relatively low yet volatile credit spreads. The impact on the economic environment from any of these events may not be consistent with our assumptions and expectations, which may adversely impact our financial results and the ability to implement our business strategy. Market-related impacts from the economic environment, legal, regulatory or policy changes or other governmental actions could continue to place pressure on our earnings, regulatory capital requirements, profitability, liquidity and our ability to implement our business strategies and plans. Low interest rates and increased volatility create a number of challenges for us including increased hedge costs, lower investment yields, adverse policyholder behaviour and lower levels of new business profitability. Other impacts of macro-economic uncertainty and volatility may lead to other financial and non-financial impacts including goodwill impairment, decline in our share price and impact on our credit and financial strength ratings. These risks continue to have the potential to inflict significant damage on global and regional markets.

### Implementation of Business Strategy

Our business strategies and plans are dependent on the successful execution of organizational and strategic initiatives designed to support the growth of our business. Our ability to manage the execution of these initiatives effectively and prioritize initiatives directly affects our ability to execute our strategies. Identifying and implementing the right set of initiatives is critical to achieving our business plan targets. Failure to implement these initiatives could also lead to cost structure challenges.

Our financial performance is dependent upon our ability to implement and execute our business strategies and plans for growth. The current economic, regulatory and competitive environment requires us to identify and adapt rapidly to new opportunities and to refine our strategies. If we fail to identify new opportunities, revise our strategies on a timely basis or adapt to the changing environment, we may not be able to achieve our growth objectives.

Successful execution of our business strategies and plans impacts a number of factors, including our ability to generate sufficient earnings to maintain an adequate level of capital, our ability to generate sustained investment performance, our ability to meet regulatory requirements, our ability to manage our risk exposures effectively, our ability to attract and retain Clients and distributors, our ability to have the right set of diverse products and business mix, and our ability to reduce operating expenses while maintaining our ability to hire, retain and motivate key personnel. There is no certainty that we will be successful in implementing our business strategies or that these strategies will achieve our objectives. If our business strategies are not successful or are not executed effectively, we may not be able to achieve our growth objectives or react to market opportunities, which may have an adverse impact on our business and financial results.

### Distribution Risk

Failure to achieve planned distribution scale or appropriate and compliant distribution of products could materially impact our financial and strategic objectives. This includes the inability to attract and retain intermediaries and agents at a cost that is financially feasible to the Company, or to develop digital sales and Client support capabilities and technologies. Distribution risk may also be

influenced where our distribution or product strategy and related services (including digital sales and Client support capabilities and technologies) are not developed, modified or executed in line with our strategic objectives or in consideration of the changes in Client behaviour or our regulatory environment. In addition, the lack of a well-diversified distribution model in the jurisdictions in which we do business may cause over-reliance on agency channel or key partners.

We distribute our products through a variety of distribution channels, including direct sales agents, managing general agents, independent general agents, financial intermediaries, broker-dealers, banks, pension and benefits consultants and other third-party marketing organizations. We compete with other financial institutions to attract and retain these intermediaries and agents on the basis of products, compensation, support services and financial position. We also face the risk that our key distribution partners may undergo consolidation, change in ownership structure or change their distribution model which could materially impact sales and our growth targets. New distribution channels could emerge that may impact the effectiveness of our current distribution strategy. Distribution channels are growing rapidly in some businesses in certain countries, which may heighten the risks of market conduct and channel conflicts or overlaps. The capability to reach and retain Clients through use of digital technology and data analytics is becoming increasingly important in the insurance industry. While use of digital-based distribution channels may help us achieve or expand scale, these channels expose us to regulatory compliance and information security related risks. Our sales and results of operations could be materially adversely affected if we do not have the right distribution or product strategy and related technology or if we are unsuccessful in attracting and retaining intermediaries and agents.

### Competition Risk

Competition from insurance companies, banks, asset managers, mutual fund companies, financial planners and other service providers (including new entrants and non-traditional financial services companies) is intense, and could adversely affect our business in certain countries.

The businesses in which we engage are highly competitive and our ability to sell our products is dependent on many factors, including scale, price and yields offered, distribution channels, digital capabilities, financial strength ratings, range of product lines and product quality, brand strength, investment performance, historical dividend levels and the ability to provide value added services to distributors and Clients. In certain markets, some of our competitors may be superior to us on one or more of these factors. Our competitors have significant potential to disrupt our business through targeted strategies to reduce our market share which may include targeting our key people or bancassurance partners and other distributors or aggressively pricing their products. Our ability to achieve our business plans and strategies depends significantly upon our capacity to anticipate and respond quickly to these competitive pressures.

Technology is driving rapid change in the financial services sector and is enabling new entrants to compete or offer services to our competitors to enhance their ability to compete in certain segments of the insurance, wealth and asset management markets. The emergence of new technologies such as robotic process automation, artificial intelligence, blockchain and advanced analytics may have an impact on the financial services sector and how companies interact with their stakeholders. Our current competitors or new entrants may use these or other new technologies to provide services in various areas such as customized pricing, proactive outreach to Clients and targeted marketing in order to strengthen their Client relationships and influence Client behaviour. The impact of disruption from changing technology and innovation by traditional and non-traditional competitors who may offer a better user experience, functionality or lower priced products and may have lower distribution costs will require us to adapt at a more rapid pace and may create margin pressures. The risk of disruption may also impact our distribution models as new and low cost digital-based business models emerge in connection with the distribution of financial services and products, such as insurtechs and robo-advisors. These risks are evolving rapidly with an increasing number of digital users and are difficult to anticipate and respond to proactively, and may adversely impact our profitability and financial position.

Competitors may offer a greater selection of or lower cost products, which may create margin pressure in some of our businesses and impact our profitability and market share. In the asset management sector, there has been a trend among investors towards lower-fee passive investment products such as index- and other types of exchange-traded funds, which may impact our ability to attract and retain Clients in our actively managed products. Product development and product life cycles have shortened in many product segments, leading to more intense competition with respect to product features. This increases product development and administrative costs and reduces the time frame over which capital expenditures can be recovered. Regulatory and compliance costs also generally rise with increases in the range and complexity of our product portfolio.

We have many large and well-capitalized competitors with access to significant financial resources and in certain jurisdictions, these competitors have significant market share and established distribution relationships and brands. Among other things, the competition in these industries throughout the world has resulted in a trend towards the global consolidation of the financial services industry including, in particular, the insurance, banking and asset management sectors. To the extent that consolidation continues, we will increasingly face competition from large, well-capitalized financial services companies in many of the jurisdictions in which we operate. These larger companies have the ability to heavily invest in fundamental activities for sustained profitable growth and superior Client service in the life insurance industry such as brand equity, product development, technology, risk management, and distribution capability. There can be no assurance these developments will not adversely affect our businesses in certain countries.

Many of our insurance products, particularly those offered by the group segment, are renewed annually. Given this relatively high frequency of renewal activity, this business may be particularly exposed to adverse persistency through competitive market pressures.

Different accounting bases of reporting and regulatory capital requirements across multiple jurisdictions may cause us to be at a disadvantage compared to some of our competitors due to differences in reported earnings and due to these reporting and regulatory capital requirements.

## Investment Performance

Investment performance risk is the possibility that we fail to achieve the desired return objectives on our investment portfolio, or that our asset management businesses fail to design or execute investment strategies in order to achieve competitive returns on the products and managed accounts offered by these businesses. Failure to achieve investment objectives may adversely affect our revenue and profitability through slower growth prospects and adverse impacts on policyholder or Client behaviour.

For our insurance businesses, the performance of our investment portfolio depends in part upon the level of and changes in interest rates, spreads, credit experience, equity prices, real estate values, the performance of the economy in general, the performance of the specific obligors included in these portfolios and other factors that are beyond our control. These changes can affect our net investment income substantially in any period.

In our asset management businesses, investment performance, along with achieving and maintaining superior distribution and Client services, is critical. If investment performance is less than that of our competitors or applicable benchmarks, we could lose existing and potential Clients. Similarly, a shift in investing trends and Client preference towards products that differ from our investment products or strategies, and in particular, the trend towards passive or alternative investment portfolios, could also lead to increased outflows. Accordingly, poor investment performance by our asset management operations or a shift in investing trends and Client preferences could adversely affect sales, increase outflows, reduce the level of assets under management or lead to a decline in the fee margin, which could adversely impact our revenues, income and capital position.

## Changes in Legal and Regulatory Environment

Most of our businesses are subject to extensive regulation and supervision. Changes to legislation, regulations or government policies, or the manner in which they are interpreted or enforced, may require that we make significant changes to our strategy, may result in increased implementation costs and diversion of resources to manage the change, could impact financial reporting, accounting processes and capital requirements, and could impact the ability of sales intermediaries to distribute our products, all of which could have an adverse effect on our business and operations. Our failure to comply with existing and evolving regulatory requirements could also result in regulatory sanctions and could affect our relationships with regulatory authorities and our ability to execute our business strategies and plans.

These changes could impact our capital requirements, the regulatory framework for our products and services, the regulation of selling practices, sales intermediaries (such as bancassurance) and product offerings (such as coverage for prescription drugs), solvency requirements, executive compensation, corporate governance practices and could impose restrictions on our foreign operations, which may include changes to the limits on foreign ownership of local companies.

Currently there are a number of regulatory developments in Canada and globally which could impact our business and the way we are regulated or supervised in various jurisdictions, which include the following:

- In 2017, the International Accounting Standards Board (“IASB”) issued *IFRS 17, Insurance Contracts* (IFRS 17), which establishes the principles for the recognition, measurement, presentation and disclosure of insurance contracts. This standard is effective at the same time as IFRS 9 *Financial Instruments* (IFRS 9) as Sun Life has elected the deferral option under the Amendments to IFRS 4 *Insurance Contracts*, which allows an optional temporary exemption from applying IFRS 9 until 2021. In June 2019, the IASB issued an exposure draft (“ED”) that proposes targeted amendments to IFRS 17 for public consultation. As part of the ED, the IASB has proposed to defer the effective date by one year to January 1, 2022 as well as extend the deferral option of IFRS 9 for insurers to that same date. The comment period closed in September 2019. The IASB will continue to discuss comments received on the proposals, including comments on the proposed effective date, before finalizing the amendments later in 2020. The adoption of these new standards will affect how we account for our insurance contracts and how we report our financial performance in our Consolidated Statements of Operations. In addition to the execution risks due to the potential significant changes, these standards may also impact future product designs, investment strategies and uses of reinsurance. Since the regulatory capital guideline in Canada is currently aligned with IFRS, the new standards will also result in modifications to LICAT, described below. Additionally, other jurisdictions may not adopt IFRS 17 as issued or with the same effective date as the IASB, which may affect comparison with our global competitors.
- In Canada, there has been increased focus on enhancing the affordability of and accessibility to prescription drugs, including pressure from some provincial governments, the media and advocacy groups on the federal government to implement a form of nationalized pharmacare program. The federal government has announced its intention to move forward with a national pharmacare plan. In the 2019 budget, the federal government proposed to provide \$35 million to Health Canada over the

course of four years, starting in 2019-2020, for the creation of a Canadian Drug Agency Transition Office, which would support the development of the Canadian Drug Agency with a mandate to develop a national formulary. If implemented, a national pharmacare plan could impact our business in several ways, including premium income, our ability to offer prescription drug coverage, the price and level of coverage of other benefits we offer or are able to offer through our Canadian group benefits business, which in turn could impact plan renewals and retention of group Clients, plan member interaction and the value of other coverage offered by that business.

- OSFI will be revising the LICAT Guideline for the upcoming IFRS 17 changes. In addition, OSFI is also considering alternatives for in-force variable annuity and segregated fund capital requirements, which may materially change the capital required to support our in-force variable annuity and segregated fund business and may create differences in capital requirements, profitability and reported earnings on those products that may put us at a disadvantage compared to some of our competitors regulated outside of Canada.
- Insurance and securities regulators continue to focus on client fairness and advisor conduct related practices and are assessing product fees, compensation practices, sales practices and related conflicts of interest. Regulators are also imposing higher standards that relate to interacting with clients in order to increase disclosure obligations related to fees; impose prohibitions or restrictions on the payment of certain types of commissions and service fees to agents, advisors and third-party distributors; result in changes to product features and sales and market practices by agents, advisors, product manufacturers and distributors. Examples of these changes include the Client Focused Reforms released by the Canadian Securities Administrators in October 2019, the Canadian Securities Administrators ban on deferred sales charges (in all provinces except Ontario) published in December 2019 and the implementation of the Financial Services Regulatory Authority of Ontario.
- Changes to U.S. tax legislation may lead to changes in pricing or other actions by our competitors that could impact Client behaviour. In addition, the new tax legislation may lead to interpretive guidance or other changes that could impact our corporate structure, arrangements between affiliates or the products and services we offer, and there is uncertainty regarding both the timing and details of any such guidance or other changes.
- In the U.S., states have adopted a number of model laws and regulations that have transformed the way state regulators evaluate and monitor insurance companies. These laws and regulations, which most states have enacted, require insurers to increase their level of regulatory reporting around risk management, solvency, and governance practices, and allow the U.S. regulators to lead or participate in the group-wide supervision of certain international insurance groups. These regulatory developments have increased the complexity of ensuring compliance and could result in changes to the capital standards associated with our U.S. business.
- Regulators are increasing their focus on cybersecurity and new laws and regulations have begun to emerge that will require the Company to enhance its information security programs, will increase regulatory reporting obligations and will have an impact on the costs and resources associated with the Company's information security activities.
- The UK ceased its membership of the EU effective January 31, 2020 (known as "Brexit"). Transitional arrangements are in place up to December 31, 2020 during which time there should be no change to the way that Sun Life (UK) conducts its insurance business. It is expected that a comprehensive set of new arrangements with the EU will be in place from January 1, 2021. The possibility that these new arrangements may not be in place by that date, and the adoption of mitigating actions to ensure that Sun Life (UK) can continue conducting its insurance business in the EU and EEA will be a key feature of Sun Life (UK)'s risk management activity during 2020.
- IBORs, including LIBOR, measure the average cost that banks pay to borrow from each other on an unsecured basis on a short-term basis. They are commonly used as a benchmark or reference rate for financial products and contracts such as derivatives or floating rate securities. Uncertainty relating to the LIBOR and other IBORs calculation process and the anticipated phasing out of LIBOR and other IBORs after December 31, 2021, may adversely affect the value of SLF Inc.'s derivatives and floating rate securities investments that are LIBOR or IBOR-based. At this time, it is not clear whether certain IBORs will be discontinued, but the suspension, discontinuance or unavailability of some IBORs is anticipated. Uncertainty as to the nature of potential changes, alternative rates, accounting and tax relief, and other related reforms may adversely affect our operations and cash flows and the value of and return on our investments.

See the heading Regulatory Matters above for a description of our regulatory environment in Canada, the U.S., the UK, Asia and Bermuda and other examples of changes in regulation that may affect our business and operations.

## Environmental Risk

Our financial performance may be adversely affected if we do not adequately prepare for the direct or indirect negative impacts of environmental events and developments, including those related to impacts of climate change and the transition to a lower-carbon economy. These events and developments may include increased frequency and severity of natural or human-made environmental disasters, longer-term shifts in climate patterns, emerging regulatory and public policy developments, and their impacts on our operations, invested assets, suppliers, Clients and reputation. External factors such as stakeholder expectations around environmental performance, resource constraints and costs associated with adaptation are also potential sources of environmental risk. Risks that affect our Clients and our suppliers could have a negative impact on our operations and performance. These risks are considered in our key risk assessments. An environmental issue on a property owned, leased or managed by us or on any property with which we are affiliated could have financial or reputational impacts.

As an owner/lessor of, investor in and manager of real estate, we may be impacted where environmental events damage or disrupt our underlying properties. In addition, our businesses and the properties underlying our investments are subject to environmental laws and regulations in all key jurisdictions where we carry on business or hold investments. Consequently, we may experience environmental impacts or liabilities that could adversely affect the value of those businesses and properties, their ability to generate income, and costs related to any required compliance requirements or remediation. Through other invested assets, such as loans, bonds or equity investments, we could be subject to these impacts and negative consequences from environmental violations by counterparties. Our reputation and operations may be adversely affected if we or our tenants, borrowers, or other associated parties violate environmental regulations or best practices. Similarly, if our Clients, shareholder groups, or other key stakeholders deem that our environmental risk mitigation, climate change- or sustainability-related practices are inadequate, our reputation and operations could be negatively affected. Failure to comply with an existing or potential Client's environmental, climate change or sustainability policies could disqualify us from bidding on, or earning business opportunities, or retaining existing business. We may also experience reduced access to capital markets if sustainability indices and/or investors find that our practices fall short of their criteria, which in turn could result in being removed from one or more of these indices or as an appropriate investment by investors.

As noted above under Insurance Risk - Mortality and Morbidity Risk, environmental risks, including climate change risks have implications in areas such as catastrophic risk and the concentration risk presented by natural and human-made environmental disasters, which could impact our mortality and morbidity experience and our pricing and modeling assumptions as these events increase. For example, in our group benefits businesses, a localized event that affects the workplace of one or more of our Clients could cause a significant loss related to a concentration of claims under group policies.

In addition to the impacts noted above, failure to adequately prepare for the potential impacts of environmental risks, including those associated with climate change, may have other direct and indirect negative impacts. These may include business losses or disruption, including a shift in Client preferences or demands, resulting from:

- extreme weather conditions or other environmental disasters,
- longer-term shifts and impacts related to warming temperatures, the availability of food and water and other ongoing climate change impacts,
- wider and/or more rapid transmission of new and existing diseases through pandemics or otherwise, and
- other unforeseen human consequences.

Significant environmental changes and disasters may also reduce the overall level of economic activity in affected areas which could hurt our businesses, the value of our investments, our ability to offer products and services, or service our existing Clients.

These risks could also harm the financial condition of our reinsurers and insurers of property which we own, lease, have invested in or manage which may increase the risk of default on recoveries from these reinsurers and insurers, may increase the cost of reinsuring our business or the cost of insurance, and may result in reinsurance or insurance coverage being unavailable.

A transition to a lower carbon economy could affect public and private fixed income asset values. Existing portfolio investments in coal, oil sands producers, related fossil fuel industries, railways and pipelines, as well as geographic markets which are dependent on these industries, may pose financial risk as a result of changes in consumer preferences and competition from renewable energy companies leading to stranded assets and lower overall profitability. SLC Management incorporates a number of different analyses into its assessment of climate risks through both standalone analysis of physical risks by geographic region and through the assessment of carbon transition risks, depending on the industry.

## Operational Risk

Operational risk is the risk of loss (financial and non-financial) resulting from inadequate or failed internal processes, people and systems or from external events. Operational risk is present in all of our business activities and encompasses a broad range of risks as described below.

Operational risk is embedded in the practices utilized to manage other risks and, therefore, if not managed effectively, operational risk can impact our ability to manage other key risks.

## Information Security and Privacy Risks

Information and technology are used in almost all aspects of our business and operations. As part of our Client strategy, we continue to enhance the digital side of our business to support and enable new business models and processes, that are more personal, proactive and predictive.

Our business and the successful implementation of our digital strategy are dependent on various factors including maintaining a secure environment for our Clients, employees and other parties' information. This requires the effective and secure use, management and oversight of information and physical assets. We engage with various stakeholders and leverage emerging technologies, including digital, mobile applications, cloud computing, artificial intelligence and robotic process automation. These technologies are used to collect, process and maintain information relating to business transactions and financial reporting, as well as the personal information of our Clients and employees. We also obtain services from a wide range of third-party service providers and have outsourced some business and information technology functions in various jurisdictions.

There continues to be increased information security and privacy attacks across all industry sectors, including financial institutions, retailers and governments and the scope of these threats continues to increase in size and complexity. This increasing level of malicious activity poses a significant risk to our systems and these risks may be exacerbated by the breadth of our operations, our geographic footprint and the complexity of our technology systems. A serious security or privacy breach of either an internal or third-party service provider's computer system that contains sensitive business, Client and/or employee information may result in business interruption, theft or misuse of confidential information, regulatory penalties and scrutiny, litigation, reputational damage and may have an adverse impact on current and future business opportunities with our Clients, employees and business relationships.

In particular, privacy breaches could occur and may result in unauthorized access and disclosure or use of personal information. Many jurisdictions in which we do business are developing and implementing reporting requirements relating to cybersecurity and more stringent consumer privacy legislation. Social media risk could also significantly impact our reputation due to the broad reach and real-time interaction of such media.

We have established security controls and processes that are intended to protect information and computer systems including information security risk assessments and privacy impact assessments. Notwithstanding these measures, the threat environment is rapidly and constantly changing, and there remains a possibility that our processes and controls could be unsuccessful in detecting or preventing a security breach. We remain vulnerable, and work with third parties who may also be vulnerable, to computer viruses and other types of malicious software, cyber-attacks and hacking attempts from unauthorized persons, the physical theft of computer systems, internal programming or human errors, fraud, or other disruptive problems or events. There is also a risk that certain internal controls fail, which could also exacerbate the consequences from such events.

## Human Resources Risk

Our ability to achieve business objectives can be adversely affected if we are unable to attract, retain or effectively deploy resources with the in-depth knowledge and necessary skills required, or are unable to design compensation programs that effectively drive employee behaviour. Failure to manage Human Resources risk can also lead to direct financial and reputational loss including losses arising from activity that is inconsistent with Human Rights or employment laws or health and safety regulations.

## Regulatory Compliance, Legal and Conduct Risk

We are subject to extensive regulatory oversight by insurance and financial services regulators in the jurisdictions in which we conduct business. In recent years, there has been an increased focus by regulators globally on Client fairness, conduct, anti-money laundering, privacy and data governance. Failure to comply with applicable laws or to conduct our business consistent with changing regulatory or public expectations could adversely impact our reputation and may lead to regulatory investigations, examinations, proceedings, settlements, penalties, fines, restrictions on our business, litigation or an inability to carry out our business strategy.

Our business is based on public trust and confidence and any damage to that trust or confidence could cause Clients not to buy, or to redeem, our products. We also face a significant risk of litigation in the ordinary course of operating our business including the risk of class action lawsuits. In addition, we also face the risk of reputational damage or loss due to intentional, malicious, illegal or unethical acts such as fraud, misappropriation or circumvention of the law by internal and/or external parties including our employees, Clients, distributors, service providers or other third parties. Even with controls in place, these parties may behave in ways that could harm, injure or otherwise negatively impact our Clients and other stakeholders. For instance, we may not be able to fully monitor or control the manner of distribution of our products by third party firms or the submission of falsified applications or claims, despite the training and compliance programs in place. We may suffer financial, reputation or other harm to our business if our products are distributed by such firms in an inappropriate manner or to Clients for whom such products are unsuitable. We are subject to anti-bribery and anti-corruption laws, including the U.S. Foreign Corrupt Practices Act, the Canadian Corruption of Foreign Public Officials Act, and the UK Bribery Act, each of which include significant civil and criminal penalties if breached. Our policies, including our Code of Business Conduct, require strict adherence to these laws. In the course of business, we, or our joint ventures, distribution or other non-controlled business partners, may from time to time transact with government entities. As a consequence,

we may be at risk of censure under anti-bribery and anti-corruption laws if our or our partners' due diligence or other process and procedures when transacting with government entities are deemed inadequate.

Insurance and securities regulatory authorities and other government agencies in jurisdictions we operate regularly make inquiries, conduct investigations and administer market conduct examinations with respect to compliance with applicable anti-money laundering, bribery, corrupt practices, insurance, privacy and securities laws and regulations. As well, regulatory and governmental authorities, industry groups and rating agencies have developed initiatives regarding market conduct. In recent years, financial services regulators and other governmental authorities in many of the countries in which we operate have raised issues and commenced regulatory inquiries, investigations and proceedings with respect to current and past business practices in the financial services industry, and have given greater emphasis to the investigation of those practices. For example, regulatory reviews and investigations have been made concerning suitability of sales of certain products, payment of commissions and other fees to intermediaries, market timing and late trading in investment funds, governance practices, allegations of improper life insurance pricing, sales and compensation practices by life and annuity insurers and mutual fund dealers, including related conflicts of interest and anti-money laundering controls and procedures. Current and future regulatory investigations, examinations, proceedings, and civil actions arising out of such matters could adversely affect our reputation, and may result in settlements, penalties, fines, restrictions on our business, litigation or an inability to carry out our business strategy or may cause us to make changes to our business and compliance practices, policies and procedures, which in turn could impact our profitability and future financial results and increase our litigation risk.

Under the Insurance Act and the Supervisory Information (Insurance) Regulations (Canada) and pursuant to similar restrictions in other jurisdictions, we are prohibited from directly or indirectly disclosing any supervisory information relating to SLF Inc., Sun Life Assurance and their affiliates.

### **Execution and Integration Risks Relating to Mergers, Acquisitions, Strategic Investments and Divestitures**

We regularly explore opportunities to acquire other financial services businesses or to divest ourselves of all or part of certain businesses, in support of our growth and strategy goals. Any transaction that we enter into introduces the risks related to completing the transactions as planned including effective separation and integration of the transferred businesses, effective or efficient integration, restructuring or reorganization of the businesses after the transactions have closed, and motivating and retaining personnel to effectively execute these transactions. In addition, the integration of operations and differences in organizational culture may require the dedication of significant management resources, which may distract management's attention from our day-to-day business. These risks could have an impact on our business relationship with various stakeholders including future employees, Clients, distributors and partners. Anticipated cost synergies or other expected benefits may not materialize due to a failure to successfully integrate the acquired business with our existing operations.

### **Information Technology Risk**

The use of technology and computer systems is essential in supporting and maintaining business operations. We use technology to support virtually all aspects of our business and operations. The rapidly changing business environment increases the risk of our technology strategy not being agile enough to adapt to new business demands in a timely manner leading to financial losses, increased costs and the inability to meet Client needs.

Initiatives supporting our business strategy rely on developing innovative information technology solutions and upgrading our existing systems on a timely basis to meet business needs. Although every reasonable precaution is taken to ensure information technology systems remain available, stable and current, it is not possible to fully eliminate all risk. Some changes and upgrades are extremely complex and there is a chance that an undetected technical flaw may exist, which, when implemented, stops or disrupts critical information technology systems or business applications or leads to operational errors such as incorrect financial reporting.

### **Third-Party Risk**

We engage in a variety of third-party relationships, including with distributors, independent contractors, outsourcing service providers and suppliers. Our profitability or reputation could be impacted if these third parties are unable to meet their ongoing service commitments or fail to perform to expected standards.

An interruption in our relationship with certain third parties or other parties engaged by such third parties, the impairment of their reputation or creditworthiness, their failure to provide contracted services in the manner agreed or in accordance with applicable laws and regulations could materially and adversely affect our business objectives or expose us to regulatory fines and/or reputational harm. Even with contingency plans developed for our material third party arrangements, there can be no assurance that we would be able to transition to alternate sources for these arrangements in a timely manner, at reasonable cost, or with minimal disruption to our stakeholders.

### **Business Disruption Risk**

Our businesses are dependent on the availability of trained employees, physical locations to conduct operations and access to technology. A significant business disruption to our operations can result if one or more of these key elements are negatively impacted.

Although we have implemented and periodically test our business continuity, crisis management and disaster recovery plans, a sustained failure of one or more of our key business processes or systems could materially and adversely impact our business, operations and employees. These failures can result from disruption of our processes and systems due to utility outages, fires, floods, severe storms, cyber-attacks, terrorism and other human-made attacks, natural disasters and other events. We have experienced increased incidences and impacts of disruption due to weather events such as tropical storms and flooding in the geographies in which we operate, as well as earthquakes and pandemic risks. In addition to these key business processes and system disruptions, these unanticipated events, including disease pandemics, can also negatively affect staff, preventing them from getting to work or from operating business processes. Business disruptions can also occur due to changes in environmental risk and related impacts have been highlighted above under the heading Environmental Risk. Also, because some of our business processes are performed by third parties and some of our systems interface with or are dependent on third-party systems, we could experience service interruptions if these third-party operations or systems fail.

### **Model Risk**

We use complex models to support many business functions including product development and pricing, capital management, valuation, financial reporting, planning, hedging, asset-liability management, risk management and advanced analytics (such as artificial intelligence, predictive modeling and decision making algorithms). Model risk is the risk of loss, either in the form of financial loss, inappropriate or poor business decisions, damage to reputation, or other adverse impact, arising from inaccurate model outputs or incorrect use or interpretation of model outputs.

Model risk can arise from many sources including inappropriate methodologies, assumptions or parameters, incorrect use of source data, inaccurate or untimely source data, incorrect application or operator errors, increasing product complexity and regulatory expectations. If the models' methodologies and assumptions are not appropriately set or well controlled, or data or implementation errors occur in the models, this could result in a negative impact on our results and financial position.

Many of our methods and models for managing risk and exposures are based upon the use of observed historical precedents for financial market behaviour, credit experience and insurance risks. As a result, these methods may not fully predict future risk exposures, which can be significantly greater than our historical measures indicate. Other risk management methods depend upon the evaluation of information regarding markets, Clients, catastrophic occurrence or other matters that are publicly available or otherwise accessible to us. However, this information may not always be accurate, complete, up-to-date, properly evaluated or necessarily indicative of ultimate realized experience. As we review and update our models, changes might be made to valuation methods and assumptions, which may impact our results.

### **Information Management Risk**

As an international provider of financial services, we deal with extensive information across a number of countries. Information management risk is the inability to capture, manage, retain and appropriately dispose of business records, the inability to provide data that is fit for purpose, accurate, complete or timely to support business decisions, and the inability to manage data location and cross-border appropriately. Failure to manage these risks could have financial or reputational impacts, and may lead to regulatory proceedings, penalties and litigation.

Additional information on operational risk can be found in the Risk Factors section of this AIF.

### **Liquidity Risk**

Liquidity risk is the possibility that we will not be able to fund all cash outflow commitments and collateral requirements as they fall due. This includes the risk of being forced to sell assets at depressed prices resulting in realized losses on sale. This risk also includes restrictions on our ability to efficiently allocate capital among our subsidiaries due to various market and regulatory constraints on the movement of funds. Our funding obligations arise in connection with the payment of policyholder benefits, expenses, reinsurance settlements, asset purchases, investment commitments, interest on debt, and dividends on common and preferred shares. Sources of available cash flow include general fund premiums and deposits, investment related inflows (such as maturities, principal repayments, investment income and proceeds of asset sales), proceeds generated from financing activities, and dividends and interest payments from subsidiaries. We have various financing transactions and derivative contracts under which we may be required to pledge collateral or to make payments to our counterparties for the decline in market value of specified assets. The amount of collateral or payments required may increase under certain circumstances (such as changes to interest rates, credit spreads, equity markets or foreign exchange rates), which could adversely affect our liquidity.

Under stress conditions, significant increases in funding obligations can occur in conjunction with material reductions in cost effective sources of available cash inflow. In particular, adverse stress scenarios could involve significant increases in policyholder cash surrenders and terminations and decreases in the amounts of premiums and deposits being generated by existing and new Clients. Adverse capital market conditions may also be associated with a material reduction in available market liquidity and clearing prices for expected asset sales, and reductions in the level of cash inflows (dividends, interest payments and expected maturities) on continuing portfolio investments. These developments could have an adverse effect on our financial position and results of operations.

We engage in various transactions including repurchase agreements and other capital markets transactions to meet short-term cash requirements. The cost and our ability to execute these transactions may be negatively impacted by illiquid or volatile markets. Disruption in the financial markets may limit our access to capital in the event we are required to seek additional liquidity to operate our businesses. This will result in increased costs to raise capital coupled with less desirable terms or maturities which would decrease future profitability and financial flexibility.

SLF Inc. is a holding company for its insurance, wealth and asset management subsidiaries and does not have significant operations of its own. Dividends and interest payments from its subsidiaries are its principal sources of cash. If the cash received from its subsidiaries is insufficient, then it may be required to raise debt or equity externally or sell some of its assets. We are subject to various regulations in the jurisdictions in which we operate. The ability of SLF Inc.'s subsidiaries to pay dividends and transfer funds is regulated in certain jurisdictions and may require local regulatory approvals and the satisfaction of specific conditions in certain circumstances.

In addition, rating agencies publish credit ratings of securities issued by SLF Inc. and its subsidiaries, which have an impact on the interest rates paid by those companies on borrowed funds. A material downgrade in the issuer credit ratings could limit our access to capital or increase the cost of borrowing and may have an adverse effect on our financial condition.

We have established financing arrangements that support NAIC statutory reserves for universal life policies issued by Sun Life Assurance in the U.S. Our ability to support these reserves with these financing structures can be negatively impacted by market conditions and regulatory changes. Further, these financings, in all or in part, are treated as operating leverage by the rating agencies. If, due to a change in rating agency methodology or position, the rating agencies cease to treat these financings as operating leverage, without providing any grandfathering provisions, there may be an adverse impact on our credit and financial strength ratings.

## Other Risks

### Tax Matters

The validity and measurement of tax benefits associated with various tax positions taken or expected to be taken in our tax filings are a matter of tax law and are subject to interpretation. Tax laws are complex and their interpretation requires significant judgment. The provision for income taxes reflects management's interpretation of the relevant tax laws and its best estimate of income tax implications of the transactions and events during the period. There can be a risk that tax authorities could differ in their interpretation of the relevant laws and could assert that tax positions taken by the company give rise to a need for reassessment, including reassessment under specific or general anti-avoidance rules or transfer pricing provisions.

The assessment of additional taxes, interest and penalties or damage to the Company's reputation could be materially adverse to our future results of operations and financial position.

Under the liability method of accounting for income taxes, deferred tax assets are recognized for the carryforward of unused tax losses and tax credits, as well as amounts that have already been recorded in the financial statements, but will not result in deductible amounts in determining taxable income until future periods. Deferred tax assets are recognized only to the extent of the probability that taxable profit will be available against which the future tax deductions and unused tax losses can be utilized.

At the end of each reporting period, we must assess the value of our deferred tax assets. The determination of our deferred tax assets is dependent upon projections of future taxable profits. Our projections require significant judgments and estimates about future events, including global economic conditions and the future profitability of our businesses. If the profitability of our businesses is lower than our projections or if our outlook diminishes significantly, we may be required to reduce the value of our deferred tax assets. Any change to our deferred tax assets could have a material adverse impact on our future results of operations and financial position.

We are also subject to changing income tax regulations. Sun Life Financial currently has an effective income tax rate that is lower than the Canadian statutory income tax rate for corporations. The Company reflects favourable tax impacts in its financial statements from certain tax benefits, including but not limited to tax-exempt investment income, dividends received deductions, tax credits (from certain investments or from taxes paid on foreign source income), and favourable tax rates in certain jurisdictions in which we operate. In addition, many of our life insurance products benefit Clients with preferred tax treatment under various tax regimes. For example life insurance policies and annuity contracts in the U.S. and Canada allow for the deferral or elimination of taxation on earnings (inside buildup) accrued under the policy. There is a risk that tax legislation, administrative guidance or legislative developments could lessen or eliminate some of the benefits currently available to the Company or its policyholders. This risk could result in lower product sales or increased lapses of policies, and could have a material adverse effect on our future results of operations and financial position.

From time to time, governments in countries in which we operate enact changes to statutory corporate income tax rates, as the U.S. did in 2017. These changes require us to review and re-measure our deferred tax assets and liabilities as of the date of substantive enactment. As of December 31, 2019, the Company reported a \$1,049 million net deferred tax asset in its Consolidated Statements of Financial Position, primarily in Canada. Any future tax rate reductions in jurisdictions where we carry a net deferred tax asset could result in a reduction in the carrying value of the deferred tax asset and a corresponding income tax expense at the time of substantive enactment of a rate reduction.

## International Operations

The future success of our businesses in our international operations depends in large part on our ability to grow and compete in the markets where we operate. Challenges in these markets pose strategic and execution risk including our ability to attract and retain qualified employees and executives with local experience and critical skills, political, legal, economic, competition or other risks, risks associated with joint venture operations, developing and executing our risk management practices, and our ability to attract, retain, expand and diversify distribution channels.

If we are unable to attract, retain and engage qualified employees and executives with relevant experience and critical business skills, our ability to grow our business in our international operations as quickly as planned may be limited. Competition for qualified employees and distribution partners in our international operations, in particular the Asian markets, continues to be strong and could adversely impact our ability to attract and retain talent.

Our international operations may face political, legal and regulatory, economic, competitive, operational or other risks that we may not face in our domestic operations. Examples of this type of risk are the risk of changes in regulation, political risks due to changes in government, discriminatory regulation, political instability, nationalization or expropriation of assets, changes to the maximum level of non-domestic ownership, price controls and exchange controls or other restrictions that could prevent us from transferring funds from these operations out of the countries in which they operate or converting local currencies we hold into Canadian dollars or other currencies.

Capital markets in certain international markets may not have the same depth, liquidity or range of investment options generally available in other markets in which we operate. In particular, the more limited availability of long-duration assets exposes our Asian operations to higher asset-liability management costs and potential risk.

We have entered into joint venture arrangements in certain markets in Asia, where we may have a lesser degree of control over these businesses that may expose us to additional operational, financial, compliance and legal risks. We may be dependent on our joint venture counterparty for capital, product distribution, local market knowledge, or other resources. Our ability to exercise management control or influence over these joint ventures and the success of our investments in them will depend on the cooperation between the joint venture participants and the terms of the joint venture agreements, which allocate control among the joint venture participants. If we are unable to effectively manage these joint ventures, or any joint venture counterparty fails to meet its obligations under the joint venture arrangement, encounters financial difficulty, elects to alter, modify or terminate the relationship, or a joint venture does not comply with local legislation or regulations, we may be unable to achieve our objectives and our results of operations and brand may be negatively impacted.

## Capital Adequacy

Capital adequacy risk is the risk that our capital position is not or will not be sufficient to withstand adverse economic conditions, to maintain our financial strength, to allow us and our subsidiaries to support ongoing operations and to take advantage of opportunities for expansion, and to support the risk taking activity in pursuit of our business objectives.

The strength of our capital position depends in part upon the level of and changes in interest rates and equity prices, credit experience, mortality and morbidity experience, currency rate fluctuations and our overall profitability.

Various factors such as declining equity markets, downgrades in ratings, changes in interest rates, changes in credit spreads on corporate bonds and asset backed securities, lower earnings and inability to access capital markets on a timely basis may negatively impact our capital ratios, and may impair our financial position and our ability to execute our business strategies and plans. In addition, regulatory changes implemented by OSFI in 2018 and regulatory changes being considered by other regulators world-wide may adversely impact the capital ratios of SLF Inc. and its insurance subsidiaries. These factors may impair our financial position and our ability to execute our business strategy.

## Credit and Financial Strength Ratings

Financial strength ratings represent the opinions of rating agencies regarding the financial ability of an insurance company to meet its obligations under insurance policies. Credit ratings indicate the opinions of rating agencies regarding an issuer's ability to meet the terms of debt, preferred share and Tier 1 hybrid capital obligations in a timely manner, and are important factors in a company's overall funding profile and ability to access external capital. A downgrade by a rating agency in the credit ratings of securities issued by SLF Inc. and its subsidiaries or the financial strength ratings of SLF Inc.'s insurance company subsidiaries could adversely affect our financial condition and results of operations.

The financial strength rating of an insurance company is a key competitive factor in marketing its products and in attracting and retaining agents and distributors. If our credit or financial strength ratings are downgraded, our financial condition, competitive position and results of operations could be negatively impacted in many ways, including:

- Reducing new sales of insurance products, annuities and investment products;
- Higher level of surrenders and withdrawals;
- Higher reinsurance costs;
- Requiring us to reduce prices for products and services to remain competitive;
- Increasing our cost of capital and limiting our access to the capital markets, thus reducing our financial flexibility;
- Reducing our ability to enter into normal course derivative or hedging transactions and increasing the costs associated with such transactions; and
- Adversely affecting our relationships with our advisors and third-party distributors of our products.

In addition, downgrades in our credit or financial strength ratings below thresholds specified in certain of our derivative agreements, reinsurance agreements and other agreements could result in the counterparties to those agreements having the right to terminate those agreements or to require that we provide support for those agreements in the form of collateral or letters of credit.

Changes in methodologies and criteria used by rating agencies could also result in downgrades that do not reflect changes in the general economic conditions or our financial condition.

Additional information concerning our ratings is provided in this AIF under the heading Security Ratings and in our 2019 MD&A under the heading Financial Strength.

### **Mergers, Acquisitions, Divestitures and Strategic Investments**

We regularly explore opportunities to selectively acquire other financial services businesses or to divest ourselves of all or part of certain businesses, in support of our growth and strategic objectives. These transactions introduce the risk of financial loss due to a potential failure to achieve the expected financial or other strategic objectives. There is a risk that we may be unable to make an appropriate acquisition in a desired market or business line or are unable to realize the financial and strategic benefits of the transactions due to competitive factors, regulatory requirements or other factors. These risks could adversely impact our ability to achieve our financial and strategic objectives.

Although we undertake extensive due diligence in connection with potential acquisitions, there may be liabilities or asset impairments that we fail to, or are unable to discover during our due diligence investigations. There could also be unforeseen liabilities or asset impairments, including goodwill impairments that arise in connection with acquisitions or divestitures of businesses. There is no assurance that we will achieve our financial or strategic objectives or anticipated cost savings following an acquisition.

The purchase and sale agreements that support acquisition transactions typically include indemnifications provided by the seller to the purchaser. These rights are typically limited by survival periods and limitations on the nature and amount of losses we may recover and there is a risk that these indemnifications will not be collectible or be sufficient to fully offset losses arising from the acquired business. We would also be exposed to the credit risk of the selling party with respect to its ability to pay if an indemnification provision is triggered.

The use of our own funds as consideration in any acquisition would consume capital resources, which could affect our capital plan and render those funds unavailable for other corporate purposes. Moreover, as a result of uncertainty and risks associated with potential acquisitions and dispositions of businesses, rating agencies may take certain actions with respect to the ratings assigned to SLF Inc. and/or its subsidiaries. There could also be changes in regulatory requirements arising from a transaction that could impact our operations or capital requirements in unanticipated ways.

We may also periodically choose to divest all or part of certain businesses. These businesses may have certain linkages to other businesses within the company, both operational and financial. The separation process may result in disruptions to retained businesses due to loss of shared resources, the effort required to effect separation or financial strain. When we dispose of all, or part of certain businesses, we may remain liable to the acquirer or to third parties for certain losses or costs arising from the divested business. We may also incur a loss on the disposition.

We also regularly explore opportunities to invest in early-stage companies, together with a strategic partnership arrangement. These types of transactions may introduce heightened reputational risk that we may fail to, or are unable to, discover during our due diligence investigations. The reputational risk often outweighs the risk of financial loss due to the nature of the strategic partnership arrangements we enter into as part of these types of transactions.

Risks relating to execution and integration of our acquisitions have been included in the Operational Risk section of this AIF.

## Legal and Regulatory Proceedings

We are regularly involved in legal actions, both as a defendant and as a plaintiff. Information on legal and regulatory proceedings is provided in Note 23 of our 2019 Consolidated Financial Statements and is incorporated herein by reference.

Since January 1, 2019, (i) no penalties or sanctions have been imposed against Sun Life by a court or regulatory body that would likely be considered important to a reasonable investor in making an investment decision; (ii) Sun Life has not entered into any settlement agreements with a court relating to Canadian securities legislation or with a Canadian securities regulatory authority and (iii) no penalties or sanctions have been imposed against Sun Life by a Canadian securities regulatory authority, other than nominal late filing fees, or by a court relating to Canadian securities legislation.

## Additional Information

Additional information including directors' and officers' remuneration and indebtedness, principal holders of SLF Inc.'s securities, securities authorized for issuance under equity compensation plans and interests of informed persons in material transactions, if applicable, is contained in SLF Inc.'s information circular for its most recent annual meeting of security holders that involved the election of directors. Additional financial information is provided in SLF Inc.'s MD&A and consolidated financial statements for its most recently completed financial year.

Requests for copies of these documents may be sent to the Corporate Secretary of SLF Inc. at 1 York Street, 31st Floor, Toronto, Ontario, M5J 0B6. Copies of these documents and other additional information related to SLF Inc. are available at [www.sunlife.com](http://www.sunlife.com), [www.sedar.com](http://www.sedar.com) and [www.sec.gov](http://www.sec.gov).

## APPENDIX A - Charter of the Audit Committee

### Sun Life Financial Inc. and Sun Life Assurance Company of Canada (“the Corporation”)

#### Purpose

The Audit Committee (the “Committee”) is a standing committee of the Board of Directors (the “Board”) whose primary functions are to assist the Board with its oversight role with respect to:

1. The integrity of financial statements and related information provided to shareholders and others;
2. The Corporation’s compliance with financial regulatory requirements;
3. The adequacy and effectiveness of the internal control environment implemented and maintained by management; and
4. The qualifications, independence and performance of the External Auditor who is accountable to the Committee, the Board and the shareholders.

#### Membership

The Committee is composed of not less than three Directors, including a Committee Chair, appointed by the Board on an annual basis following each annual meeting.

Each member of the Committee shall be independent as defined in the Director Independence Policy and financially literate. In the Board’s judgment, a member of the Committee is financially literate if, after seeking and receiving any explanations or information from senior financial management or the External Auditor of the Corporation that the member requires, the member is able to read and understand the consolidated financial statements of the Corporation to the extent sufficient to be able to intelligently ask, and to evaluate the answers to, probing questions about the material aspects of those financial statements. In addition, the Committee shall have at least one member that the Board has determined is an audit committee financial expert.

Committee membership is reviewed in connection with appointments to the Committee and annually by the Governance, Nomination & Investment Committee to ensure the Committee as a whole includes members with the experience and expertise required to fulfill the Committee’s mandate and that the financial literacy and the audit committee financial expert requirements (as defined by the Securities and Exchange Commission) are met.

Any member of the Committee may be removed or replaced at any time by the Board and the Board shall fill vacancies on the Committee.

#### Structure and Operations

A meeting of the Committee may be called at any time by the Chairman of the Board (the “Chairman”) or by any member of the Committee. The Committee meets as frequently as necessary, but not less than four times a year. A quorum at any meeting of the Committee shall be three members. The Chair of the Committee reports to the Board after each Committee meeting.

The Chair of the Committee is consulted in advance in connection with the appointment, reassignment, replacement or dismissal of the Chief Actuary, Chief Auditor and Chief Financial Officer, and annually on the performance assessment and compensation awarded to those individuals.

The External Auditor reports to the Committee. The External Auditor receives notice of, and may attend all Committee meetings.

The Committee holds a private session at each regularly scheduled meeting with each of the Chief Actuary, Chief Auditor, Chief Financial Officer and representatives of the External Auditor, and with the Chief Risk Officer and Chief Compliance Officer, as appropriate, and those individuals have unrestricted access to Committee members between meetings. The Committee holds a private session at each meeting of the Committee for members only. The Committee has full access to the Corporation’s records and information and, in consultation with the Chairman, may engage any special advisors it deems necessary to provide independent advice at the expense of the Corporation.

On an annual basis, the Committee will review this Charter and the Forward Agenda for the Committee and, where necessary, recommend changes to the Board for approval. This Charter will be posted on the Corporation’s website and the Committee will prepare a report on its activities for inclusion in the annual meeting material. The Committee shall undertake and review with the Board an annual performance evaluation of the Committee.

#### Duties and Responsibilities of the Committee

##### *Financial Reporting*

1. Reviews with management and the External Auditor and makes recommendations to the Board on the approval of:
  - (a) the interim unaudited consolidated financial statements, including the notes thereto, Management’s Discussion and Analysis and related news release; and

- (b) the annual audited consolidated financial statements, including the notes thereto, Management's Discussion and Analysis and related news release.
2. In conducting its review of the quarterly and annual financial statements:
- (a) reviews the underlying earnings;
  - (b) discusses with the External Auditor any significant changes that were required in the external audit plan, any significant issues raised with management during the course of the audit or review, including any restrictions on the scope of activities or access to information, and those matters that are required to be discussed under generally accepted auditing standards;
  - (c) receives a report from management on its review of the financial statements, Management's Discussion and Analysis and related news release, and discusses with the President & Chief Executive Officer and the Chief Financial Officer any significant issues raised in connection with the certifications relating to financial disclosure and controls that those officers are required to file with securities regulatory authorities;
  - (d) assures itself that the External Auditor is satisfied that the accounting estimates and judgements made by management, and management's selection of accounting principles, reflect an appropriate application of International Financial Reporting Standards;
  - (e) seeks assurances from the External Auditor that the financial statements, including the notes thereto, fairly present the financial position, results of operations and cash flows of the Corporation;
  - (f) discusses with the Chief Actuary the parts of the quarterly and annual audited consolidated financial statements prepared by that officer;
  - (g) reviews with management and the External Auditor the Corporation's principal accounting and actuarial practices and policies; and
  - (h) considers emerging industry, regulatory and accounting standards and the possible impact on the Corporation's principal accounting practices and policies, including consideration of the use of non-IFRS measures.

### **External Auditor**

- 3. Reviews the independence of the External Auditor, including the requirements relating to such independence under the laws governing the Corporation, the applicable rules of stock exchanges on which the Corporation's securities are listed, and regulatory bodies with responsibility for establishing auditor independence requirements and policies. At least annually, the Committee receives from and reviews with the External Auditor its written statement delineating relationships with the Corporation and, if necessary, recommends that the Board take appropriate action to satisfy itself of the External Auditor's independence and accountability to the Committee, the Board and shareholders.
- 4. Appraises the skills, resources and performance of the External Auditor and recommends to the Board the appointment or, if so determined by the Committee, the replacement of the External Auditor, subject to the approval of the shareholders.
- 5. Reviews and approves the scope and terms of the External Auditor's engagement, and reviews and recommends for approval by the Board the engagement letter and remuneration of the External Auditor.
- 6. Reviews and approves the Restricting Use of External Auditor Policy which outlines the services for which the External Auditor can be engaged, the approval process for such services and the policy regarding the employment of former employees of the External Auditor.
- 7. Determines, reviews and approves the services to be performed by the External Auditor and the fees to be paid to the External Auditor for audit, audit-related and other services permitted by law and in accordance with the Restricting Use of External Auditor Policy, with such approvals to be given by the Committee, through the exercise of authority delegated to one or more of the Committee's independent members or pursuant to pre-approval procedures adopted by the Committee in accordance with applicable requirements.
- 8. Reviews with the External Auditor and management the overall scope of the external audit plan, quality control procedures and the resources that the External Auditor will devote to the audit.
- 9. Reviews with the External Auditor any regulatory matters that pertain to the External Auditor.

### **Internal Control and Audit**

- 10. Requires management to implement and maintain appropriate internal control procedures, reviews and evaluates the effectiveness of such procedures, and ensures that appropriate action is being taken to address any material internal control deficiencies.
- 11. Reviews at least annually and makes recommendations to the Board on the approval of the Corporation's Internal Control Framework.
- 12. Reviews management's reports on the effectiveness of the Corporation's disclosure controls and procedures and its internal control over financial reporting.
- 13. Reviews and approves the annual internal audit plan and oversees its coordination with the External Auditor's audit plan.
- 14. Reviews with management and the Chief Auditor the effectiveness of the internal control procedures, including a quarterly report thereon received from the Chief Auditor that includes disclosure of any significant changes that were required in the internal audit plan and any significant issues raised with management during the course of any internal audit work, including any restrictions on the scope of activities or access to information.

### **Governance**

- 15. Reviews and approves the organizational structure of the Actuarial, Finance and Internal Audit functions on an annual basis.

16. Reviews, at least annually, and approves changes to the statements of mandate, responsibility and authority of the Chief Actuary, Chief Auditor and Chief Financial Officer.
17. Reviews, at least annually, the adequacy of the authority, independence and resources of the Chief Actuary, Chief Auditor and Chief Financial Officer.
18. Establishes the scope and frequency of the independent reviews of the Actuarial, Finance and Internal Audit functions.
19. Approves the objectives and reviews the effectiveness of the Chief Actuary, Chief Auditor and Chief Financial Officer and the Actuarial, Internal Audit and Finance functions annually.
20. Requires the Chief Actuary, Chief Auditor and Chief Financial Officer to report on any material disagreements with other members of senior management relating to the business, and reviews how such matters are being addressed.
21. Reviews succession plans for the roles of Chief Actuary, Chief Auditor, Chief Financial Officer and other senior management roles overseen by the Committee.
22. Reviews matters within its mandate that are addressed in the regular examination and similar reports received from regulatory agencies, including management's responses and recommendations.
23. Discusses with the External Auditor the financial and control-related aspects of material transactions that are being proposed by the Corporation.
24. Reviews and discusses with the External Auditor and Chief Actuary such reports and regulatory returns of the Corporation as may be specified by law.
25. Discusses the qualifications for and determines whether a member of the Committee is a financial expert, and in conjunction with the Governance, Nomination & Investment Committee, ensures the ongoing financial literacy of Committee members.

**Other**

26. Reviews the annual report on litigation or other reports, as required.
27. Performs such other duties and exercises such other powers as may, from time to time, be assigned to or vested in the Committee by the Board, and such other functions as may be required of the Committee by law, regulation or stock exchange rule.

**CERTIFICATION**

I, Dean A. Connor certify that:

1. I have reviewed this annual report on Form 40-F of Sun Life Financial Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the issuer as of, and for, the periods presented in this report;
4. The issuer's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the issuer and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the issuer, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the issuer's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the issuer's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the issuer's internal control over financial reporting; and
5. The issuer's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the issuer's auditors and the audit committee of the issuer's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the issuer's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the issuer's internal control over financial reporting.

Date: February 13, 2020

/s/ Dean A. Connor

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Dean A. Connor  
President and  
Chief Executive Officer

## CERTIFICATION

I, Kevin D. Strain certify that:

1. I have reviewed this annual report on Form 40-F of Sun Life Financial Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the issuer as of, and for, the periods presented in this report;
4. The issuer's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the issuer and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the issuer, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the issuer's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the issuer's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the issuer's internal control over financial reporting; and
5. The issuer's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the issuer's auditors and the audit committee of the issuer's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the issuer's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the issuer's internal control over financial reporting.

Date: February 13, 2020

/s/ Kevin D. Strain

Kevin D. Strain  
Executive Vice-President and  
Chief Financial Officer

**Certification**  
pursuant to  
18 U.S.C. Section 1350  
as adopted pursuant to  
Section 906 of the Sarbanes-Oxley Act of 2002

In connection with the Annual Report on Form 40-F of Sun Life Financial Inc. (the "Company") for the year ended December 31, 2019 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of the undersigned officers of the Company certifies pursuant to 18 U.S.C. § 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to his respective knowledge:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 13, 2020

/s/ Dean A. Connor  
Dean A. Connor  
President and  
Chief Executive Officer

Date: February 13, 2020

/s/ Kevin D. Strain  
Kevin D. Strain  
Executive Vice-President and  
Chief Financial Officer

This certificate has not been, and shall not be deemed to be, "filed" with the Securities and Exchange Commission for purposes of Section 18 of the Securities Exchange Act of 1934.

**Consent of Independent Registered Public Accounting Firm**

We consent to the incorporation by reference in Registration Statement Nos. 333-105130, 333-216115 and 333-229698 on Form S-8 and to the use of our reports dated February 12, 2020 relating to the consolidated financial statements of Sun Life Financial Inc. (the “Company”) and the effectiveness of the Company’s internal control over financial reporting appearing in this Annual Report on Form 40-F for the year ended December 31, 2019.

/s/ Deloitte LLP

Chartered Professional Accountants  
Licensed Public Accountants  
Toronto, Ontario, Canada  
February 13, 2020

**CONSENT OF APPOINTED ACTUARY**

I consent to the use and incorporation by reference in this Annual Report on Form 40-F of Sun Life Financial Inc. (the “Company”) for the year ended December 31, 2019 of the Appointed Actuary’s Report to the Shareholders and Directors dated February 12, 2020 (the “Report”), relating to the valuation of the policy liabilities and reinsurance recoverables of the Company and its subsidiaries for its Consolidated Statement of Financial Position at December 31, 2019 and December 31, 2018 and their change in the Consolidated Statements of Operations for the year ended December 31, 2019.

/s/ Kevin Morrissey

Kevin Morrissey  
Fellow, Canadian Institute of Actuaries

Toronto, Ontario, Canada  
February 13, 2020