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- I . Era of Spotlighting on Aerospace Industry
- II. KAI's Investment Highlights
- III. KAI's Growth Strategies
- IV. Strategic Core Businesses
- V. Business Performance & Goals
 - *****Appendix







Characteristics of the Aerospace Industry



A new growth engine for the Korean economy



The industry of the future that converges cutting edge technologies

A core industry of the future that integrates and merges state of art technologies Combined and driven from electric/electronic, IT, and S/W sectors



Advanced Industry with unlimited potential growth

Sustainable growth derived by increase eman / air consportation that fostered by developed nations due to importance of security and economic in



A knowledge and labor-intensive industry that plays vital role in job creation High quality job creation by long-term R&D and production that oriented by high skilled labors



High Value-Added industry

1 unit of T-50 exported abroad has a lager contribution in the economy that 1,000 mid-sized sedans sold



High entry barriers, but with a long and sustainable future

Long term production and follow—on support period after development (Average operating period for aircraft: 40 Years)



Outlook of the Aerospace Industry

Forecasting Sustainable Growth in Aerospace Industry,

Growth Mainly Driven by Commercial Area



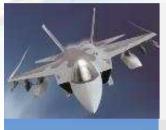




01 Outcome



Commencing Large Scale Government Project, Expanding Business Area



Started development of KFX Fighter



- Signed KF-X and kicked off EMD(Dec. 2015)
- Campletian of the CDR(Sept. 2019)
- KFX fighter prototype release(Scheduled for 2021)



Expansion of aircraft export busine s

- Exported FA-50 to Iraq(Dec. 2013) and Philippines(Mar. 2014)
- T—50 to Thailand(Sep. 2015 / Jul. 2017), □ □ □ KT—1 to Senegal(Jul. 2016), indonesia(Nov. 2018)



Continuous growth of commercial aircraft business



- Sales growth(₩0,8tn in 2014 to ₩1,0tn in 2019)
- Joint development and production of B787/A350



MRO Business is in Full Swing



- Selected as MRO Specialized Firm by MOLIT (17.12)
- Established MRO firm and Commenced business (18)



Started development of LAH & LCH helicopters



- Signed LAH & LCH and kicked off EMD (Jun. 2015)
- LAH prototype release(Scheduled for 2021)



Fully launched Surion Derivatives business

 National Police Agency, Search & rescue Forest Service, Korea Coast Guard



- Amphibious type production (bec. 20
- MEDEVAC Production (Dec. 2018)



Expansion of future(Space) business



- Korea's indigenous space launcher vehicle(Jan. 2014)
- Multi-functional satellite #7(Apr. 2017)
- Develop Military surveillance satellite (425) (Dec. 2018)



Enhancing Infrastructures



- Building an ecosystem for the commercial aircraft business
- Expanding domestic suppliers and proposing a job creation model





2 Long—term Growth Engines



Accelerating long—term growth, backed by large order backlog and the future & prospective orders to be delivered

Secured Order Backlog 2019 ₩16.9tn • Domestic W8.8tn, Aircraft Parts W7,6tn, Aircraft Export W0,5tn, ers Expected X Production(Korea/Indonesia) • LAH Production ₩30tn 1 12-0KUH1Follow-on/Variant Aircraft Export Follow—on (4th, MEDEVAC, etc.) Satellite/Space Launcher Follow-on Aircraft Parts Follow-on MRO((Heavy maintenance) **Prospective Order Wins** LAH/LCH Exports KFX Follow—on/Exports ₩33tn ↑ KUH(Variant) Exports Aircraft Exports Aircraft Parts (Super Tie1) MRO(Component Maintenance) Commercial Aircraft. Business Diversification
 Business Diversification

Competitiveness (1) Comprehensive Infrastructure



Establishing a comprehensive Aerospace infrastructure through Korea's sole final aircraft integrator experience!

Professional Engineering Resource

Experts in all areas of aircraft development cycle

Number of Engineers 2,802 in Total (38% with more than 10 years' experience)

Technological Competencies

Maintains world-class technological standards

Obtained Asia's first airbus design rights
Certified with the Level-5 CMMI rating for avionics SW

※ CMMI: Capability Maturity Model Integration

Aviation Infrastructure

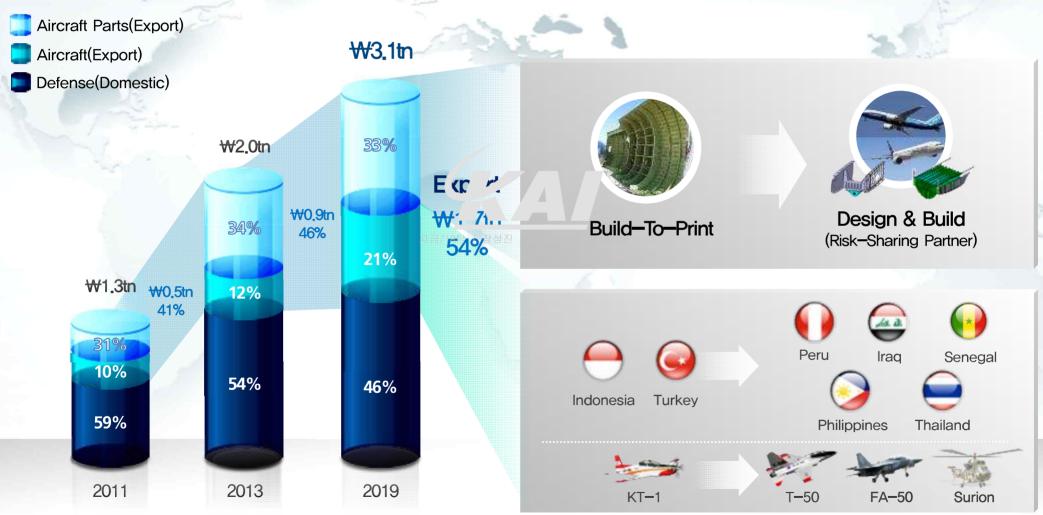
Vertically integrated infrastructure in all facets of aircraft development, production, and testing



Competitiveness (2) Export Driven Biz Portfolio



Transforming into an export—driven aerospace company by delivering world—class products and services



Competitiveness (3) Cost Competitiveness



Enhancing cost competitiveness through continuous innovation and Improvement



 Integration of processing system companywide and implementation of Next-Gen of ERP System (Implement state-of-arts tech SAP S/4HANA)



Efficiency



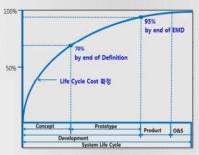
Environment

- Execute company—wide innovation activities
- Improve productivity and reduced lead time

vancement mprovemen of Busines R&D Managem pability System

Innovation Activities

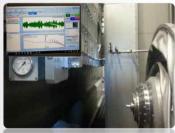
Smart Factory





- Establish Design to Cost Operating system
- Pioneering new markets and expanding armed capability





- Operate Smart factory / flexible production system
- Improve equipment operation thru preventative maintenance



04 Strategic Partnership



Reinforcing synergy with world's leading aerospace companies through strategic partnerships





• Technological assistance in developing Korea's indigenous KF-X Fighter





Reinforcing collaboration across the entire business, including MRO, space/satellite, and mid-sized regional aircrafts
 Joint development of the LAH/LCH helicopters & joint marketing for exporting Surion abroad











- Participated in the international joint development project for B787
- · Sole provider of military aircraft aero structures





- Joint development of Korea's indigenous fighter jet, the KF-X/I-FX
- Strategic cooperation in MRO and commercial passenger aircraft development programs, as well as an expansion into new markets

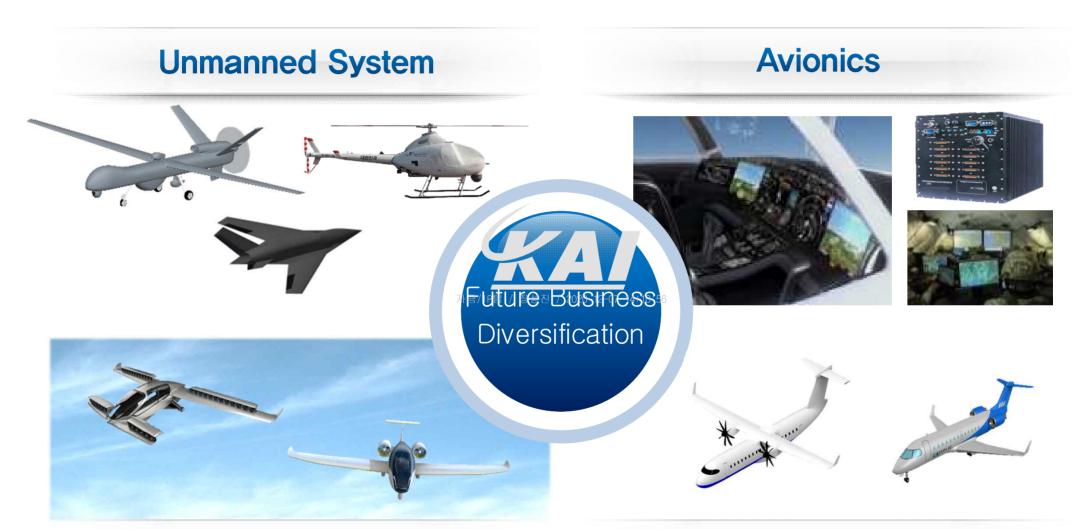






5 Business Diversification





PAV/Electronic Aircraft

Develop Commercial Aircraft



III. Our Growth Strategies

- 1. Vision
- 2. Roadmap





1 Vision



Total Solution Provider in Aerospace

Leap into the leading global aerospace company by 2030

An aircraft integrator in aerospa

Top 5

No.1 Boeing

No.2 Airbus

No.3 Lockheed Martin

No.4 Northrop Grumman

No.5 BAE Systems

*Source: Flight International (Sep.2019)

₩3.1tn

2019

Foster Core Biz KF-X, LAH/LCH, KUH/Derivatives

Expand Export Biz in Global Market

T-50/KT-1/KUH, Aero structure

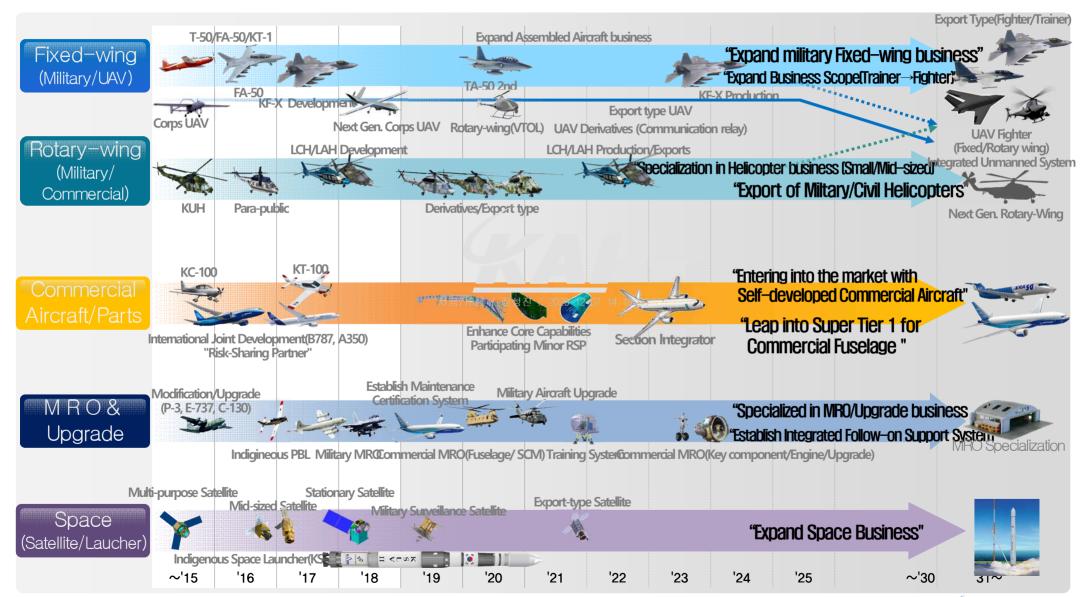
2030

Diversify & Develop New biz for Future Growth UAV. Commercial Aircraft, MRO, Space,



02 Roadmap





IV. Strategic Core Program

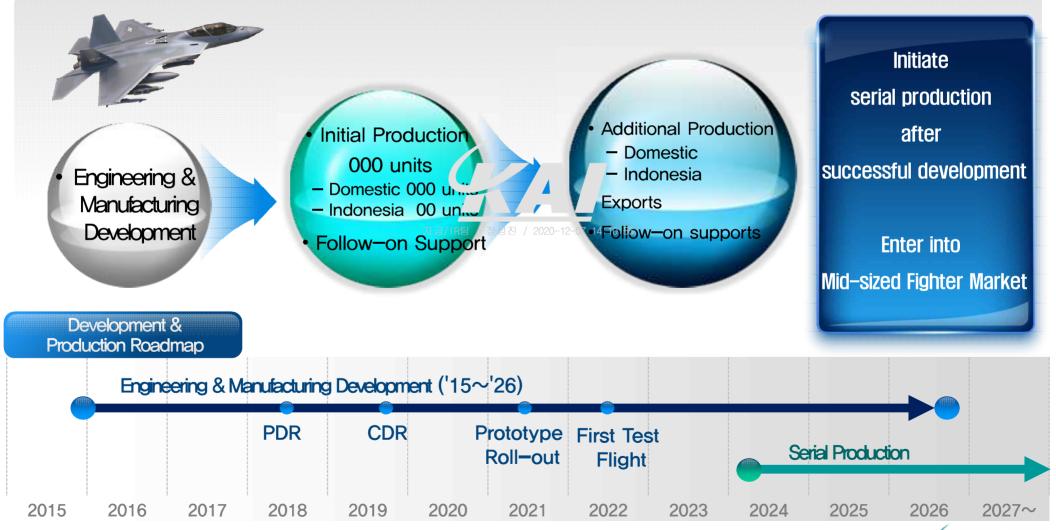
- 1. KFX Program
- 2. LAH/LCH Program
- 3. Aircraft Export Program
- 4. Commercial Aircraft Fuselage
- 5. MRO





1 KFX Program

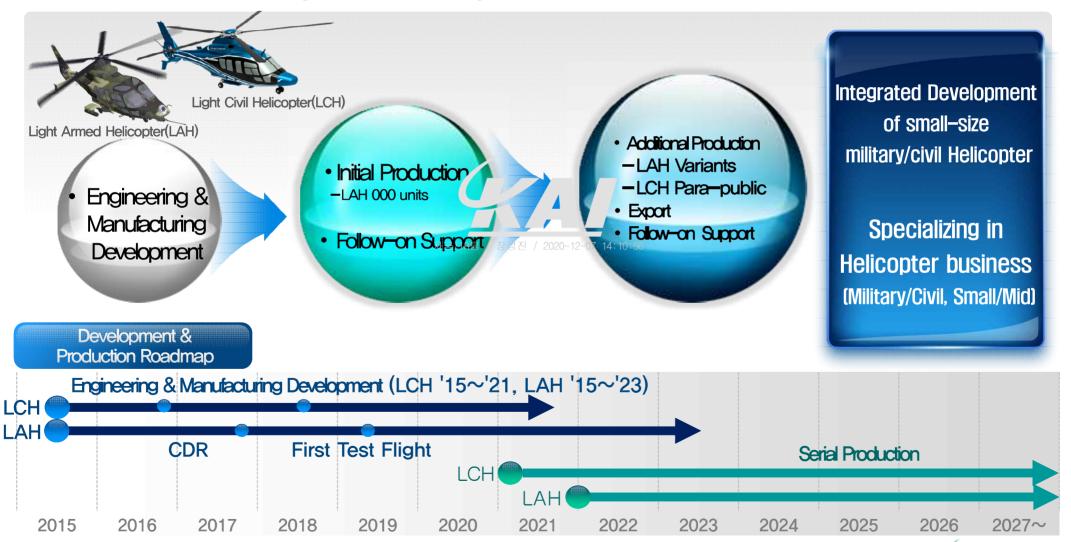
International joint development project for the production and export of an indigenous fighter aircraft that will replace Korea's aging fleet of fighters



02 LAH/LCH Program



Development, production, and export of light civil helicopters and armed variants



3 Aircraft Export Program



Expanding global market share by Stretching business portfolio and customer tailor-made strategy

Total Solution Provider in Aircraft Export

Target Countries

Aircraft +Training +Aviation Support Facility +PBL&CLS +Aviation Support Operations

Present

Future

Software-driven Solutions

- Fd raion&Training Cent

Expansion of Business Scope

- Development of armament configuration and upgrade avionic electronics system
- Plot/Technician Training
- Aviation Support Facilities
- Operation, Maintenance & Follow-on Support

















Botswana Indonesia





Spain





Philippines Paraguay



Ecuador



Peru

Aircraft

+ Upgrade and Increase Utility

+Aviation Support Facility

Past

Aircraft

+Training

Hardware & Manufacturing -oriented











Vietnam

Malaysia



04 Commercial Aircraft Fuselage



Strategic Partnership through Leaping into Super Tier1

Secure strategic partnership by attaining 4 core strategic technologies (Main wings/Tail/Fuselage structures/Pylon)







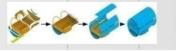
- ✓ IAI G280 Business Jet Wing
- ✓ Embraer E-2 Wing stringer
- ✓ LM C-130J AFT Nacelle
- √ Bombardier CRJ Door etc.



hnolo



- Expanding Short-term orders(Build to Print)
 (Increase order quantities and switching manufacturer)
- Specialized Firm(Tail, Pylon)
- Specialization(Tier1)



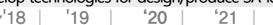


- Entering Super Tier1
- RSP business, Section Integrator
- Expand exports for strategic items (Design to Build Decoming strategical partner of Boeing/Airbu
 Diversification of Contractors (Large OEM → Small and Medium OEM/Tier1)
- Integrated Torsion Box for Tail Multi Spar
- Integrated structure for Main wing's surface and stringer
- Thermoplastic fuselage structures
- Develop technologies for design/produce SA-level engine

 Expanding R&DT with advanced countries



 Exercise capability to enter Super Tier1



21 | 22 | 23 | 24 | 25 | 26 | 27~

21

MRO Business



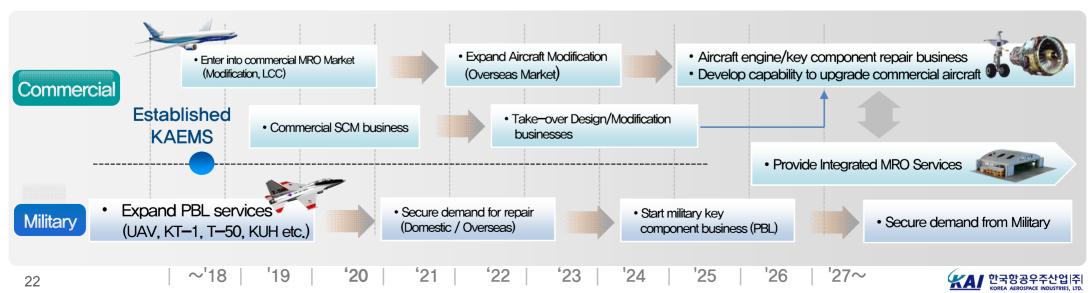
Accelerating Military/Commercial After-Market Business(MRO/Upgrade)

(KAI supply units: '15 400 units, '20 900 units, '25 1,700 units)









V. Business Performance & Goals

- 1. Orders
- 2. Sales
- 3. Operating Profits
- 4. 2020 Business Strategies
- 5. Performance of the first quarter
- 6. Performance of Second quarter
- 7. Performance of Third quater

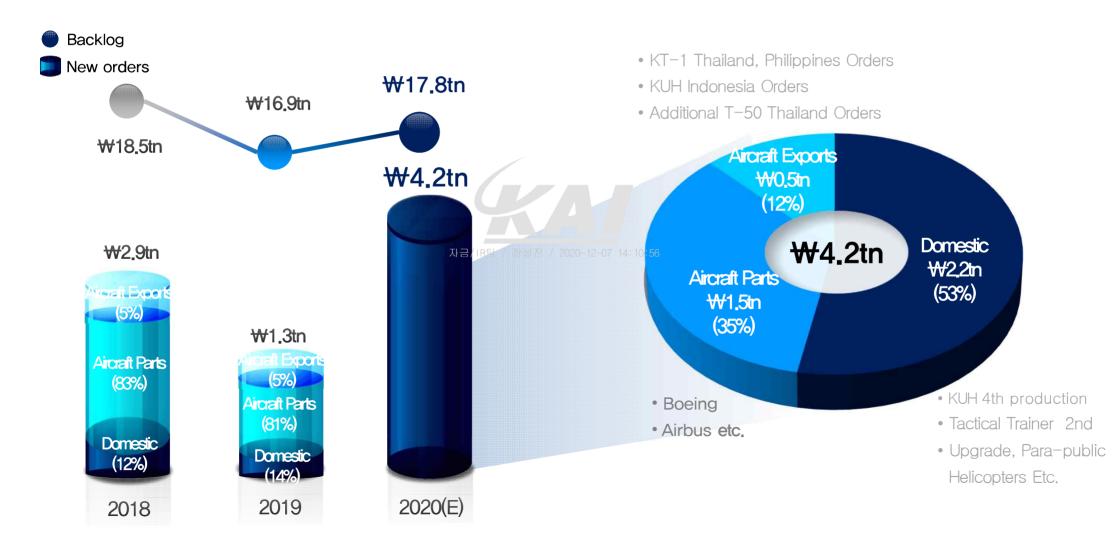




01 Orders



Secured ₩16.9tn order backlog in 2019, Aiming for ₩17.8tn backlog in 2020

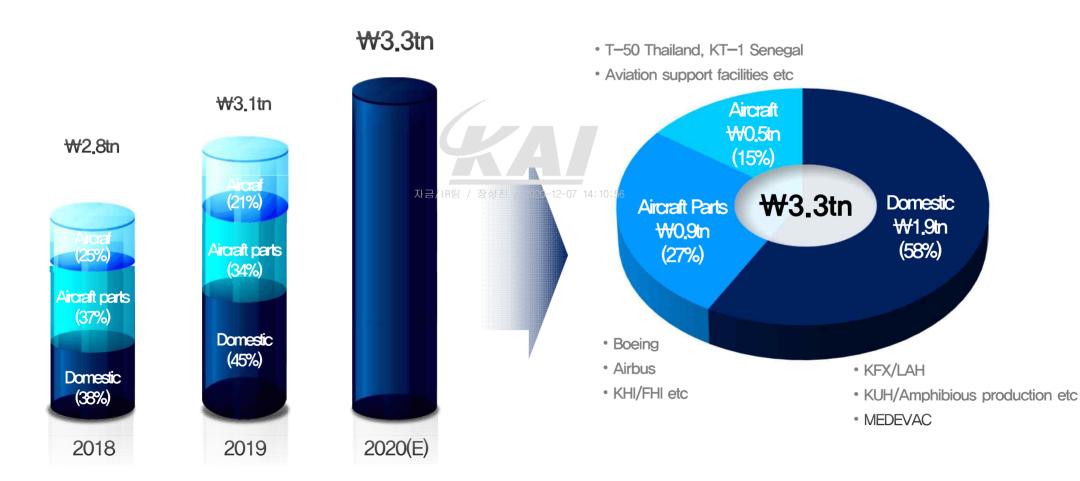




02 Sales



Posted ₩3.1tn sales in 2019, 2020 sales goal is eyeing ₩3.3tn





Operating Profits



Anticipate growth in operating income due to increased volume of domestic business and progress rate of development businesses

(Operating Margin) (5.3%)(8.9%)2,756 1.464 **Operating Profit** (Unit: KRW 100m) 2018 2020(E)



4 2020 Business Strategies



Total Solution Provider in Aerospace

Leap into the leading global aerospace company

New Orders Sales

₩4.2tn ₩3,3tn



"Establish the piatiorm for future growth by Successful implementation of strategic businesses"

Focusing R&D Competency

- KFX
- · LAH/LCH

Expanding **Aircraft Exports**

- T-50/FA-50
- KT-1
- Surion

Expanding Fuselage Structures Business

- Secure Strategic Technologies
- Cost Reduction
- Entering into Super Tie1

Launching MRO **Business**

- Est Specialized company
- Initiate business
- Multi-purpose satelite
 - Next-generation

Expanding

Space

Business

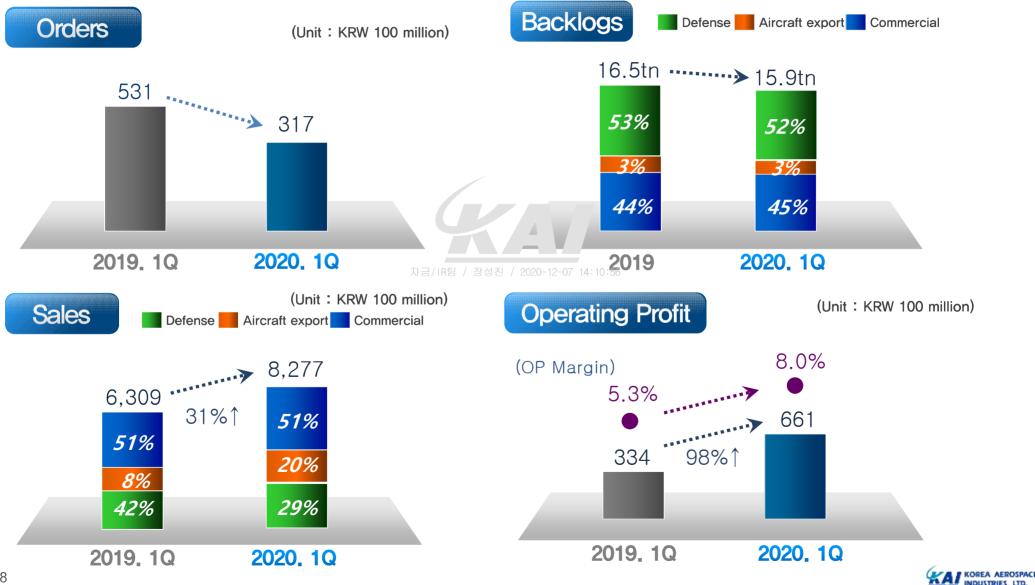
- Military surveillance satellite
- Korean space launcher

Expanding nfrastructures

- Expanding Cooperation in Commercial Area
- Integrate business site for satellite part

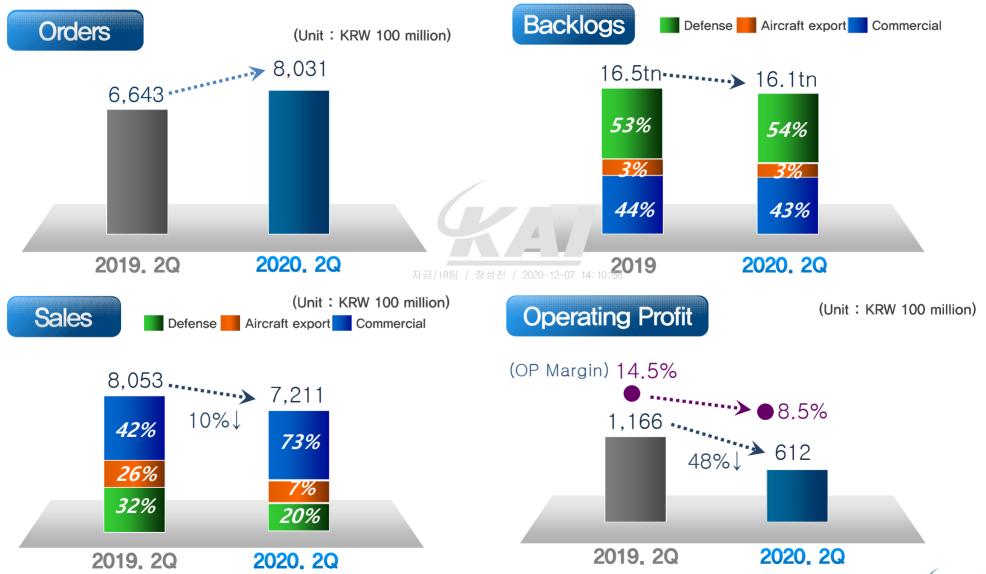
D Performance of the first quarter





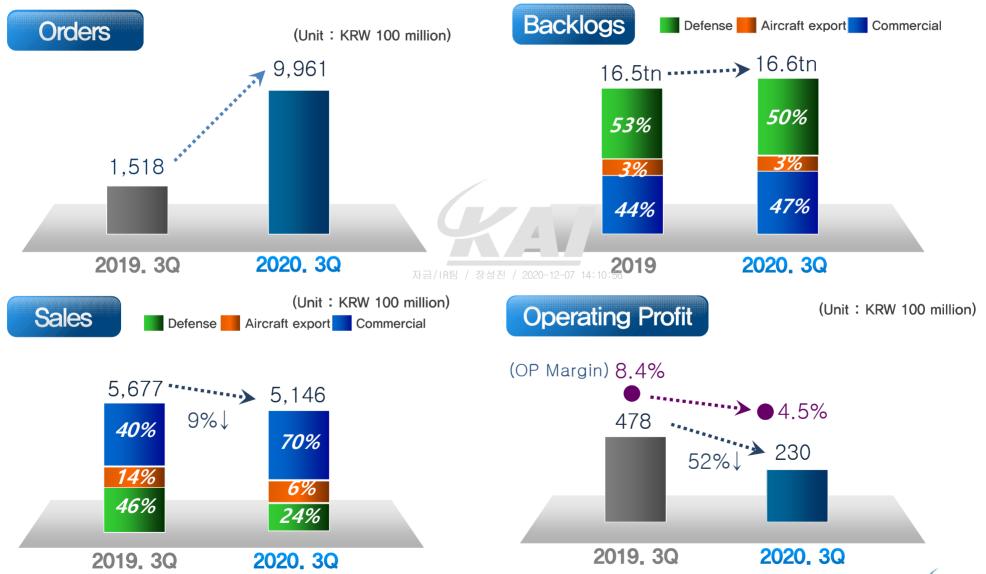
Description Performance of Second Quarter





Derivation Performance of Third Quarter









1 Company Overview(1)



Foundation

Ownership

(As of 31.Dec 2019)



KAI

[Established in Octobe 19 3]

Total Shares: 97,475,107

Korea Exim Bank

26.41%

Institutional &
Individual Investors

60.58%

- Established by government policies to nurture the future growth driver of Aerospace industry with promoting the competitive edge in global market.
 - Consolidation of Aerospace Divisions of Daewoo Heavy Industries, Hvundai Space & Aircraft, and Samsung Aerospace
- Main Businesses: Aircraft, Airframe, Satellite, MRO, etc.









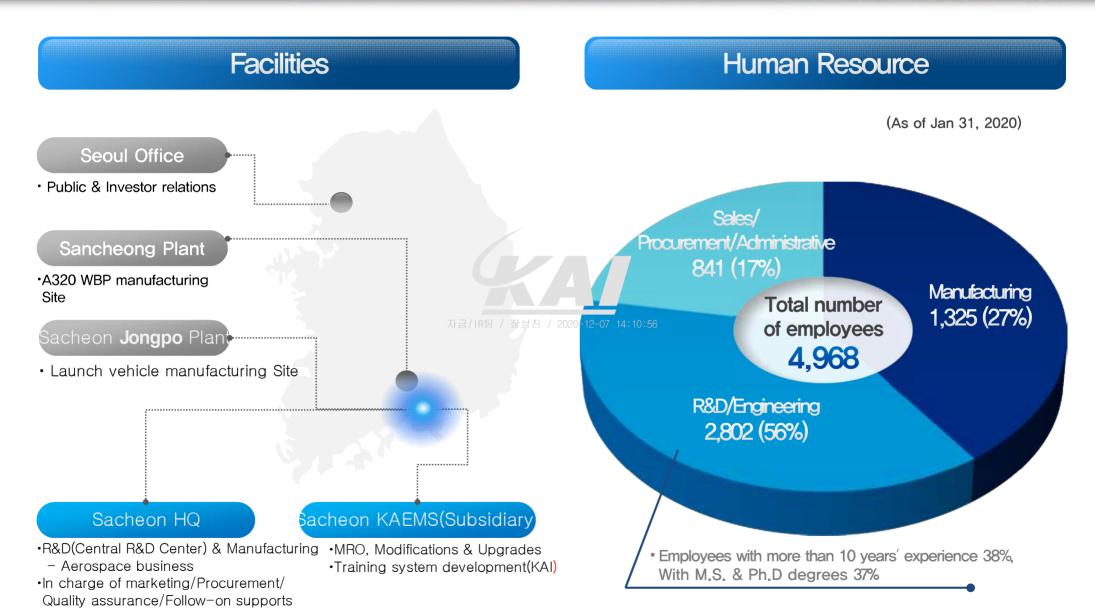
National Pension Service 6,53% Hana Financial Investment 4,86%

> Employee Stock Ownership 1,62%



O Company Overview (2)







102 Main Businesses (1) Military



KT-1 Basic Trainer



- KT-1: Completed development & serial production, Exporting to oversess
- Development: 88^97 , Serial Production: 99^94
- Exports: Indonesia / Turkey / Peru / Senegal (Total 84)

KA-1 Tactical Control Aircraft



- KA-1: Completed development & serial production, Upgrades scheduled
 - med KA-1 Development & Serial Production('00~'06)
 - ollow-on Upgrades: Equipped machine guns($09\sim11$)

자금/IR팀 / 장성진 / 2020-12-07 14:10:56

T-50 Advanced Trainer / TA-50 Lead-in Fighter



- T-50/TA-50 : Completed development & serial production, Exporting to overseas
 - Development: '97 \sim '06, Serial Production: '03 \sim '12
 - Exports: Indonesia / Iraq (Total 40)

FA-50 Light Combat Aircraft



- FA-50(T-50 Variant): Completed development, In serial production
- Development : '08 \sim '12, Serial Production : '11 \sim '16
- Exports: Philippines / Thailand (Total 24)



102 Main Businesses (2) Military



KUH Surion Utility Helicopter



- Completed development and currently in serial production
- Development: '06 \sim '12, Serial Production: End of '10 \sim
- Variants under development(Para-public/Amphibious/MEDEVAC)
- * Currently manufacturing variants for the National Police Agency(delivered) and Forest Service, Search&Rescue, Coast Guard

Unmanned Aerial Vehicle (UAV)



- Completed development & production of corps class UAV,
 Next—gen, under development

자금/IR팀 / 장성진 / 2020-12-07 14:10:56

Korean Indigenous Fighter (KF-X)



- Indigenously develop fighter jet to replace aged fleet of F-4 and F-5
- Develop State-of-Arts tech fighter jet for beyond KF-16+ α performance('15 \sim '26)
- Joint development with Indonesia

LAH/LCH



- Coordinate international joint development of LAH and LCH
- International joint development of LCH('15 \sim '21)
- Modification & development of armed-variant LAH($^115\sim^123$)



Quantities Main Businesses (3) Commercial



International Joint Development of Commercial Aircraft



- Participating International Joint development projects as tier1 partner
- Joint development & production of Airbus A350 Wing Rib
- Joint development & production of Boeing 787 Sec. 11, FTE

Aerostructure for Commercial & Military Aircrafts



- Aerostructure production for large commercial & military aircrafts
 - Aero structures for large commercial jets, such as Airbus and Boeing
 - Sole production of F-15 wing/forward fuselage, AH-64 fuselage

KC-100 Light Commercial Aircraft



- Completed small aircraft development for BASA agreement
- Development: $'08\sim'13$, R&D project awarded by MOLIT
- Currently producing trainer jets for Korea Air Force Academy
- * BASA: Bilateral Aviation Safety Agreement

Civil Aircrafts (Small-/Mid-sized)



- Develop KAI—brand civil aircrafts and enter global market
- Mid—sized commercial Aircraft (50 seats+, FAR part 25)
 Reviewing feasibility of self development



2 Main Businesses (4) MRO/Upgrade/Space



Military Aircraft MRO & PBL Services



- PBL for indigenous aircrafts, MRO service for military aircrafts
- KT-1/KA-1, T-50 Variants/FA-50, UAV PBL
- MRO service for ROKN's P-3 and US Navy's H-53 Helicopter and USAFs F-16
- * PBL: Performance Based Logistics

Upgrade & Modification for Large Military Aircrafts



- Upgrade & modification programs for large military aircrafts
- ' 'ograde program for ROKN's P-3 and Modification of ROKAF's E-737

 Jpgrade program for ROKAF's C-30 Transport Aircraft('13~'15)

Commercial MRO (Modification/Upgrade)





- Large-sized Commercial Aircraft MRO Service
 - Commercial Aircraft Modification and Upgrade(Fuselage/Bogie/Engine Etc.)
 - Conduct business through specialized MRO firm(KAEMS)
 - * Establish Aircraft MRO specialize firm('18.6)

Multipurpose Satellite / Mid-sized Satellite / Space Launcher



- Development of satellite/space launcher body frames and parts
- Mid-sized Satellite(Np.1, '15~), Military surveillance Satellite('18~)
- Designated to be in charge of the final assembly of the Korea's indigenous space launch vehicle('14~'21)







Total solution provider in Aerospace

We ask for your continued interest and support in KAI as we embark on our journey to be a world's leading aerospace company

