

The Trusted Partner in Global MRO

SIAEC AGM

19 July 2019

Recap – MRO Landscape

Challenges

**Technological
Advancements in
New-Generation
Fleet**

**Phasing out of
Older Aircraft &
Engines**

**Increased Hangar
Capacity in the
Region**

**OEM Competition in
the Aftermarket**

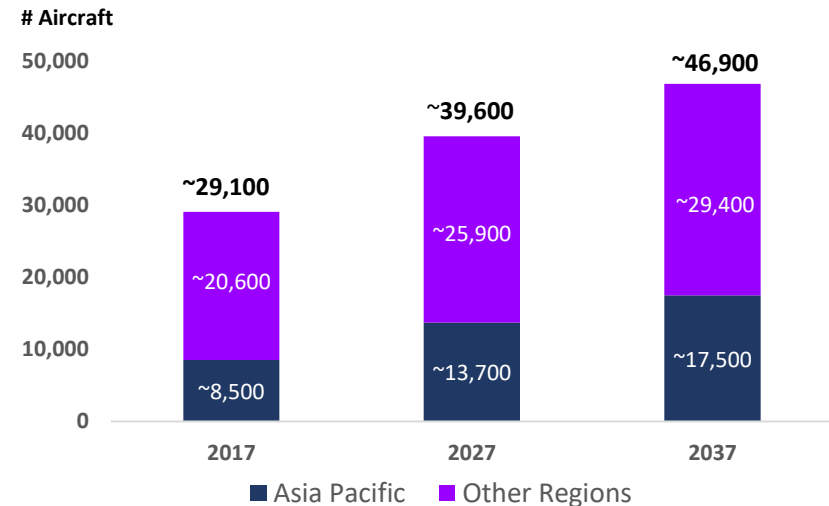


Opportunities

**Global fleet growth is projected to increase
by 3.1% per annum**

5.0% fleet growth per annum in Asia Pacific

20 Year Global Air Transport Fleet Growth



Source: ICF

Recap – Company Initiatives



Innovation and Technology

Transformation

Strategic Partnerships

Innovation & Technology

Developed an Operations & Technology Capability (OTCR) Roadmap

Digital Collaboration

Improve information accessibility and enhance connectivity on the go

Machine Vision

Enable automated inspection, analysis and continuous monitoring;
Video analytics for safety, security and surveillance

Smart Control Centre

Industry 4.0: Improve visibility of work processes

Automation and Robotics

Strengthen ability to optimise operations and conduct all-weather operations



Enhancing Quality
and Safety



Increasing
Efficiency



Developing New Products
and Capabilities



Transformation

2018

2019

2020

2021

Transforming for the Future

- Upgrade toolings, facilities and equipment (\$90M)
- Prepare for digital economy (72 percent of total staff completed the SkillsFuture for Digital Workplace training)
- Optimise manpower utilisation and improve turnaround time
- Generate productivity gains and create capacity for growth

Strengthening Strategic Partnerships

Forming new partnerships



- Line Maintenance JV based in Thailand

JV incorporated on 10 Jul 2019



- Brilliant Factory to perform engine MRO services for GE90 and GE9X engines

JV pending incorporation

Developing existing partnerships

**BOEING ASIA PACIFIC
AVIATION SERVICES**
PTG. LTD.

HMS
HMS SERVICES
by SIAEC and AIRBUS

**ADDITIVE FLIGHT
SOLUTIONS**

MOOG
AIRCRAFT SERVICES ASIA

SIA ENGINEERING (JAPAN)



New JVs in their gestation period

JV - Portfolio Overview

Airframe and Line Maintenance

SIA Engineering (Japan) (SIAEJ)	Heavy Maintenance Singapore Services (HMSS)
Pan Asia Pacific Aviation Services (PAPAS)	Boeing Asia Pacific Aviation Services (BAPAS)
Aviation Partnership (Philippines) (APPC)	SIA Engineering (Philippines) (SIAEP)
SIA Engineering (USA) (SEUS)	Singapore Aero Support Services (SASS)
Southern Airports Aircraft Maintenance Services (SAAM)	PT JAS Aero- Engineering Services (PT JAE)
Line Maintenance Partnership (Thailand) (LMPT)	

Engine and Component

Component Aerospace Singapore (CAS)	Turbine Coating Services (TCS)	JAMCO Aero Design & Engineering (JADE)	Fuel Accessory Service Technologies (FAST)
Singapore Aero Engine Services (SAESL)	Asian Surface Technologies (AST)	Panasonic Avionics Services Singapore (PACSS)	Goodrich Aerostructures Service Center-Asia (GASCA)
Eagle Services Asia (ESA)	Safran Landing Systems Services Singapore (SLSSS)	Safran Electronics and Defense Services Asia (SEA)	Aerospace Component Engineering Services (ACES)
Joint venture with GE for GE90/ GE9X		Additive Flight Solutions (AFS)	Moog Aircraft Services Asia (MASA)

25 JVs in 8 countries
Total Revenue in FY18/19: S\$4.62B

SIAEC Group

- SIAEC Group consist of the Company and 25 Joint Ventures
- Operating out of 35 airports in 8 countries
- Total revenue of S\$5.49B in FY18/19

Thank You