

# Transforming for the Future

SIAEC AGM 19 July 2018



# MRO Landscape





Longer check intervals and *lighter work content* 

2. Continued Phasing Out of Old Aircraft and Engines



Boeing 747



**Pratt & Whitney** PW4000 Engine

3. Increased Hangar Capacity in the Region

*Improved reliability of engines* 



4. OEM Competition in the Aftermarket















**Aircraft** 

Engine

Component



# Company - Initiatives

2016 2017 2018 2019 2020

#### **Investing for the Future**

- Innovation & Technology Group was setup in April 2016
- Focus areas Additive Manufacturing,
   Digitalization, Automation & Robotics,
   and Data Analytics
- Investment of up to \$\$50M in Innovation and Technology initiatives

#### **Transforming for the Future**

- Transforming across entire organization
- Streamlining processes to improve productivity and strengthening competitiveness
- Project includes revenue and cost initiatives

# Strategic Partnerships Innovation and Technology

**Facilities** 

**Skills** 



# Innovation and Technology

#### **Additive Manufacturing**



To establish an additive manufacturing service centre to provide 3D printed parts for use in commercial aviation

JV incorporated on 29 Jun 2018

#### **Data Analytics**







CASEBANK

Resource optimization through data analytics and improved aircraft reliability through engineering data analytics solutions

- 1. MOU with Safran Analytics (Feb 2018)
- 2. MOU with CaseBank Technologies (Feb 2018)



## Strategic Partnerships

#### **Engine and Component**



#### **AIRCRAFT SERVICES ASIA**

Repair and overhaul services for Moog manufactured flight control systems fitted on new generation aircraft including the Boeing 787 and Airbus A350

**Incorporated on 3 Oct 2017** 

#### **Engine and Component**



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





JVA signed on 6 Feb 2018



### JV - Portfolio Overview

#### Airframe and Line Maintenance

Aircraft Maintenance Services Australia (AMSA) Heavy
Maintenance
Singapore Services
(HMSS)

SIA Engineering (Japan) (SIAEJ) Boeing Asia Pacific Aviation Services (BAPAS)

Aviation
Partnership
(Philippines)
(APPC)

SIA Engineering (Philippines) (SIAEP)

Pan Asia Pacific Aviation Services (PAPAS) Singapore JAMCO Services (SJS)

SIA Engineering (USA) (SEUS) PT JAS Aero-Engineering Services (PT JAE)

Southern Airports
Aircraft
Maintenance
Services (SAAM)

#### **Engine and Component**

Component Aerospace Singapore (CAS) Turbine Coating
Services
(TCS)

JAMCO Singapore (JS)

Fuel Accessory
Service
Technologies
(FAST)

Singapore Aero Engine Services (SAESL) Asian Surface Technologies (AST)

Urface
Ilogies
IT)

JAMCO Aero
Design &
Engineering
(JADE)

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)

Collaboration with **GE** for GE90/ GE9X

Additive Flight
Solutions
(AFS)

Moog Aircraft Services Asia (MASA) Panasonic Avionics Services Singapore (PACSS)

26 JVs in 8 countries
Total Revenue in FY17/18: S\$4.06B



# SIAEC Group

#### **SIAEC Group**

- SIAEC Group consist of the Company and 26 Joint Ventures
- Operating out of 39 airports in 8 countries
- Total revenue of S\$4.46B in FY16/17, and S\$5.03B in FY17/18



# Thank You