



aerospace malaysia innovation centre

944751-A

www.amic.my

**Fostering Research and Technology
Capabilities for Malaysian
Aerospace Industry**

An Initiative Under:



OVERVIEW

A Private-Public Partnership initiative: an industry-led research centre established in 2011 as part of Malaysia's strategy to foster Malaysian Aerospace Industry competitiveness.

BACKGROUND

Aerospace Malaysia Innovation Centre (AMIC) is a non-profit organization based on membership structure which is open to Industrial and Academic players. Members define the strategy of AMIC through a committee (the Board of Directors) co-chaired by the Science Advisor to the Prime Minister of Malaysia and the CTO of Airbus Group, including representatives from all AMIC lead members (Airbus Group, Rolls-Royce, CTRM, UPM, MIGHT, MARA) and stakeholders (MOE, EPU).

R&T PROFILE

AMIC Research & Technology (R&T) activities are reflecting the current challenges and opportunities faced by the Aerospace industry in Malaysia. AMIC has managed to establish the technical network, comprising of major industrial players, government agencies and academia in order to foster strong collaboration in the research areas that have been classified in two distinct areas, namely as Sustainable Aviation and Factory of The Future.

Lead Members



Government Support



R&T THEMES

Factory of The Future | 01

- Tool Design & Manufacturing
- Innovative Manufacturing
- Virtual Reality
- Advanced Testing & Certification

Sustainable Aviation | 02

- Bio Jet Fuel
- Bio-Sourced Material



OBJECTIVES

01 Industry Competitiveness through R&T

02 Technology Competency

03 Exposure of Malaysian Scientists to Global Level R&T



AMIC'S VALUE PROFILE



RESEARCH PARTNERS & TECHNICAL NETWORK



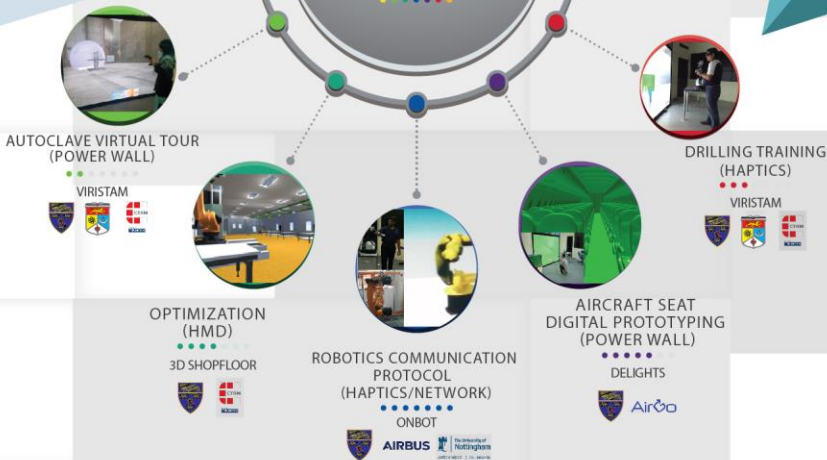
FACTORY OF THE FUTURE

VIRTUAL REALITY

Advanced new material and digital technologies are slowly making their way into the factory floor. Ultimately, these new technologies and processes will transform the factories in centres of innovations where highly qualified operators create new ways of adding value to their companies.

Although the technologies of the factory of the future are largely already available, their implementation in today's factories is still pending, that is why AMIC has embarked in derisking their use for Aerospace companies in Malaysia and in the region.

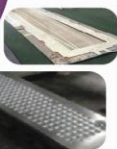
AMIC VIRTUAL REALITY DEVELOPMENT



FACTORY OF THE FUTURE

INNOVATIVE MANUFACTURING

Invar Tooling



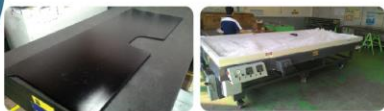
Objective: To improve the life cycle of tooling, reduce maintenance cost and time.

Advanced Titanium Machining (ATIM)



Objective: To improve machining process, faster removing material and cost effective

Out Of Autoclave Cure Development



Objective: To develop new capability to cure parts using curing debulking table. With autoclave being the bottleneck in aircraft part production, this project is strategically developed to support production capacity, as well to explore new capability to ensure sustainability of the production line.

SUSTAINABLE AVIATION

COE FOR BIOMASS VALORIZATION



Source: AMIC / AIRBUS

AMIC's sustainable aviation activities are part of Airbus's worldwide action on Sustainable Aviation. This global action is part of aviation industry's pledge to reduce its climate impact. AMIC has been engaging in reputable sustainable projects harnessing expertizes in Malaysia to look into aspects covering renewable energy sources such as aviation fuel production from sustainable feedstock, transforming waste to fuel and bio-sourcing of sustainable bio-composite materials for prospective production of aviation grade components.



23

2016
PROJECTS

15

2015
PROJECTS

14

2014
PROJECTS

70%

AVERAGE OF ALTERNATIVE
FUNDS FOR EACH PROJECT

15

INDUSTRY
PLAYERS

14

UNIVERSITIES/
RESEARCH
INSTITUTES

10

GOVERNMENT
AGENCIES

RESEARCH PROFILE



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