







# ENGINEERING TECHNOLOGY TRAINING



## MEMKO MAAD



#### **PRODUCTS**



Non Intrusive Flight Test Instrumentation



#### **MEACAT**

Modular Electronic Attack Capable Air Target



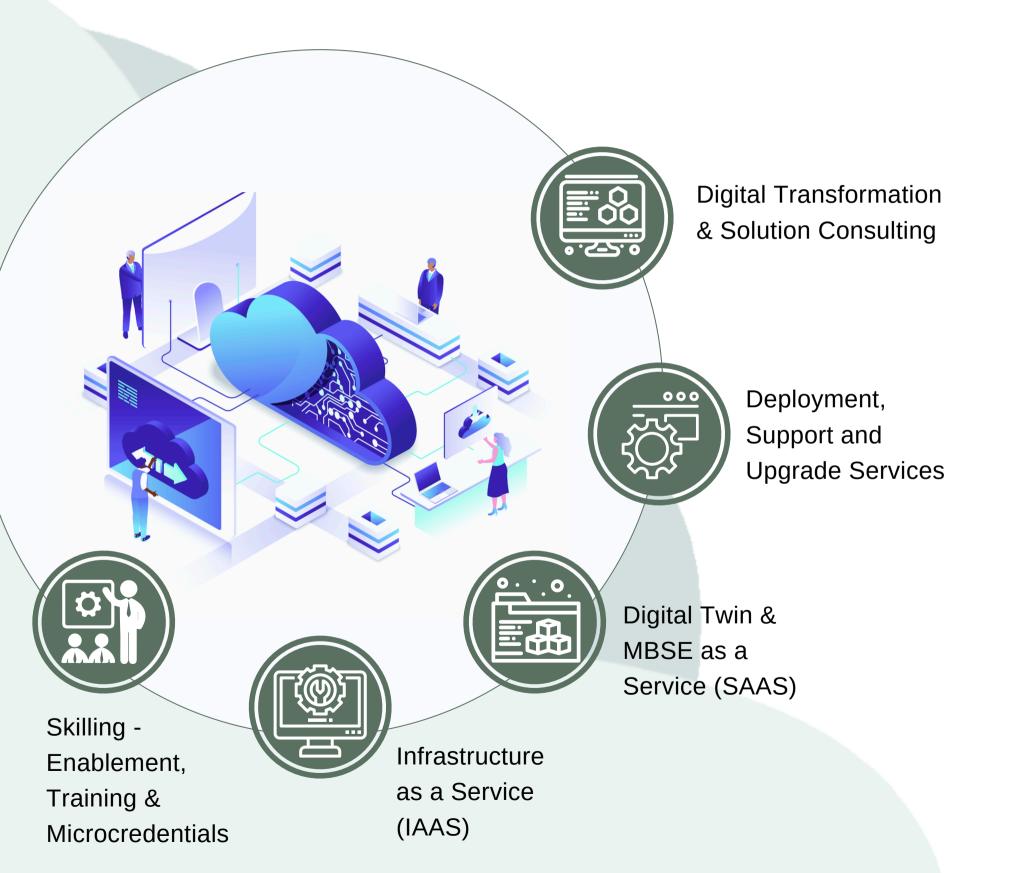
#### **3D PRINTED AIRCRAFT INTERIOR PARTS**







## MEMKO SYSTEMS



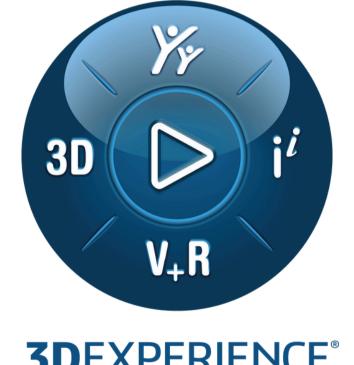
#### **SOLUTIONS**













## KEY CLIENTS

# AIRBUS









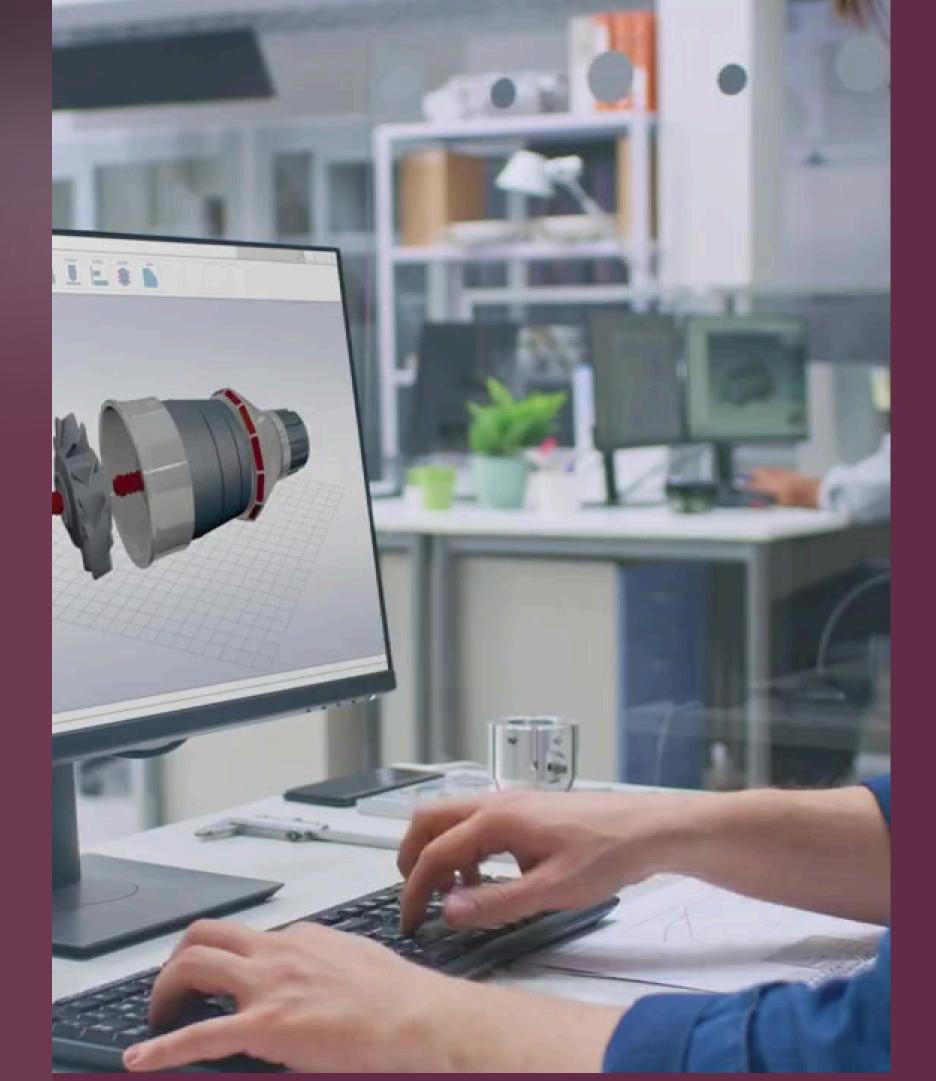






# Aerospace & Defence Services





# DESIGNED, INTEGRATED, TESTED, CERTIFIED

- Requirements Definition
- Design
- CAD Modelling
- Analysis
- Digital Simulation
- Test & Evaluation





# AIRCRAFT REPAIRS & MODIFICATIONS

# CASA Sub Part 21M Design Approval

- Aircraft Structures
- Systems and Equipment
   (Mechanical, Electrical & Avionics)
- Compliance to Regulatory
   Airworthiness Standards



#### **Aviation Services**



Fleet Technical Management



Procurement Services



Service Literature Review



Airworthiness Management



Aircraft Design, Analysis and Certification



Configuration Management



AD/SB Review & Assessment



Line Maintenance Planning



Technical Records Management



Reliability Management



End of Lease & Entry into Service



**Defect Analysis** 



Technical Publications



Weight & Balance



Electrical Load Analysis



TRAX MRO System Services, Support & Training



Part 21M Design, Repair & Modification Approval & Support

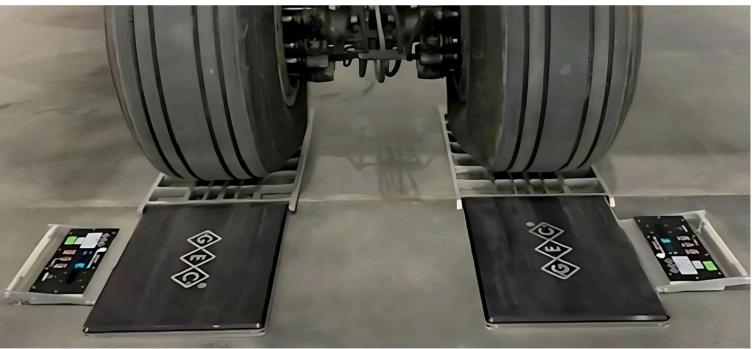


# Weight & Balance Services

MEMKO offers reweighing services for aircraft up to the size of an Airbus A320 and Boeing 737









### DEFENCE CLIENTS





BAE SYSTEMS

















PLATINUM PARTNER

S DASSAULT SYSTEMES

# Platinum Partner of Dassault Systèmes

Preferred Education
Partner for AU/NZ







## SOLUTIONS















### 3DEXPERIENCE -



#### **Maximise Investment in Existing Technology**

Retain what you need - replace what you don't



#### **Reduce Lead Times**

Access to the most recent information in real time



#### Improve the Customer Experience

Deliver with increased quality







#### **Engineering Excellence**

Accelerate the engineering process by 40% to 50%



#### **Design & Modelling**

Design, styling & surfacing workflow, from industrial to Class A



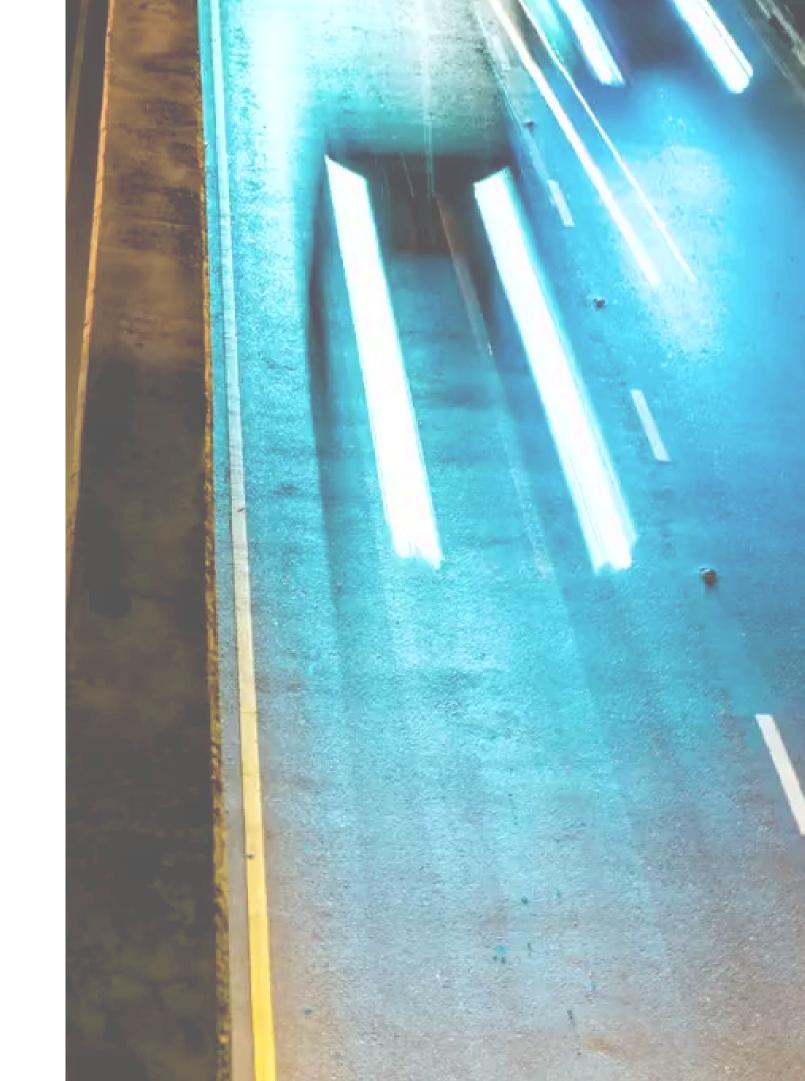
#### **Systems Engineering**

Systems definition to modelling, simulation, verification & business process management



#### **Electrical & Fluid Systems**

Optimise electrical wire harness & cable system design, alongside piping, tubing & HVAC system







#### **Accurate Predictions**

Gain precise real-world structural insights of products



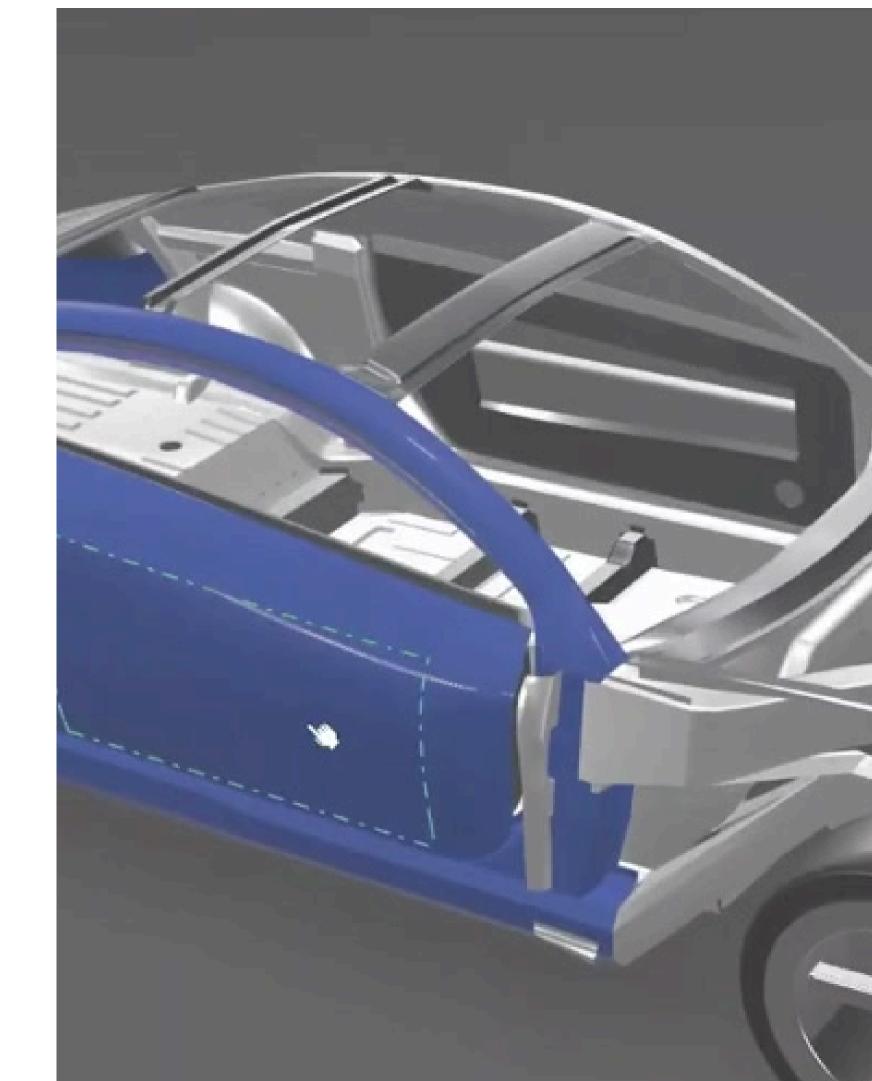
#### **Enhance Product Quality**

Achieve cost-efficiency and design issue prevention



#### **Cost Efficient Prototyping**

Save costs and expenditure time-to-market







#### Social

Foster innovation through collaboration



#### **Speed**

Improves productivity by streamlining communication



#### **Single Source**

Entire enterprise can access accurate and up-to-date information



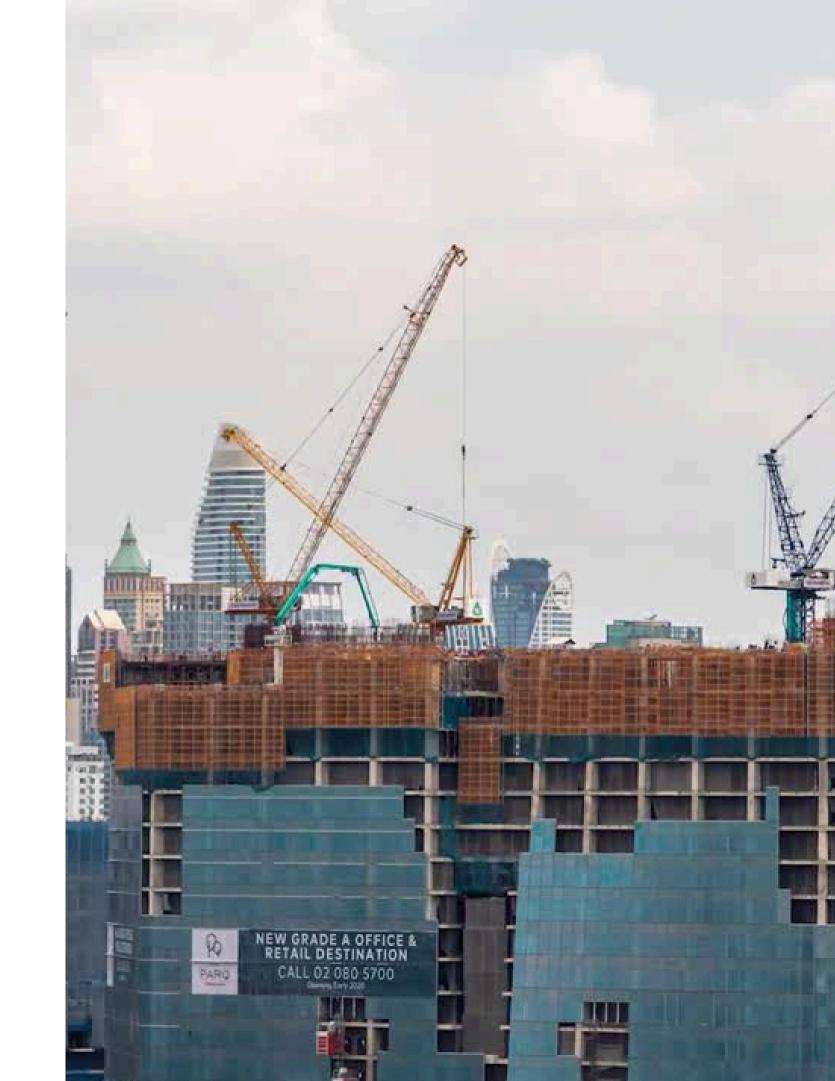
#### **Smart**

Use a data-driven approach to respond faster



#### Sustainable

Combine invisible governance and PLM analytics for real-time insights







#### **Process Planning**

Build-to-order and lean production manufacturing systems



#### **Collaborative Manufacturing**

Optimise manufacturing assets concurrently with planning



#### **Robotics**

Program and simulate industrial robotics



#### **Fabrication**

Program and simulate machining and additive manufacturing



#### **Ergonomics**

Design human-centred environments with virtual twins



## Enable y

# MEMKO Products



# MEACCAIT

Modular Electronic Attack Capable Air Target





A high-performance air-launched gliding threat emulator Electronic attack capabilities





# Fieldable from any JDAM cleared platform Can be repackaged to fit a diverse range of small air vehicles



# 

Non-Intrusive Flight Test Instrumentation







Non-Intrusive Flight Test Instrumentation

NIFTI is a small rapidly configurable, aircraft independent, wireless sending system that collects acceleration, strain and environmental data using adhesively mounted sensor nodes



ADHESIVELY MOUNTED

INTERNAL OR EXTERNAL MOUNTING

WIRELESSLY TIME SYNCHRONISED



NIFTI Non-Intrusive Flight Test Instrumentation



(3)

(1)

LOCKED



Wireless, time-synchronised flight test system for in-service aircraft



Mounts adhesively on locations of interest for rapid installation and removal



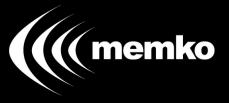
Sensor Nodes available in accelerometer and strain gauge variations



R

Developed in close collaboration with DST Group and the RAAF Air Warfare Centre







## 3D PRINTING

Aircraft Interior Replacement Parts certified by CASA for fitment to aircraft



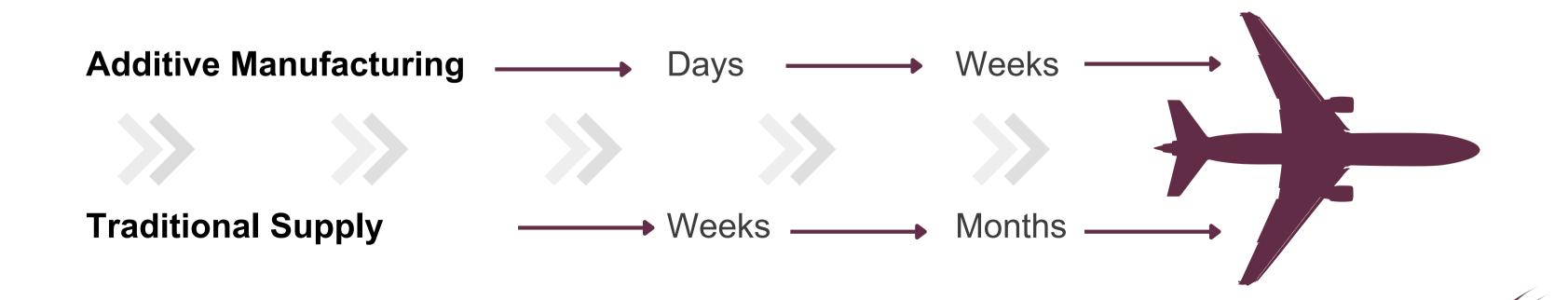
CASA Sub Part 21G Production Approval Certificate

Multiple surface finish options



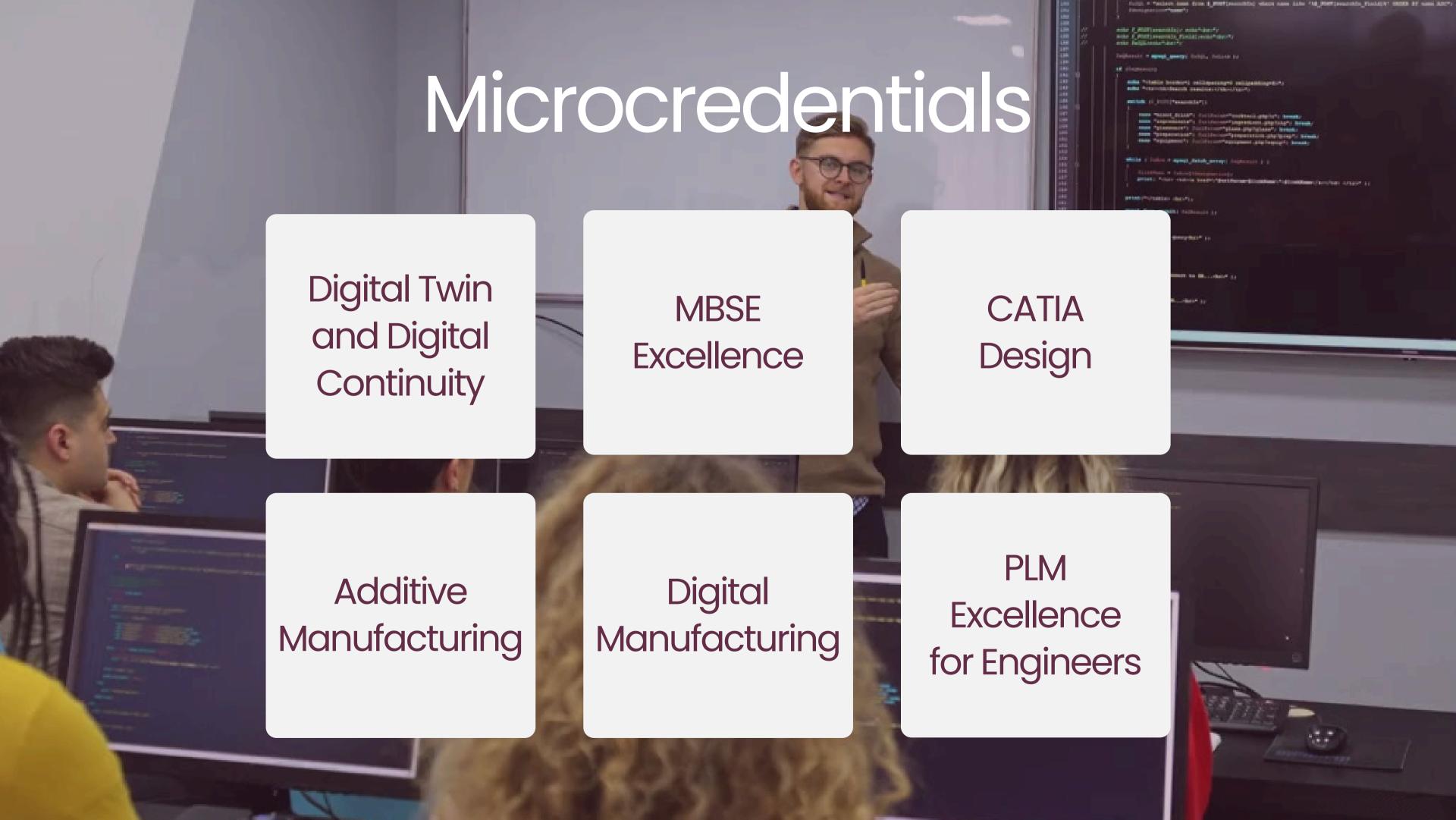
## 3D PRINTING

# Reduced turn-around time compared to traditional parts supply









MEMKO.COM.AU



# INDUSTRY >>> ACADEMIA



#### Transforming 12 industry verticals through 3DEXPERIENCE



























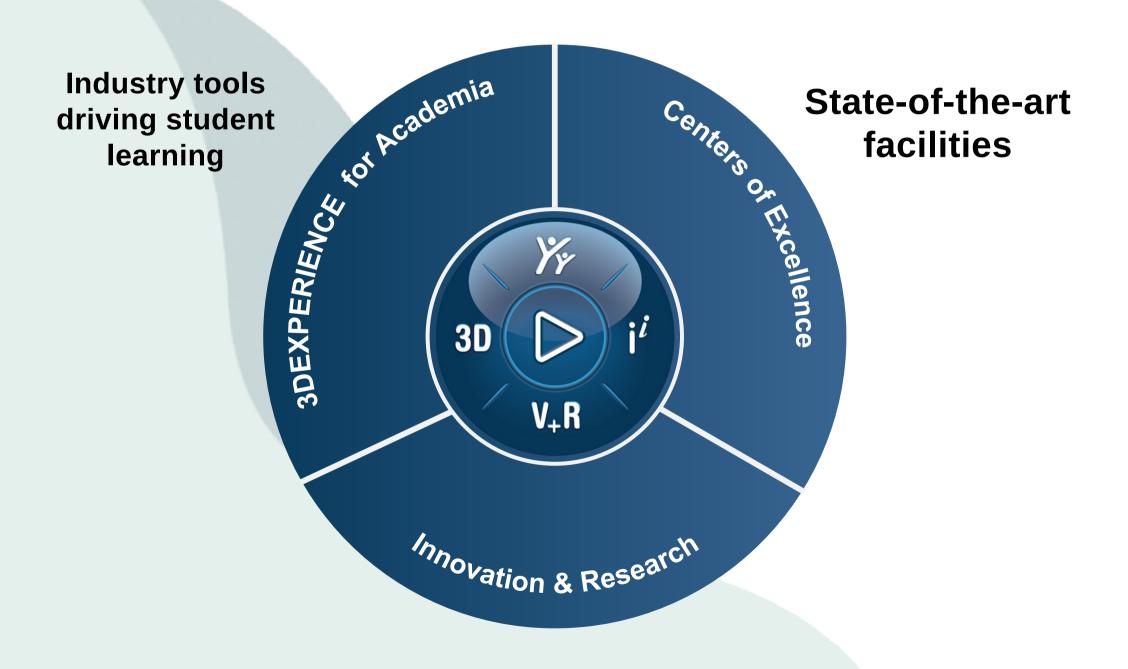
Course Curriculum

Research

Centre of Excellence

# INDUSTRY >>> ACADEMIA





Collaboration

#### Partnering with leading universities

By connecting education, research, and innovation, 3DEXPERIENCE ensures that students are equipped with real-world skills and that research initiatives remain at the cutting edge, fostering an innovation ecosystem.

### ACADEMIC CLIENTS





















### CONTACT US



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