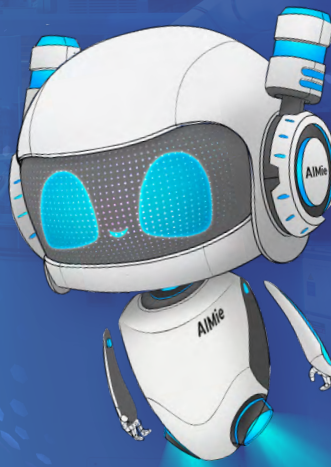


BREAK THE AI PILOT CEILING



SCALING AI FOR MANUFACTURING

Manufacturers – even the biggest believers in AI – often face challenges in adopting the technology. Why is this the case, when the upside of AI is so clear? These recurring problems of AI use can make adoption slow and difficult to scale:

- **Unstructured data**
- **Limited digital infrastructure**
- **High implementation costs**
- **A shortage of AI talent with manufacturing expertise**

As a result, many manufacturing AI initiatives stay at the experimental stage, rather than turning into production-ready solutions.

REAL USE CASES, REAL AI IMPACT

Singapore's Sectoral AI Centre of Excellence for Manufacturing – **AIM_{fg}** – was established to close this gap.

By focusing on real manufacturing use cases where AI can deliver measurable impact, AIM_{fg} helps manufacturers translate AI from concept to deployment by tackling the structural barriers that prevent full AI implementation.

Rather than building one-off solutions, AIM_{fg} develops shared and reusable AI capabilities, enabling faster adoption through ready-to-use tools and ecosystem partnerships.

AIM_{fg}'S MISSION

AIM_{fg} aims to accelerate AI adoption across the manufacturing sector, with a focus on technology translation and workforce augmentation. We will advance this mission by delivering on these strategic priorities:

1. **Building “AI x Manufacturing” bilingual expertise**
2. **Providing end-to-end support to companies to enable sustained AI adoption**
3. **Tapping on global & local expertise through ecosystem approach**

Our services provide manufacturers with unprecedented opportunities to optimise operations and increase productivity in **Six key focus areas**:



Operations Optimisation

AI for streamlining planning, scheduling, and resource allocation to boost production efficiency



Predictive Shopfloor

AI for forecasting equipment failures and enabling proactive maintenance strategies



Quality Assurance

AI for detecting defects and ensuring consistent, high-quality inspection across products



Process/Product Innovation

AI for accelerating innovation through generative design, simulation, and prototyping.



Industry Automation

AI for enabling robots to perform complex tasks with precision and adaptability



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AI for enabling robots to perform complex tasks with precision and adaptability

AIM_{fg} leverages A*STAR's domain expertise & ecosystem strength to develop and deploy AI solutions.

HOW YOUR ENTERPRISE CAN BENEFIT

AIM_{fg} understands the diverse needs of the manufacturing sector. To better help in advancing your objectives, we've developed three models of collaboration:



Co-Innovation & Collaboration

Driving manufacturing plants in Singapore to new heights with accelerated and scalable bespoke AI adoption.



Common Model Adoption

Adopting our ready-to-deploy AI solutions to tackle common manufacturing needs, enabling faster adoption with fewer required resources.



AI Workforce Enablement

Empowering manufacturing teams with trainings needed to adopt, operate, and maintain AI solutions on the shopfloor.

GET STARTED WITH AIM_{fg}

Build lasting AI capabilities across your manufacturing operations.

For more information, visit



MEET AIMie

AIMie is **an agentic AI framework** designed to enable human-AI collaboration, to enhance manufacturing operations.

Built as **a crew of specialised AI agents working together in real time**, AIMie helps manufacturing teams understand what is happening on the factory floor, why it is happening, and what actions can be taken next.

She reasons over real-time data, applies manufacturing knowledge and rules, and explains her recommendations clearly — **keeping humans in the loop for critical decisions**.

Designed to collaborate rather than replace, AIMie adapts her guidance to different roles and skill levels, **augmenting human expertise and improving confidence** in handling both routine operations and unexpected situations.

Her **modular and scalable architecture** allows the same agentic framework to be extended across manufacturing use cases such as monitoring, maintenance, and planning.

AIMie represents a step towards the future of manufacturing AI – **transparent, adaptive, and built to work alongside people** as factories become more complex and dynamic.

