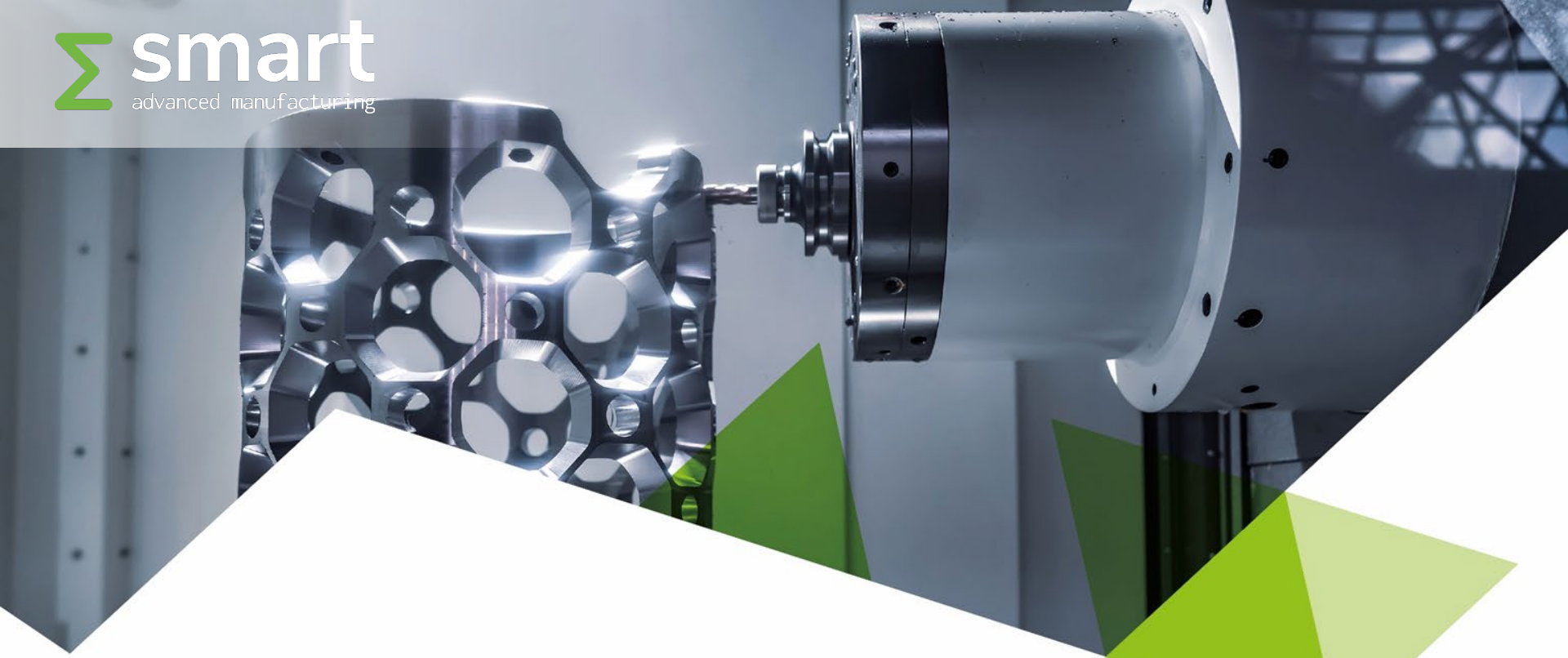
smart
advanced manufacturing



Authentise Ltd (UK)

Potential Project Concepts

smart
advanced manufacturing

ORGANISATION PROFILE – Authentise Ltd (UK)

- SME Software company providing “Data-Driven Workflow Management” for manufacturing companies
- 30 people world-wide
- Involved in running 4 previous UK, EU and US grant funded R&D projects

1 Agile Engineering Collaboration

THREADS

Manage the most flexible engineering & manufacturing processes such as R&D, field maintenance, Non-conformance and more.

2 End-to-End Production Process Management

FLOWS AM

FLOWS

Manage Orders from Quoting to Shipment using Machine Data.

3 Standalone Tools for Specific Workflows

MATERIAL MANAGEMENT

Manage & Track Material Genealogy & Inventory

DIGITAL WAREHOUSING

Securely Share & Assess Designs. Create a Hub of Ideas.

DATA CONNECTOR

One API to connect all your machines on the shop floor.

RFQ RESPONDER

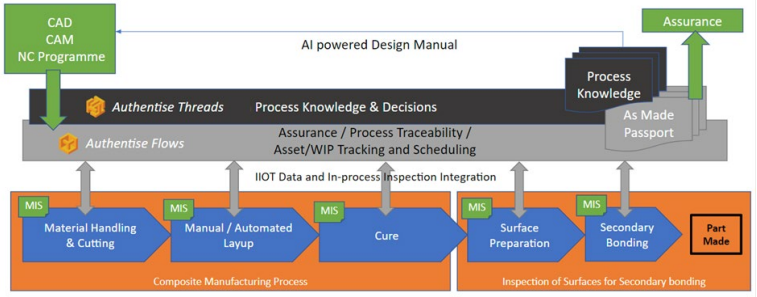
In-depth Quoting for Engineering Applications

Proposal Concept 2 – *Digital Connect*

AI-Powered Design Collaboration and Manufacturing Integration

Vision & Motivation

- Revolutionizing the manufacturing design process through seamless integration of AI-driven collaboration tools and industry-leading manufacturing portals.
- The current design-to-manufacturing process is often fragmented, leading to inefficiencies, delays, and increased costs.
- Our solution will streamline this process by providing a centralized platform that facilitates real-time collaboration, automates data exchange, and offers valuable insights throughout the design lifecycle.



Expected outcome:

- Seamless integration with manufacturing portals to automatically generate technical data packages, reducing manual effort and errors.
- AI-powered suggestions and recommendations based on historical data and industry best practices to optimize design choices.
- Accurate predictions of manufacturing costs and lead times, enabling informed decision-making.
- Identification of potential manufacturing challenges early in the design process, leading to more robust and cost-effective products.

Impacts:

- Enhanced design decision-making and early identification of manufacturing issues result in higher-quality products.
- Faster design iterations and streamlined manufacturing processes enable quicker product launches.
- Access to valuable insights and data-driven decision-making

Schedule: TBD - 18 to 24 months

Partner Requirement/Roles:

- Design House / PLM vendors (or researchers)
- Manufacturing demonstrators - especially with rapid / design led issues that this could be tailored for

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Digitally scaling manufacturing Innovations

Other Research Interests:

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