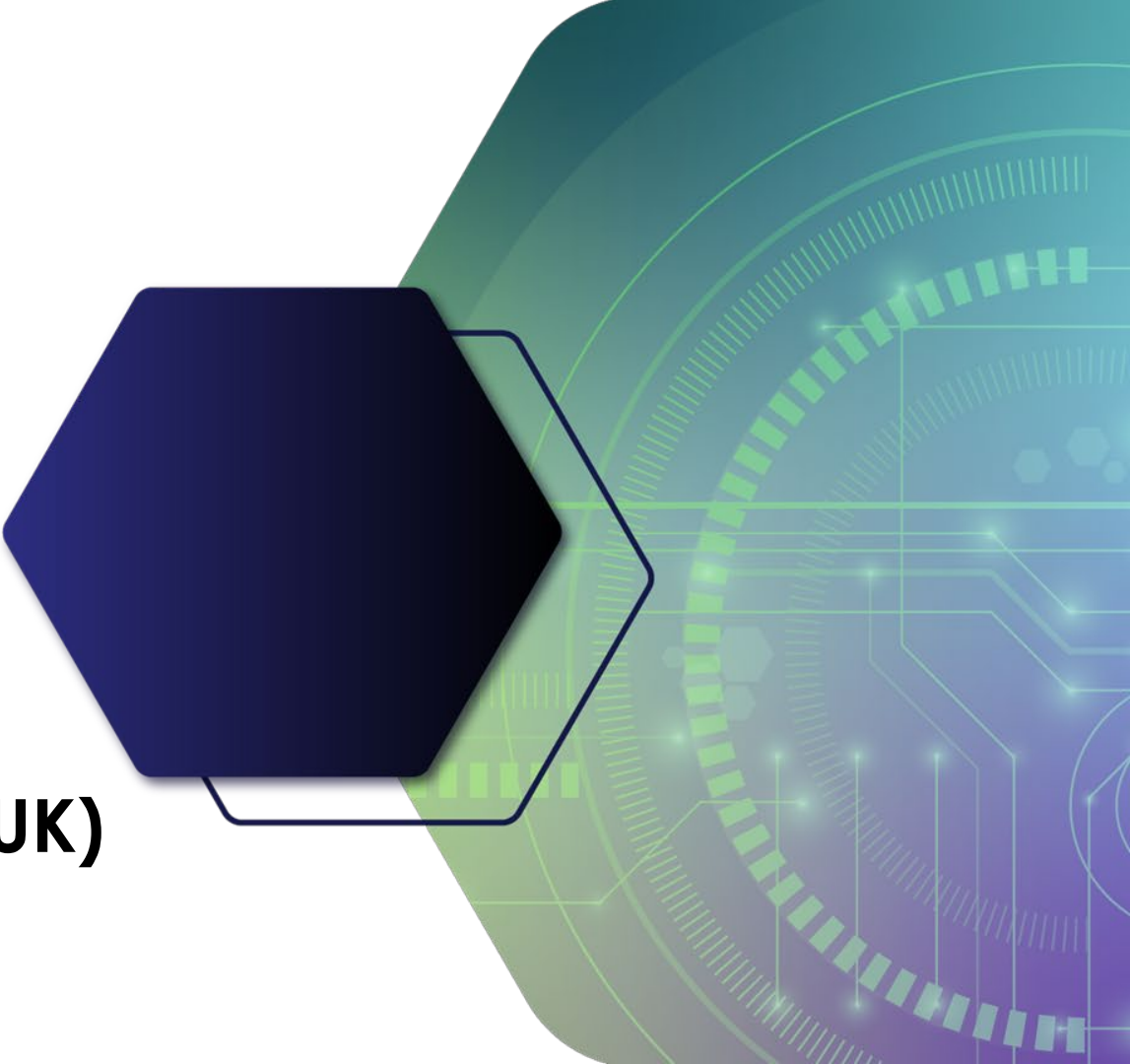




Authentise Ltd (UK)
DigiRepair



- SME Software company providing “Data -Driven Workflow Management” for manufacturing companies
- 30 people world -wide
- Involved in running 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

Authentise Solutions



THREADS

Engineering Collaboration : Make Idea → Design process more efficient with AI, 3D Annotation, Chat , Event Tracking & Integrations



WHISPER

Agentic Collaborative Data Capture: Use AI to capture and act on data from structured and unstructured data sources.

IDEA

PART



DIGITAL
WAREHOUSING

Design Sharing
*incl AM Viability
Assessment*



FLOWS

Production workflow , more a transparent, efficient and compliant
*incl spin-outs covering Quoting, Material Genealogy and Edge Machine Data
connections.*



RFQ
RESPONDER



MATERIAL
MANAGEMENT



DATA
CONNECTOR



Tools to Deliver Value to Operators Today, and Help Capture the Digital Thread

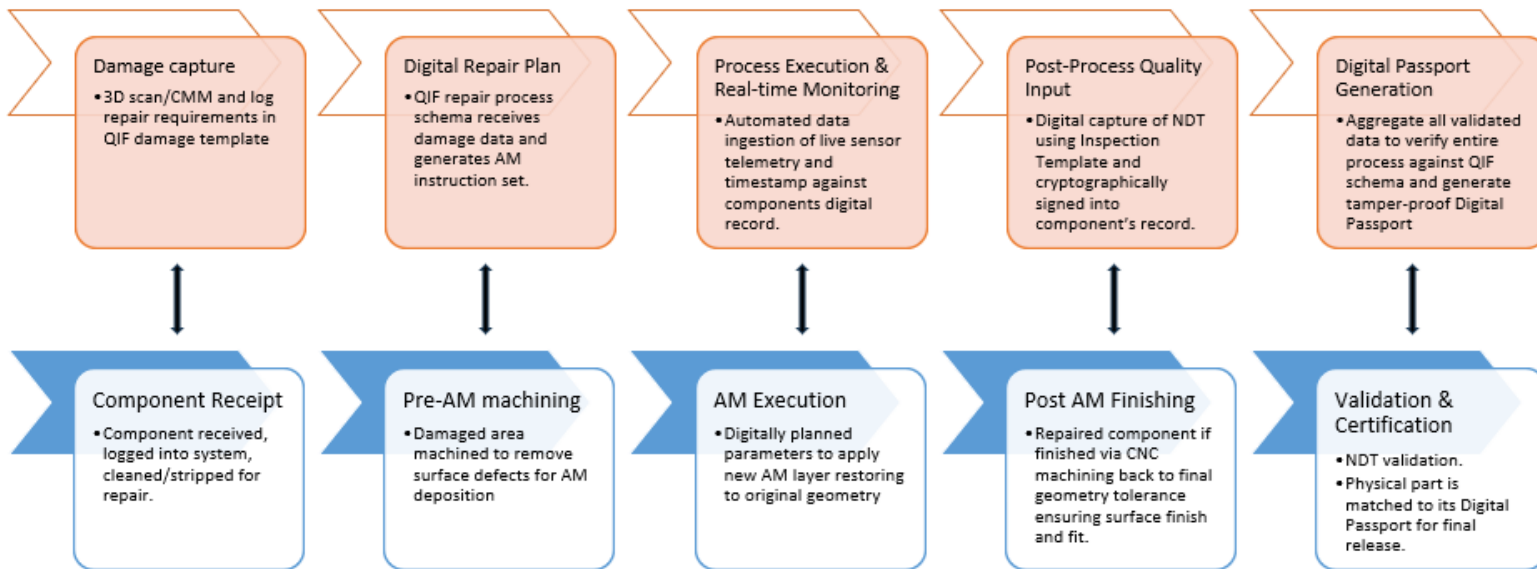
DigiRepair

Vision: The main goal of DigiRepair is to establish a **fully digitized, standardized, and adaptive digital thread for the repair and remanufacture of high-value engineering components** using Additive Manufacturing (AM). Authentise aims to replace manual, fragmented tracking with an interoperable, metrology-driven software platform that automates quality assurance and regulatory compliance across MRO (Maintenance, Repair, and Overhaul) supply chains.

Motivation: High-value metallic components in sectors like aerospace and power generation are frequently scrapped as "Beyond Economical Repair" (BER) due to conventional repair limits, long supply chain lead times (40–100 weeks), and volatile raw material availability. Simultaneously, SME repair facilities rely heavily on spreadsheet-based workflows, creating a digital capability gap that prevents the seamless adoption and certification of advanced additive repair processes

Content: Authentise will enhance its flagship Manufacturing Execution System (FLOWS-AM) to **handle non-standard, adaptive repair steps, integrating pre- and post-repair 3D scan data with Quality Information Framework (QIF) standards**. The project will integrate with advanced additive repair cell technologies—such as Cold Spray (CS) and Laser Directed Energy Deposition (L-DED)—to capture live sensor telemetry and generate automated, tamper-proof "Digital Product Passports"

Digital Workflow



Physical Workflow

Expected Outcomes

- Key deliverables include an SME-appropriate, QIF-aware software execution platform capable of automated data ingestion and adaptive workflow branching. Additionally, the project will yield validated additive repair process specifications, automated compliance toolkits for regulatory audit readiness (e.g., EASA), and verified Digital Passports guaranteeing end-to-end component traceability

Impacts

- By enabling precision additive restoration, the project targets a reduction in global component scrap rates from a typical baseline of 16% down to 5%, avoiding significant material waste and embodied CO₂e emissions. Operationally, adopting facilities can expect 40–60% cost savings per part and 70–85% lead time reductions, significantly increasing supply chain resilience

Schedule

- The core project scope is structured for a 12-to-24-month duration (e.g., July 2027 to July 2029)

PARTNERS

Types of Partners Sought:

- AM Technology Specialists & Hardware OEMs: Providers operating Cold Spray, DED, or laser-based repair cells interested in digital telemetry integration
- Metrology & Research Institutes: Academic or Catapult-style centers specializing in QIF data schemas, non-destructive testing (NDT), and material qualification

CONTACT INFO

Open Innovation Head: Dr Simon McCaldin

- simon@authentise.com
- [linkedin.com/in/simacsee/](https://www.linkedin.com/in/simacsee/)

Open Innovation Projects manager: Dr Vicente Rivas

- vicente@authentise.com
- [linkedin.com/in/virivas/](https://www.linkedin.com/in/virivas/)

Other Research Interests:



People, Software, Machine
& Device connectivity



Compliance, Tracking
& Genealogy



Agile Digital
Thread



Data Driven
Insights & Analytics



Materials, Assets Tracking &
Management



Closed Loop Design,
Test & Manufacturing



Distributed
Supply Chain
Execution



Lifecycle
Sustainability &
Costing

You partner for
**Digitally scaling
manufacturing
Innovations**

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