



**Authentise Ltd (UK)**  
**Potential Project**  
**Concepts**



smart

advanced manufacturing

- 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

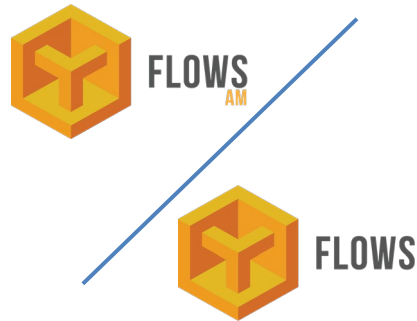
## 1 Agile Engineering Collaboration



**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



**FLOWES**  
AM

**FLOWES**

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

## Digital manufacturing traceability and quoting through the supply chain

### Vision:

- Transforming internal manufacturing processes by creating a dynamic system that fosters collaboration, efficiency, and digital traceability

### Motivation:

- Traditional manufacturing processes often involve manual coordination, limited visibility, and inefficient resource allocation.
- Our solution aims to address these challenges by establishing an internal tool that connects OEMs and workshops, streamlines communication, and automates key tasks.

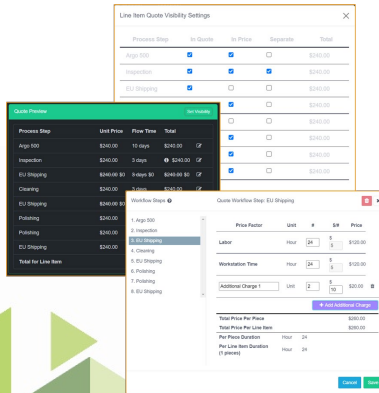
### Expected outcome:

- Seamless creation of production orders with all necessary information, eliminating manual data entry and reducing errors.
- Optimized production schedules based on job priorities, resource availability, and estimated lead times.
- A centralized repository for storing and managing design iterations, ensuring easy access and collaboration.
- Sales tool to provide accurate and competitive quotes, considering factors such as material costs, labor rates, and machine utilization.
- Comprehensive traceability of products and components throughout the supply chain, ensuring transparency and accountability.

### Impacts:

- Increased productivity and reduced lead times.
- Improved cost control across the sales-manufacture business cycle
- Enhanced collaboration with customers and suppliers
- Improved visibility of bottlenecks and opportunities for improvement

**Schedule:** TBD - 18 to 24 months



The screenshots display the SMART Quoting software interface. The top window shows 'Line Item Quote Visibility Settings' with columns for Process Step, In Quote, In Price, Shipping, and Total. Below it, a 'Quote Preview' window shows a table with columns for Process Step, Unit Price, Flow Time, and Total. The bottom window shows 'Quote Workflow Step: EU Shipping' with a table for Price Factor, Unit, and Price, and a summary section for Total Price Per Piece, Total Price Per Line Item, and Per Line Item Duration.

Process Step	In Quote	In Price	Shipping	Total
App 500	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	\$200.00
Inspection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	\$200.00
EU Shipping	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$200.00
Crewing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$200.00
EU Shipping	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$200.00
Printing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$200.00
EU Shipping	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$200.00
Total for Line Item				\$200.00

Process Step	Unit Price	Flow Time	Total
App 500	\$200.00	10 days	\$200.00
Inspection	\$200.00	3 days	\$200.00
EU Shipping	\$200.00	4 days	\$200.00
Crewing	\$200.00	2 days	\$200.00
EU Shipping	\$200.00	4 days	\$200.00
Printing	\$200.00		
EU Shipping	\$200.00		
Total for Line Item			\$200.00

Price Factor	Unit	Price
Labor	Hour	\$100.00
Material	Hour	\$100.00
Manufacture Time	Hour	\$100.00
Additional Charge 1	Unit	\$100.00

Total Price Per Piece: \$200.00  
Total Price Per Line Item: \$200.00  
Per Line Item Duration: 24  
Per Line Item Duration (1 element): 24

### Partner Requirement/Roles:

- Contract Manufacturers / Businesses with complex engineering design sales channels - probably in AM
- Standards Agencies (for process compliance approach)

## CONTACT INFO

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*You partner for*  
**Digitally scaling**  
**manufacturing**  
**Innovations**

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

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advanced manufacturing

