



ecosystem.

INDUSTRY VOICES

AI in Manufacturing: Success Stories & Insights

NOVEMBER 2024



Over the past year, Ecosystem has conducted extensive research, including surveys and in-depth conversations with industry leaders, to uncover the most pressing topics and trends. And unsurprisingly, AI emerged as the dominant theme.

Here are some insights from our research on the Manufacturing industry.





Biggest AI Barriers in Manufacturing



44%

Data fragmentation & accessibility issues



39%

Lack of an organisational AI strategy



39%

Cost of implementation/ solution



Despite the challenges, Manufacturing organisations are witnessing early AI success in these 3 areas:

1.

**Quality Control &
Assurance**

2.

**Supply Chain
Management &
Optimisation**

3.

**Process
Automation &
Efficiency**



Quality Control & Assurance

→ Defect Detection

Identifying defects in products and improving quality

→ Product Inspection

Implementing AI-powered vision systems to inspect products and ensure they meet quality standards

→ Data Analysis

Analysing operational data and customer feedback to identify operations and product issues

“AI is the future of design. It streamlines the design process, leading to faster time-to-market and superior products.”

OPERATIONS LEADER





Supply Chain Management & Optimisation

INVENTORY MANAGEMENT

Optimising inventory levels and reducing costs

SUPPLY CHAIN VISIBILITY

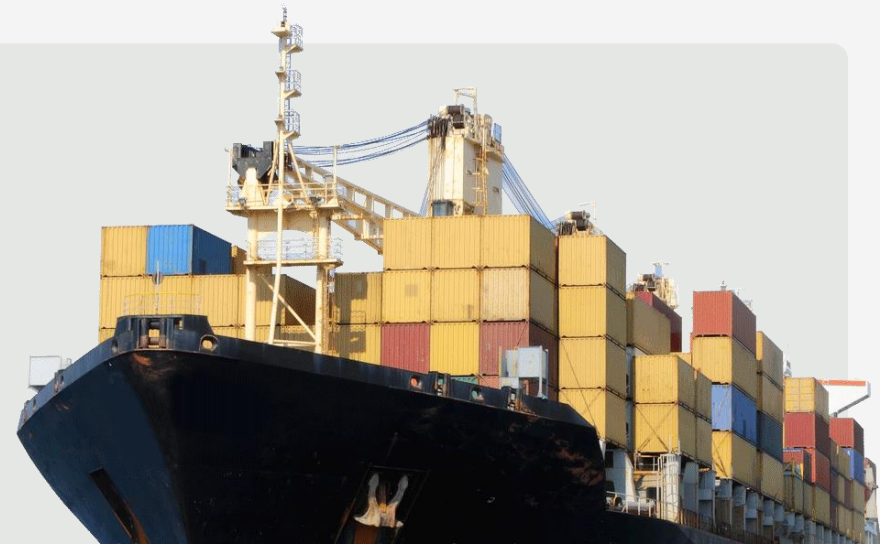
Gaining real-time visibility into supply chain operations

DEMAND FORECASTING

Predicting demand for products to improve production planning and inventory management

“By leveraging AI, we're not just optimising our supply chain; we're pioneering sustainable practices to reduce our carbon footprint.”

CIO





Process Automation and Efficiency

- 01 Process Optimisation**
Identifying areas for improvement and potential operational bottlenecks
- 02 Predictive Maintenance**
Predicting equipment failures and preventing downtime
- 03 Customer Feedback Analysis**
Analysing customer feedback to improve design processes, products, and services

“Our goal is to build intelligent manufacturing plants. By proactively monitoring equipment health, we minimise downtime and maximise productivity – we have set a new internal standard for operational efficiency in the last two years.”

HEAD OF PRODUCTION

For more Ecosystem
Insights, visit

 info@ecosystem.io

 www.ecosystem.io

