

AI Is Revolutionizing Industrial Operations

Supply chain planning, procurement enhancements, manufacturing optimization, and engineering augmentation are emerging AI opportunities.

Leaders know they need AI to win

Across industries,

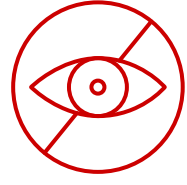
60%

say it's a top-three strategic priority

63%

of industrial companies believe early movers will create a sustainable advantage

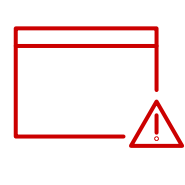
Yet few are prepared to execute



Nearly

60%

lack a clearly defined vision for AI



When it comes to adopting use cases,

44%

lack the resources and expertise



and

32%

say their data isn't ready

Four opportunities are emerging

1 Supply chain

Proactive, predictive planning to be more responsive

USE CASES

- Demand forecasting
- Large order management
- Lead time setting and tracking
- Inventory optimization
- Decision support

EXECUTION READINESS

Proven

VALUE POTENTIAL

Very high

EXAMPLE GAINS

15%–20% productivity boost
15%–20% higher forecast accuracy

2 Procurement

Efficient vendor selection, supplier management, and category strategy

USE CASES

- Standardized request for proposal creation and evaluation
- Negotiation support and execution
- Contract insights and optimization
- Category strategy
- Data lakes and spending classification

EXECUTION READINESS

Proven

VALUE POTENTIAL

Very high

EXAMPLE GAINS

5%–7% sourcing savings
2%–10% more compliance
40% productivity boost

3 Manufacturing

Optimization and capacity improvements to reduce backlogs

USE CASES

- Digital twins
- Quality checks
- Prescriptive maintenance
- Production rate improvements
- Backlog reduction

EXECUTION READINESS

Emerging

VALUE POTENTIAL

Medium

EXAMPLE GAINS

5%–10% yield improvement
10% lower maintenance costs

4 Engineering

Human assistance for faster, higher-quality design

USE CASES

- Design simplification and optimization
- Requirements management
- Quality management
- Documentation development
- Code generation and testing

EXECUTION READINESS

Cutting edge

VALUE POTENTIAL

High

EXAMPLE GAINS

20%–25% cost savings
50%–80% higher productivity

Winners will:

- Prioritize use cases with the highest ROI
- Task a business team to champion one topic and get started
- Commit to capturing value and delivering results