

AI in Manufacturing

The fastest path to performance, efficiency & ROI based on a Tech-Clarity survey of 423 global manufacturers

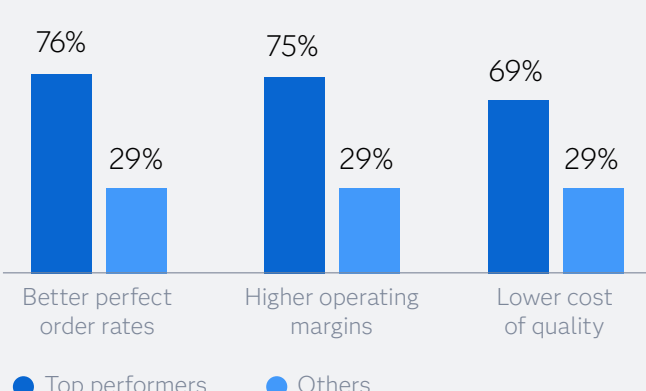
The advantage is clear

MANUFACTURERS USING AI AND ANALYTICS ARE PULLING AHEAD – FAST

99%

of manufacturers are investing in analytics and AI.

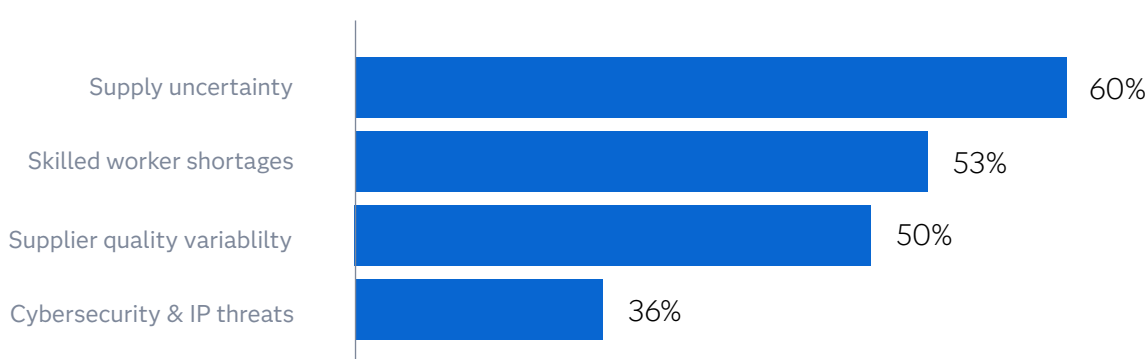
TOP PERFORMERS VS. OTHERS



AI isn't optional – it's the competitive divide.

What's driving AI adoption

MANUFACTURERS FACE INTENSE PRESSURE ACROSS OPERATIONS



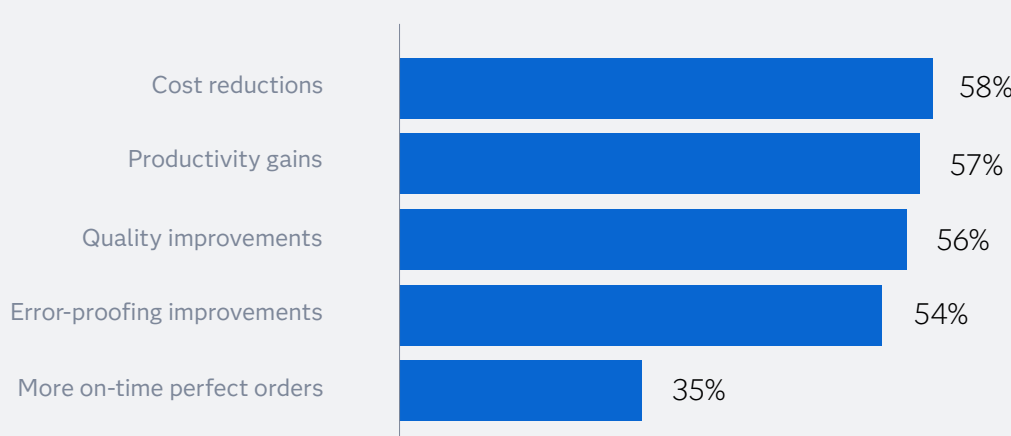
Factories have the data – AI turns it into decisions.

Quick win areas for fast ROI (90-180 days)

START CLOSEST TO THE PRODUCTION LINE WHERE OUTCOMES ARE DIRECT AND MEASURABLE

- ✓ **Quality Analytics:** Spot defects early. Identify ideal batches. Improve consistency.
- ✓ **Asset Performance (Predictive Maintenance):** Reduce unplanned downtime. Prioritize maintenance using real-time health signals.
- ✓ **Throughput & Flow:** Monitor pacing, bottlenecks and schedule adherence.
- ✓ **Energy Optimization:** Track usage per unit. Detect leaks. Flag abnormal patterns.

WHERE ANALYTICS DELIVERS THE BIGGEST IMPACT



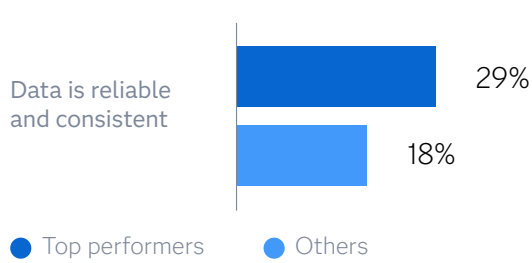
Quick wins build credibility, momentum and funding.

Why top performers win: DataOps + governance

95%

of AI failures stem from bad integration and governance – not bad models.

TOP PERFORMERS' DATAOPS MATURITY

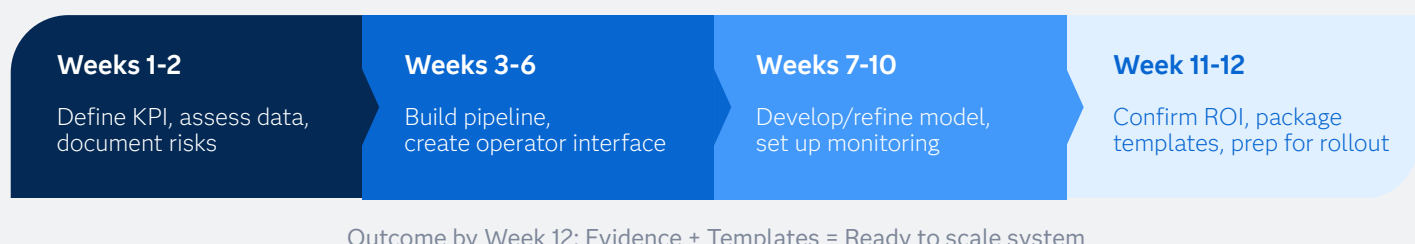


TOP PERFORMERS INVEST IN:

- ✓ **Context models**
- ✓ **Validation gates**
- ✓ **Feature monitoring**
- ✓ **Standardized pipelines**
- ✓ **Governance checkpoints**
- ✓ **Clear ownership & safe rollback**

Good data and governance accelerate scale.

The 12-week path from pilot to proof



How manufacturers can win now

Start small. Scale fast. Build trust.

MANUFACTURERS CAN GET FAST ROI BY STARTING IN:

- ✓ **Quality**
- ✓ **Predictive maintenance**
- ✓ **Throughput optimization**
- ✓ **Energy management**

THEN SCALE USING

- ✓ **Clean data infrastructure**
- ✓ **Clear governance**
- ✓ **Repeatable templates**
- ✓ **One KPI, one cadence, one scale gate**

AI TURNS TODAY'S MANUFACTURING CHALLENGES INTO TOMORROW'S COMPETITIVE ADVANTAGES.

Read the report drawing from Tech-Clarity's global research: [How to Scale AI and Capture Value Fast in Manufacturing](#)