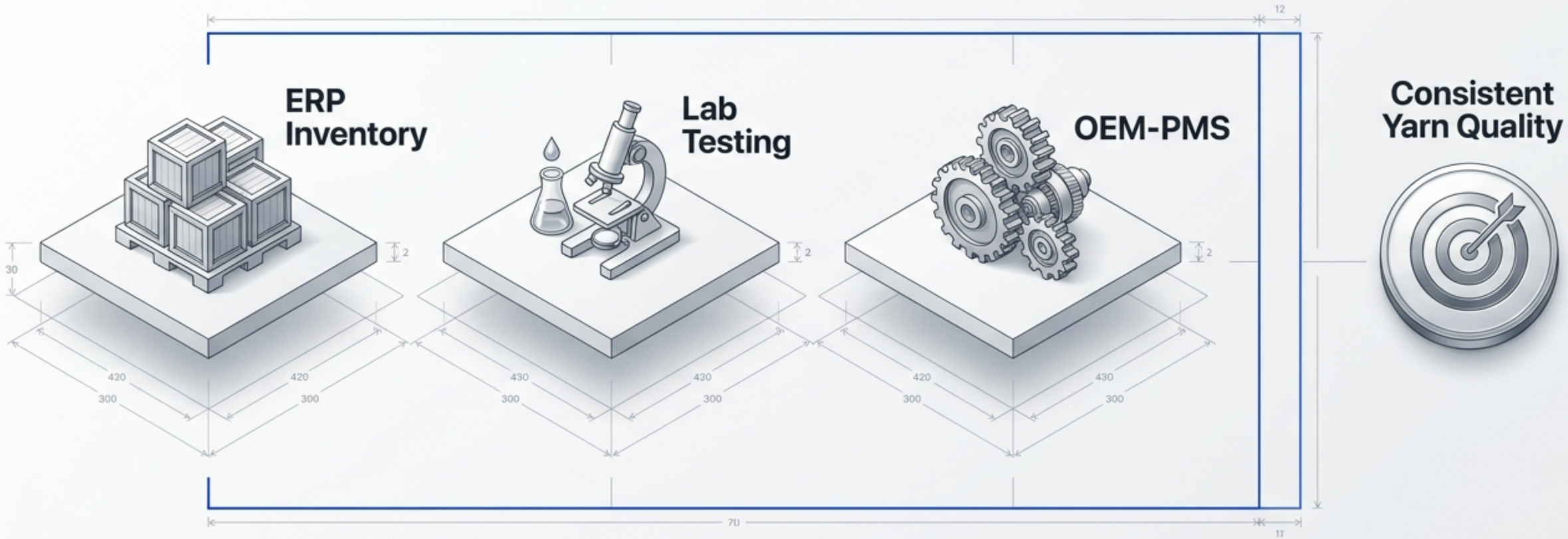
TOPMIX-DIF

Predict-Produce-Prove

Predict • Produce • Prove.
An AI/ML-Powered Decision Intelligence Framework for Spinning Mills.

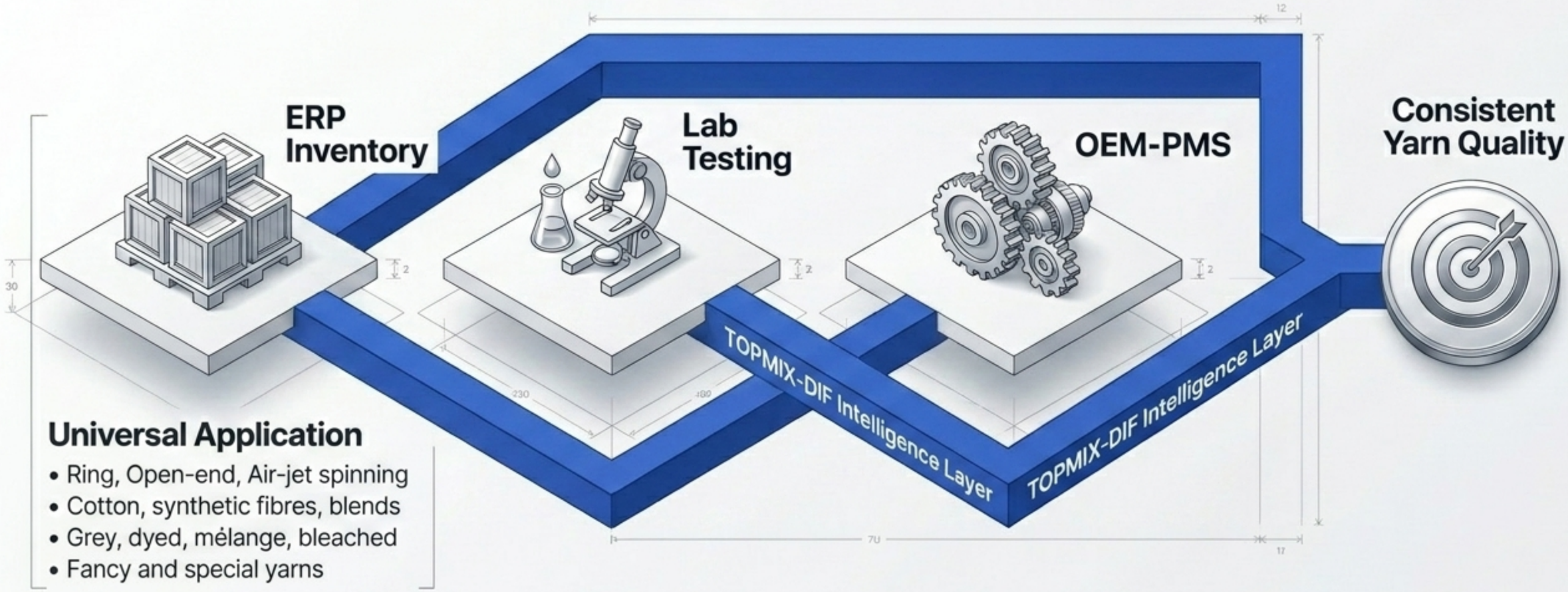
The Data is Rich.
The Silos are Deep.

Modern spinning mills possess immense volumes of testing and production data, yet critical intelligence remains trapped in disconnected systems.



The Intelligence Layer for Spinning Mills

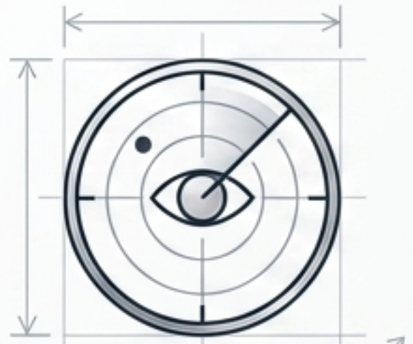
Integrating fragmented databases into a continuous, production-ready decision engine.



Universal Application

- Ring, Open-end, Air-jet spinning
- Cotton, synthetic fibres, blends
- Grey, dyed, mélange, bleached
- Fancy and special yarns

Three Pillars of Consistent Quality



Predict

Anticipate quality risks (U%, IPI, RKM) and optimise mixing strategies using mathematical modelling and multivariate regression before production begins.

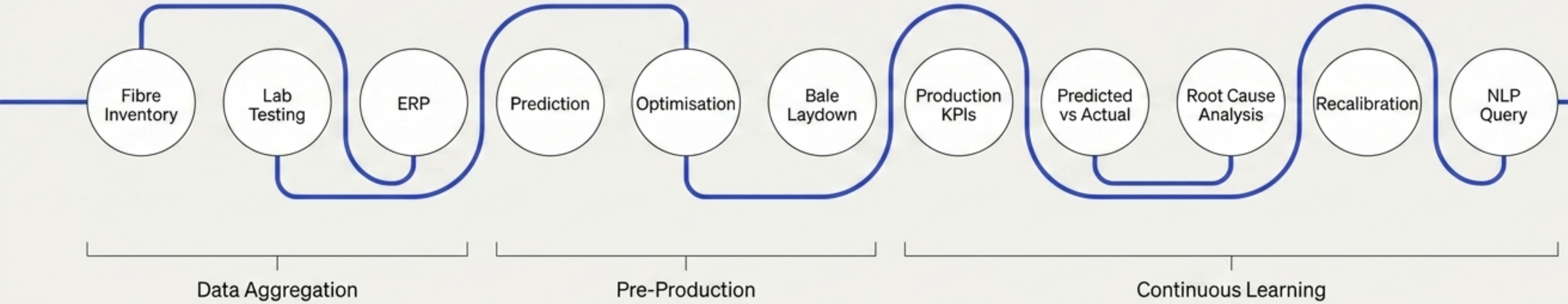
Produce

Execute rule-based bale laydown logic and integrate directly with OEM-PMS to capture real-time production KPI inputs and generate automatic alerts.

Prove

Utilise AI/ML pattern recognition for backward traceability, faster root cause analysis, and continuous algorithmic recalibration.

The Journey from Raw Fibre to Decision Intelligence

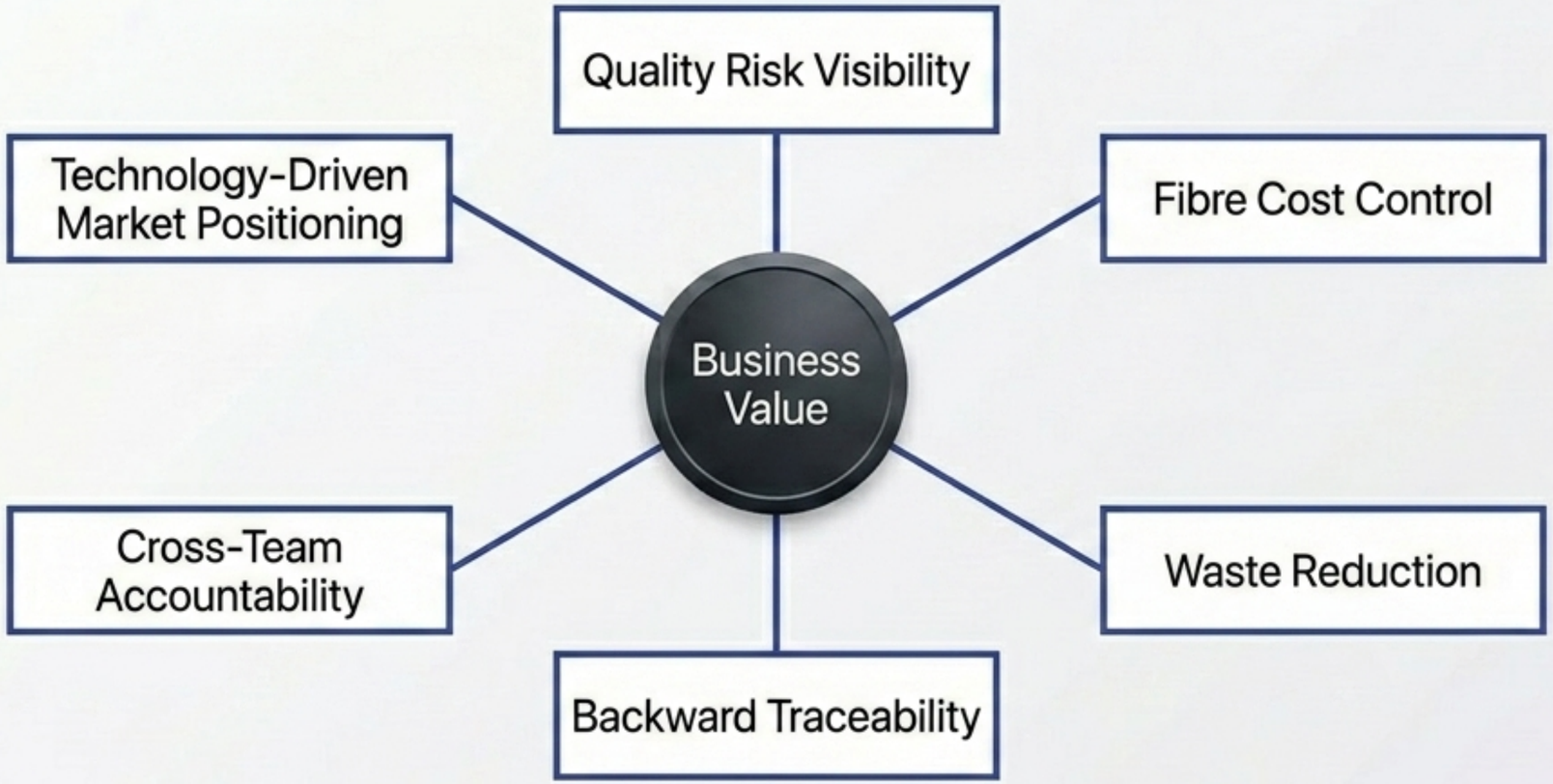


One Platform. Dual Value.

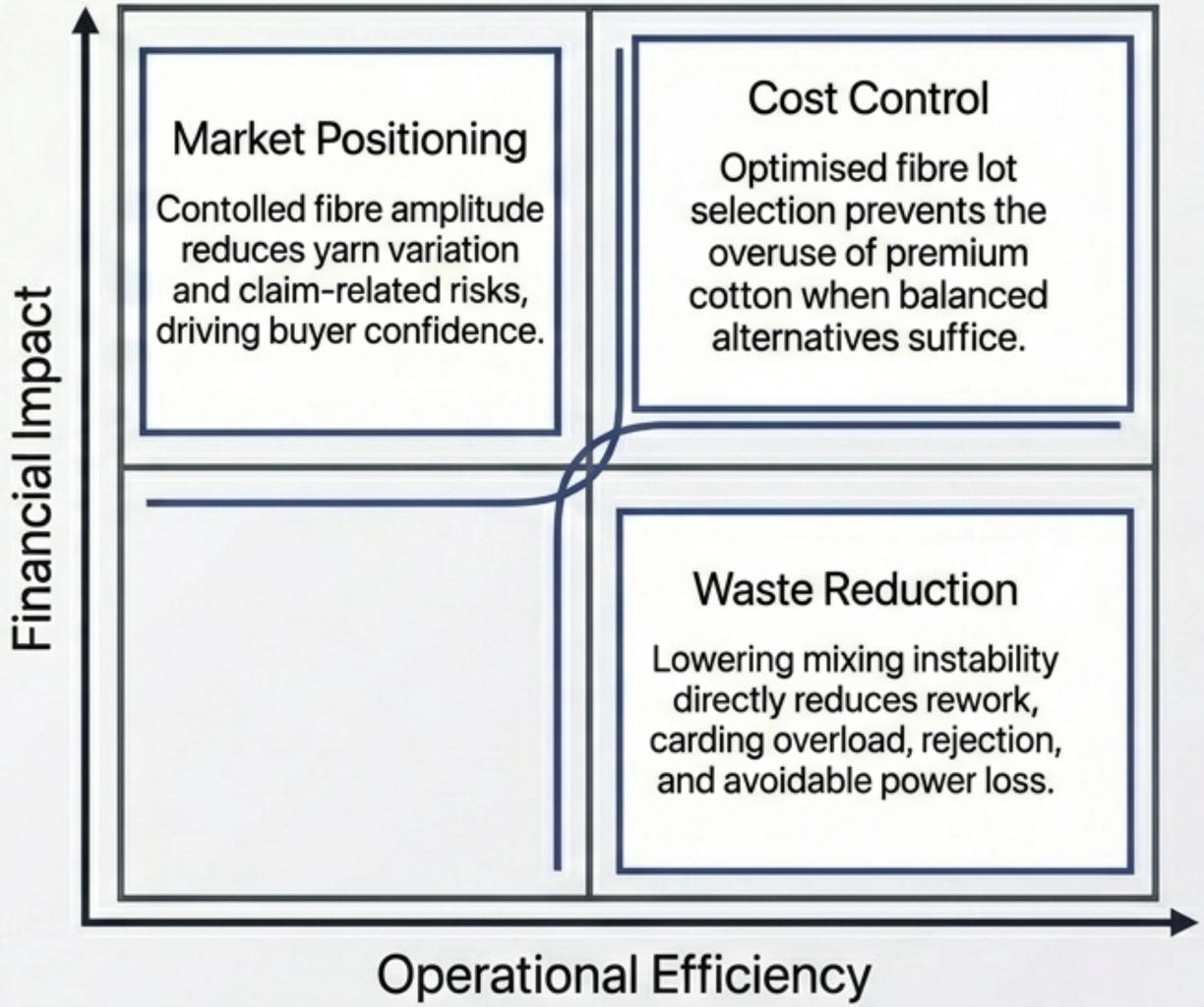
Transforming raw data into measurable results for the boardroom and operational control for the factory floor.

Strategic Vision: Prime Benefits of Onboarding

Convert inventory, testing, and production data into stronger accountability, data-driven consistency, and improved buyer confidence.



Maximising Margins, Minimising Risk



Decisions are recorded, compared, and reviewed through evidence-based data—elevating accountability across purchase, quality, and production teams.

Amplifying Your Current CapEx

Integrating heavy investments into a single decision layer, powered by Natural Language Processing.

[Existing ERP + Testing + OEM-PMS]

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[TOPMIX-DIF Intelligence]

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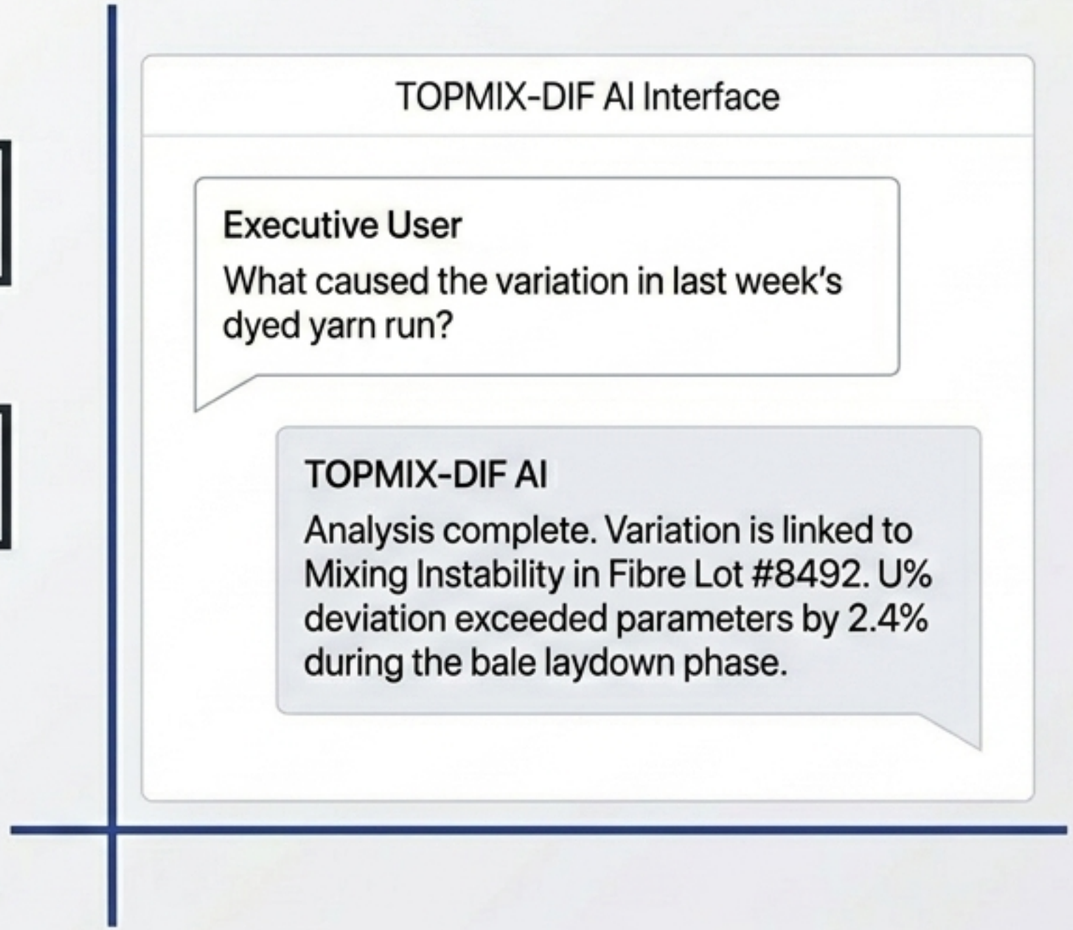
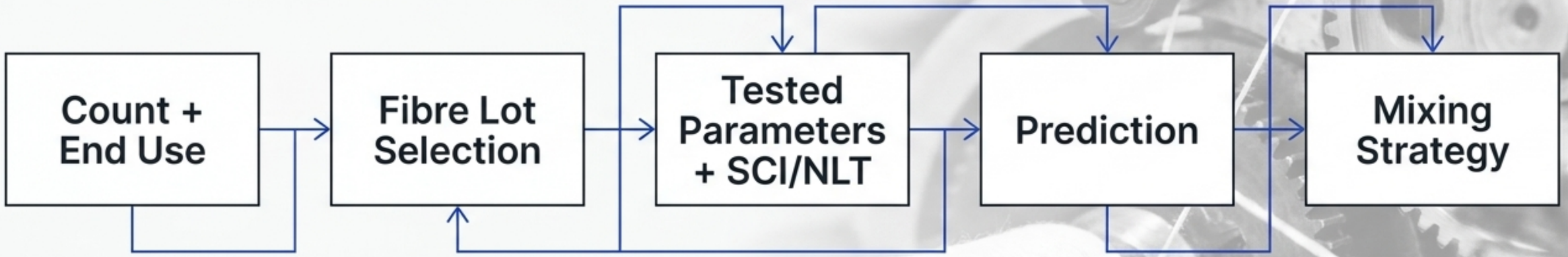
Exponential ROI



Precision Control: Engineering Benefits for Technical Teams

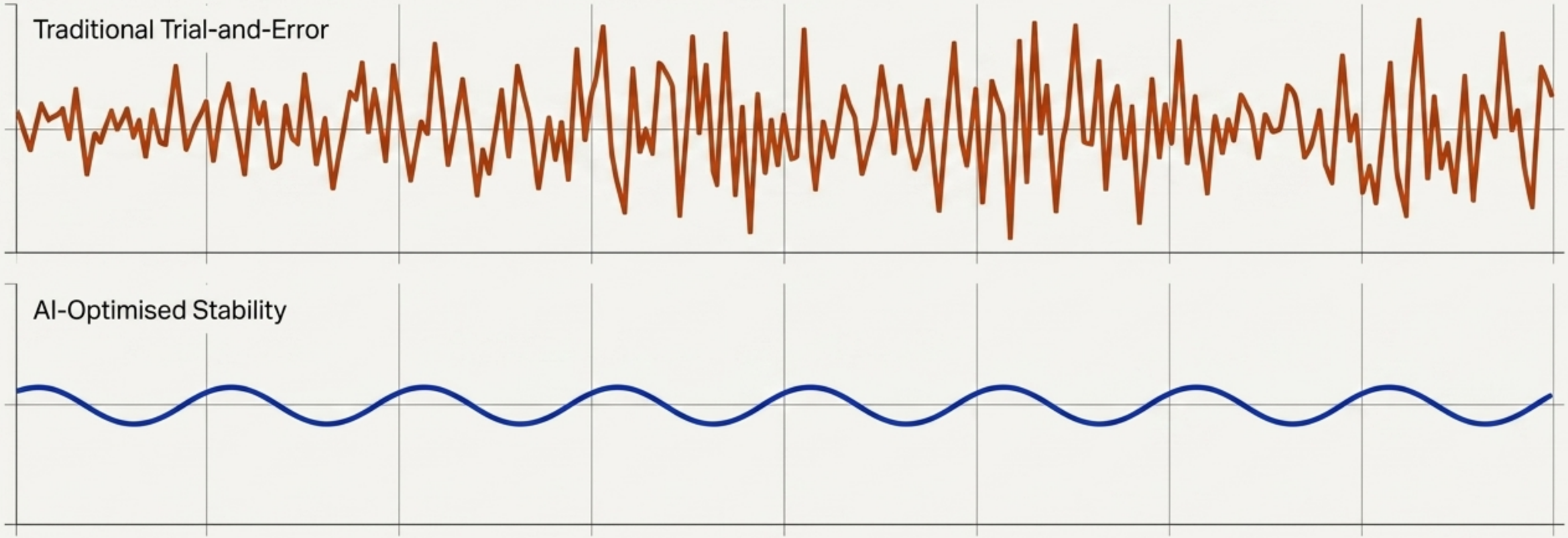
A structured, evidence-based framework for fibre selection, prediction, and continuous process improvement.



Insight: Replace manual trial-and-error with mathematical certainty. Establish a clear, data-driven basis for fibre lot selection before production begins.

Eliminate Drafting Shocks Before They Happen

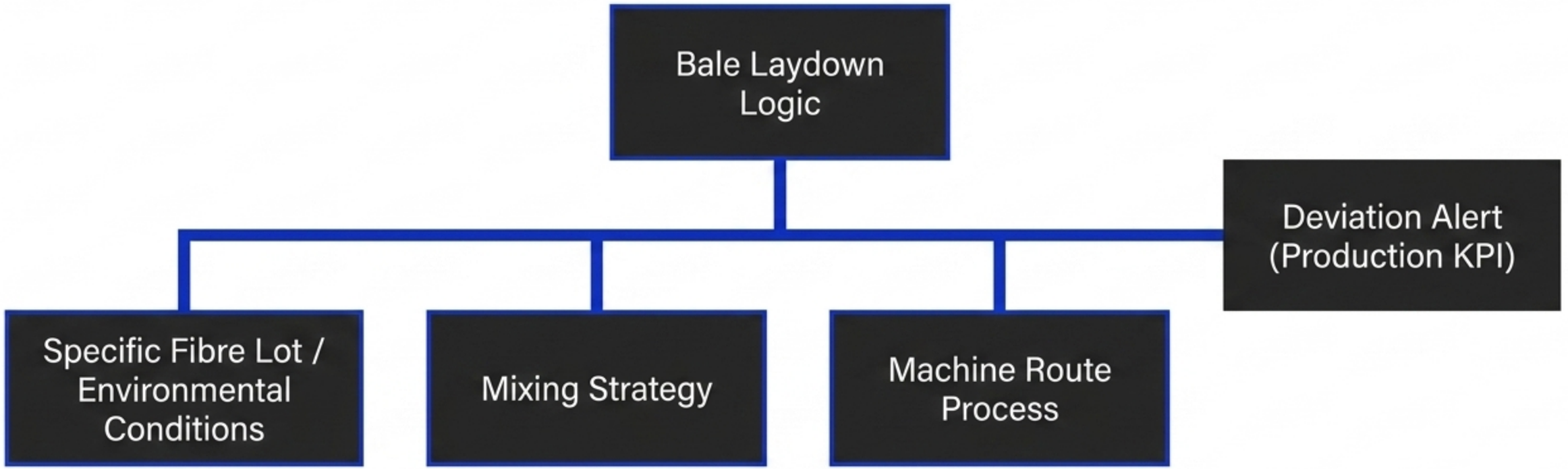
Early visibility into U%, IPI, RKM, and Hairiness risks using mill-specific standards



Maintain strict control over lot variation, reduce drafting-shock risk, and identify possible quality concerns early.

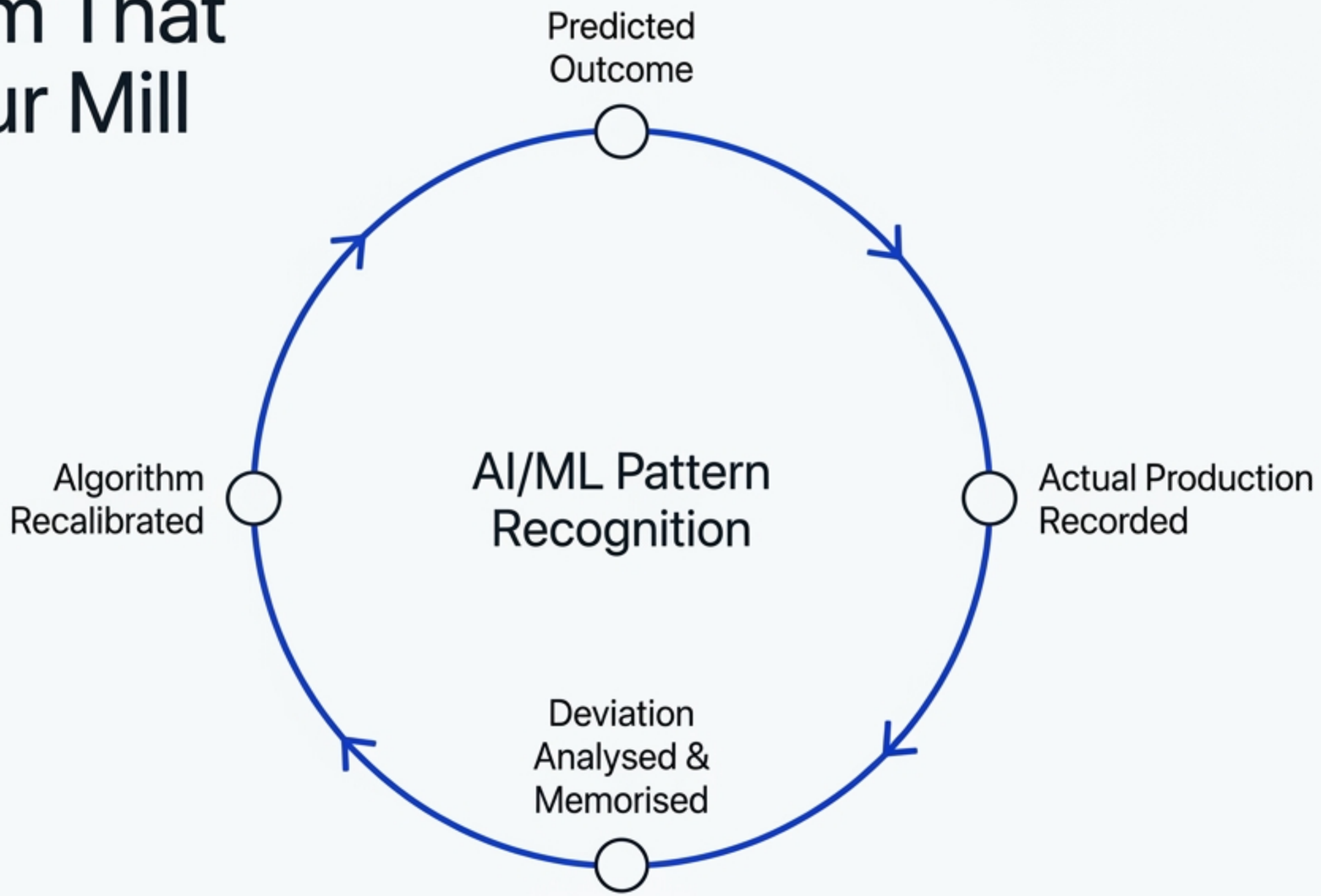
Evidence-Based Root Cause Analysis

Instantly link deviations to their exact source and reduce manual reconciliation.



Reduce manual reconciliation between ERP, lab data, and PMS reports to support stronger technical meetings for rework and waste.

The System That Learns Your Mill



Every decision, process event, and predicted-vs-actual result is memorised. Continuous recalibration ensures that future prediction reliability improves dynamically, providing true mill-specific learning.

Total Organisational Alignment

Bridging the gap between the boardroom's goals and the factory floor's realities.

	Strategic Goals (Executives)	Operational Realities (Technical)
1	Prevent overuse of premium cotton.	Clear, data-backed fibre lot selection basis.
2	Lower market claims and protect positioning.	Early pre-production visibility of U%/IPI risk.
3	Faster complaint responsiveness.	Evidence-based RCA and instant deviation linkage.

Begin Your Intelligence Journey