

From Guesswork to Governance: Scaling Data-Driven Continuous Improvement

OVERVIEW

A leading manufacturer was unable to establish a cohesive, continuous improvement strategy across its network due to foundational issues: fragmented legacy systems, manual paper-based tracking, and inconsistent data from various machine vendors. This created significant enterprise-level blind spots, making it impossible to standardize KPIs, identify the root cause of operational variance, or confidently measure the impact of improvement initiatives. CI efforts were stalled by a lack of reliable, real-time process data.

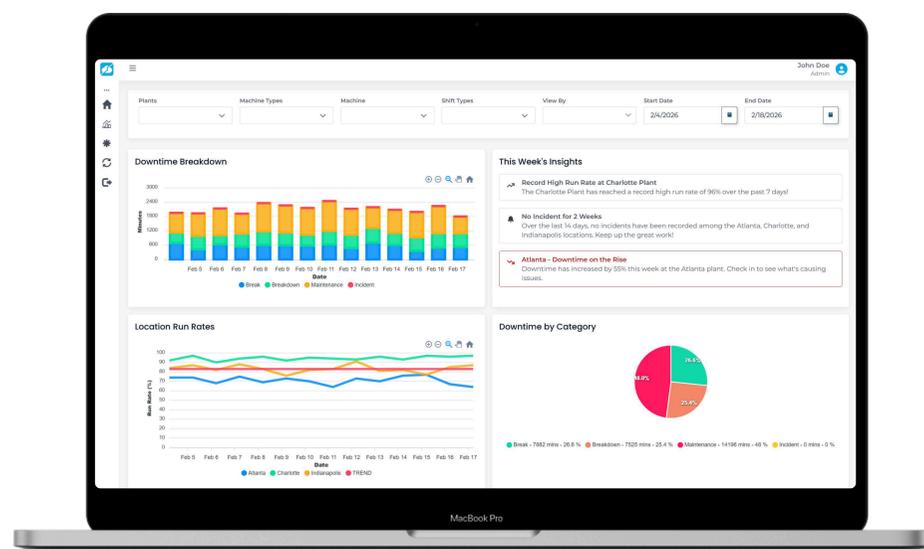
SOLUTION

Kinetech partnered with the manufacturer to deploy a custom, low-code app ecosystem that creates a strategic single source of truth for all production data. By securely aggregating real-time machine telemetry with critical operator contextualizations from the shop floor, the solution provides the necessary data to drive a culture of data-driven continuous improvement. It standardizes disparate data formats from multiple machine vendors, enabling consistent and comparable metrics across all lines, shifts, and plants.

OUTCOMES

The new ecosystem delivered immediate results and established the foundation for world-class continuous improvement execution:

- **Enabling Root Cause Analysis:** Real-time metrics and historical data allow CI teams to move beyond symptoms to identify true sources of variance, such as inconsistent setup times and downtime patterns.
- **Process Standardization:** Identifying performance gaps between lines and shifts enables the rapid replication of best practices across the network, ensuring consistency in output and quality.
- **Quantifiable ROI:** The platform facilitates before-and-after testing of process changes, providing the objective data needed to quantify the throughput gains and ROI of every CI initiative.



- **Optimized Resource Allocation:** Accurate bottleneck identification and asset utilization data ensure that CapEx and optimization efforts are targeted where they will yield the highest returns.
- **Sustained Schedule Attainment:** Historical production data enables accurate predictive modeling for achievable schedules. Operations staff can address deviations hours earlier, replacing reactive firefighting with proactive governance.

