

CUSTOMER CASE STUDY

Asset Contextualization

Templatized asset analytics unify KPIs and calculations, providing consistent insights for operators and managers, leading to better decision-making and improved operational efficiency.

GOALS

- Unify asset performance metrics and calculations across diverse industrial equipment.
- Standardize analytics methodologies to eliminate manual operational discrepancies.
- Rather than spending months on manual mapping, the system automates and accelerates data ingestion.
- Standardizing asset analytics delivers immediate benefits to both field operators and executive managers.

CHALLENGES

- Inconsistent asset performance metrics create confusion among operators and managers.
- Manual analytical processes lead to varying, non-standard methods of asset analysis.
- Address the key constraints noted in the source.
- Reduce manual effort across the current process.

SOLUTIONS

- Deploy BKO's specialized methodology to quickly recreate robust data architectures.
- Implement standardized, templatized asset-specific analytics to prevent KPI variation.
- Unify performance calculations to ensure consistent metrics across all systems.
- Utilize high-speed data migration tools to backfill billions of historical data points rapidly.

RESULTS

- Backfilled 53 billion data points in three days instead of several months.
- Achieved unified performance metrics and single-source conclusions for plant operators.
- Improved overall operational efficiency through enhanced data accuracy and decision-making.
- Scaled standardized templates seamlessly across multiple plants and diverse equipment types.

EXECUTIVE SUMMARY

Templatized asset analytics unify KPIs and calculations, providing consistent insights for operators and managers, leading to better decision-making and improved operational efficiency. BKO's methodology standardizes asset-specific analytics, unifies performance calculations, accelerates data ingestion, and supports high-speed historical backfilling. In one implementation, 53 billion data points were backfilled in three days instead of several months.

Standardizing Asset Analytics

Inconsistent asset performance metrics can create confusion among operators and managers, while manual analytical processes lead to varying methods of asset analysis. The asset-contextualization approach uses standardized, templatized analytics to establish consistent calculations and KPIs across diverse equipment.

Reusable Context and Accelerated Data Ingestion

BKO's methodology quickly recreates robust data architectures, unifies performance calculations, and accelerates ingestion rather than relying on months of manual mapping. High-speed migration tools can also backfill very large historical datasets while preserving a standardized structure.

Operational Impact at Scale

The approach achieved unified performance metrics and single-source conclusions for plant operators, improved operational efficiency through better data accuracy and decision-making, and scaled standardized templates across multiple plants and equipment types. In one deployment, 53 billion historical data points were backfilled in three days.

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