



# ACCELERATE PROCESS MANUFACTURING WITH UNIFIED DATA AND ADVANCED ANALYTICS

**READY TO UNLOCK YOUR POTENTIAL?**

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Process manufacturers face challenges in delivering product quality and production efficiency. Lack of data sharing can interfere with shop floor processes. Machinery going offline despite scheduled service hurts throughput. Supply chain, inventory, market conditions, customer demands, safety regulations, sustainability, and more can influence production. Challenges unique to process manufacturing call for unifying data and asset performance management.

## SOLUTIONS FOR MANUFACTURING

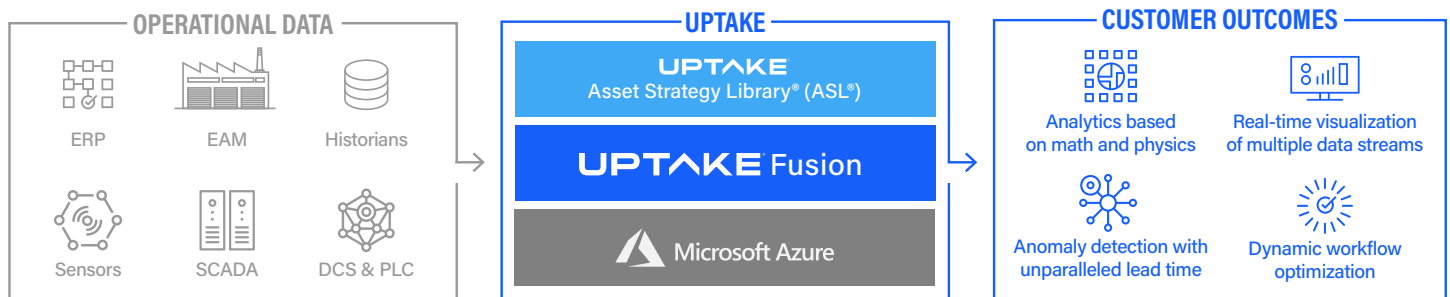
**UPTAKE OWNS 33 PATENTS FOR INDUSTRIAL DATA SCIENCE AND AI. UPTAKE'S ADVANTAGE IN ACCESSING INDUSTRIAL ASSET DATA AND COMBINING IT WITH RELEVANT HISTORICAL DATA ALLOWS US TO CREATE DATA SCIENCE MODELS THAT PRODUCE EARLIER ANOMALY DETECTION WITH GREATER ACCURACY.**

## UNIFY DATA IN A DATA LAKE FOR ADVANCED ANALYTICS

Advanced analytics enable process manufacturers to improve quality and efficiency. It requires having your disparate data unified in a cloud environment, specifically a data lake.

However, there is a roadblock. There is no "single source of truth" for data because data lives in different systems and cuts across departments. It's expensive and a security risk to extract disparate data and transfer it to a cloud environment. Sensors alert but don't always offer the complete picture. Company-wide goals like safety and sustainability are challenging.

Uptake liberates OT data from the strangleholds of proprietary technology and the high cost of tags fees and licensing requirements to provide the foundation for advanced analytics. We move data from its various locations to your Azure cloud. Setup and data migration are simple and secure. Centralized data in a data lake is automatically organized, unified, and contextualized for different stakeholders and use cases.





## PLAY THE PERCENTAGES WITH UPTAKE

Up to

# 15%

in asset reliability

# 10-15%

decrease in maintenance expenses

# 6

months average time to value

Data in your data lake enables you to monitor and guide production in near real-time or use the data to build out your data lake for trends and predictions. Use Azure tools like Time Series Insights, Power BI, or outsource third-party apps. These tools analyze data and produce real-time insights into shop floor operations. As a result, you can improve product quality, address production processes, measure environmental impact, any number of indicators.

## GO BEYOND MAINTENANCE FOR ASSET PERFORMANCE MANAGEMENT

Maintenance plans work great until an asset breaks down unexpectedly. It then becomes reactionary. How quickly can the repair to the machine be made? How will the delay impact shop floor operations? Failures are unpredictable, so maintenance plans fall short. That's why you need asset performance management.

Asset performance management improves asset reliability and delivers lower costs. Uptake's predictive analytics enable you to view and act on risk probabilities using data to support decisions. Review the probability and consequence of failure based on asset data, engineering, AI/ML engines, as well as previous consequences of failure. Data-driven insights enable you to reduce unplanned downtime, optimize asset utilization, and enhance remote operations. Instead of fixing broken assets, you're performing preventative maintenance.

Uptake solutions are backed by deep subject matter expertise and our physics and math-based data science. We generate insights based on data from Uptake's Asset Strategy Library (ASL), the largest proprietary library of asset component failure modes. We also analyze work order history, production management, downtime/delay reporting, machine data (time series, transactional, unstructured, metadata).

Switch to performance and view insights based on the same kind of data analyzed. Gain a clearer understanding of maintenance costs, labor hours, and other key performance indicators. Visualizing insights connect the dots on work order priorities that impact asset reliability.

Asset performance management and unified data management opens doors. You can aim for goals like transforming the workforce, engaging customers in new ways, becoming more agile and resilient in operations, and unlocking innovation.

## BRING IT TOGETHER WITH UPTAKE

For process manufacturers, producing high-quality products efficiently while meeting requirements for safety and sustainability rules the day. With asset performance management, you can deliver insights for predictive maintenance and improve asset reliability. We can also move, store, and curate your OT data in the cloud, making it available for asset monitoring, advanced analytics, and other use cases. So whether it's data access in the cloud or turning data into insights that impact asset performance, Uptake brings it together.

To learn more about Uptake Fusion, contact [fusion@uptake.com](mailto:fusion@uptake.com).

