

IIOT ASSET MONITORING AND PREDICTIVE ANALYTICS

READY TO UNLOCK YOUR POTENTIAL?

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Oil and gas companies upstream, midstream, and downstream face the same challenges. One, reduce costs while maintaining safe production. Two, managing abnormal conditions while minimizing disruptions and overspending. Three, the lack of visibility into operations. Sensors reporting real-time data are designed to address these challenges; however, they create another issue: too much meaningless data ties up analytical resources and clouds results.

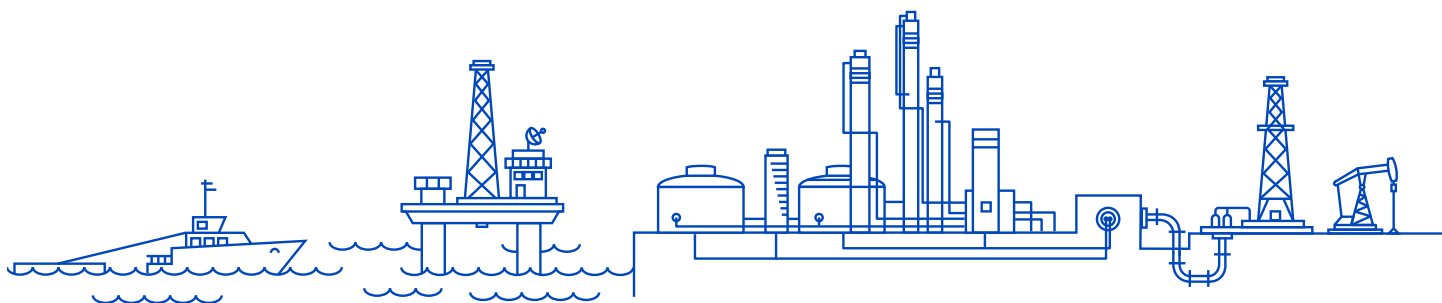
SOLUTIONS FOR OIL & GAS

OT DATA IN MICROSOFT AZURE ENABLES YOUR DATA LAKE FOR ADVANCED ANALYTICS

The answer to oil and gas company challenges is in the machines. Machinery in refineries, heavy equipment relied on for exploration, and oil/gas storage and transport vehicles, all produce OT data invaluable to the organization, especially operations and maintenance. Data analysis leads to insights, timely decision making, and increased visibility for management.

There is just one problem. OT data is stored on-premise typically in data historians. It's expensive and a security risk to extract the data and transfer to a cloud environment. Or, if it's assets in an industrial site, pipelines, or truck/rail service for transport, fault codes pour in without any risk priority. Data overwhelms analysis.

Uptake has a better solution. We liberate OT data from the strangleholds of proprietary technology and the high cost of tags fees and licensing requirements. We move data from industrial sites, facilities, and data centers to your Azure cloud for one set price. Setup and data migration are simple and secure. The entire process takes weeks, not months. Once data is in the cloud, it's automatically organized, unified, and contextualized for different stakeholders and use cases. You're in control of your data at all times.





PLAY THE PERCENTAGES WITH UPTAKE

8%

Average gain in capacity for revenue generation

20%

Up to 20% in reduction in reliability budget

37%

Average reduction in technician working hours

90%

Up to 90% faster for completing RCM studies

12.5%

Up to 12.5% gain in efficiency

80%

Mitigation of catastrophic failures

Data in your Azure cloud is ready for analytics and enables you to monitor assets in real-time, or use the data to build out your data lake. Within the Azure environment, use tools like Time Series Insights, Power BI, or outsource third-party apps.

Or rely on Uptake data science. We own 33 patents for industrial data science and AI. Uptake's advantage in accessing industrial asset data and combining it with historical data allows us to create data science models that produce more accurate results.

TURN DATA INTO INSIGHTS THAT IMPROVE RELIABILITY AND MAINTENANCE

Maintenance has limited resources. Downtime and unexpected repairs cost oil and gas companies in revenue. Predictive maintenance holds the answer to both, but for many, investments haven't paid off in greater reliability and lower maintenance costs.

Uptake has a better option, and it's backed by data science. We analyze asset and work order data to generate insights that empower users to make more intelligent decisions about maintenance, which improves reliability and delivers lower costs. Insights are based on work order history, production management, downtime/delay reporting, machine data (time series, historical, metadata), as well as data from our knowledge base.

Uptake also equips you to view and act on risk probabilities and make data-supported decisions that impact performance. View the probability and consequence of failure based on asset data, including time series, transactional, metadata, CMMS, engineering, AI/ML engines, as well as previous consequences of failure.

Switch the lens 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 reliability.

Whether it's the maintenance technician who repairs assets or the engineering executive responsible for reliability across many oil/gas sites, Uptake helps lower maintenance costs, improve reliability, contribute to safety, and make technicians more productive.

PUT DATA TO WORK ON COST AND VISIBILITY CHALLENGES

Upstream, midstream, downstream, the challenges you face as an oil/gas company are not changing until you change. At Uptake, we'll make sure your data works for you, providing insights that lower costs and bring visibility to operations and management. Based on your needs, we can also move, store, and curate your OT data in the cloud, making it available for real-time asset monitoring, advanced analytics, and other use cases.

To learn more about Uptake, contact learnmore@uptake.com

