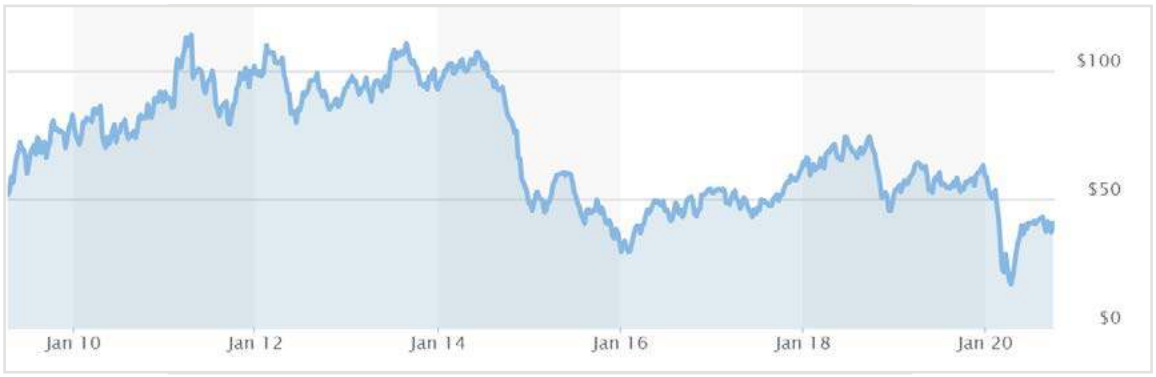
Real-time Data Monitoring in Oil and Gas

Is your business insulated from volatility in commodity prices?



Crude Oil WTI (NYM $/bbl), MarketWatch

Reduce costs by moving to a real-time, data-driven production process.

Increase Efficiency

Optimize the utilization of your workforce at drilling sites by moving from manual, labor-intensive batch data collection to automated, real-time data monitoring.

Reduce Downtime

Move from scheduled maintenance to predictive maintenance based on real-time data analytics.

Integrate Data Silos

Eliminate ETL (extract, transform, and load) process by integrating data across different divisions (upstream, midstream, and downstream).

How? Use **event streaming** and **Apache Kafka®** to connect systems and applications, providing **real-time data visibility** across your operations.

For example: In the U.S., **effective prediction of leakage** incidents could **save** nearly **$30B/year**, which can be used to fund **50 percent** of midstream capex until 2030*.

*IoT Use Case for Gas Pipeline Monitoring by Kevin Gold

Confluent Enables your Event Streaming Success

- **Confluent founders are the original creators of Apache Kafka**
- **Confluent helps enterprises successfully deploy event streaming at scale and accelerate time to market**
- **Confluent Platform extends Apache Kafka to be a secure, enterprise-ready platform**
- **Confluent features, support, and customer success are led by Kafka experts**

Partner of the Year
Google Cloud

Morgan Stanley
CTO INNOVATION
AWARD WINNER

JPMorgan Chase & Co.
Hall of Innovation

Forbes
2020 Cloud100
THE WORLD'S BEST CLOUD COMPANIES

What else can you do with Event Streaming?

UPSTREAM

- ✓ Real-time sensor data analytics
- ✓ Real-time monitoring and alarm system
- ✓ Real-time data sharing from IoT devices with third parties
- ✓ On-demand mobile application for operator assignment Hybrid environment data capture in real-time
- ✓ Ingestion of data in real-time from SCADA (supervisory control and data acquisition) systems
- ✓ Real-time monitoring of safety metrics

MIDSTREAM

- ✓ Real-time health monitoring of pipelines
- ✓ Real-time tracking of trucks, vessels, and railroads

DOWNSTREAM

- ✓ Continuous health monitoring of refinery equipment
- ✓ Update prices in micro-batches at gas stations
- ✓ Enable resource trading with real-time price updates
- ✓ Real-time demand monitoring within the distribution network