Striim Solutions for Manufacturing and Energy

Striim's unified data integration and data streaming platform connects clouds, data, and applications with unprecedented speed and simplicity to deliver the right data at the right time.

As manufacturing and energy companies strive to keep pace with a lack of visibility into upstream supply chains or volatile spikes in customer demand, they also need to address concerns related to data privacy and security, operational efficiency, and risk management. These challenges are further compounded by the sheer volume of data generated by various sources, making it critical for companies to have access to real-time, actionable insights to stay competitive.

Striim is a unified data integration and streaming platform that addresses the industry's pain points, enabling manufacturing and energy companies to increase the productivity and the resilience of supply chains, improve quality control, and manage the risk of third-party suppliers.
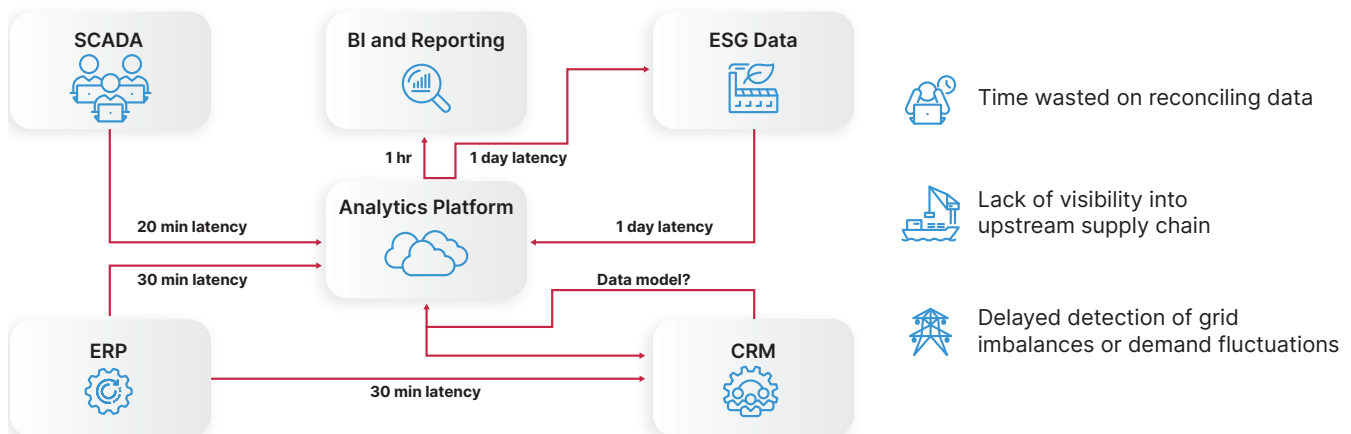
> "*The complexity and sensitivity of global supply chains have never been more apparent. With assistance from partners such as Striim, Blume is able to deliver seamless visibility of global freight movements, helping our clients to keep the world in motion..*"
>
> **Yamini Vellore**
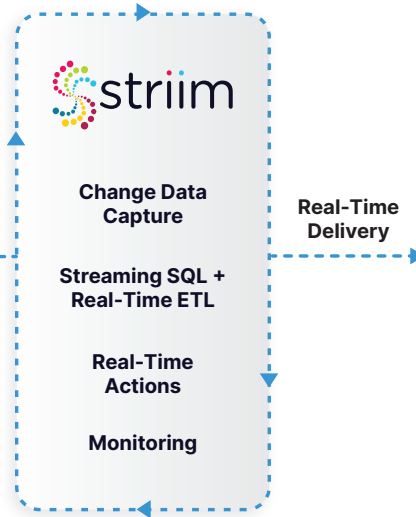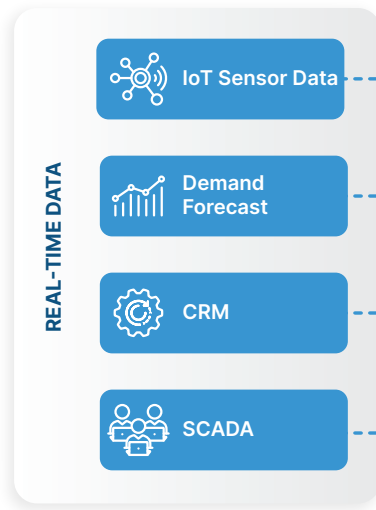> Chief Information Officer & Head of Customer Success, Blume Global

EDF   **GLITRE ENERGI**   **KRAMP**   **nationalgrid**

Siloed Data Negatively Impacts Operations

SCADA

BI and Reporting

ESG Data

1 hr   1 day latency

20 min latency

Analytics Platform

1 day latency

30 min latency

Data model?

ERP

30 min latency

CRM

Time wasted on reconciling data

Lack of visibility into upstream supply chain

Delayed detection of grid imbalances or demand fluctuations

This graphic is for illustrative purposes only. Actual time delays and dependencies may vary.

Innovation With Real-Time Data

Operational Data

REAL-TIME DATA

- IoT Sensor Data
- Demand Forecast
- CRM
- SCADA

striim

Change Data Capture

Streaming SQL + Real-Time ETL
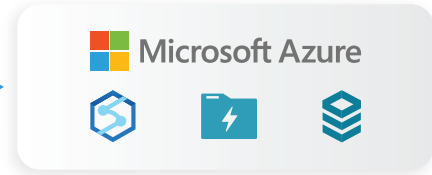
Real-Time Actions

Monitoring

Real-Time Delivery

Data Products

DATA-DRIVEN CUSTOMER EXPERIENCE

- On-time deliveries
- Improvements in product quality
- Increase in customer satisfaction scores

Microsoft Azure

REAL-TIME BACKEND OPERATIONS

- Reduced inventory holding costs
- Improved order fulfillment
- Optimize production costs

How Striim with Microsoft Azure Supports Manufacturing and Energy Use Cases

Manufacturing and Energy companies can use Striim to leverage the benefits of real-time data analysis and to maximize Microsoft Azure technologies to solve a variety of use cases such as:

USE CASE 1: SUPPLY CHAIN OPTIMIZATION

Challenge: Lack of real-time visibility across the supply chain, resulting in inefficient inventory management and delayed deliveries.

Solution: Real-time data integration from suppliers, logistics providers, and internal systems, coupled with advanced analytics, provides end-to-end supply chain visibility. Microsoft Azure helps Improve service resilience and profitability with intelligent supply chain planning and execution.

Business Value: Reduced inventory holding costs, improved order fulfillment, and enhanced customer satisfaction through timely deliveries.

USE CASE 2: QUALITY CONTROL AND DEFECT DETECTION

Challenge: Inconsistent product quality and delays in identifying defects, resulting in rework, customer dissatisfaction, and increased costs.

Solution: Real-time data ingestion from production lines, IoT devices, and quality control systems enables instant detection of anomalies, deviations, and defects. Microsoft Azure uses AI systems that detect defects through image recognition and other parameters on the assembly line, allowing for early-stage intervention, improved quality, and reliability in real-time.

Business Value: Improved product quality, reduced rework and waste, enhanced customer satisfaction, and minimized production costs.

USE CASE 3: DEMAND RESPONSE AND LOAD MANAGEMENT

Challenge: Balancing energy supply and demand during peak periods, reducing strain on the grid, and minimizing costs.

Solution: Real-time integration of smart meter data, weather forecasts, and demand patterns enables accurate demand response and load management strategies. With Azure, build a future of intelligent energy management based on a foundation of highly secure devices and cloud innovation.

Business Value: Reduced peak demand charges, improved grid stability, enhanced customer satisfaction, and optimized energy usage.

Learn more: www.striim.com/microsoft
Try for yourself: go2.striim.com/trial-azure