



Quality control and Optimization

Monitor and analyze manufacturing pro-

cesses in real time to detect anomalies

and ensure consistent product quality.

Implement automated adjustments and

corrective actions to maintain the highest

MACTORES REAL TIME STREAMING

FOR MANUFACTURERS

Introducing Mactores Data Platform Modernization Automation, a comprehensive solution designed to revolutionize

your manufacturing operations by migrating from Telegraf to AWS IoT Core, InfluxDB to AWS TimeStream, and adopting

Amazon Kinesis Flink and Managed Kafka for a real-time streaming solution. Seamlessly extract data from MES systems

and other factory OT data sources to build a serverless data lake on AWS, enabling enhanced performance, scalability,

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quality standards.

Predictive maintenance

analyze sensor data and detect

patterns, enabling you to predict

equipment failures and perform

Minimize downtime and extend

Real-Time Streaming

Harness the power of Amazon Kinesis

Flink and Managed Kafka to implement

a robust, real-time streaming solution

for your manufacturing data. Capture,

process, and analyze streaming data

with minimal latency, enabling da-

ta-driven decisions in real time.

evolve.

quality.

Advance Analytics

Leverage the powerful analytical

to gain deep insights into your

capabilities of Amazon Kinesis Flink

manufacturing data. Apply advanced

analytics, including machine learning

and predictive modeling, to optimize

Manufacturing companies often have multiple

systems that do not communicate with each

other, leading to data silos and inefficiencies.

Integrating these systems can be a significant

IT challenge.

processes and enhance product

maintenance proactively.

the life of your assets with

timely, data-driven

interventions.

Use machine learning algorithms to

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Scalable and Flexible

Easily scale your data lake

platform as your business

the agility and flexibility of

grows and evolves, thanks to

AWS serverless architecture.

Architecture

Serverless Data Lake

Extract data from MES systems and

other factory OT data sources to build

a serverless data lake on AWS. Benefit

drive innovation and make data-driven

High Availability and Reliability

Ensure the consistent performance and

the reliability of AWS infrastructure and

a comprehensive suite of security and

being targeted by cybercriminals, who

seek to steal intellectual property or

disrupt production processes. Ensuring

the security of manufacturing operations

is therefore essential.

availability of your data platform with

managed services, backed by

compliance certifications.

from a highly scalable, cost-effective,

and easily accessible data storage

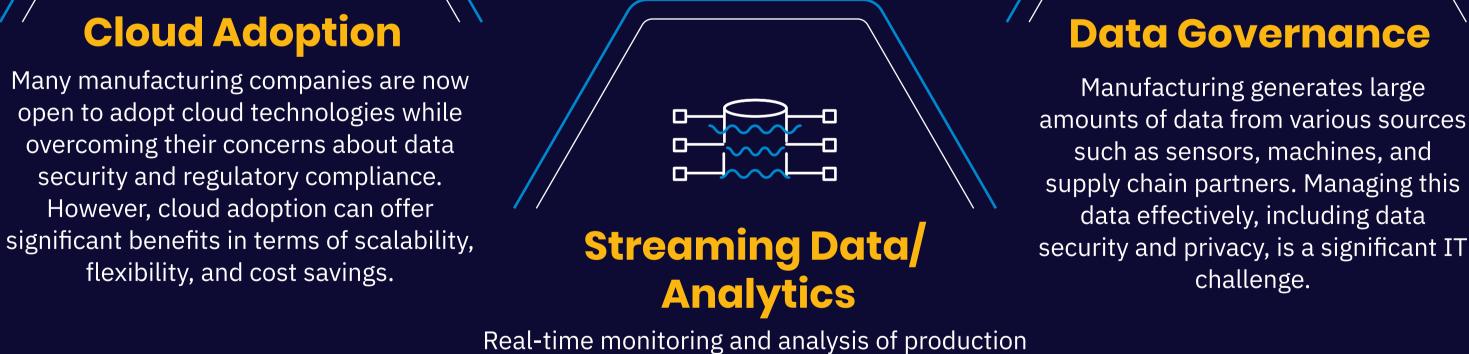
solution, empowering your team to

and innovation. **AWS IoT Core Integration Streamlined Migration** Migrate from Telegraf to AWS IoT Core, a Experience a seamless, end-to-end fully managed service that enables migration from Telegraf to AWS IoT seamless connectivity, communication, Core and InfluxDB to AWS Timeand management of your IoT devices. Stream, ensuring a smooth and secure Improve operational efficiency and gain transition without disruption to your valuable insights from your connected manufacturing operations. devices.



TECHNOLOGY USE CASES Retiring technical debt Many manufacturing companies still rely on legacy systems that are outdated and expensive to maintain. For example: Many manufacturing companies use Oracle databases for their analytical and operational applications. The applications that they have are legacy systems hence they are monolithic and non scalable Integration Security of Systems Manufacturing companies are increasingly





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CASE STUDIES SEAGATE

60%

operation efficiency

improvement in

operational efficiency



and profitability.



75% improvement in design efficiency https://mactores.com

less anomalies

improved throughput

TCO for Factory operations 30% yield improvement with

improved query times

improvement in project execution

security and privacy, is a significant IT challenge. processes, predictive maintenance, early detection of equipment failures, improved quality control, and increased efficiency and productivity. It also enables manufacturers to make data-driven decisions and quickly respond to changing market demands, leading to better customer satisfaction