



Improve Your Operational Efficiency with Unified Operations Insight

Major geopolitical, trade, and pandemic disruptions are pushing manufacturers to reconsider the agility and resilience of their value network. Greater resilience will be driven by tighter integration between operations and sourcing and distribution chains, and improved efficiency and predictability.

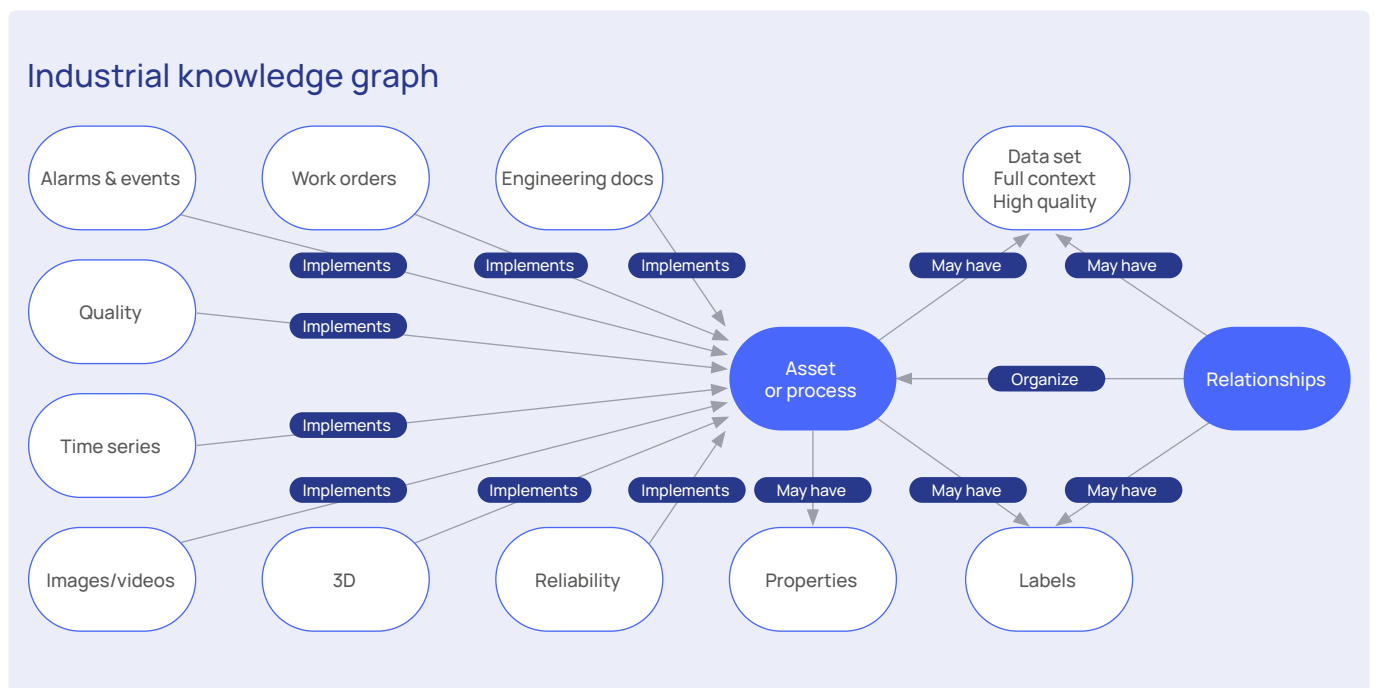
Manufacturers can accelerate their journey to operational excellence with a data foundation that enables cross-functional management and real-time decision-making across assets, plants and production networks.

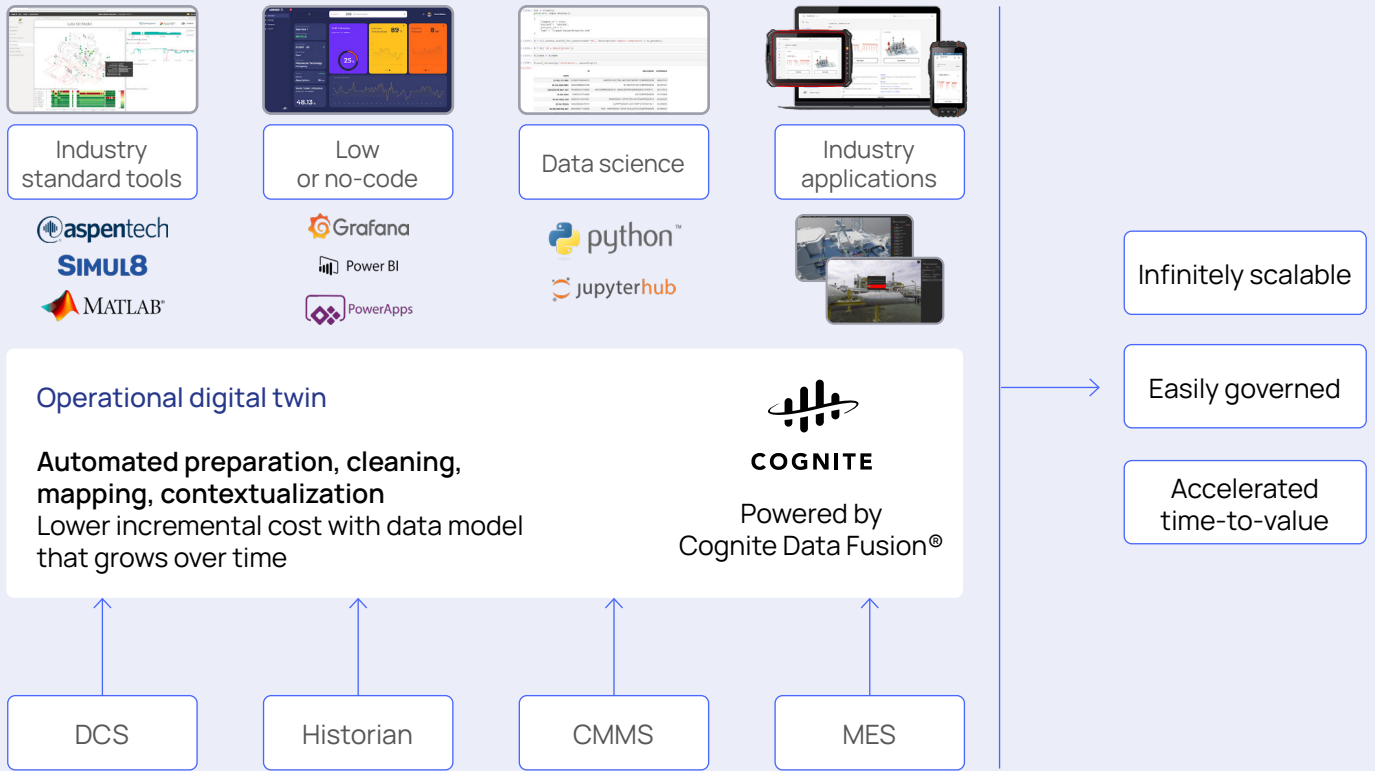
This will require a new approach to data management that focuses on optimization across disciplines and breaking down organizational and data silos.

With Industrial DataOps, manufacturers can use data and AI to create tailored decision-making solutions to tackle operational challenges.

Solve the manufacturing data problem with Cognite Data Fusion®, the leading Industrial DataOps platform

Cognite Data Fusion® makes manufacturing data available, usable, and valuable. It breaks down data silos by connecting IT, OT, and engineering data from your ERP, LIMS, MES, SCM, IoT, and more—to build an industrial knowledge graph, giving you instant access to historical, real-time, and simulated data and scenarios.





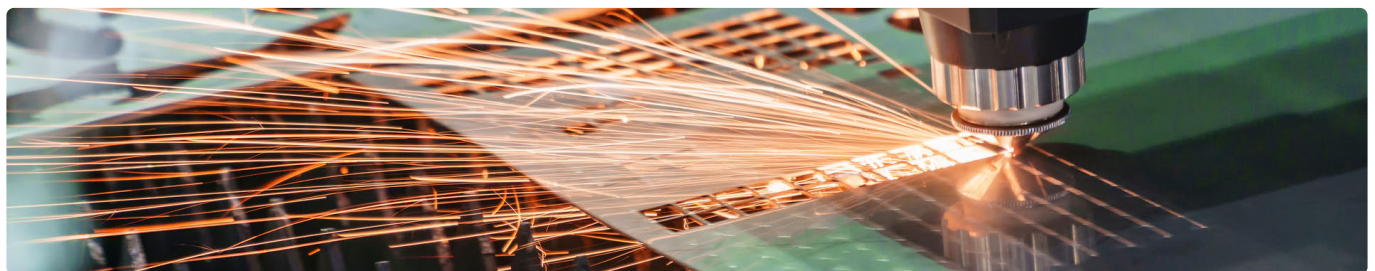
With contextualized data in Cognite Data Fusion®, you can build and scale more real-time and data-driven insights across operations and supply chain.

Cognite Data Fusion® bridges the gap between your existing OT and IT architecture, giving you the building blocks to innovate, empower your experts, and get high-quality products that are designed for sustainability to market faster.

Cognite Data Fusion® key differentiators

- Collect, integrate, access
- Contextualize and understand
- Develop and deploy
- Monitor and govern
- Scale

- Automatic IT/OT/ET data contextualization
- Data governance and lineage
- Data security and compliance
- 3D and unstructured data
- Open framework and toolboxes
- Hybrid AI
- Real-time data access
- Performance and scale



[WHY COGNITE DATA FUSION® →](#)

[BENEFITS FOR YOUR TEAMS →](#)

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Prevent disruptions with scalable Unified Operations Insight

Cognite Data Fusion® gives you real-time, cross-plant operational visibility with the first knowledge graph built for industry at scale. With instant access to data searchable in domain languages, more users can understand previously siloed data and start extracting value. One way is with Cognite's application building blocks, with which you can build tailored solutions to support business decisions and scale those solutions across fleets of assets and plants,

reducing the time to value and driving continuous improvement.

Cognite's Solutions Portal provides a single, persona-based point of access to all applications powered by Cognite Data Fusion, from Power BI dashboards and Cognite applications to third-party Grafana solutions, and everything in between. Unified Operations Insight help manufacturers address:



Cost

Reduce costs through remote and real-time monitoring, and preventive and predictive insights.



Sustainability

Understand, control, and improve your use of energy, materials, and water to reduce emissions.



Resilience

Optimize production daily to account for variations in raw material and operating conditions.



Throughput and capacity
Increase your rate of production and eliminate bottlenecks and unplanned stops.

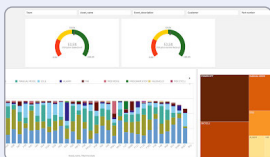


Quality

Reduce waste and identify root causes of operational issues.

Production Performance Monitoring

Increase asset utilization

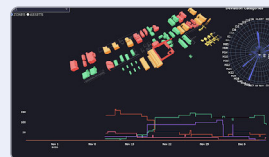


Understand current utilization to identify ways to **increase OEE** and identify underperforming assets

Data sources:

- Equipment data (MTConnect)
- ERP work orders
- Tooling database

Product quality monitoring



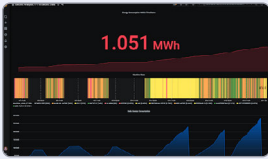
Reduce time to deliver corrective actions by **10-20%** and a **5% reduction** in product deviations

Data sources:

- Quality system deviation database
- ERP work orders

Energy and Emissions Monitoring

Reduced energy consumption



Site visibility to energy consumption to **identify highest energy consumers** and make process adjustments

Data sources:

- MQTT Energy Monitoring
- ERP work orders

Emission monitoring



Identify, assess and track sustainability outcomes

Data sources:

- Process Data (DCS)
- Sensor data (Historian)

Maintenance and Reliability Program Monitoring

Heat exchanger performance



Hybrid AI to forecast when fouling occurs and its impact to production

Data sources:

- Simulated Data (Simulator)
- Sensor data (Historian)
- OEM documentation

Predict equipment failures



Proactive notifications for **early intervention** of impending problems

Data sources:

- Process Data (DCS)
- ERP work orders
- Equipment Operating Curves
- OEM documentation