SOLUTION SHEET

IIoT Analytics

Simplify Industrial IoT Software Solutions Delivery

IIoT analytics are toolkits bundled with IoT Project Services that simplify industrial IoT software solutions delivery with packaged digital twin and machine learning (ML) services with deployable ML models. Use them with the Lumada Industrial DataOps portfolio to expedite the process of deploying operations monitoring and predictive analytics to better operate assets and optimize maintenance activities.
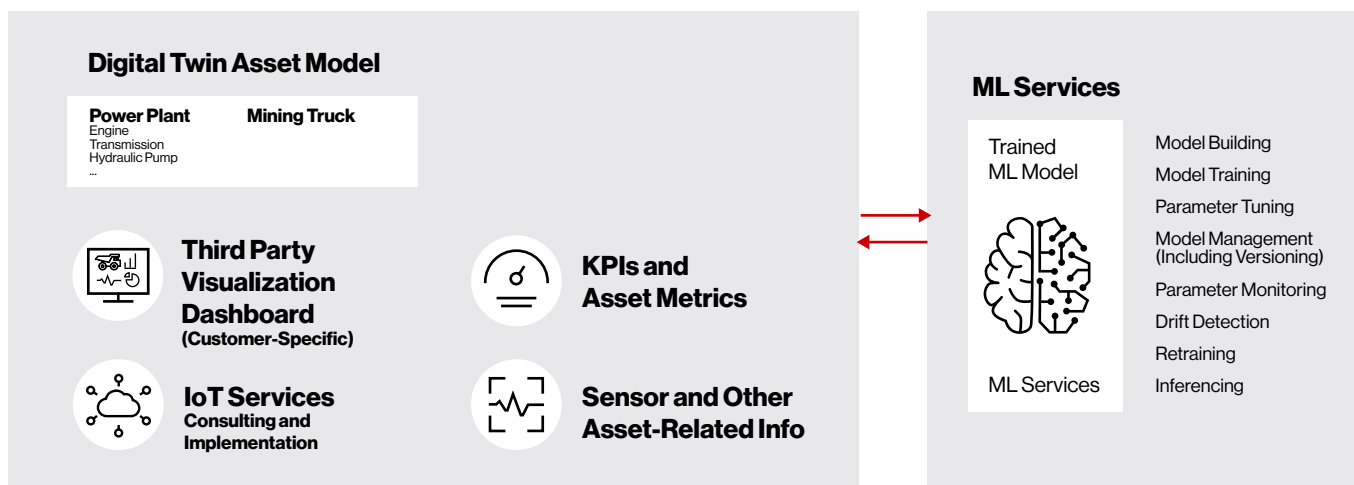
Extend Into Vertical Industry Solutions From Hitachi

Built on the capabilities of Lumada software for IIoT, the Lumada Industrial DataOps portfolio is the underlying data services layer, including IIoT analytics, that can support Lumada vertical industry solutions for energy and utilities, manufacturing, transportation, or smart cities. Clients can choose between packaged vertical solutions from Hitachi or a develop-your-own-approach with a framework, or anything in between.

Pain Points That You May Be Experiencing

- Pressure from your operations team to accelerate IOT solutions delivery.

- Lack of experience in implementing predictive and prescriptive analytics.

- Challenges in scaling applications across the enterprise beyond proofs of concept (POCs).

IIoT Analytics Solutions and Services

Digital Twin Asset Model

Power Plant   **Mining Truck**
Engine
Transmission
Hydraulic Pump
…

Third Party Visualization Dashboard (Customer-Specific)

IoT Services Consulting and Implementation

KPIs and Asset Metrics

Sensor and Other Asset-Related Info

ML Services

Trained ML Model

ML Services

Model Building

Model Training

Parameter Tuning

Model Management (Including Versioning)

Parameter Monitoring

Drift Detection

Retraining

Inferencing

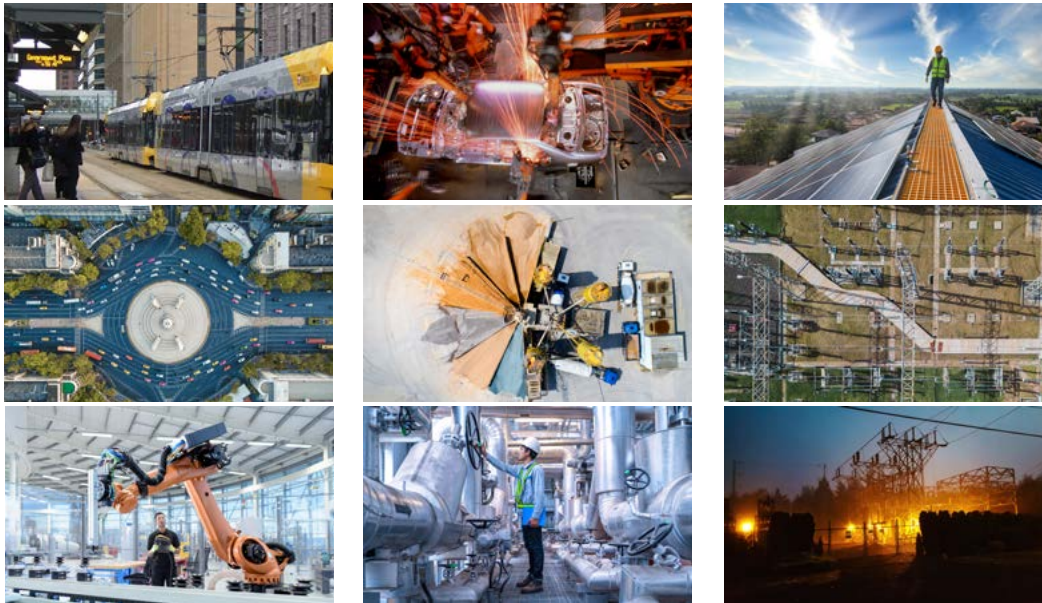## Conquering the Industrial IoT Scalability Barrier

Machine learning is complex to deploy and maintain, resulting in long implementation times and the inability to scale from pilots to enterprise-wide digital solutions. Hitachi's IIot analytics include digital twins and ML services, and when coupled with IoT Core and Data Integration software, help accelerate your time to value for analytic application delivery, breaking down data silos, and integrating operational technology (OT) and business data for greater insights.

Accelerate delivery effort for AI or ML applications to solve business problems and provide an industrial IoT platform environment for co-innovation with your team.

Extensive Industrial IoT Capabilities

Hitachi provides our IIoT Core, Data Integration, and Analytics software, built on Pentaho technology and working with IIoT analytics to lessen the burden of data integration, configuration, and management. This solution facilitates a quality data stream for use in analytics and enables other enterprise applications, data hubs and data lakes. It allows you to monitor and update the system software, add assets, remotely monitor IoT Gateways, configure, and manage data routes, and set up alerts. APIs also provide integration with external applications.

Contact your Hitachi Vantara representative to learn how the capabilities of Lumada Industrial DataOps can extend your data management and analytics into industrial operations.

WE ARE HITACHI VANTARA

Hitachi Vantara solves digital challenges by guiding you from what's now to what's next.
Our unmatched industrial and digital capabilities benefit both business and society.

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Need Help? →

Contact us today for a demo.