How to gain visibility across multiple manufacturing systems

Manufacturing enterprises use various IT and Internet-of-Things (IoT) systems across their plants, making it cumbersome to monitor, avoid unplanned downtime, or get real-time information about key performance indicators (KPIs).

Real-time operational visibility from shop floor to top floor

HCL’s Real-time Manufacturing Insights (RMI) on Microsoft Azure provides real-time operational visibility for plant management, including increased visibility into asset health and advanced predictive analytics.

Increasing productivity, reducing costs, and cutting downtime losses

Predictive analytics and higher synchronization between planned and actual cycles helped an HCL customer save 30% on unplanned downtime losses, increase asset productivity by approximately 15%, and reduce maintenance costs by 30%.

HCL Technologies RMI Case Study

HCL Technologies cuts unplanned downtime losses and increases productivity with Real-time Manufacturing Insights on Microsoft Azure

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A global technology company helping enterprises reimagine their business for the digital age

HCL Technologies serves leading enterprises, including 250 of the Fortune 500 and 650 of the Global 2000, across key industries: financial services, life sciences and healthcare, consumer services, manufacturing, and public services. With a worldwide network of R&D centers, innovation labs, and delivery centers working in 49 countries, HCL products, services, and engineering are built on four decades of innovation.

“The HCL-Microsoft partnership has been crucial in accelerating innovation for our customers. We have been creating modern, intuitive enterprises with an industry-leading transformation roadmap for over 30 years and counting,” said Sukamal Banerjee, Corporate Vice President, and Head, IoT WoRKS, HCL Technologies.

The partnership is based on a robust 360-degree relationship anchored along three core pillars of Azure IoT solution development and asset creation, joint GTM and customer engagement, and the IoT COLLAB center at Microsoft’s Redmond, Washington campus. In all engagements and solutions, HCL brings deep expertise from its Microsoft Gold-level competencies in Azure cloud platform and data analytics, its extensive use of various Azure services, and its Azure IoT Certified Consultants.

Using Microsoft Azure IoT services and real-time information, HCL helps manufacturers lower costs and improve production

Manufacturing enterprises with multiple plants using various IT and IoT systems need a single view that can be used by multiple plant roles to get real-time information about relevant KPIs. Additionally, business critical machines on shop floors need continuous monitoring to avoid unplanned downtime and major outages.

HCL implemented its Real-time Manufacturing Insights solution on Microsoft Azure IoT Edge and Azure IoT Hub, providing operational visibility for plant management. The solution increased visibility into the productivity and health of assets, utilized Azure analytics services to build, train, and deploy predictive and prescriptive analytics models, and reduced unplanned downtime. With RMI, customers get real-time alerts that enable corrections to reduce further fluctuations in quality and output.

“Microsoft’s powerful cloud and business technologies power HCL’s specialized services, enabling and supporting our customers’ growth and helping them respond and adapt rapidly to these challenging times,” Sukamal Bannerjee said.

Improved fault prediction, coupled with advanced analytics, helped the customer achieve a 30-percent savings on unplanned downtime losses. Higher synchronization between planned and actual cycles lead to a 15-percent increase in asset productivity. Predictive instead of preventive maintenance and the creation of real-time actionable insights into manufacturing reduced maintenance costs by approximately 30 percent.

“Microsoft’s powerful cloud and business technologies power HCL’s specialized services, enabling and supporting our customers’ growth with various offerings. Real-time Manufacturing Insights (RMI) solution, for instance, helps respond and adapt rapidly to these challenging times.”

- Sukamal Banerjee, Corporate Vice President, and Head, IoT WoRKS, HCL Technologies