

Real-time Manufacturing Insights (RMI) solution

Enabling Real-time Operational Visibility
from Shop-floor to Top-floor





About IoT WoRKS™

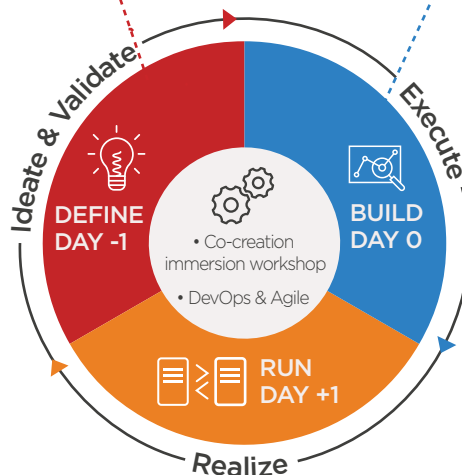
IoT WoRKS™ by HCL Technologies is a dedicated Internet of Things (IoT) business unit that enables organizations to experience IoT functioning and co-create transformation roadmap for innovations in context to their business. By enabling IoT-led transformation, these solutions maximize topline growth, capital productivity, cost efficiency, operational effectiveness, customer satisfaction, and return on asset investment.

Solving imminent challenges in the industry, our approach starts with connected **THINGS** and resulting in **DATA**-driven business insights, but does not end there. We are applying the insights generated seamlessly into changing meaningful business **PROCESSES** and **PEOPLE PRACTISES** generating real business outcomes. The beauty is in our agile, scalable, rapid-prototyping approach which drives the urgency of transformation to **NOW: from months to a few weeks.**

We have developed end-to-end IoT offerings for organizations across different IoT maturity levels

Plan your IoT program customized to your needs

- Identify business case (RoI) and business pain points that IoT can solve
- Industry insights and benchmark
- IoT roadmap in line with desired business outcomes
- POV plan/Technology roadmap
- User-centric business process transformation project plan



Implement your IoT program with secure ecosystem-based solutions

- IoTization - Device, gateway, connectivity, and security
- IoT Platform - Data storage, device management, data science, and workbench
- IoT applications and analytics
- Integration of IoT applications with rest of the IT landscape

Realize value from your IoT program with state-of-the-art IT/OT support services and analytics expertise

- Provisioning, measuring & monitoring
- Orchestrate IT/OT
- Platform Hosting and Micro-services
- High Performance Analytics and Insight-as-a-Service
- Uptime Assurance - 24x7 support











Real-time Operational visibility from shop-floor to top-floor

The Real-time Manufacturing Insights (RMI) solution addresses the key operational challenges of manufacturing enterprises - limited visibility into production downtime root causes, quality and people issues, and ineffective utilization of planned downtime, and monitors the critical parameters such as OEE and energy consumption in real-time. The solution optimizes the capacity utilization, even with the reduced workforce and disrupted raw material supply and provides insights and recommendations about near-future performance of business-critical assets. RMI integrates with existing enterprise systems for seamless data ingestion and leverages predictive maintenance & prescriptive analytics across plants in different geographies, driving real-time visibility to provide crucial decision support at several levels of the management.










Built on HCL's mature IoT ecosystem, RMI leverages leading IoT platforms and HPE's Edgeline capabilities to enable remote deployment in the most challenging manufacturing environments and with cost-effective scalability across geographies with almost zero physical team deployment. This offering provides "As-Designed" integration and downstream "After-Market Services" capabilities seamlessly from the same platform and enables enterprise-customized "factory-model" deployment for enterprises.

Features

-  **Real-time monitoring** of plant efficiency with user defined KPIs
-  **Role Based Visualization** for CxO, Plant Manager, and Line Operator with drill-down
-  **Predictive maintenance** to pre-empt machine breakdown and line availability issues
-  **Cost analysis of OEE losses** - availability loss, performance loss and quality loss
-  **Real-time alerts** to the preconfigured users via email or mobile
-  **Connectivity support** with system integration of IT/OT systems



Benefits





- | | |
|--|---|
| <div style="border: 2px solid yellow; border-radius: 15px; padding: 10px; margin-bottom: 10px;">  <p>Up to 30% savings on unplanned downtime losses</p> </div> <div style="border: 2px solid yellow; border-radius: 15px; padding: 10px; margin-bottom: 10px;">  <p>Up to 30% reduction in maintenance cost</p> </div> <div style="border: 2px solid yellow; border-radius: 15px; padding: 10px;">  <p>Up to 15% increase in asset productivity</p> </div> | <ul style="list-style-type: none">  Reduce unplanned downtime by improved fault prediction and planning of remedial actions  Reduce scrap loss by real-time alert in output quality drop  Increased visibility into asset health throughout processes  Real-time visibility of finished goods inventory to reduce inventory carrying costs  Predictive and Preventive Maintenance to reduced machine maintenance costs  Real-time actionable insights to achieve higher productivity and better-quality goods |
|--|---|



WHEN YOU START WITH A TOP-RATED VALUE PROPOSITION, THE RATINGS FOLLOW

 <p>LEADER IDC Marketscape, IoT Consulting and Systems Integration Services, 2020 IDC</p>	 <p>LEADER Zinnov Zones for Connected Assets & Connected Logistics, 2019 Zinnov</p>	 <p>LEADER ISG Provider Lens™ for IoT managed services, USA 2019 ISG</p>
 <p>LEADER ISG Provider Lens™ for IoT consulting and services, USA 2019 ISG</p>	 <p>LEADER ISG Provider Lens™ for IoT in Manufacturing, USA 2019 ISG</p>	 <p>LEADER ISG Provider Lens™, ISG Research Quadrant for Overall IoT Services, Usa Market 2018 ISG</p>
 <p>LEADER The Forrester Wave™, Global IoT Services For Connected Business Operations, Q4 2018 Forrester</p>	 <p>Winner Circle HfS Blueprint Guide: Industry 4.0 Services, 2017 HfS</p>	 <p>LEADER IoT Services Peak Matrix™ assessment, 2017 Everest Group</p>

OUR IPs AND ACCELERATORS

 <p>DDX Accelerator for device IoT-ization</p>	 <p>PANGAEA Data Analytics platform</p>
 <p>IDEA GATEWAY Reference Design for an intelligent device</p>	 <p>PLATFORM ACCELERATION SUITE Build next generation cloud services</p>

