

# Real-time manufacturing insights

Enabling real-time operational  
visibility from shop floor to top floor



## Digital advancement through IoT?

Visibility into production downtime root causes?



Real time Visibility in manufacturing process?

## Is your brand facing these issues

Effective planned downtime utilization

Monitoring critical parameters like OEE?

CPG companies are on a lookout to adopt next-gen technologies in order to stay relevant and competitive in the global business landscape, making industrial IoT solutions the hour's need.

72% of CPG companies surveyed said they are dramatically increasing their level of digitization and expect to be able to be ranked as digitally advanced by 2020, compared with just 33% today. Inevitably, data from the shop floor, enabled by IoT in manufacturing, can offer unparalleled insights.

Source : PWC

## Business Challenges

The key operational challenges of consumer goods manufacturers



Limited visibility into production downtime root causes



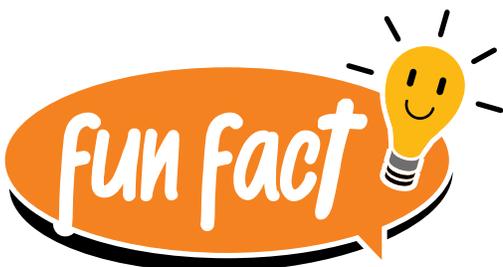
Quality and people issues faced by the manufacturing enterprises



Ineffective utilization of planned downtime



Monitoring the critical parameters such as OEE and energy consumption in real time



With 22,000 million IoT-connected devices existing worldwide today, and 440.8 million attributed to industrial IoT alone, Real-time Manufacturing Insights (RMI) solution, with predictive/preventive maintenance and prescriptive analytics, appears to be inexorable.

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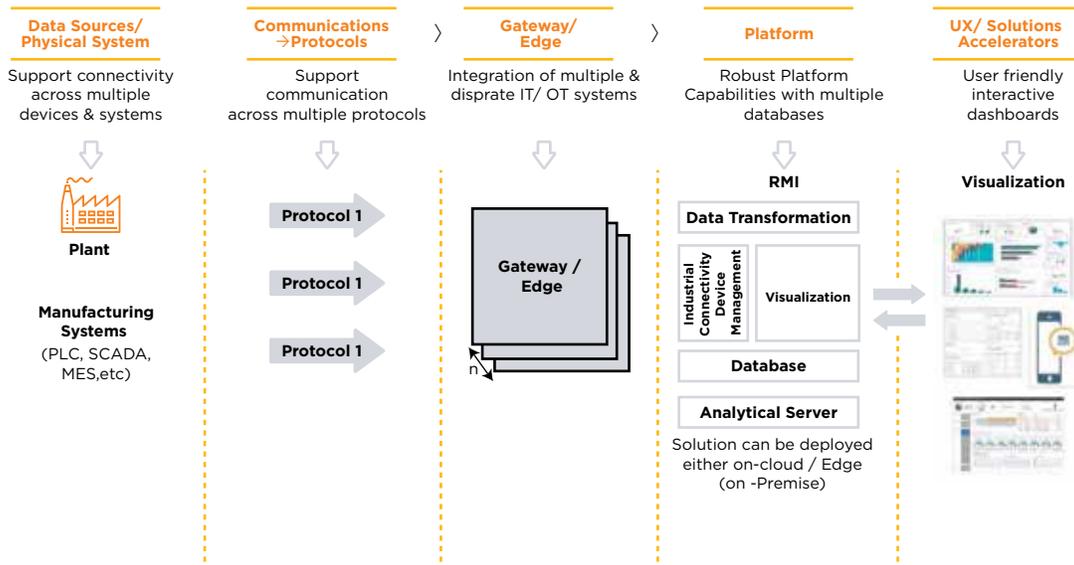
## Our Solution

**The Real-time Manufacturing Insights** solution integrates with existing enterprise systems for seamless data ingestion and leverages predictive maintenance and prescriptive analytics across plants in different geographies. It drives 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 to provide 'as designed' integration and downstream 'after-market services' capabilities seamlessly from the same platform. It enables enterprise-customized 'factory model' deployment for CPG companies.

## Solution Architecture

Leveraging IoT to Unlock Benefits and Opportunities



# RMI FEATURES

Next-Gen Insights and Technologies Designed to Enable Smart Operations

Real-time monitoring of plant efficiency with user defined KPIs



Cost analysis of OEE losses - availability loss, performance loss and quality loss

Role-based visualization for CxO, plant manager, and line operator with drill down



Real-time alerts to the preconfigured users via email or mobile

Predictive/preventive maintenance to pre-empt machine breakdown and line availability issues



Connectivity support with system integration of IT/OT systems

## RMI BENEFITS

Co-creating the smarter shop-floor and top-floor, powered by IoT



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 to asset health throughout processes



Real-time visibility of finished goods inventory to reduce inventory carrying costs



Predictive and preventive maintenance to reduce machine maintenance costs



Real-time actionable insights to achieve higher productivity and better-quality goods



Up to 30 % savings on unplanned downtime losses



Up to 30 % reduction in maintenance cost

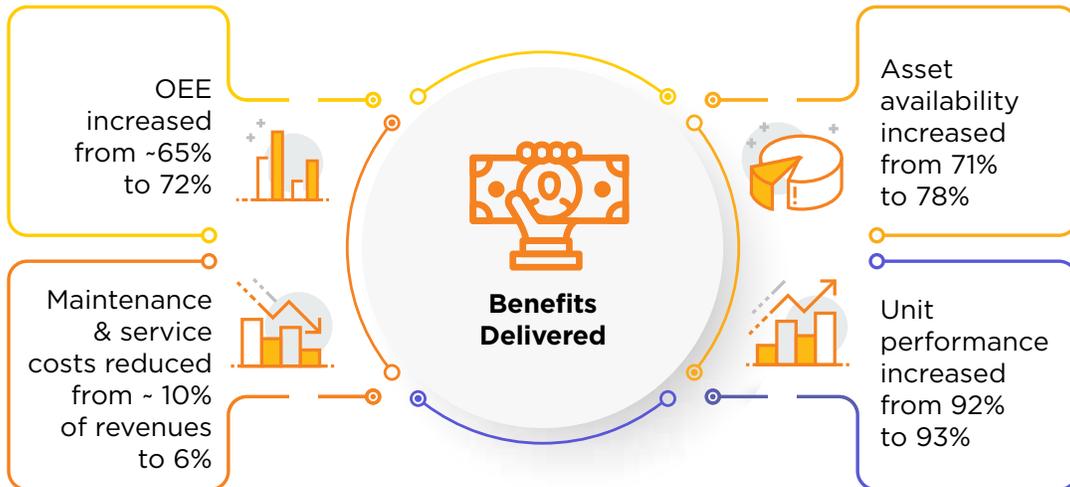


Up to 15 % increase in asset productivity

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# Case Study 1

RMI solution for a global manufacturing company



# Case Study 2

RMI solution for a multinational manufacturing company to lower costs and improve production



30% savings achieved on unplanned downtime losses



Higher synchronization achieved between planned and actual cycles leading to a 15% increase in asset productivity



Operationalized predictive instead of preventive maintenance and the access to real-time actionable insights into manufacturing processes reduced maintenance costs by approximately 30%.

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

<p><b>LEADER</b> IDC Marketscape, IoT Consulting and Systems Integration Services, 2020</p> <p><b>IDC</b></p>	<p><b>LEADER</b> Zinnov Zones for Connected Assets &amp; Connected Logistics, 2019</p> <p><b>Zinnov</b></p>	<p><b>LEADER</b> ISG Provider Lens™ for IoT managed services, USA 2019</p> <p><b>ISG</b></p>
<p><b>LEADER</b> ISG Provider Lens™ for IoT consulting and services, USA 2019</p> <p><b>ISG</b></p>	<p><b>LEADER</b> ISG Provider Lens™ for IoT in Manufacturing, USA 2019</p> <p><b>ISG</b></p>	<p><b>LEADER</b> ISG Provider Lenstm, ISG Research Quadrant for Overall IoT Services, USA Market 2018</p> <p><b>ISG</b></p>
<p><b>LEADER</b> The Forrester Wave™, Global IoT Services For Connected Business Operations, Q4 2018</p> <p><b>Forrester</b></p>	<p><b>WINNER CIRCLE</b> HfS Blueprint Guide: Industry4.0 Services, 2017</p> <p><b>HfS</b></p>	<p><b>LEADER</b> IoT Services Peak Matrix™ assessment, 2017</p> <p><b>Everest Group</b></p>

**OUR IPs AND ACCELERATORS**

 <p><b>DDX</b> Accelerator for device IoT-ization</p>	 <p><b>PANGEA</b> Data Analytics platform</p>	 <p><b>IDEA GATEWAY</b> Reference Design for an intelligent device</p>	 <p><b>PLATFORM ACCELERATION SUITE</b> Build next generation cloud services</p>
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For more information write to us at [rcpg.solutions@hcl.com](mailto:rcpg.solutions@hcl.com)

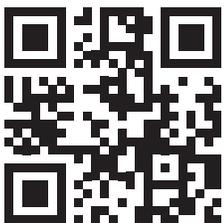
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