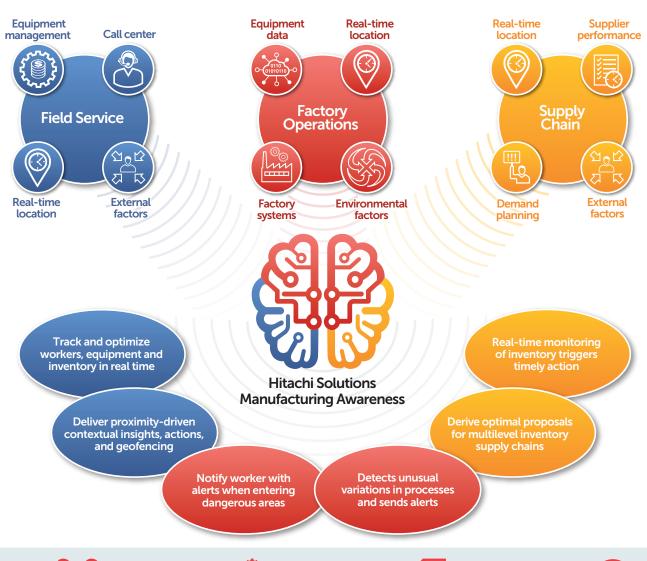
Proactively and predictively monitor and optimize field services, shop floor, and supply chain operations

Hitachi Solutions Manufacturing Awareness

Manufacturing Awareness connects disparate systems with workers and uses real-time proximity and analytics to deliver increased visibility

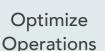


Gain End-to-End Insights With Manufacturing Awareness











Secure Your Workforce



Provide Real-Time Visibility

Challenges

Lack of real-time awareness and the inability to optimize the workforce and the complex mix of moveable assets and systems



Reduce inefficiencies across operations that result from disparate systems.



Reduce delays caused by unknown status and location of inventory, equipment, and people.



Improve decision-making through real-time awareness of workforce, inventory, and process status.



Gain visibility into worker behavior to improve safety.

Solutions

Hitachi Solutions Manufacturing Awareness: Enable timely decision-making and automated supervisory interventions via an end-to-end connected and continuous monitoring



Connects disparate systems and uses real-time proximity to identify and resolve issues before failures occur, improving operational efficiency.



Provides real-time visualizations, including location and context of workforce and equipment.



Uses AI and machine learning to predict and improve performance.



Provides real-time workforce tracking including geolocated incident reporting.

Business Outcomes

Manufacturing Awareness drives operational efficiency, insights, and interventions that reduce downtime and optimize operations.

Transforms maintenance optimization from repairand-replace to predict-and-fix.

Detects abnormal movements against protocol, preventing defects or accidents and increasing productivity.

Improves product quality and automates safety via real-time, location-based contextual alerts.

Increases efficiency and system uptime and improves customer service with route optimization and proactive, location-aware alerts.

Improves process efficiency and field technician utilization via location-based, Al-assisted guidance and knowledge transfer.

Get the Whole Picture with Manufacturing Awareness

Learn More

Manufacturing Industry Solutions > Request a Demo >









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Orchestrate more efficient, safer operations across the end-to-end manufacturing spectrum

Hitachi Solutions Manufacturing Awareness

Manufacturing Awareness delivers operational and safety insights to boost productivity via real-time supervisory control with automated alerts and interventions



Challenges

With siloed systems spread across field service, shop floor and supply chain activities, manufacturers need a real-time connected solution that delivers capabilities that collect and analyze data to optimize their assets and workforce.

- → Lack of communication between locations impedes the supply chain.
- → Missing connectivity makes it difficult to track products that are in transit.
- → Lack of real-time status of worker and equipment location on the shop floor impedes timely decisions.
- → Inefficiencies result without visibility into the location of field service personnel and their availability at any given time.



56% of enterprises use IoT data to improve safety.¹

Solutions

Identify significant gains in operational efficiencies across supply chain, shop floor, and field service using real-time awareness, advanced analytics and machine learning. Enable timely decision-making through continuous monitoring of machines, people and processes.

- → Awareness Engine unifies field services, shop floor and supply chain operations to break down data silos and accelerate growth.
- → Track workers as they deliver, load, work or reload products/parts to identify anomalies such as deviations in worker activities or line equipment that may result in failures.
- → Real-time operational and predictive analytics including advanced machine learning.
- → Executive Al-driven dashboard offers views into what is happening across manufacturing operations and identifies actionable areas of focus.



Manufacturing dominates growth of IoT network connections with **84%** growth.²

 2 Verizon, "State of the Market: Internet of Things 2017: Making Way for the Enterprise," 2017.

Features

The Manufacturing Awareness solution includes:

- → Contextual location-based tasks assignment in real time.
- → Historical and real-time geolocated incident reporting.
- → Real-time workforce and moveable asset location tracking.
- → Workforce safety and tracking alerts for any unidentified person in a restricted area.
- → Infrastructure-free solution for accurate indoor positioning with low setup costs.
- → A customized digital, interactive multi-step employee engagement experience.



71% of decision-makers believe data/analytics are central to their decision-making.³

Companies expect a total of **12% efficiency gains** over five years thanks to Industrial IoT technology.⁴

Business Outcomes

Manufacturing Awareness delivers financial, operational, and cultural benefits for manufacturers:

- → Improved profitability: Sustain business growth with improved net revenue, reduced operational expenses, and expanded customer base.
- → Enhanced operations: Streamline processes, leverage the benefits of fully connected data and management systems in real time to improve delivery performance and quality, and improve labor effectiveness.
- → Workforce retention: Enable insights to boost employee satisfaction and develop process champions by promoting consistent behaviors, best practices, training, and continuous improvement.



A connected workforce increases output by 8-9% while reducing costs by 7-8%.⁵

⁵ Michael Hobbs, "The Connected Industrial Worker: Achieving the Industrial Vision for the Internet of Things," The Telegraph, January 23, 2017.

³ Forrester Research, "Expectations vs. Experience: The Good, the Bad, the Opportunity," June 2016.

⁴PricewaterhouseCoopers, "Digital Factories 2020: Shaping the Future of Manufacturing," April 2017.