



Enabling Smart Factory Optimization with AWS IoT



With the advent of connected machines and cloud technologies, manufacturers can now utilize data to gain an in-depth understanding of their products, processes, and customers at an entirely new level.

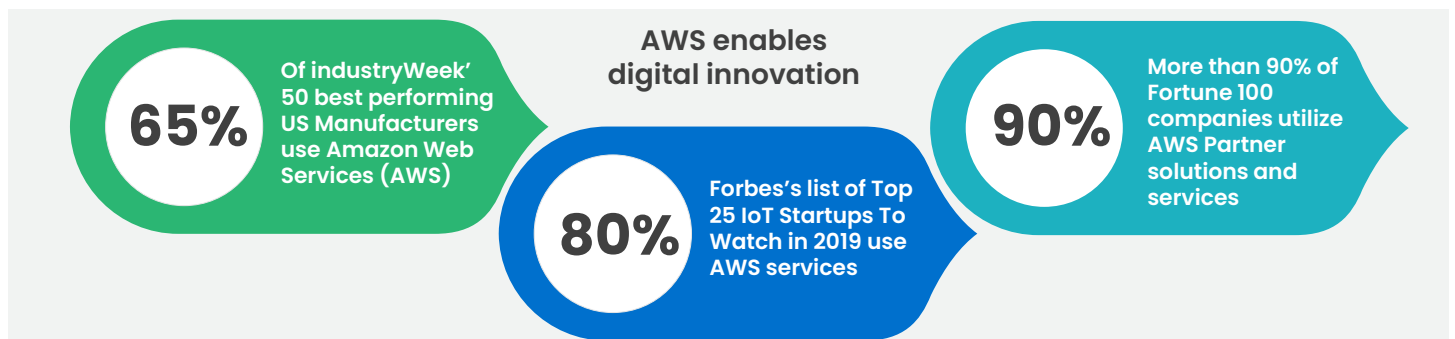
Connected devices enable data exchange between the product and its operating environment to facilitate changes on the factory floor.

Below are the benefits manufacturers can achieve by implementing a strategy for connected machines:

- Provide machine manufacturers with operational data to enhance the productivity of machines
- Reduce downtime by proactively repairing and maintaining machines before their breakdown
- Use diagnostic data and issue resolution to reduce repair time and enhance the overall equipment effectiveness (OEE)
- Save time on installing and debugging machines on new or reimagined assembly lines
- Gain an enterprise-level historical view of operations to drive efficiency and innovation

Value Proposition

The shift to near real-time, two-way communication between machines, their operators, and business decision-makers empowers manufacturers to reinvent and improve their operations, product offerings, and future business models.



AWS facilitates Smart Factory Optimization by helping unlock data from connected machines, equipment, robots, sensors, and historians to provide a single, unified view of both real-time and historical insights that enable informed decision-making for business outcomes.

Production and process optimization

Quality assurance

Digital twin and simulation

Supply chain reinvention

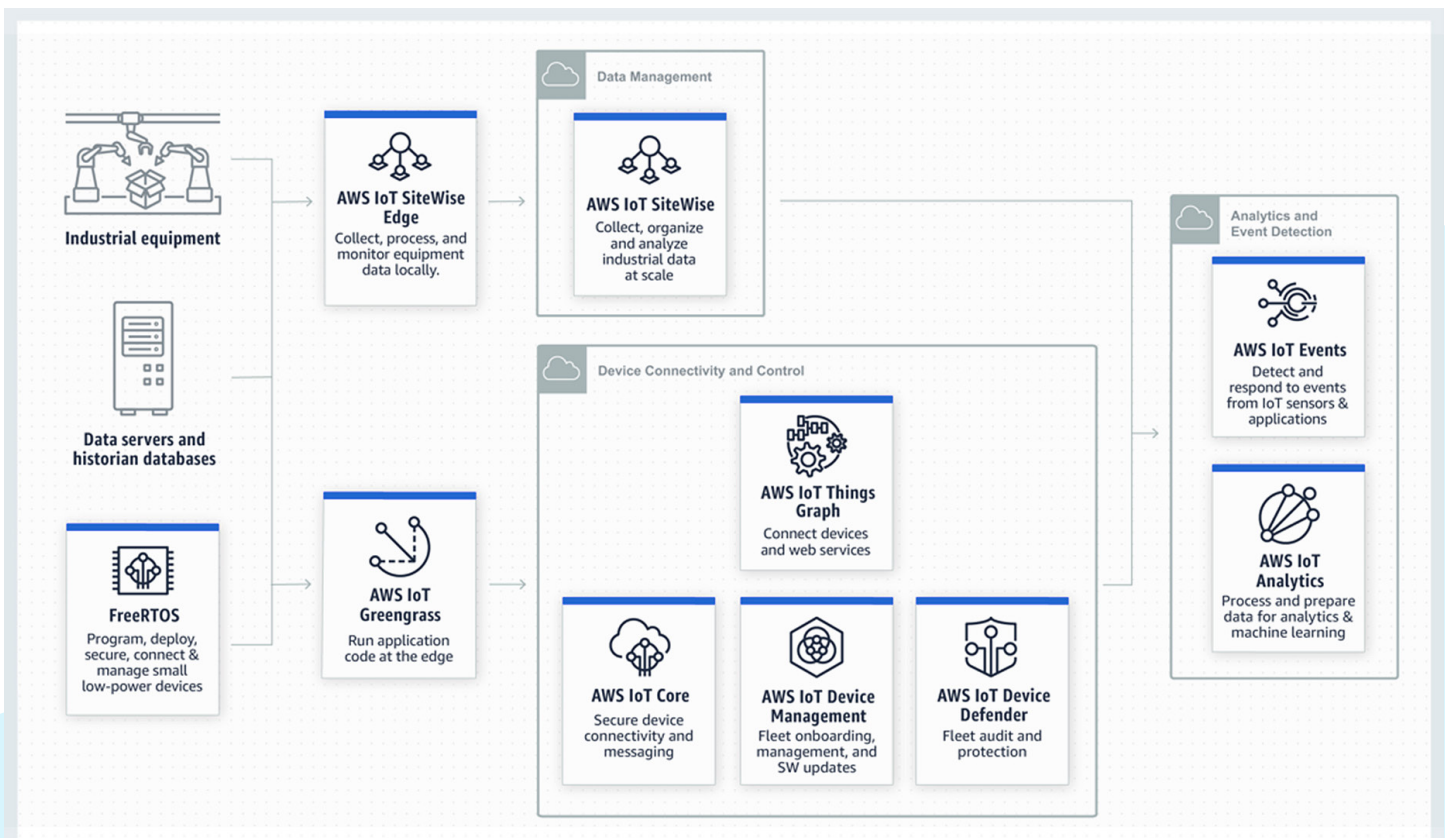
Predictive maintenance to maximize uptime

Optimization of SAP, MRP, and MES systems

Sustainability initiatives, including WAGES optimization

Machine as a service

AWS IoT Services for Industrial Applications



Key Benefits

28%

manufacturers reported factory optimization as a significant benefit of connected machines.

Factory Optimization Keeps Manufacturers Competitive

Connected machines help manufacturers continuously optimize their factory operations by providing new insights about production time improvement, waste reduction, cost optimization, and profit increase. While most factories have machines that generate basic data, it is often inaccessible or takes too long to download to leverage actionable insights.

15%

of manufacturers consider predictive maintenance as a preferred benefit of connected machines.

Predictive Maintenance Helps Avoid Costly Downtime

Predictive maintenance offers manufacturers a proactive maintenance approach that eliminates unscheduled downtime, decreasing maintenance expenditures and increasing production capacity. In a connected machine setting, manufacturers transfer operational data into a secure data lake in the cloud and use AI/ML to analyze the data from machine sensors for anomalies that might indicate undue stress on the components or machine faults.

25%

Almost 25% of manufacturers regard security as a critical challenge for them.

Security Designed for IoT

Connected equipment and devices constantly communicate with each other and the cloud via different communication protocols. While communication enables responsive Internet of Things (IoT) applications, it can also expose IoT security vulnerabilities and open channels for malicious actors or accidental data leaks. As the number of connected devices utilized by industrial companies continues to grow, maintaining and enforcing security best practices has become increasingly challenging.

We place security at the heart of every offering to help manufacturers completely leverage the speed and agility of the cloud. With built-in device authentication and authorization, AWS IoT makes it easy for customers to secure device fleets at scale, keeping industrial IoT data and devices safe. AWS IoT secures and protects IoT devices from intrusion and data leaks by providing industrial companies with end-to-end device security through key management, certificate authentication, and data encryption.

Why Choose Innova Solutions?



IoT Expertise: We possess a team of seasoned IoT experts who are well-versed in AWS IoT services. The team's expertise ensures the successful implementation of IoT projects, from device connectivity to data analytics



Proven Track Record of Success: We are proud to have successfully delivered IoT projects for leading organizations while enhancing their efficiency and reducing operational costs significantly



AWS Strategic Partnership: Innova Solutions is an Advanced Tier partner and a prestigious AWS IoT Designation partner, demonstrating its strong commitment to and expertise in AWS IoT Services



Global Presence: By utilizing the extensive global network of AWS, Innova Solutions provides organizations worldwide with IoT solutions, making it a preferred choice for businesses with international operations

25

Years in IT Service

\$3 B

In Revenue

50,000

Professionals

1,100

Clients



www.innovasolutions.com

About Innova Solutions

Founded in 1998 and headquartered in Atlanta, Georgia, Innova Solutions employs approximately 50,000 professionals worldwide and reports an annual revenue approaching \$3 Billion. Through our global delivery centers across North America, Asia, and Europe, we deliver strategic technology and business transformation solutions to our clients, enabling them to operate as leaders within their fields.

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