



IoT in Verticals:

A Comprehensive Path to Industry 4.0

The next Industrial Revolution will move from legacy digital systems in industrial and manufacturing to the Industrial Internet of Things (IIoT). Using sensor technology, OEMs and manufacturers can capture equipment, logistics, and assets data for granular analytics that drive intelligent business decisions. Creating a network of cellular-driven IoT devices can set a solid foundation for 5G-based IoT applications, such as digital twins, artificial intelligence, machine learning, automation, and robotics, to help streamline efficiencies, lower costs, and enhance initiatives such as safety and workforce support.

Kaleido Intelligence's recent survey, Enterprise Cellular IoT Demands & Opportunities Report, which breaks down the challenges and opportunities in IoT among key verticals.

These are the top 5 takeaways from the manufacturing industry:

Overwhelming Demand for Device-Related Services

84% of cellular IoT adopters in manufacturing rate both device management capabilities and device-to-cloud integration as "very important," closely followed by hardware design professional services (82%)¹.

Hardware is the #1 Obstacle to Scaling

59% of manufacturers feel that expertise to simplify and customize the IoT development process is lacking in the current ecosystem¹.

Security Concerns Linger

While 66% of manufacturing respondents are considering a private network, only 7% have an active deployment. The primary barrier is perceived security risk, with 65% of those considering a deployment admitting they are "unsure of how secure the deployment will be"¹.

Roaming a Top Challenge

International connectivity is a near-universal requirement, with over 96% of respondents needing it. As a result, this vertical, more than any other surveyed, places roaming restrictions in their top 3 challenges for IoT scalability¹.

eSIM Adoption Driven by Efficiency and Security

For the 33% of manufacturers who are using eSIM, the top drivers are: removing operator lock-in risk (67%), reducing device Stock Keeping Unit count (64%), and using eSIM as a security root of trust (64%)¹.

IoT for Industrial and Manufacturing

IoT provides many opportunities for the manufacturing and industrial sectors to streamline operations through comprehensive visibility and analytics. Leveraging sensor-based technology that creates actionable intelligence accessible through a unified platform helps build flexibility and optimality whether products and parts are in warehouses, on production lines, along the supply chain, or in the field.



Mitigate Downtime

Reduce the risk of unplanned downtime through holistic machine health and performance monitoring. With sensor-based IoT devices monitoring equipment and sending that data to an analytics dashboard, production managers can intelligently plan routine maintenance that creates the least amount of impact to production time.



Build Predictive Models

Through IIoT analytics, OEMs and manufacturing organizations can build predictive models which can help create flexibility and agility to help manage the unexpected.



Remote Field Servicing

Broaden your portfolio of offerings by including field servicing made easy through IoT. Specialized IIoT solutions automate field servicing by connecting field service technicians through handheld devices to backend systems so they can schedule and coordinate maintenance and emergency repairs.



Inventory Management

Location-based services help ensure that assets, equipment, and parts are tracked wherever they move along the supply chain or within the warehouse to provide optimized inventory management to reduce the risk of loss and theft.



Enhance Safety

With camera-based technology and wearable tracking devices, managers are given full-scale visibility to manage worker safety, as well as support regulations and compliance.



A Single Source for IIoT Needs

When you're ready to add flexibility and intelligence to industrial and manufacturing applications, you're ready for KORE. With full-scale connectivity options – including an eUICC, Multi-IMSI eSIM – managed services, hardware, security, and holistic platforms, KORE makes IoT a success in manufacturing and industrial. Reach out to learn more.