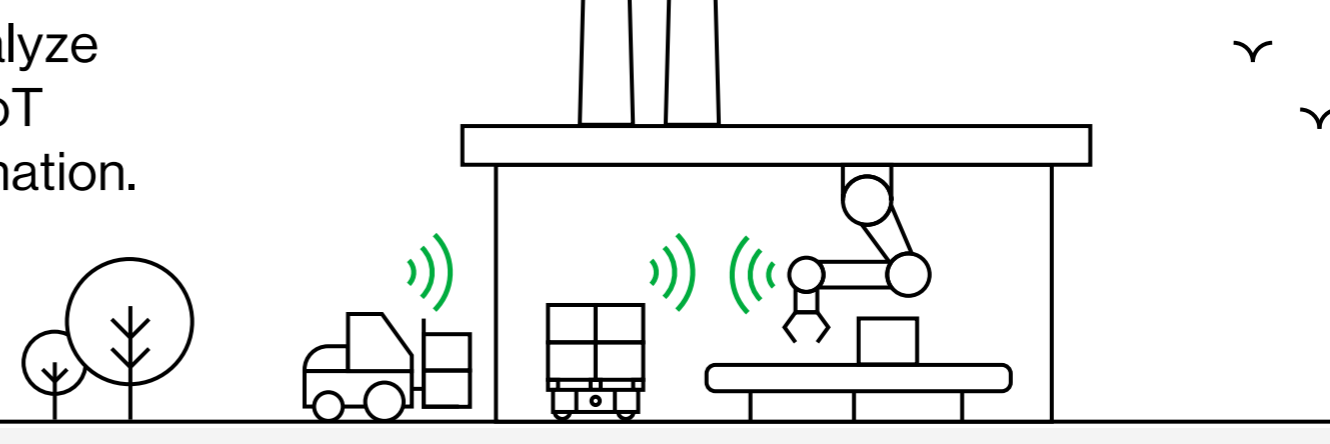


IoT, Industry 4.0 and the road to predictive maintenance



With access to more data than ever before, businesses are looking for insight to give them an edge. Data by itself can be irrelevant if it's not focused to enable better decision-making. The Internet of Things (IoT) provides the tools to help businesses collect, focus and analyze data. When implemented correctly, the IoT offers a pathway toward digital transformation.

Many companies are devoting funds toward IoT-based projects, and the amount of data being generated is staggering.



41 billion

By 2027, there will be over 41 billion IoT devices in use worldwide.¹

79 ZB

By 2025, 79 ZB of data will be created by billions of IoT devices, causing organizations to reevaluate their data governance, retention and usage policies.³

742.1 billion

Worldwide spending on the Internet of Things will reach \$742.1 B in 2020.²

IoT in the industrial landscape

Meanwhile, the manufacturing industry is on the brink of a transformative shift brought on by the Fourth Industrial Revolution, or Industry 4.0. In this revolution, connectivity is added to everything that can be connected. This interconnectivity and resulting communication ultimately lead to better business decision-making and can be a game changer, if not an industry disruptor, for manufacturing firms.



40%

To lessen critical equipment failures, by 2024, 40% of OEMs will leverage field asset IoT data to intelligently diagnose pending issues and resolve autonomously, reducing unplanned downtime by 25%.⁴

65%

By 2023, 65% of the global manufacturers will realize a savings of 10% in operational expenses through process digital twins driven by IoT and machine learning (ML) routines that factor in unstructured data sets.⁴

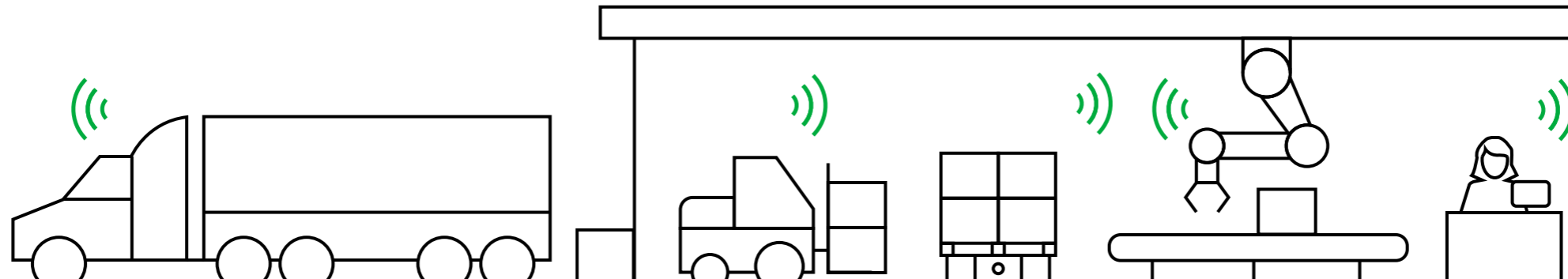
30%

Driven by increased requirements for sustainability, by 2025, 30% of manufacturers will be utilizing blockchain and IoT to provide reliable provenance, leading to a 90% increase in audit efficiency.⁴

Proactive maintenance in the Industrial IoT

Industry 4.0 is about automating traditional manufacturing and industrial practices, using modern smart technology. Perhaps one of the areas where this practice is most apt is in Industrial IoT (IIoT). Whether it is

equipment, machinery or another asset that requires diagnostics, eventually that asset is going to break. There has always been a balancing act between the cost of repairing an asset and the risk of doing nothing.



Verizon Condition Based Maintenance

Verizon Condition Based Maintenance provides the diagnostic monitoring you need in an IoT-driven environment. Remote edge management and monitoring capabilities provide critical visibility into industrial equipment or any asset with an edge gateway device. You can now proactively monitor and manage edge gateway devices in near real time—including factory automation, automated points of sale (POS), security cameras, digital signage, robotics, manufacturing tools and more—with a reliable, secure remote management solution.



Increase operational efficiency.



Decrease unplanned downtime and escalating energy costs.



Build better customer relationships by keeping equipment running smoothly and consistently.



Save money by repairing equipment rather than replacing it.

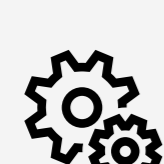


Create new revenue streams by enabling new services or expanding connected device offerings.



Reduce emergency repairs and truck rolls.

Improve customer experiences.



Gain predictive insight into asset and equipment health.



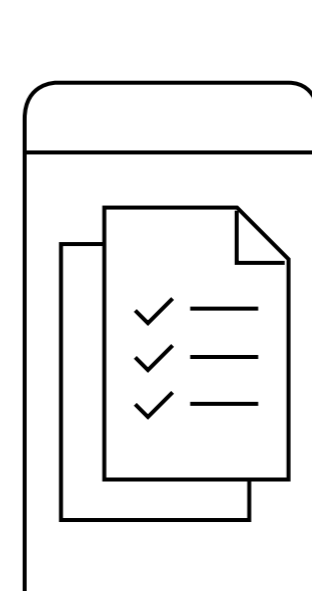
Increase visibility and intelligence for better decision-making and cost management.



Enable remote monitoring for better control and awareness.

Create new revenue streams.

Put your business in a better position to offer service contracts and extended warranties.



Why Verizon

We have the best network with features, services and solutions designed specifically for the needs of your business.

75%

By 2023, enterprises will struggle to manage all the different access types used to connect their IoT endpoints, with 75% adopting more than one connectivity type.³

With Condition Based Maintenance, you're ready.

To find out how Condition Based Maintenance can help improve how you maintain edge gateway devices, contact your Verizon Business Account Manager or visit <https://www.verizon.com/business/products/internet-of-things/-connected-assets/condition-based-maintenance/>



1 Peter Newman, The Internet of Things 2020, Business Insider Intelligence, March 2020.
2 IDC Worldwide Semiannual Internet of Things Spending Guide, version 2019R2, May 2019.
3 IDC FutureScape: Worldwide IoT 2020 Predictions, December 2019, Doc #US45591619.
4 IDC FutureScape: Worldwide Manufacturing 2020 Predictions, October 2019, Doc #US45594819.
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