# Build a connected future for your business

Give your business a boost with secure, flexible, and high-performing IoT solutions from Intel and Microsoft. Put your data to work using the intelligent edge and intelligent cloud. Build better customer experiences and find new revenue streams with ready-to-adopt industry-specific solutions.

Microsoft Azure | intel.

Why IoT?

IoT is no longer a nice to have, it's a must. Billions of devices are being connected from edge to cloud – helping businesses and organizations create insights to improve productivity and cut costs. And as leaders in the market, Microsoft Azure and Intel IoT have joined forces to offer you proven, production-ready IoT solutions to optimize your business.
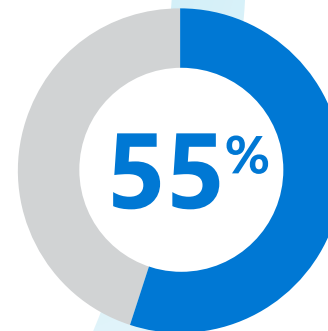
➔ i Microsoft, "IoT Signals, Edition 2," 2020.
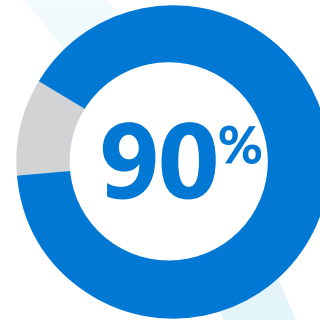
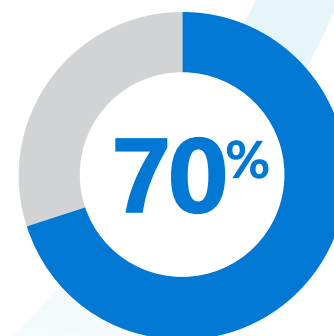**90%** **of decision makers** surveyed in a recent study believe IoT is critical to their organization's success.[i]
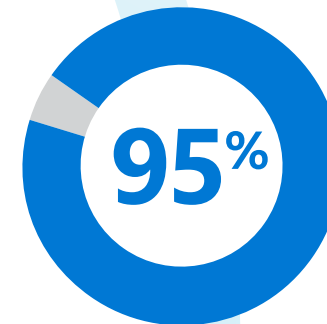
95% **of those surveyed** anticipate using as much or more IoT compared to today.[i]

55% **of all data** is forecast to be generated by IoT in 2025.[i]

70% **of enterprises** will run varying levels of data processing at the IoT edge by 2023.[i]

Microsoft Azure | intel.

Microsoft and Intel offer the most comprehensive portfolio of IoT and Edge technologies in the market

Together, Microsoft and Intel integrate the best of Microsoft's cloud technology with Intel's compute power to advance joint IoT technologies. Built to drive digital transformation, this innovative collaboration offers advanced IoT technologies that operate in nearly any environment—incorporating data and devices from the edge to the cloud, and everywhere in between.

Intelligent edge technology powered by Microsoft and Intel enables customers to:

Build flexible, secure IoT solutions.

Deploy agile, custom IoT solutions with speed, security, and choice with Intel and Microsoft as your technology foundation; open and flexible platform services; and comprehensive developer tools.

Power today and the future.

Get IoT that works well now and provides optimal performance for the future. Make a bold commitment to new technologies such as enhanced AI, machine learning and mixed reality and integrate them into your existing systems.

Optimize the edge.

Bring intelligence and workloads to the edge, react more quickly to change, and operate and scale more reliably with Intel and Microsoft Azure.

Power your business with Microsoft Azure IoT

Speed your digital transformation with advanced Intel technology

Microsoft Azure | intel.

Ready to take your next digital transformation step with IoT?

Click the corresponding action boxes below to learn more about how Microsoft Azure and Intel IoT can help drive your business forward.

Microsoft Azure | intel.

What can I do with IoT?

IoT lets you solve your business problems using your own data.

IoT enables businesses to monitor assets or even entire environments in real-time, and then use the data collected to predict anything about those assets or environments. This enables businesses to move from being reactive to proactive, optimize operations, provide new breakthrough services and more.

Click to learn more about these use cases:

Microsoft Azure | intel.
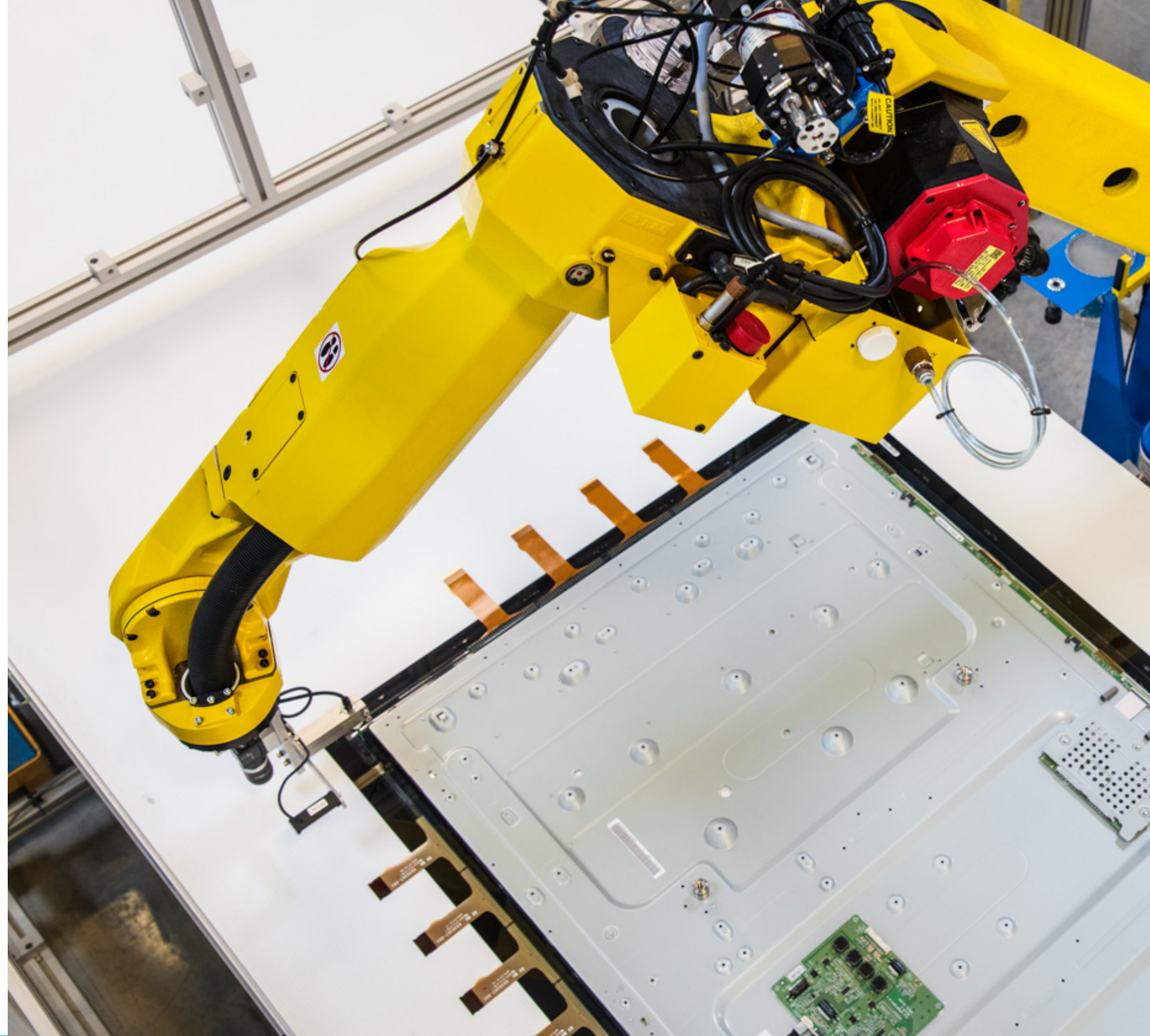
Monitor to optimize

Monitor almost any kind of asset—including heavy machinery, vehicles, and even livestock—almost anywhere, either continuously or at regular intervals. By tracking location, performance, condition, or environmental factors, the insights you gain from IoT-connected things may help you:

Reduce your service costs and refine your business processes.

Understand how your products are performing to provide a better experience for your customers.

Increase the number of appointments per day, cut fuel costs, and reduce wear-and-tear by using machine learning capabilities to route freight or vehicles more efficiently.

Know where your resources are at any given moment—down to which vehicle they're on—for improved field service, stronger security, and increased employee safety.

Microsoft Azure | intel.

A national food services company reaps **$8K** in savings per location

Compass Group, a national food services company, used ELM FieldSight™ to conduct remote monitoring that could scale across devices, reduce audits, and minimize food spoilage. The organization deployed 18 wireless IoT sensors on their refrigeration units. These were connected to Intel-powered edge computing devices and the Azure IoT cloud. The sensors captured temperature, humidity, and light data. ROI calculations projected $8,000 in savings per location over a three-year period as well as improvements in energy efficiency, food waste, and quality assurance. ELM Fieldsight yielded similar results for an energy customer in the Caribbean, including reducing harmful emissions by 90%[1].

Microsoft Azure | intel.

Predict to transform

Predictive maintenance incorporates machine learning software that analyzes data to predict outcomes and automate actions. Predictive capabilities allow service providers to move beyond the traditional reactive and scheduled maintenance business model to using data and analysis to identify issues before they become critical, allowing technicians to intervene before customers even realize there's a problem. Armed with this information, you're able to:

Figure out what mechanical or operational conditions are causing failures or slowdowns.

Better predict what spare parts to keep in your inventory before repair issues arise.

Move beyond a break/fix business model by preventing equipment failures through just-in-time maintenance.

Microsoft Azure | intel.
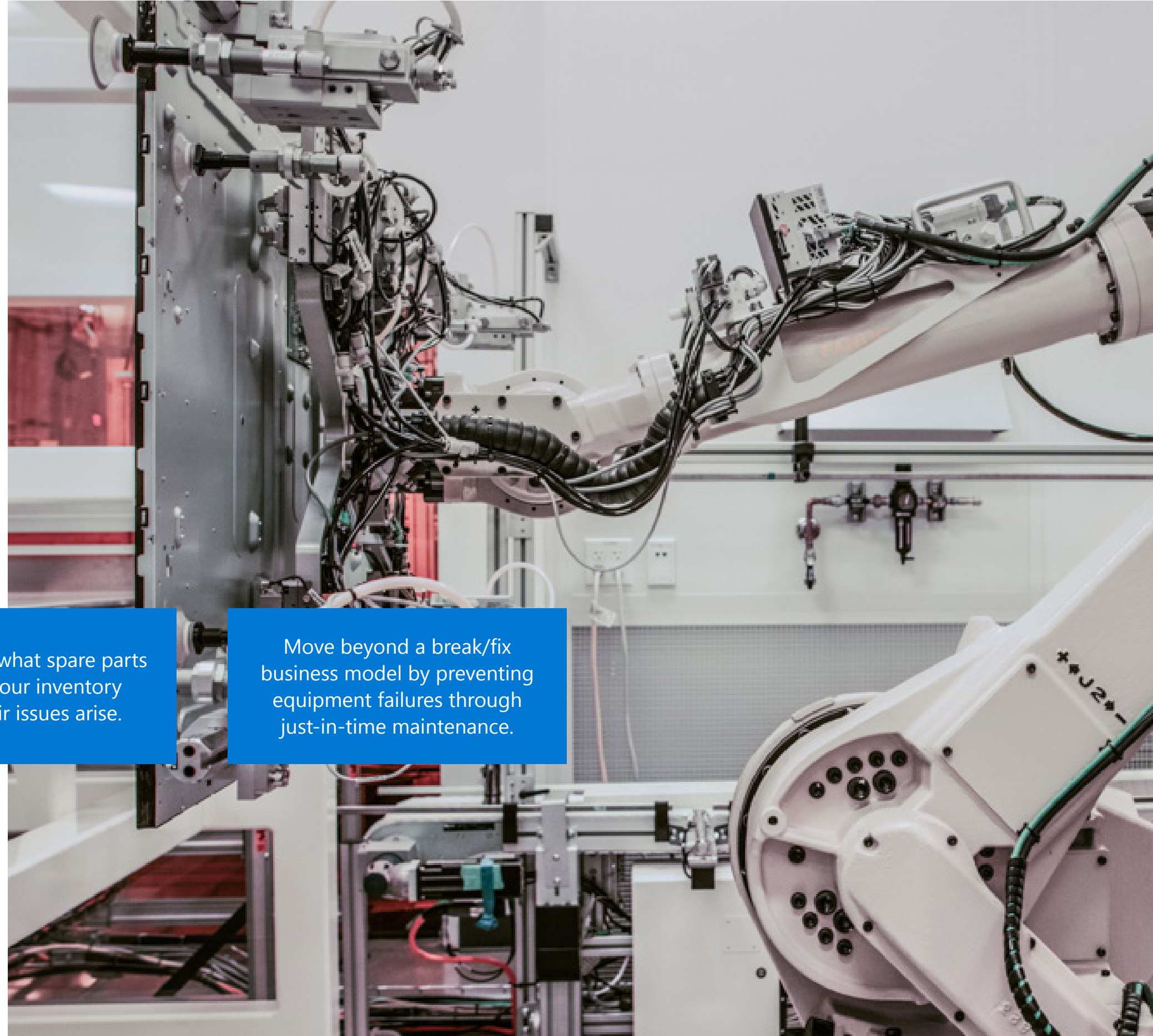
Glass company predicts breakdowns with 85% accuracy, two days in advance

An international glass manufacturer was experiencing equipment failures that led to unexpected costs and low production availability. Using the Neal Analytics Predictive Maintenance solution, which includes Microsoft Azure Machine Learning, the company can identify variables and anomalies influence equipment failure. This solution enables the company to predict breakdowns two days in advance with 85% accuracy and take appropriate action, resulting in lower maintenance costs and less unplanned downtime.

Microsoft Azure | intel.

An ecosystem of solutions to power your enterprise

Click logos to read about the solution

	MANUFACTURING	RETAIL	SMART SPACES	HEALTHCARE	INDUSTRIAL
Remote Monitoring					
Remote Monitoring / Predictive Maintenance					
Predictive Maintenance					

Microsoft Azure | intel.

Intelligent edge technologies give customers a head-start on IoT

Find enterprise-ready, off-the-shelf solutions

Together, Microsoft and Intel have cultivated an expansive partner ecosystem in IoT. That means customers like you can access hundreds of ready-made solutions that are fast and easy to deploy. They serve industries ranging from healthcare to manufacturing. And since they're built upon Microsoft Azure and Intel technologies, customers can trust they're secure and reliable.

Optimize your future with ready-made solutions from The Intelligent Edge

Explore best-in-class solutions to boost your business

Microsoft Azure | intel.

Explore ready-to-use partner IoT solutions

Power your business today and in the future

Designing and implementing IoT solutions for current and future needs takes time, resources, and expertise that not every organization has. In 2020, the average IoT project took a full twelve months to implement.

And yet organizations know that efficient adoption of IoT is critical for their future. That's why Microsoft and Intel jointly are cultivating the most expansive and fastest-growing partner network for IoT applications. These partners offer proven customer-ready, end-to-end solutions for hundreds of applications in multiple industries.

Go to TheIntelligentEdge.com to see our Intel and Microsoft joint IoT partner solutions

Level up your business with Microsoft IoT and advanced analytics apps

Gain power and insights with Intel Market-Ready Solutions

Microsoft Azure | intel.

Remote Monitoring

Predictive Maintenance

Remote Monitoring

Predictive Maintenance

Start moving towards smart manufacturing

ActionPoint

ActionPoint delivers on the promise of the industrial Internet of things (IIoT) with Intel Atom® processors and Azure IoT Hub and advanced analytics. This solution brings together all the necessary components of end-to-end IIoT in single, easy-to-deploy solutions, so you can take advantage of the many sources of rich data in your business and move toward smart manufacturing.

Learn more   Watch video

Solution
IoT-PREDICT

Benefit
10-minute setup out of the box

An industrial-grade IoT solution

Enables smart manufacturing
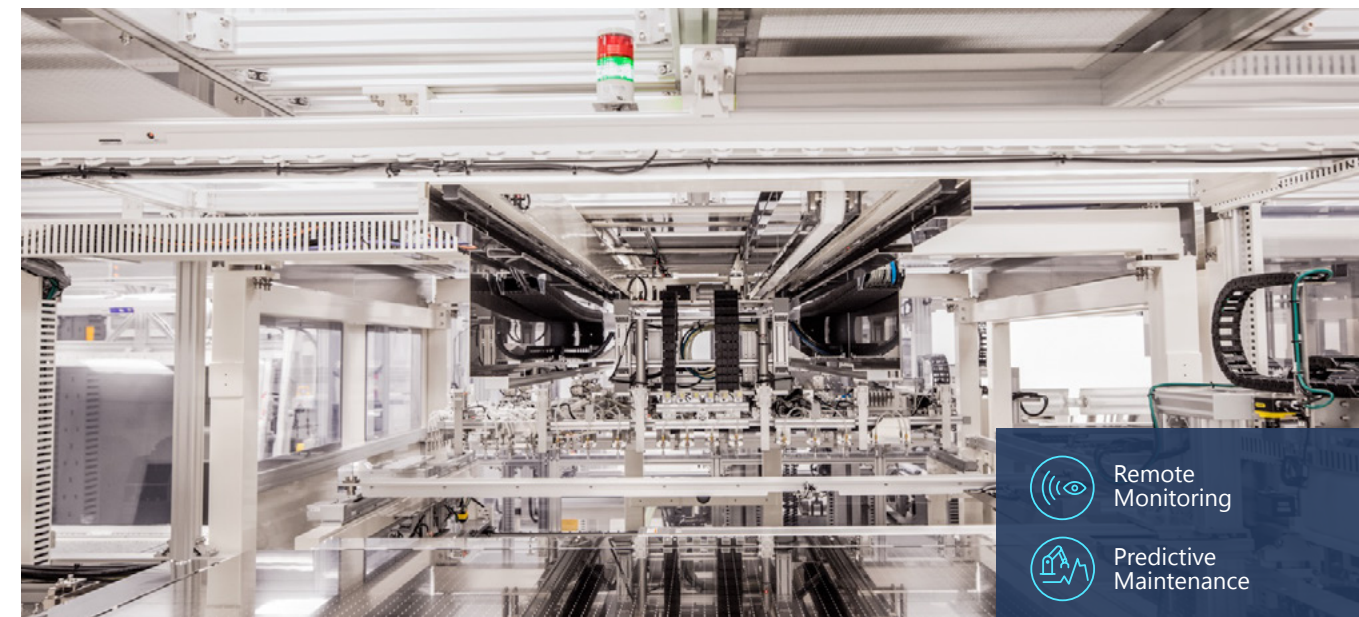
IoT solution helps manufacturers of any size

ADLINK

The ADLINK MCM-100 DataConnect Pro Solution gives manufacturers the ability to better monitor their operations and equipment, with less downtime. Manufacturers want actionable data to keep operations optimized, and they want to take advantage of the Internet of Things to stay competitive into the future.

Learn more

Solution
ADLINK MCM-100 Data Connect Pro

Benefit
Streamline operations

Boost profits

Simple deployment

Microsoft Azure | intel.

Remote Monitoring

Predictive Maintenance

Remote Monitoring

Connect and manage all your IoT devices

Remotely manage distributed equipment with an integrated, solution-ready package featuring wired and wireless edge-to-cloud connectivity, protocol conversion, edge intelligence, and asset-management features. Using Microsoft Azure, it provides a scalable platform for your system data, while Intel-based edge devices offer high performance and reliability.

Learn more   Watch video

ADVANTECH

Solution
Advantech Wise-PaaS/
EdgeLink

Benefit
Collect and manage data from all devices

Capture opportunity

Deploy rapidly

Convert protocols and formats automatically

Visualize data

Gain visibility into supply chain logistics

With the Intel Connected Logistics Platform, users can obtain real-time alerts and insights from their shipments around the world. A flexible IoT architecture built on Microsoft Azure enables rapid deployment and advanced analytics.

Learn more

ARROW

Solution
Intel Connected Logistics Platform

Benefit
Useful insights

Cost effective

Automated notifications

Optimized operations

Interoperable

Detailed analytics

Microsoft Azure | intel.

Remote Monitoring

Get omnichannel inventory and logistics visibility

C.H. ROBINSON

Navisphere Vision gives you visibility into your logistics and inventory across your retail and online channels. Our machine learning algorithms leverage 115 years of experience, Azure services, and Intel IoT sensors to help you notify customers of delays, react to disruptions, and optimize on-hand inventory across your global network.

Learn more   **Watch video**

Solution
Navisphere® Vision

Benefit
Gain insight

React quickly

Lower costs

Remote Monitoring

Predictive Maintenance
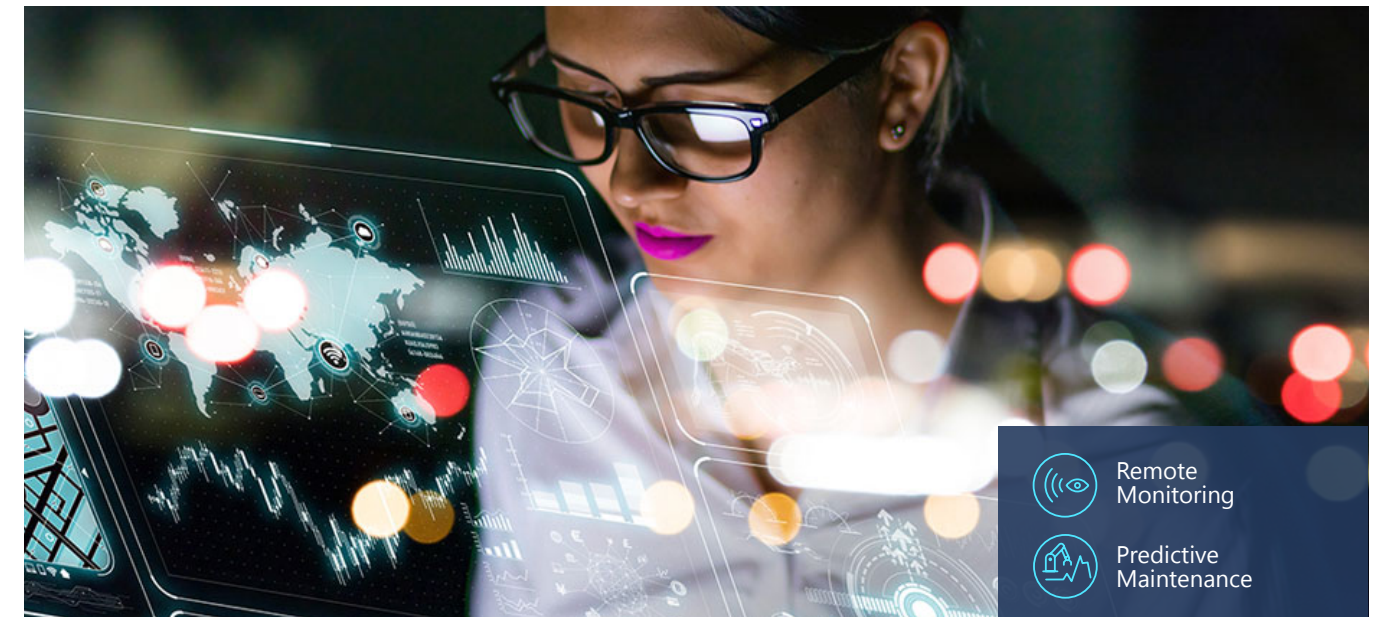
Create safer workplaces with real-time visibility

Hitachi Solutions

Hitachi Solutions IoT Service Hub for Worker Safety is an end-to-end, Azure cloud-based solution that helps protect workers' well-being and ensure the safety of equipment and work environments by gathering data-at-the-edge using advanced Intel processors, then using artificial intelligence to provide real-time visibility, actionable insights, and alerts when safety and environmental parameters are exceeded.

Learn more

Solution
IoT Service Hub

Benefit
Improve worker safety

Create a safer workplace

Support safety initiatives

Microsoft Azure | intel.

MANUFACTURING

Remote Monitoring

Predictive Maintenance

Remote Monitoring

Improve equipment health to optimize operations

Insight | Digital Innovation

Insight Smart Industrial Operations is a customizable solution accelerator that helps you analyze equipment health, efficiency, and productivity. Machine learning on Microsoft Azure delivers powerful insights, while Intel edge computing brings them to your entire business.
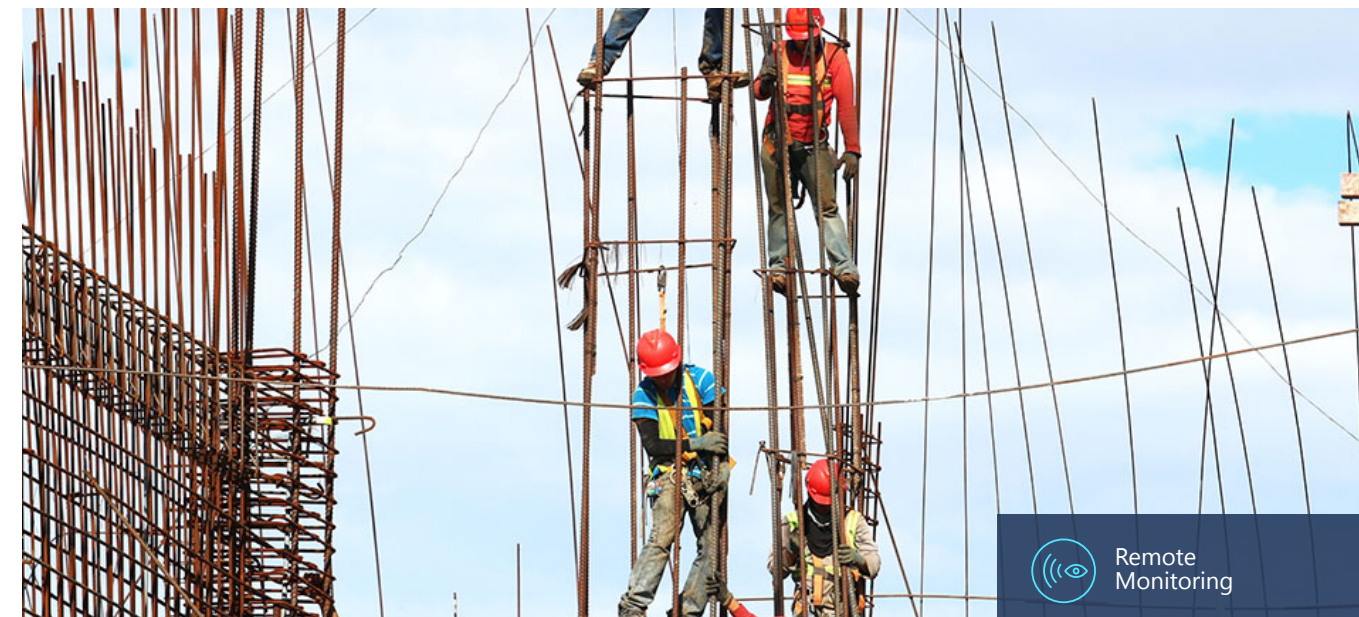
Learn more

Solution
Insight Smart Industrial Operations

Benefit
Real-time visibility

Edge ready

Autonomous innovation

Reduced downtime

Easy deployment

Detailed analytics

Improve industrial worker safety with video and AI

Linker Networks

Linker Vision AI helps you keep your workers safe in hazardous job sites by using video cameras and smart auto-labeling algorithms. Our system, powered by Azure Stack Edge and Intel Xeon processors, detects safety issues and concerns in real-time and alerts your team so they can improve safety and minimize accidents and injuries.

Learn more   **Watch video**

Solution
Industrial Worker Safety with Vision AI

Benefit
Improve safety

Minimize downtime

Enhance compliance

Microsoft Azure | intel.

Remote Monitoring

Predictive Maintenance

Bring the power of AI to your factory floor

Spyglass Connected Factory is an AI-driven platform powered by Intel processors that empowers manufacturers to comprehensively monitor, control, and predict crucial aspects of the manufacturing process in real time. By leveraging secure, flexible Azure cloud technologies for real-time data streaming and predictive analytics, the platform enables manufacturers to effectively reduce unplanned downtime, improve product quality, and optimize production processes – ultimately reducing operating costs.

Learn more   **Watch video**

SPYGLASS
CONNECTED FACTORY

Solution
Spyglass Connected Factory

Benefit
Optimize production and reduce downtime

Rapid time-to-value

Comprehensive platform for AI

Predictive Maintenance

Make factories smarter and more efficient

Monitor manufacturing equipment in real time and track its full lifecycle to predict and prevent equipment failure, reduce downtime, and optimize processes. The Neal Analytics predictive maintenance solution combines advanced data analysis, artificial intelligence algorithms, and IoT built on Microsoft Azure with Intel technology to help you control costs and improve product quality.

Learn more

NEAL ANALYTICS

Solution
Predictive Maintenance

Benefit
Reduce downtime & costs

Increase productivity

Improve product quality

Microsoft Azure | **intel.**

Remote Monitoring

Remote Monitoring

Optimize fleet tracking and management

QuEST Fleet Management uses sensors to continuously assess the performance and efficiencies of fleet vehicles and driver behavior, thanks to advanced Intel processors and Azure IoT Hub. Easy to deploy, using smart dongles, and ideal for fleets of cars, vans, and light/medium trucks, the solution reduces costs by forecasting the wear-and-tear on vehicles, optimizing routing, pinpointing inefficient driving, and delivering actionable real-time insights around the clock.

Learn more   **Watch video**   **Statistic Source**

QuEST
BORN TO ENGINEER

Solution
QuEST Fleet Management

Benefit
Improve monitoring efficiency

Support remote vehicle and driver management

Enable predictive & preventive maintenance

15% increase in productivity

20% reduction in fuel expenses

5% reduction in total miles

30 min reduction in driver man-hours

10% increase in vehicle utilization

30% reduction in vehicle idle

Empower employees and engage customers using digital signage

Improve sales, capture customer attention, and boost employee engagement with relevant content displayed across your business. L Squared Digital Signage provides enterprise-grade engagement tools designed to improve communication for the modern workplace and modern store. Hosted on Microsoft Azure for secure, highly scalable performance, L Squared is also a certified Intel IoT Market Ready Solution.

Learn more   **Watch video**

L SQUARED
DIGITAL SIGNAGE

Solution
L Squared Digital Signage

Benefit
Communicate with flair

Target effectively

Ensure timely reach

Eliminate downtime

Simplify management

Get detailed analytics

Microsoft Azure | **intel.**

Remote Monitoring

Remote Monitoring
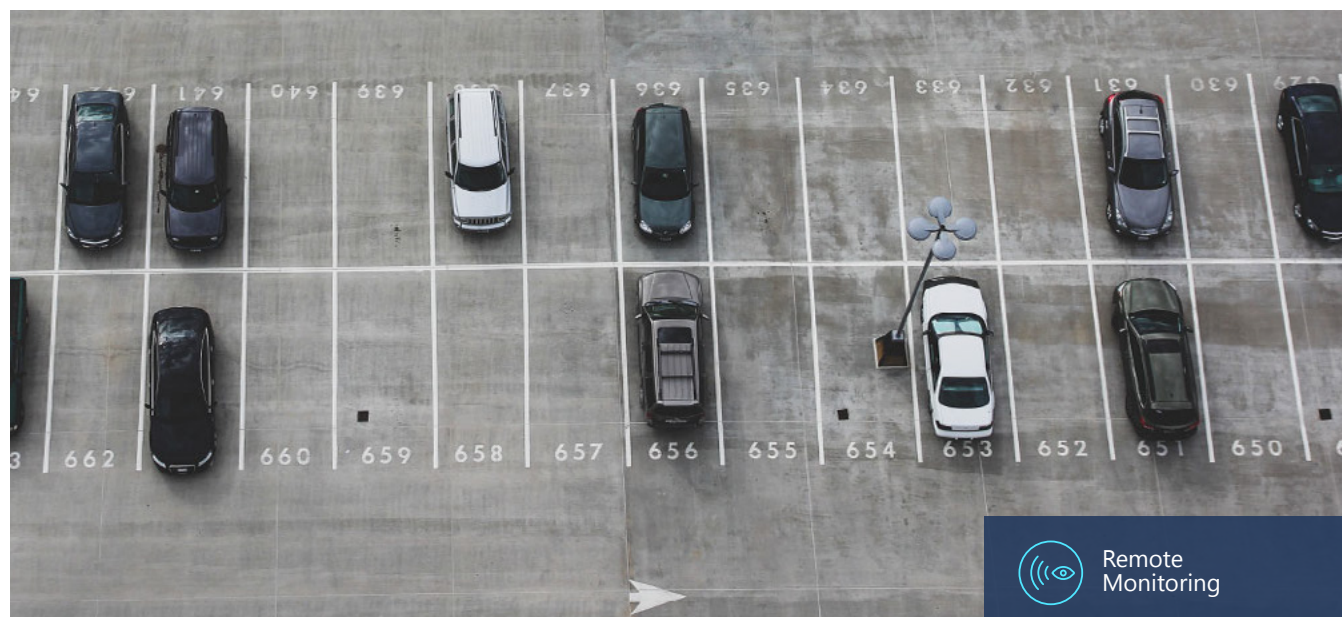
Monitor parking entry/exit with license plate photos

Uncanny Vision®

Uncanny Vision's solution helps you maximize the value and returns of your open parking lot. Our real-time license plate recognition analyzes video with custom AI, Azure Stack Edge, and Intel Xeon processors to deliver in/out monitoring, integration with your existing parking management system and the smoothest entry/exit experience for your customers.

Solution
Uncanny ANPR

Benefit
Improve customer experience

Increase revenue

Simplify managemen

Learn more   Watch video

❝ Thanks to Uncanny Vision's high accuracy LPR, we launched our vision of a new friction-less parking kiosk. The ease of integration, accuracy of plate data, and willingness to offer concepts and ideas to improve our products with their applications, allowed us to push the boundaries of what we thought was possible."

Jared Schmidt, Founder of parcPERFECT, Florida

Create the retail store of the future

wonderstore THE VALUE OF OTHERS

WonderStore, by Kruell Srl, enables retailers to create personalized shopping experiences by applying intelligent analytics to real-time customer data with the latest Intel processors and Azure IoT Hub. Using advanced computer vision to collect in-store information on customer demographics, mood, dwell time, fashion choices, and buying habits, merchants can gain meaningful, AI-based insights that inform dynamic store environments to drive growth and efficiency.

Solution
WonderStore

Benefit
Gain meaningful insights

Improve customer experiences

Grow your business

Learn more

Microsoft Azure | intel.

Improve energy efficiency

AAEON Lighting Control System provides wireless-connected streetlights that can be remotely monitored using Intel processors and Microsoft Azure cloud services to help reduce energy consumption and carbon emissions while increasing urban safety within municipalities.

Learn more

Remote Monitoring

Predictive Maintenance

AAEON

Solution
AAEON Intelligent Street Lighting

Benefit
Simplify management

Minimize electrical output

Easy to install

Cost effective

Reduce downtime

Get detailed analytics

Shape the smart workplace

The Crestron XiO Cloud™ helps organizations increase employee productivity, improve facility efficiencies, and strengthen decision-making by enabling them to globally provision, monitor, and manage Creston IoT-enabled devices. These advanced capabilities are powered by the latest Intel processors and Azure IoT Hub technologies.

Learn more   Watch video

Remote Monitoring

Predictive Maintenance

CRESTRON

Solution
Crestron XiO Cloud™

Benefit
Drive productivity

Improve efficiency

Optimize decision-making

" On average, we host about 8,000 video conferences per month, but it's usually tough to conduct those in the smaller huddle spaces our employees sometimes prefer. Mercury's flexibility in sharing AV data allows us to quickly expand the types of spaces that can accommodate video calls with minimal effort from my team."

Brent Daniel, UCC Solutions Engineer, Unum Group

Microsoft Azure | intel.

Remote Monitoring

Predictive Maintenance

Helping cities and organizations become safer, smarter, and provide a better experience

Hitachi Smart Spaces enabled by Lumada Video Insights for retail, campuses, transportation, and public areas are the building blocks for smart, safer, and thriving cities. Organizations can leverage modular solutions that combine IoT, big data, analytics, and machine learning with Hitachi Video Analytics, advanced Intel processors, and Azure cloud technology to improve safety, customer experience, and operational efficiency.

Learn more   **Watch video**

HITACHI
Inspire the Next

Solution
Smart Spaces

Benefit
Increase safety & security

Drive operational efficiency & reduced waste

Improve citizen & customer experience

" We monitor the heartbeat of our streets. We [use] systems from Hitachi that actually look at the living street as an ecosystem."

Michael Sherwood, Director of Technology and Innovation, City of Las Vegas

Remote Monitoring

Smart connected video surveillance

Innodep's Vurix platform is an Azure cloud-based video management system, built on Intel Xeon® processors, that is designed to ensure safety and security for organizations ranging from small companies to large urban centers. The platform seamlessly integrates input from up to 10,000 CCTV surveillance cameras to provide AI-driven insights from a unified control center that efficiently monitors, records, and manages massive datasets.

Learn more

iNNODEP
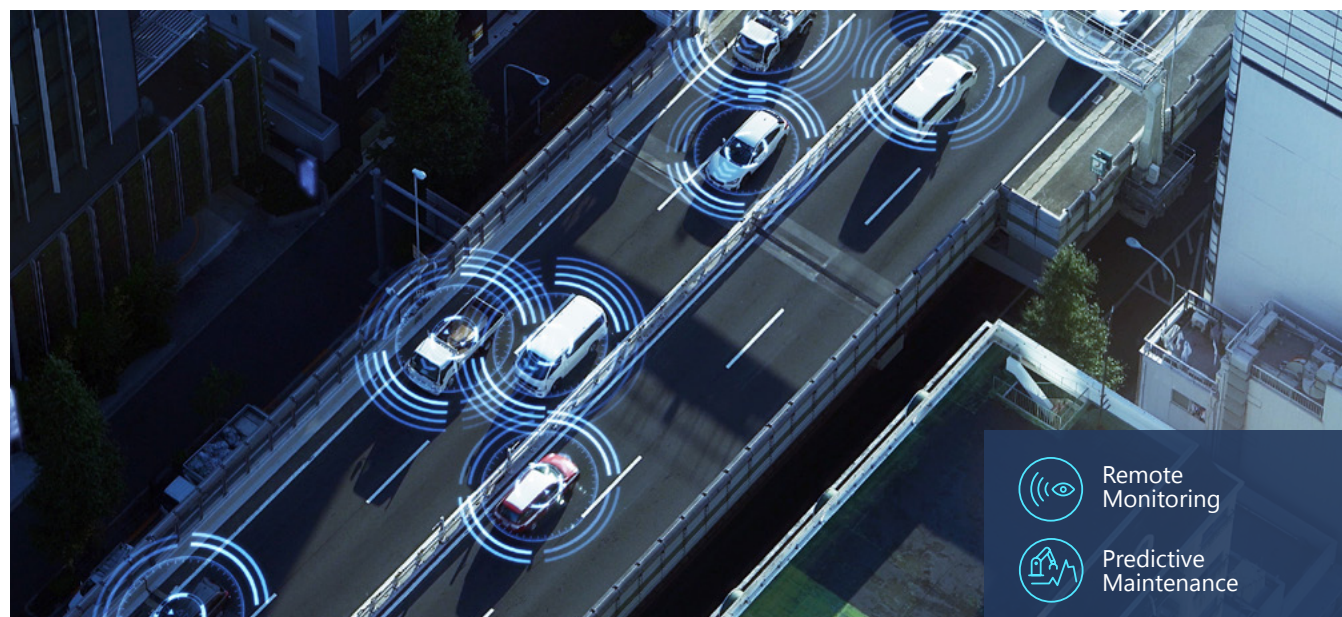Innovative development

Solution
Vurix

Benefit
Increase public safety

Scale quickly and reliably

Reduce costs & utilize your existing assets

Microsoft Azure | **intel.**

Smart, connected city infrastructure

Siemen's MindSphere® City Graph integrates legacy systems and connected IoT devices using a digital model to drive intelligent insights within cities, campuses, districts, and communities. Powered by Intel processors and Azure Digital Twin technology, Siemens City Graph monitors and predicts critical data – such as traffic volume, trash collection, and electricity use – breaking down silos and enabling efficient city operations.

Learn more

SIEMENS

Solution
MindSphere® City Graph

Benefit
Save energy

Increase visibility

Improve quality of life

Improve workplace health and productivity

View Smart Windows helps you optimize your buildings for health, productivity, and appeal with self-tinting glass. Custom AI algorithms, Azure Stack Edge and Intel Xeon processors analyze location, surrounding buildings, sun position, weather and user preferences to let in more daylight, reduce glare, and create a stronger connection to the outdoors.

Learn more   **Statistic Source**

view

Solution
Smart Windows

Benefit
Increase productivity

Optimize office space

Enhance appeal

Up to **18%** annual energy savings

Up to **23%** reduction in peak cooling

Microsoft Azure | **intel**

Remote
Monitoring

Predictive
Maintenance

36.5 °C

38.5 °C

39.0 °C

38.3 °C   36.3 °C

37.6 °C

36.3 °C

39.0 °C

Remote
Monitoring

Unleash the power of connected data

GE Healthcare's Carestation Insights is a suite of cloud-based applications built on Microsoft Azure. It securely gathers data from Intel-powered anesthesia devices to identify previously unseen patterns and reveal opportunities to help improve clinical, operational, and financial outcomes.

Learn more

GE Healthcare

Solution
Carestation Insights

Benefit
Enable improved outcomes

Drive operational efficiencies

Unlock transformative insights

❝ Low flow" hospital realizes an additional 13% decrease in fresh gas flow rates. The data derived from Carestation Insights has profoundly altered our understanding of how our anesthesiologists are conducting volatile based anesthesia. It's allowed specific educational interventions, which have provided an immediate reduction in fresh gas flow rates."

Dr. Richard French, Physician, Christchurch Hospital
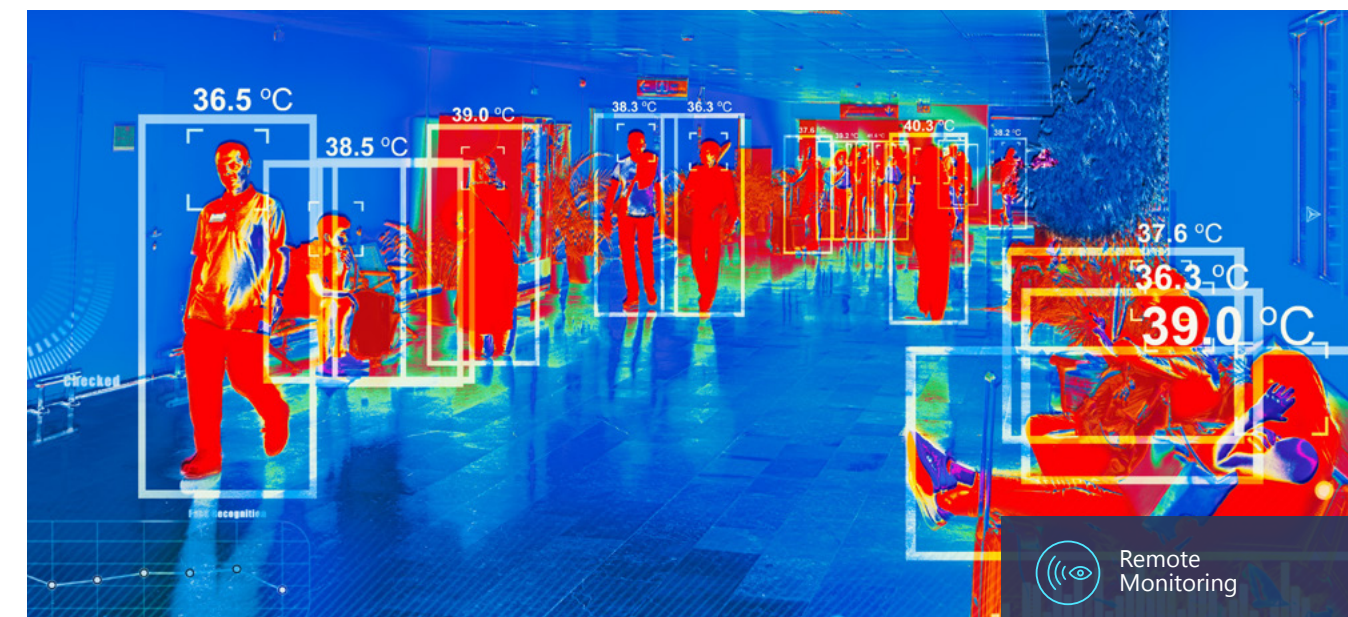
Detect fever in crowds

IQ-FeverCheck is an automated, cost-efficient system that remotely screens people for fever in vast, complex facilities. Useful in locations such as transportation hubs, warehouses, manufacturing facilities, and retail centers, IQ-FeverCheck is an end-to-end package that incorporates advanced heat-sensing cameras, super edge computing devices powered by Intel, pre-loaded smart tracking software, and Azure cloud technology.

Learn more   Watch video

iOmniscient
High iQ Surveillance

Solution
IQ-Fever Check

Benefit
Reduce staff

Minimize risk

Operate at scale

Microsoft Azure | **intel.**

Remote Monitoring

Smart, portable health screening and testing

Citizen Care Pods are customizable, self-contained health screening and testing units that use intelligent technology to enable safety and security in the physical testing environment for patients and front-line health workers. Powered by Azure cloud platform, Azure AI, and Intel technology, Citizen Care Pods expedite health testing, screening, and eventually vaccination in high-traffic business environments and communities.

Learn more   **Watch video**

CITIZEN CARE POD
Smart Screening & Testing Pod

Solution
Citizen Care Pods

Benefit
Expanded healthcare

Customizable features

Scalable operation

" Detection and prevention of the further spread of viruses is key to getting people back to work and interacting together in public again. The Citizen Care Pod demonstrates how intelligent technology can accelerate that effort in a safe and sensible manner."

Stan Lequin, Vice President and General Manager, Digital Innovation, Insight Enterprises.

Remote Monitoring

Predictive Maintenance

Start faster, go further with IoT

Designed for industrial equipment manufacturers, Bright Wolf's customizable reference system and enterprise API provides the fastest path to secure and flexible edge solutions using Azure IoT and Intel solutions.

Learn more

BRIGHT Wolf

Solution
Industrial IoT solutions

Benefit
Integrate devices

Collect data

Optimize outcomes

" We chose Bright Wolf for their experience at the industrial edge and commitment to rapid delivery. They were able to quickly understand both our business and technical needs, and helped us build a flexible connected product solution, based on Microsoft Azure, and designed to give us a strong competitive advantage going forward."

Daric Schweikart, Vice President, Shape Technologies Group

Microsoft Azure | intel.

Remote Monitoring

Predictive Maintenance

Simplify compliance and reduce risk

FieldSight by ELM is a unified maintenance platform that simplifies compliance and reduces risk for retail service chains and utilities. The platform collects critical performance data from sensors placed on generators or power grid components, filters that data with Intel Atom® processors, and uses Azure cloud-based analytics to generate reports and detect alerts on a centralized dashboard.

Learn more   **Statistic Source**

ELM

Solution
FieldSight™

Benefit
Simplify compliance

Minimize risk

Increase efficiency

$8K saved/location over 3 years

90% reduction in harmful emissions

Microsoft Azure | intel.

Enhance your IoT business efficiency

Understand best practices

As Internet of Things (IoT) technology evolves, more businesses are adopting solutions that give them new insights, allow for monitoring of buildings and assets, increase productivity, and even create revenue streams.

The next step in many companies' technology journey is the transition from connected assets to connected environments.

To speed you on the road to digital transformation with IoT, Microsoft and Intel jointly created a detailed whitepaper that covers:

How the four pillars of digital transformation can guide your IoT development conversations.

Why emerging technologies like AI and edge compute are affecting business strategies and helping businesses realize more success.

Six questions that can help speed up timelines for IoT implementation.

How Intel, Microsoft, and their expanding ecosystem of partners can simplify IoT through market-ready solutions.

[i] IoT Signals, Hypothesis, Edition 2, 2020. [ii] Data Age 2025, IDC, November 2018. [iii] IDC FutureScape: Worldwide Internet of Things 2020 Predictions — APEJ Implications, IDC, January 2020. [iv] Microsoft (2020), 'IoT Signals, Edition 2', available at url (accessed 12th Oct., 2020).

Microsoft Azure | intel.

Go to TheIntelligentEdge.com to learn more about how Microsoft Azure and Intel IoT can help drive results for your business.

Power your business with Microsoft Azure IoT

Speed your digital transformation with advanced Intel technology

Microsoft Azure | **intel**

Return home