

O in Action

#IoTinActionMS



Soren LAU

General Manager IoT Sales EMEA





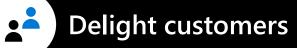
Azure Sphere

Galen Hunt Distinguished Engineer and Managing Director Microsoft Azure Sphere











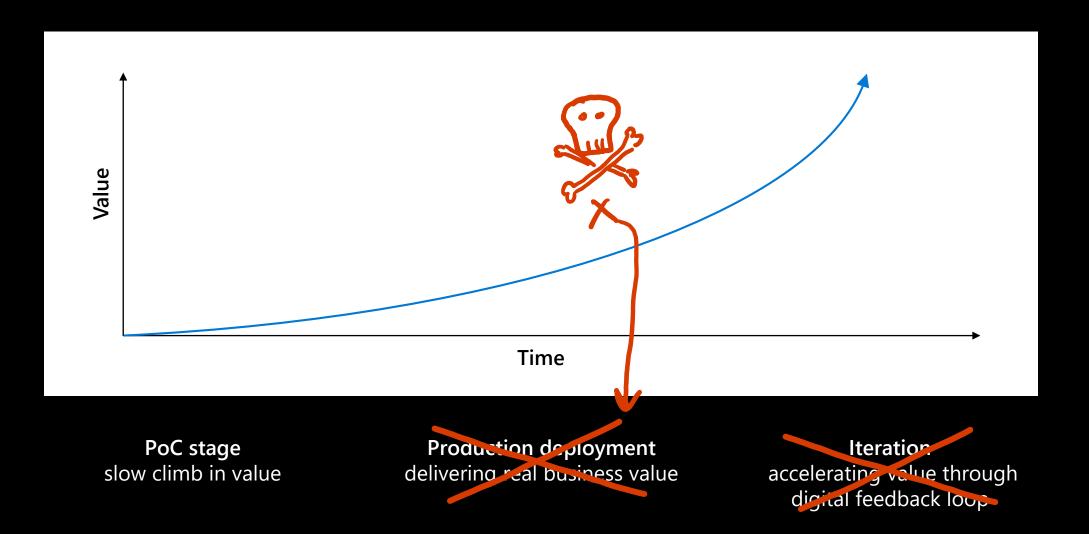
Streamline operations



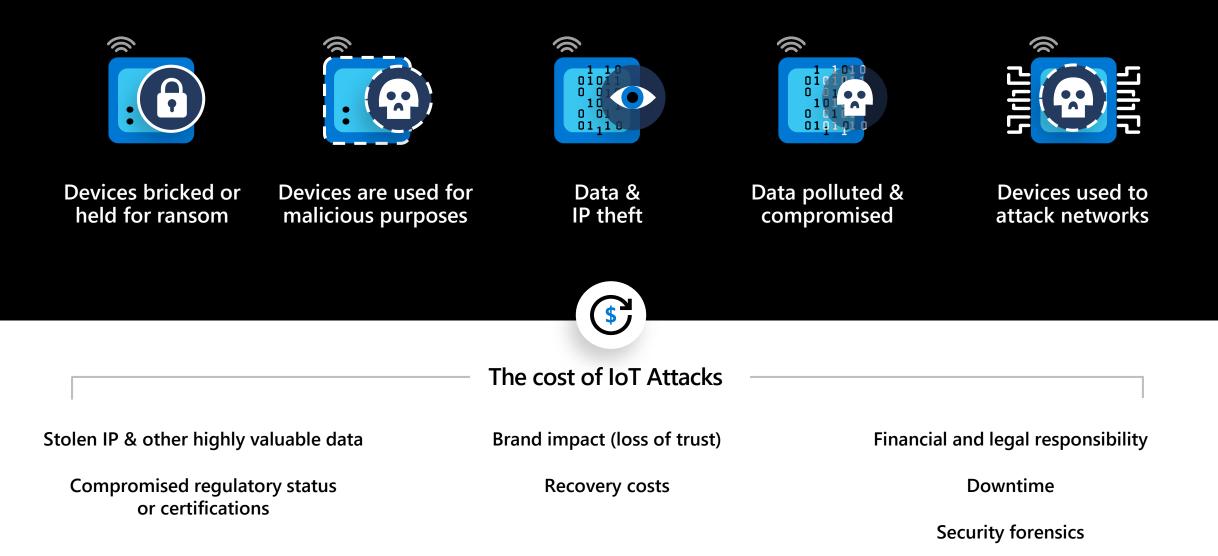
Create new business models



Planning your IoT deployment



IoT attacks put businesses at risk



97%

97% of enterprises call out security as a concern when adopting IoT

Source: IoT signals 2019

22%

enterprise customers are willing to pay 22% more for IoT cybersecurity

Source: Bain & Co. 2018

70%

and they would buy 70% more devices if security concerns were mitigated

Source: Bain & Co. 2018



Governments taking action

USA

- State legislation passed (CA, OR, NY, IL, MD)
- Several bills introduced to Congress
- NIST mandated to define multiple baselines

Europe/UK

- Security certifications under the EU Cybersecurity Act
- UK Code of Conduct informed ETSI Standard
- UK testing different consumer labels

APAC

- Singapore aims to define security guidelines
- · Japanese campaign to hack consumer devices

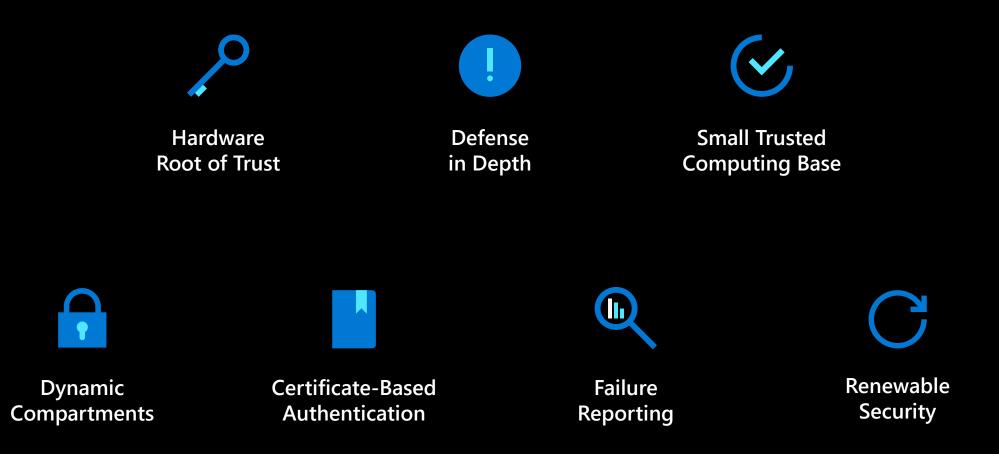
Announcing General Availability TODAY: February 24, 2020



Azure Sphere's mission is to empower every organization on the planet to connect and create secured and trustworthy IoT devices.

Secured connected devices require seven properties

Is your device highly secured or does it just have some security features?



Secured connected devices require seven properties

Is your device highly secured or does it just have some security features?

Hardware Defense Small Trusted **Root of Trust** in Depth **Computing Base** Is your device's identity and Does your device remain Is your device's securitysoftware integrity secured protected even if some security *enforcement code protected from* by hardware? mechanism is defeated? bugs in application code? **Certificate-Based** Failure Dynamic

Can your device's security improve after deployment?

Compartments

Certificate-Based Authentication

Does your device authenticate itself with certificates?

Does your device report back errors to give you in-field awareness?

Reporting

Renewable Security

Does your device software update automatically?

Secured connected devices require seven properties

Is your device highly secured or does it just have some security features?



Lack HROT?

Ask users to authenticate devices at deployment.

Lack Defense in Depth?

Ask customers to disconnect on a zero day.

Lack Renewable Security?

Roll trucks to restore every device by hand.

Meeting the seven properties is difficult and costly

Design and build a holistic solution

You're only as secure as your weakest link

You must stitch disparate security components into a gap-free, end-to-end solution. Recognize and mitigate emerging threats

Threats evolve over time

You must have the <u>ongoing</u> <u>security expert</u>ise to identify and create the updates needed to mitigate new threats as they emerge.

Talent

Distribute and apply updates on a global scale

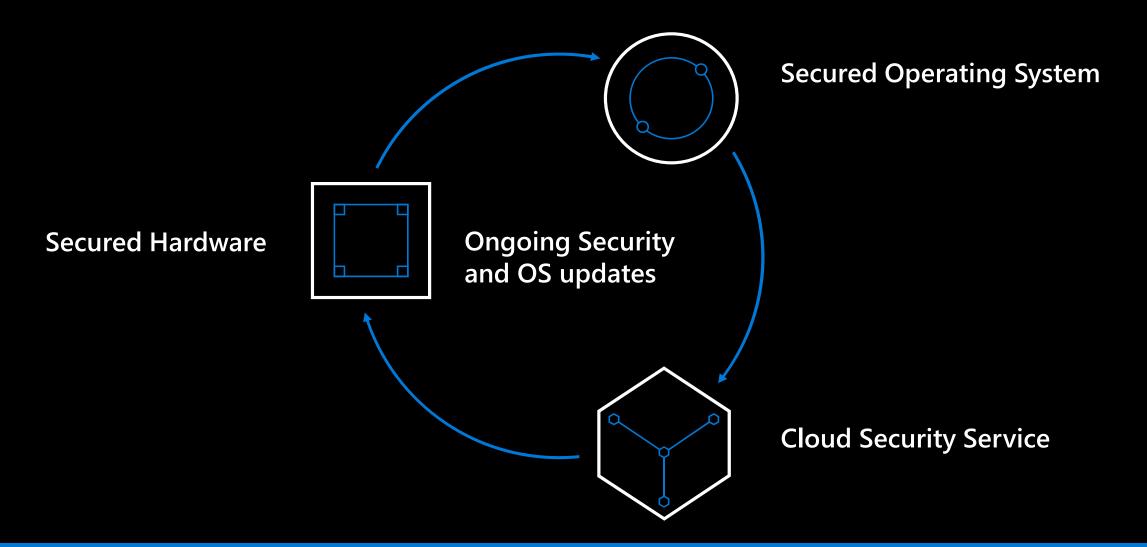
Update efficiency is critical

You must have the infrastructure, logistics, and <u>operational excellence</u> to deliver and deploy updates globally to your entire fleet of devices in hours.

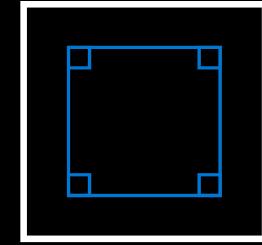
Tactics

Technology

Microsoft Azure Sphere



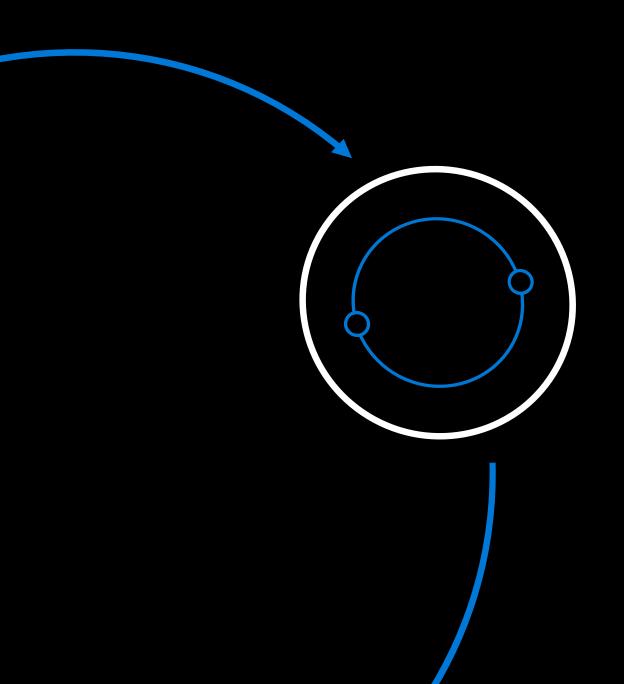
Over 10 years of security and OS updates delivered directly to each Azure Sphere device by Microsoft



Azure Sphere certified chips,

from silicon partners, with built-in Microsoft security technology provide connectivity and a dependable **hardware root of trust**.



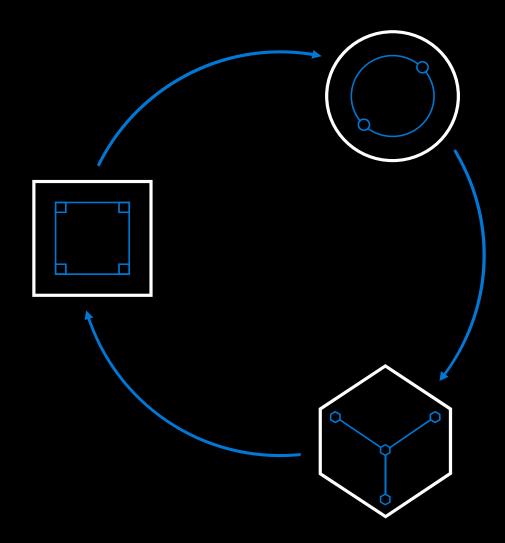


The Azure Sphere Operating System

a multi-layered defense in depth operating system, with ongoing updates, creates **a trustworthy platform** for IoT experiences.

The Azure Sphere Security Service

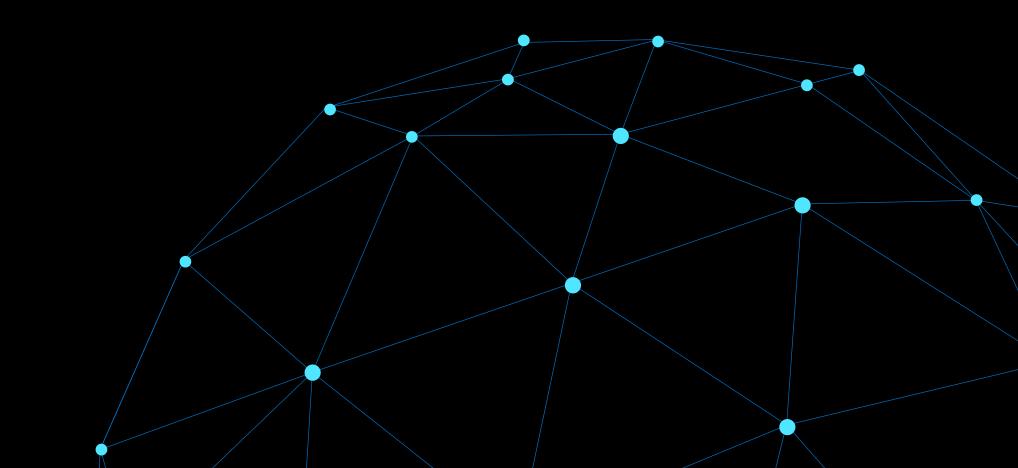
guards every Azure Sphere device; it **brokers trust** for device-to-device and device-to-cloud communication, **detects emerging threats**, and **renews device security**.



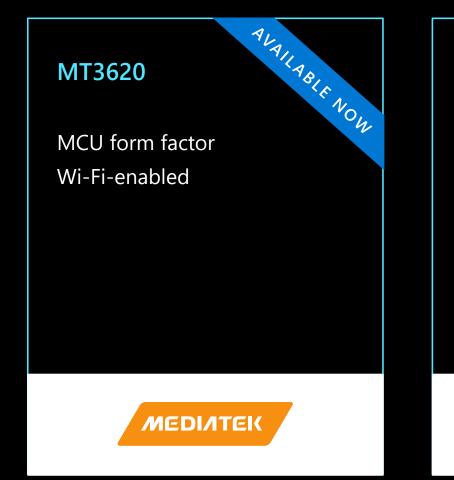


Microsoft security experts deliver ongoing OS and security updates to every Azure Sphere device

Investing in the future of trustworthy IoT



Investing in silicon partners to enable choice and flexibility







COMING SOON Built for anytime, anywhere connectivity:

- Cellular enabled
- Support for ultra-low power scenarios



Investing diverse hardware ecosystem

A growing network of hardware ecosystem partners (ODMs & IDHs)

(VNET () seeed qio AI-Link

Development kits:

Help organizations prototype quickly

Modules: Speed up time to market for device makers

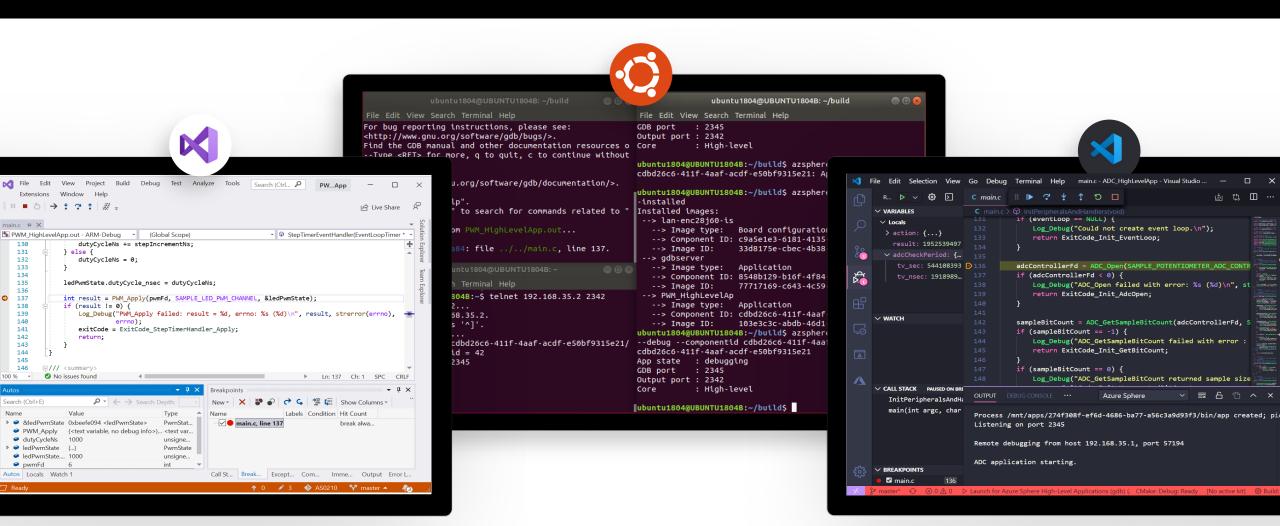
Guardian modules:

Enable secured connectivity of existing equipment

Investing in secured connectivity to existing mission-critical equipment



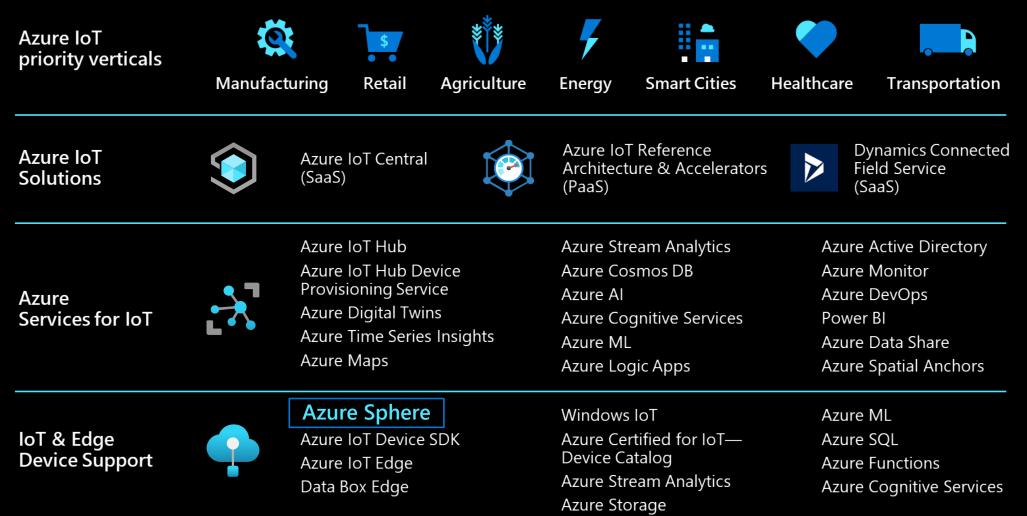
Investing in the right tools for developers



Investing in the secure environment for running an RTOS or bare-metal code



Built to work with Azure IoT

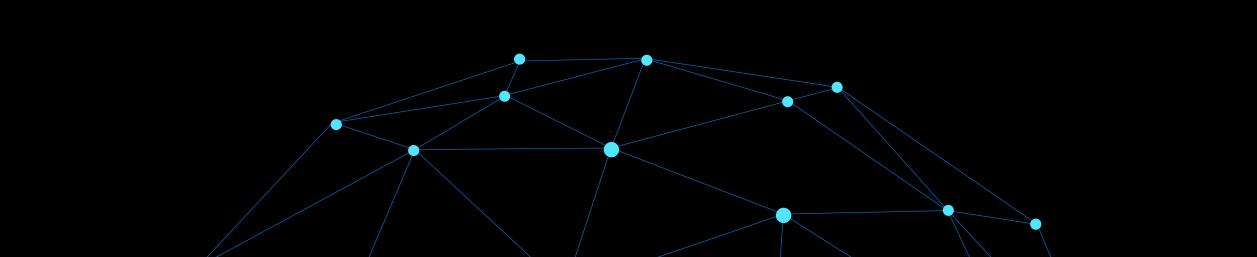


Celebrating customer and partner innovation



Celebrating customer and partner innovation







Innodisk InnoAGE Azure Sphere SSD Solution

The cloud and edge storage solution designed for IoT solutions

INDUSTRY



Automation



qiio

qiio q200 Cellular Edge Solution with Azure Sphere

Enabling security from the cloud to the cellular edge

INDUSTRY



Retail



Consumer



Healthcare



Telecomm





Elettrone Energy and Utilities Monitoring Solution

Intelligent energy

INDUSTRY



Consumers and smart buildings



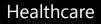


Gojo Purell Azure Sphere Hand Sanitization Solution

Hand hygiene intelligence for Healthcare

INDUSTRY









Microsoft Data Centers

Securing critical infrastructure with Azure Sphere

Securely connecting vital mechanical systems, electrical systems, air handling units, power distribution units and more

INDUSTRY



Smart buildings





Sysinno iAeris Intelligent **Sensor Solution**

Intelligent real-time air quality monitoring

INDUSTRY





Automation

Public transportation

Healthcare

•••

Public places





Flowater Connected Water Dispenser powered by Azure Sphere

The "smarter" water wherever consumers work, rest, and play

INDUSTRY

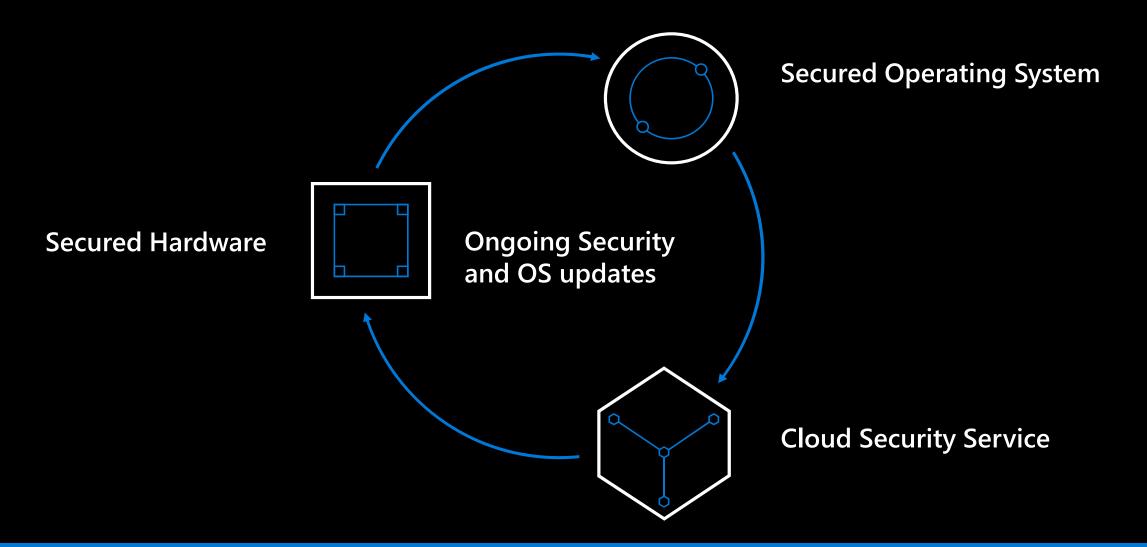




Consumer



Microsoft Azure Sphere



Over 10 years of security and OS updates delivered directly to each Azure Sphere device by Microsoft

Empowering every organization on the planet to create trustworthy IoT devices

Azure Sphere





Soren LAU

General Manager IoT Sales EMEA





Digital transformation

Tech intensity = (Tech adoption x Tech capability)^{Trust}

70%

Top 5 technologies

organizations are using

to achieve tech intensity

Internet of Things

3700

✻

Machine Learning

3<u>9</u>%

8

Artificial intelligence

32%

< **२**9_%

Blockchain

27%

Mixed Reality

Digital transformation through tech intensity

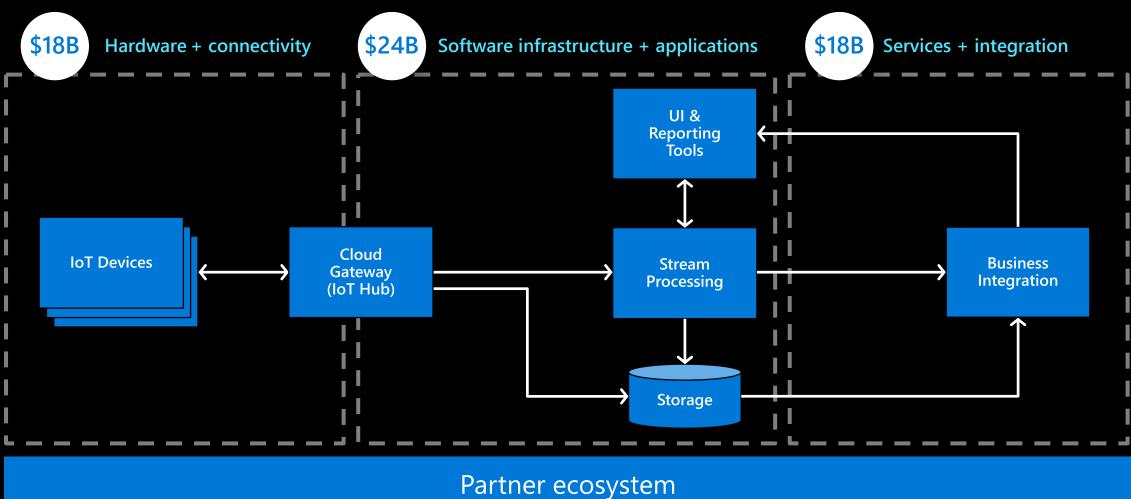
> Leading with **IoT** engagements

37%

Percentages represent all organizations surveyed. The State of Tech Intensity 2019 Study, conducted by YouGov.

Blueprint to profitability

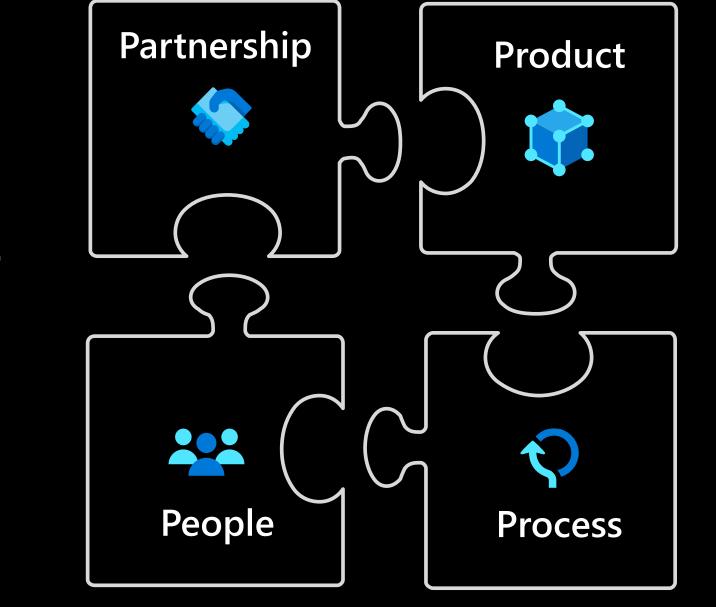
2020 \$60B IoT market





How can any entity profit from their data and cloud platform?

What is the secret to successful implementation?



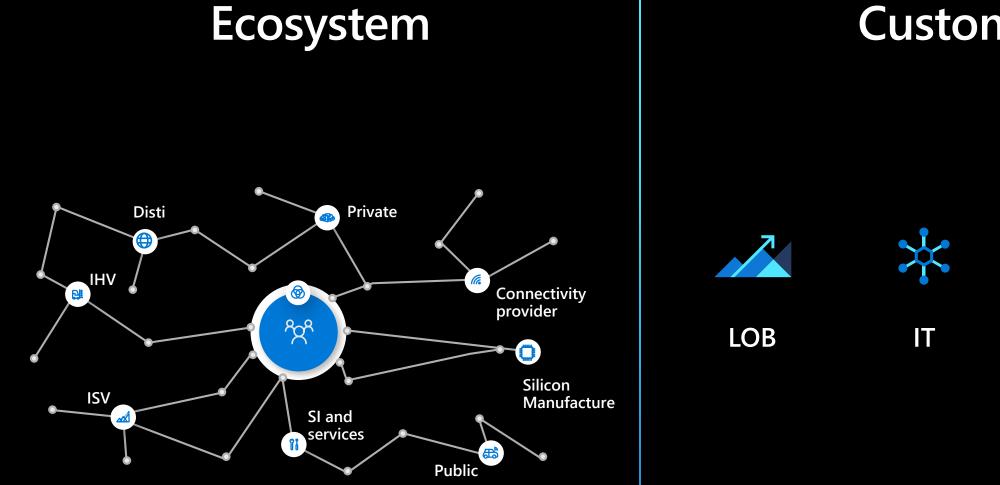
Success in IoT



Partnership

Transforming IoT data into meaningful and actionable information is not one size fits all. That's why having a **diverse global partner ecosystem** combined with domain expertise across industries is an imperative. It's how we solve unique challenges with unique solutions....

SIEMENS



Customer

Strategy for ecosystem Build, Buy, Partner



Microsoft Azure offers extraordinary power, performance and intelligence, and allows us to easily do things with machine learning, edge computing, and artificial intelligence that would be much more difficult otherwise.

— Gary Slater, Digital and Data Science Architect



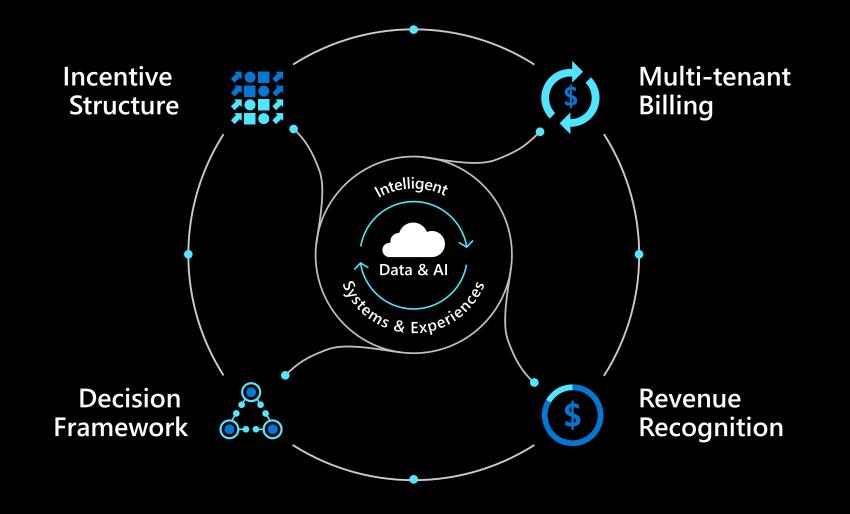


We emphasize collaboration, using realtime data to make it easier for people to work together as a team and achieve better results in less time. And because we're using Microsoft Azure, we can offer global collaboration, so our customers can use it on **any site or in any country** and every user is on the same database.

— Sebastian Spindler
Key Account & Partner Manager



Process



People

Culture was the key for us. Our CEO had to ensure that **every single leader** was on the same page on what we were trying to accomplish

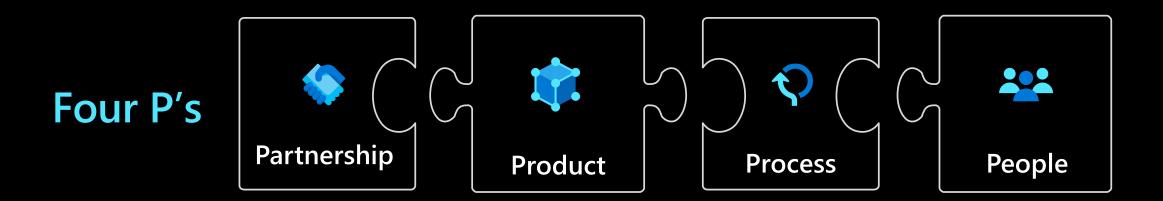
PCL

Embrace Transformation

Lead with growth mindset

Drive long term vision

Tech intensity = (Tech adoption x Tech capability)^{Trust}





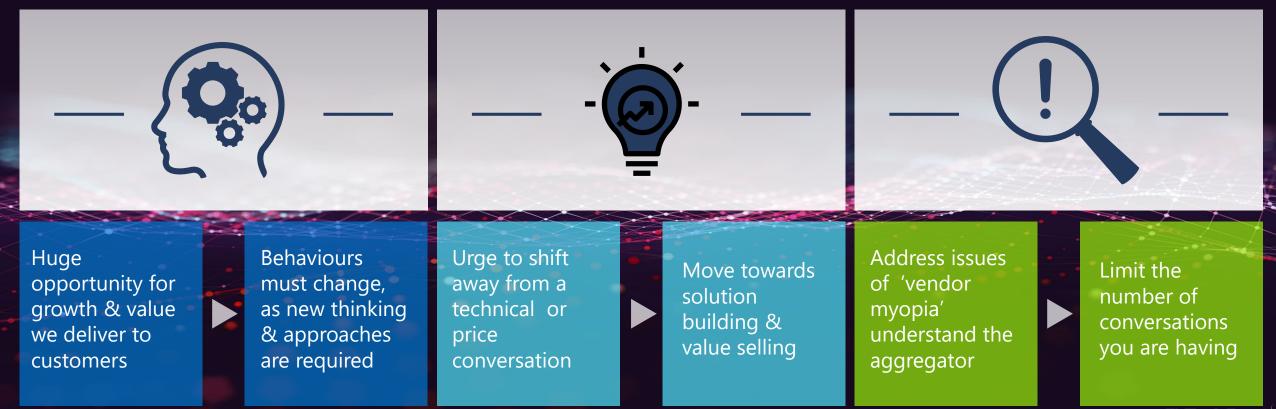
To get there together

Rethinking the part you play for your customers

Abel Smit – Tech Data



The current climate



The Tech Data approach



Understand business value that can be delivered for simple issues many companies have Create a catalogue of repeatable solutions in our solution factory that can be sold many times

Help Tech Data customers decode the business of Analytics & IoT

Bucher Vaslin – Connected wine press





We enable partners through our practice builder program



Sponsored and supported by leading vendors



Gain skills and knowledge from industry experts & business strategy workshops



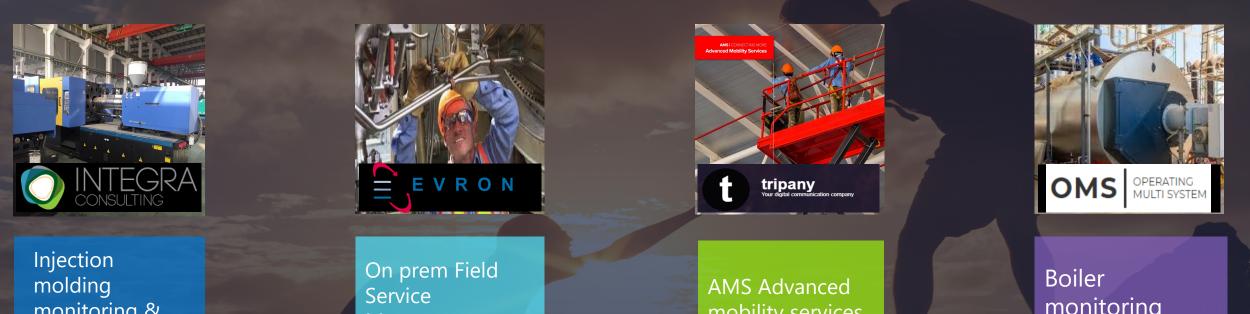
Truly understand the business practice of Analytics & IoT



Technical training, certification, demonstration labs & presales support

アTechData

Couple of solutions out of practice builder, ready for prime time!



molding monitoring & analytics solution (automotive) On prem Field Service Management solution migrated to Azure

AMS Advanced mobility services for equipment rental firms Boiler monitoring solution for the energy sector

It's about finding the right people, with the right abilities, in the right place, at the right time



Looking forward

Start the conversion now with us and with Microsoft Tech Data will support you in your relevant industry and use case Get the most of our practice Builder Program



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