

O in Action

#IoTinActionMS

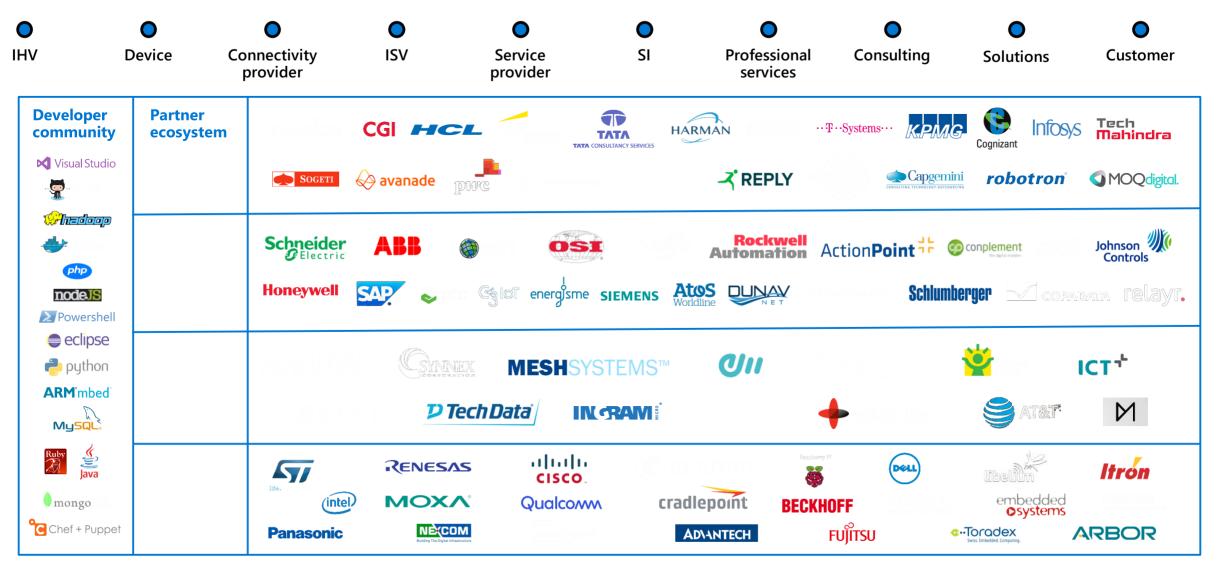


Unlocking IoT's Potential

Charlie Grabiaud, Maarten Struys, Nicolas Vasseur, Giovanni Gatto IoT Sales & Technical Specialists Microsoft



Azure IoT ecosystem momentum



Industrial IoT leadership



MindSphere Ability PlantWeb EcoStruxure FactoryTalk Sentience Yokogawa's IIoT Platform Leonardo Armstrong

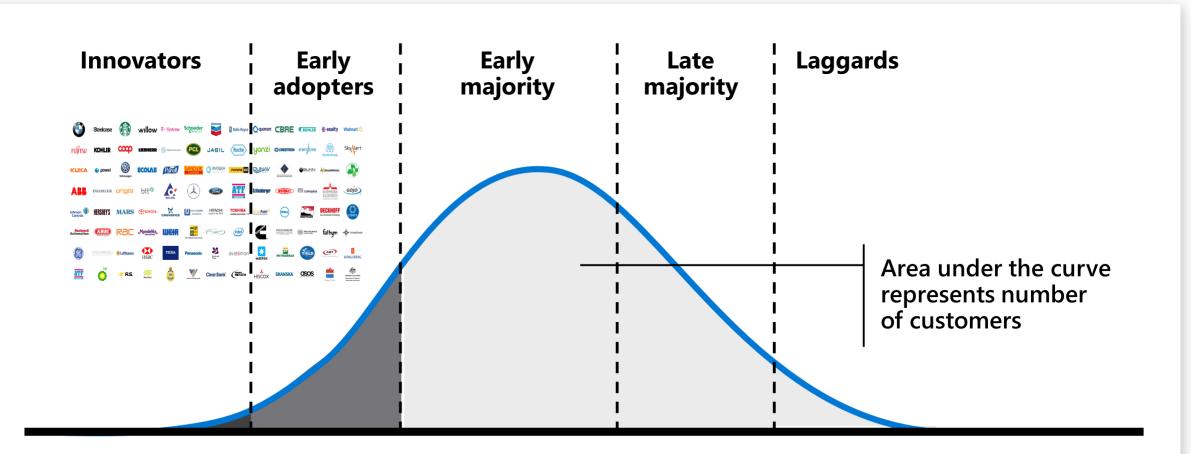


Energy DC MarketScape Worldwide IIoT Platform in Energy

Thousands of Azure IoT customers

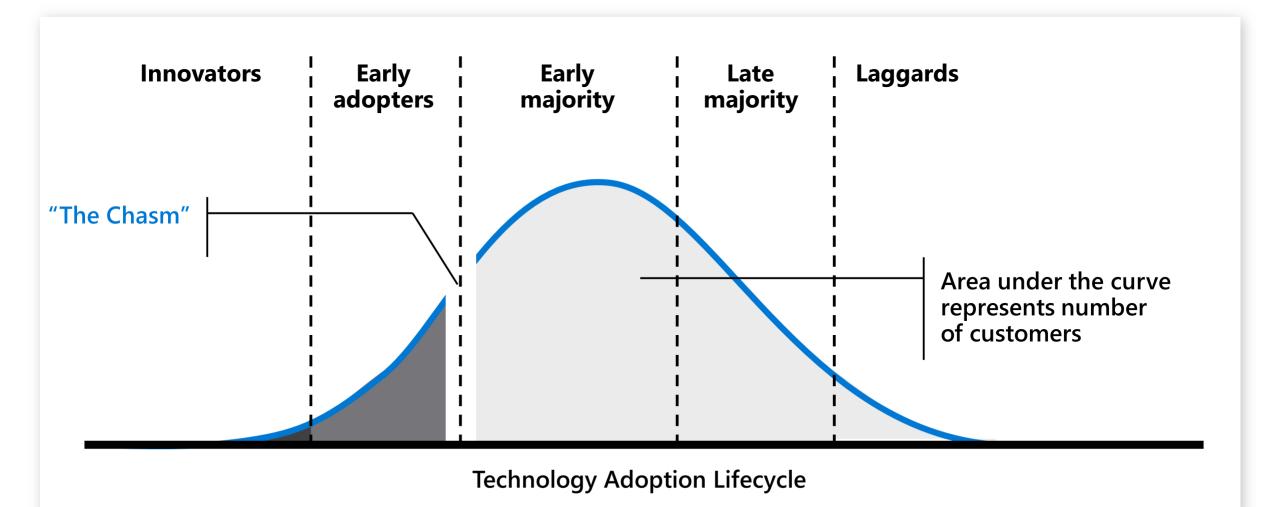


Technology adoption lifecycle

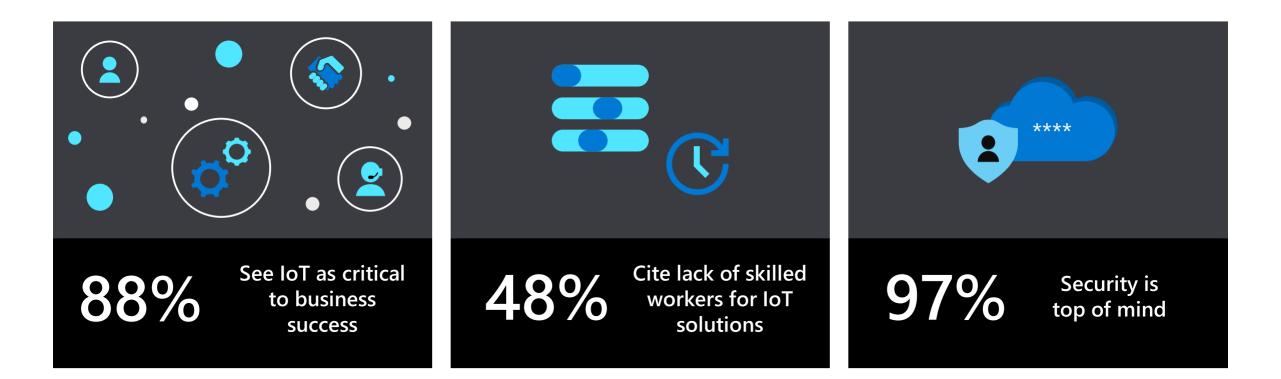


Technology Adoption Lifecycle

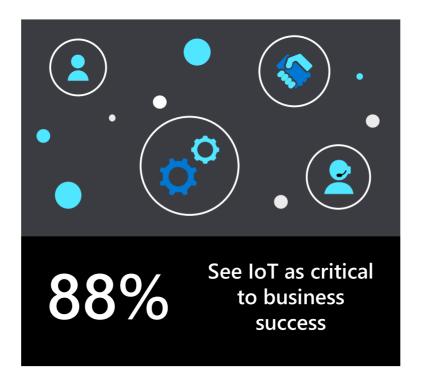
IoT is crossing the chasm and going mainstream



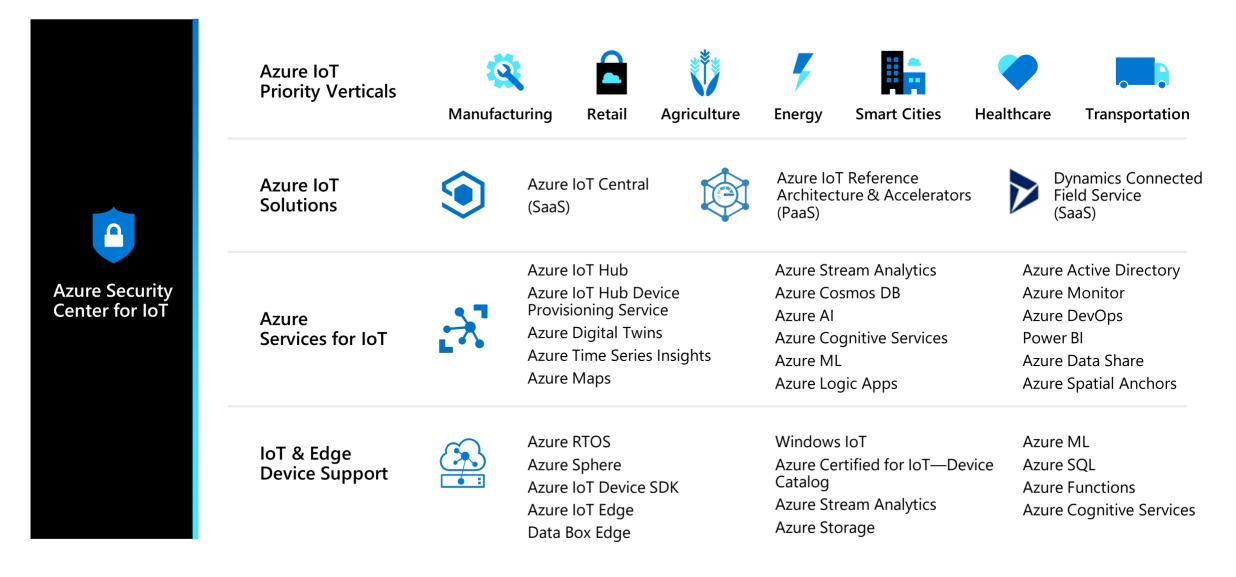
What we learned from customers in our IoT Signals survey



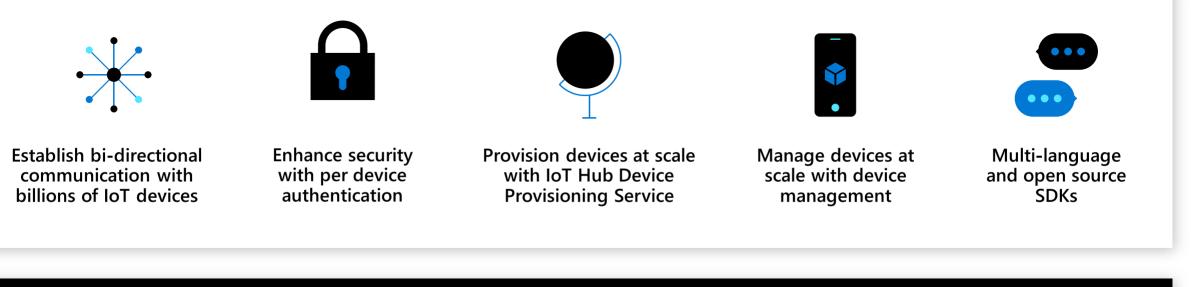
The need for comprehensive IoT services



Microsoft's comprehensive IoT product portfolio







Connect, Manage and Monitor millions of devices at scale









Azure IoT Edge

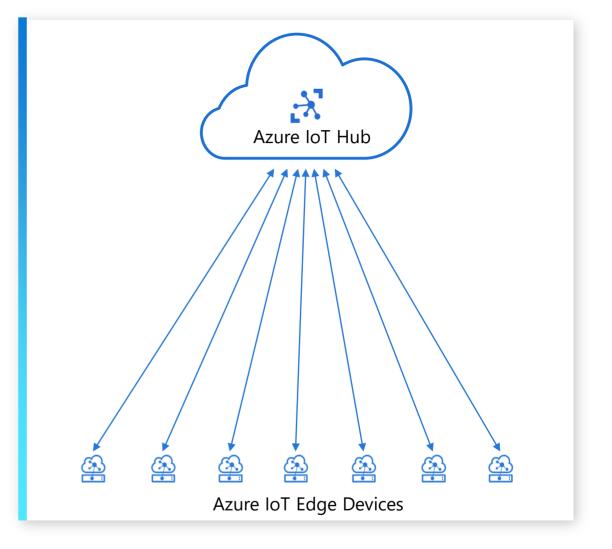
Run Azure AI, Azure Services & Custom Services directly on IoT devices

Azure IoT Edge

NEW

- Open source, cross platform, container-based edge runtime
- Run Azure services & your own code on IoT class and larger devices fully extensible
- Manage the devices and IoT Edge workloads centrally
- Supports offline operation
- Fully Visual Studio + Visual Studio Code developer support
- Azure DevOps + Jenkins CI/CD support

• Over 80 Azure Certified for IoT, 3rd party IoT Edge devices





Cognitive Services at the Edge DEMO

Maarten Struys Sr. IoT Technical Specialist





Microsoft's comprehensive IoT & Edge offerings



Microcontroller Azure RTOS & Azure Sphere

Integrated Circuit designed to govern a specific operation in an embedded system Highly-secured, connected MCU Azure Sphere Linux OS for modern MCUs Included Azure IoT Device SDK

IoT Devices Azure IoT Device SDK

Endpoint devices such as appliances, vehicles, or factory machines that connect, interact and exchange data 1300+ devices, 300+ partners - all certified to work great with Azure IoT Services Cross-platform and open source: Windows IoT, Linux, Android, iOS, RTOSs and more

Edge Devices Azure IoT Edge

Devices that aggregate, process & provide gateway capabilities for IoT endpoints Deploy and manage Azure Services in containers on any IoT device AI, AzureML, Azure Stream Analytics and more Cross-platform and open source: Windows IoT, Linux

Edge Appliances Azure Stack Edge

Integrated appliances that provide a subset of cloud edge roles, such as MLinferencing Azure Stack Edge: AI-Enabled, Storage and compute Azure Edge appliance

Edge Stack Azure Stack Hub

Scalable solutions that provide a full cloud stack, including laaS and PaaS capabilities Edge and Disconnected Scenarios Regulatory Requirements Cloud app model onpremises

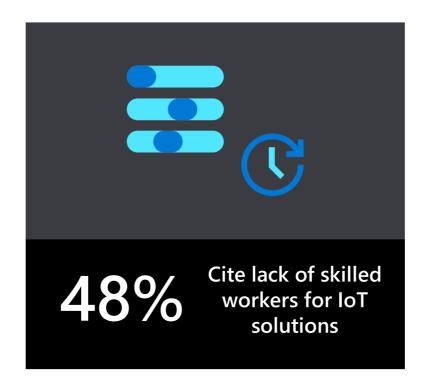
Hyperscale Cloud Edge Regions

First-party cloud regions Full Range Hyperscale Cloud Services Tiered Service availability: Heroes > Hubs > Satellites Open Source Based Services & Tools

Most specialization

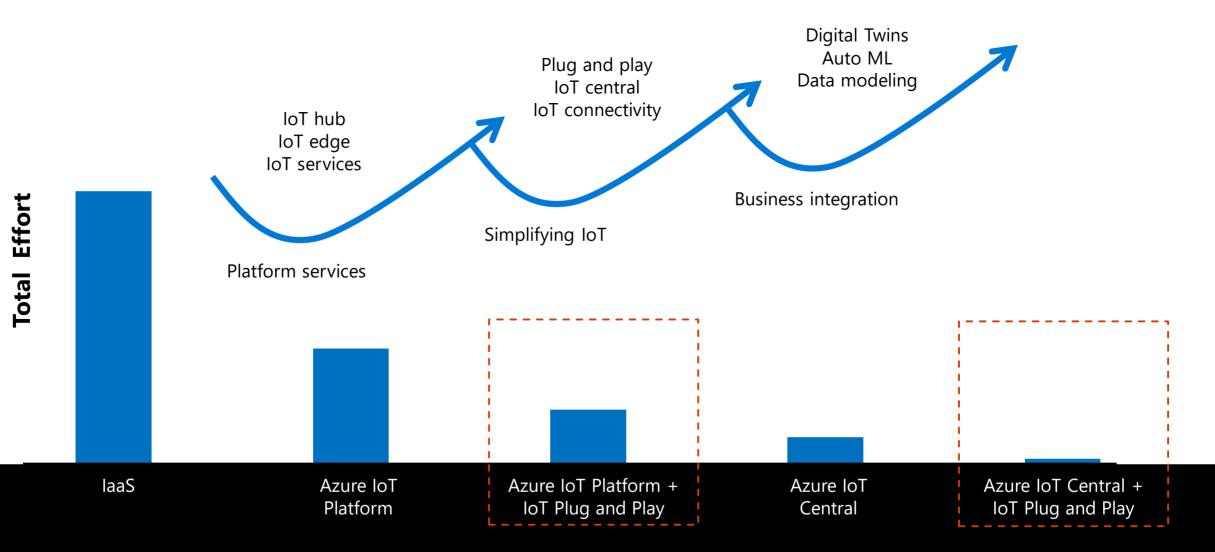
Full Spectrum of Cloud + Edge Form Factors

The need for solutions that enable rapid application development without cloud development skills



Accelerating IoT adoption

The total effort to build and operate an IoT Solution is rapidly decreasing

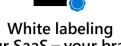


IoT Central

A fully managed IoT app platform



App templates for Industry Verticals



your SaaS – your brand



Azure IoT Edge support



Multitenancy

Support



Support



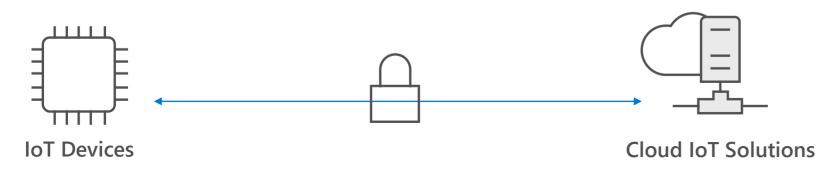
Play Support



New 2-tiered pricing model announced, based on message volume

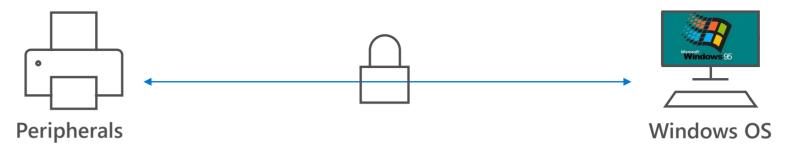


IoT Plug and Play – IoT Today



Tight coupling between software on device and IoT solution in the cloud







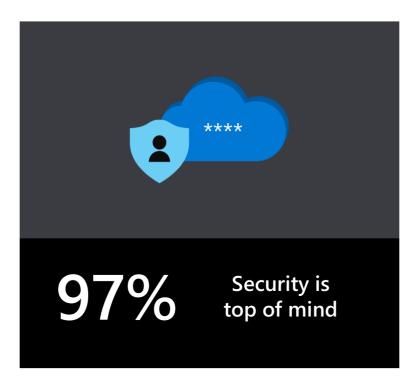
Unlocking IoT's Potential DEMO

Nicolas Vasseur IoT Technical Specialist

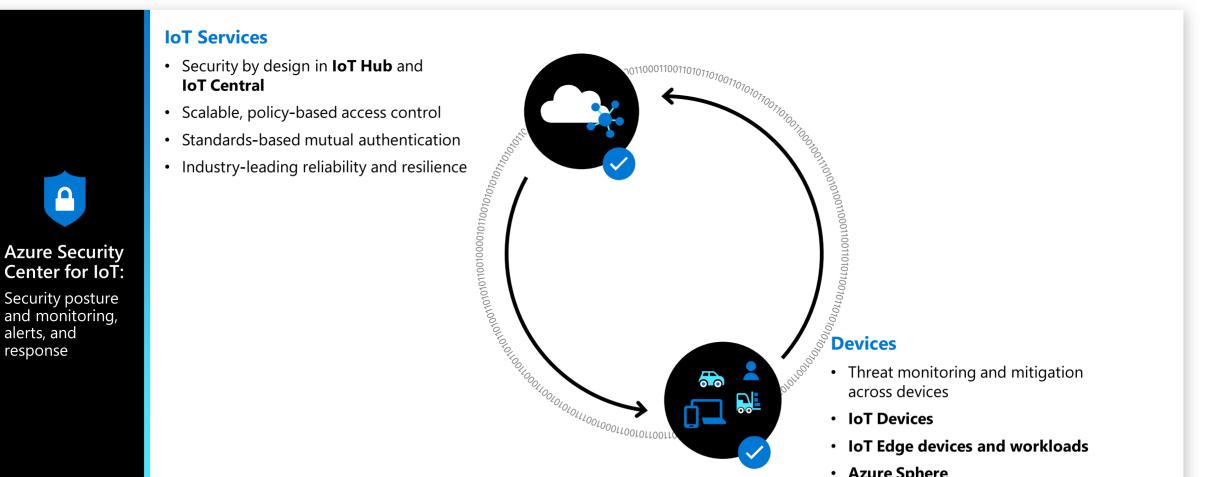




The need for turnkey IoT security solutions



Protect all your IoT assets from threats



Azure Sphere



Azure Security Center for IoT

- Visibility into security posture and state of your IoT Solution
- Single pane of glass to manage IoT and hybrid cloud security infrastructure
- Actionable, prioritized alerts to respond to any potential compromises of your IoT solution
- ✓ Integrate with Azure Sentinel or other SIEMs to streamline threat mitigation
- Define custom alerts based on advanced queries

Home > rtogm-hub - Overview		
rtogm-hub - Overview		
O Search (Ctrl+/) Secungs	« Threat prevention	
 Shared access policies Pricing and scale IP Filter Certificates 	Device recommendations	Health monitoring Hubs 612 Devices
Built-in endpoints Properties Locks	56 Unhealthy Devices	18 Resources
Export template Explorers	Threat detection	
Query explorer IoT devices	Device security alerts 600 600 233 400 Madur	5
Automatic Device Management	200 0 80	0
IoT Edge R IoT device configuration	24 Sun 3 Sun 10 Sun 17 Sun 1444	vetry 24 Sun 3 Sun 10 Sun 17 Sun 2 C
Messaging		
 File upload Message routing 		
Resiliency		
Manual failover (preview)		
0 Overview		
Security Alerts		
Recommendations		
📚 Resources		
🚯 Custom Alerts		

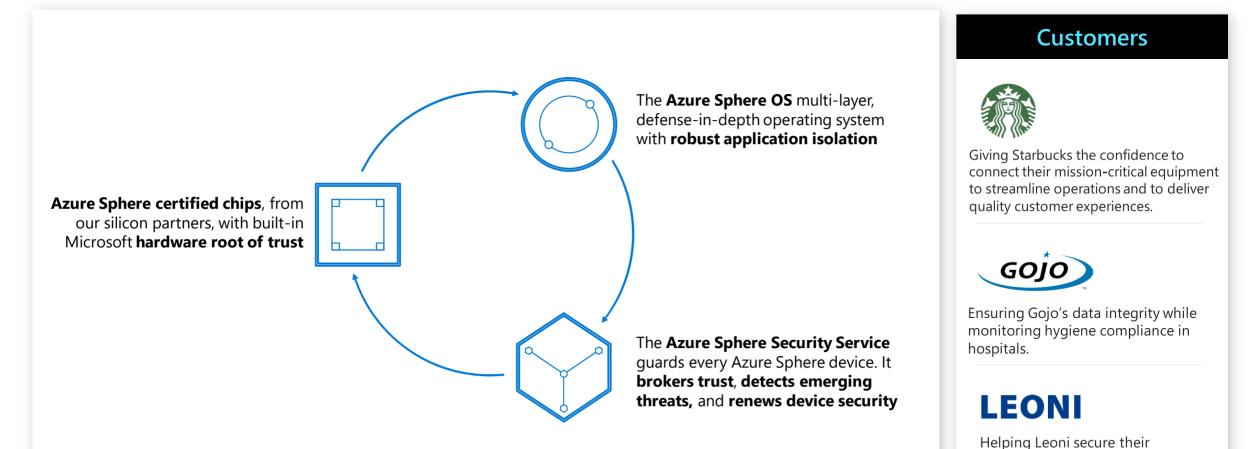


intelligent cable systems that

manage energy and data

Azure Sphere

An end-to-end solution for securing IoT devices. Integrated hardware, software, and cloud services work seamlessly together and deliver active security by default.

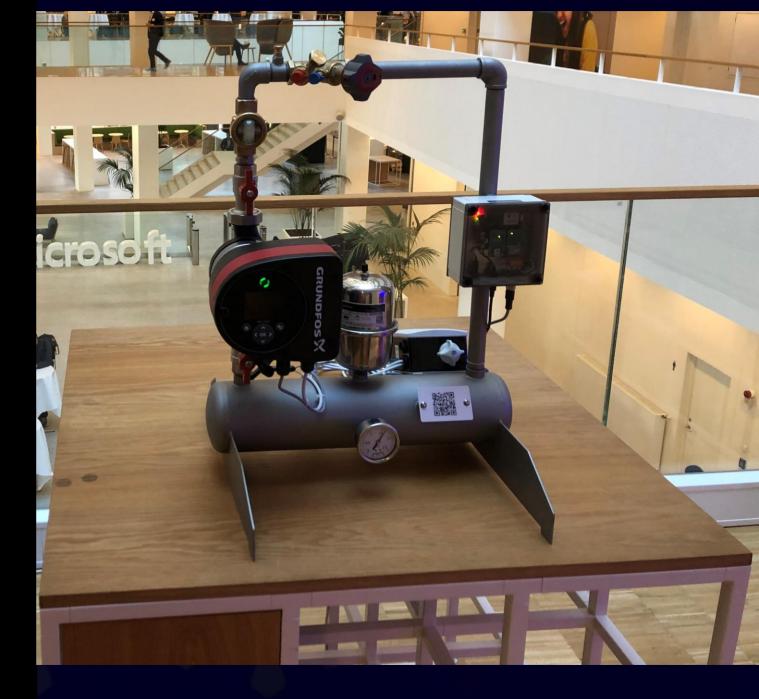


Ongoing servicing with over 10 years of security and OS updates delivered directly to each device by Microsoft



Unlocking IoT's Potential Q&A

Giovanni Gatto Azure Sphere Specialist





Thank you