Microsoft

IoT in Action

Microsoft

Unlocking IoT's Potential

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IoT in Action

IoT is a Business revolution fueled by Technology

billion connected
devices by 2020
— Gartner

**million/
hour**
new devices
coming online

IDC
80 zettabytes of
digital data by 2025

How can I quickly generate business insights
from sensor values?

How can I support my line of business with
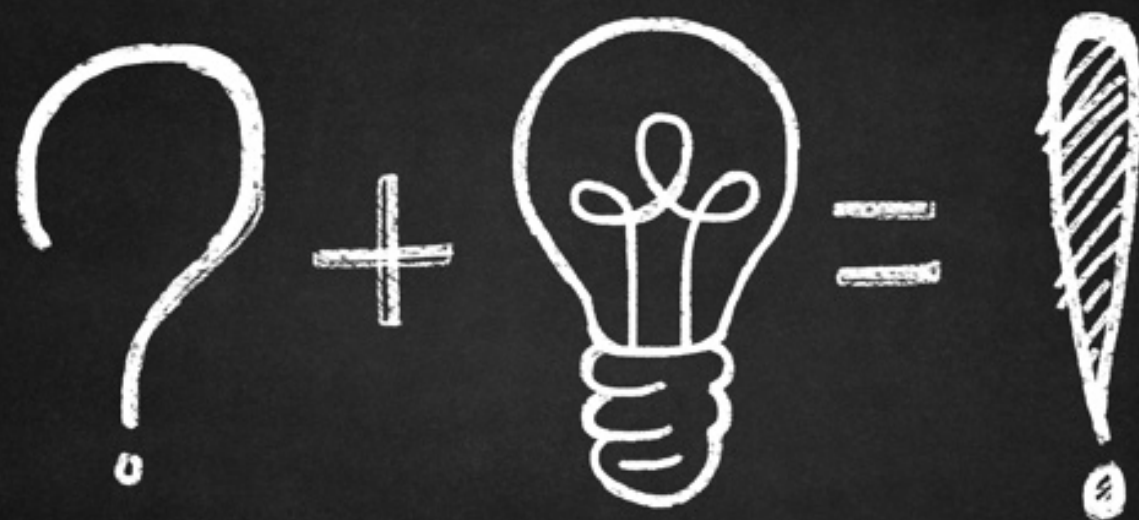intelligent automation?

How can I integrate existing IoT data into
my business processes?

How can I use IOT data to develop custom
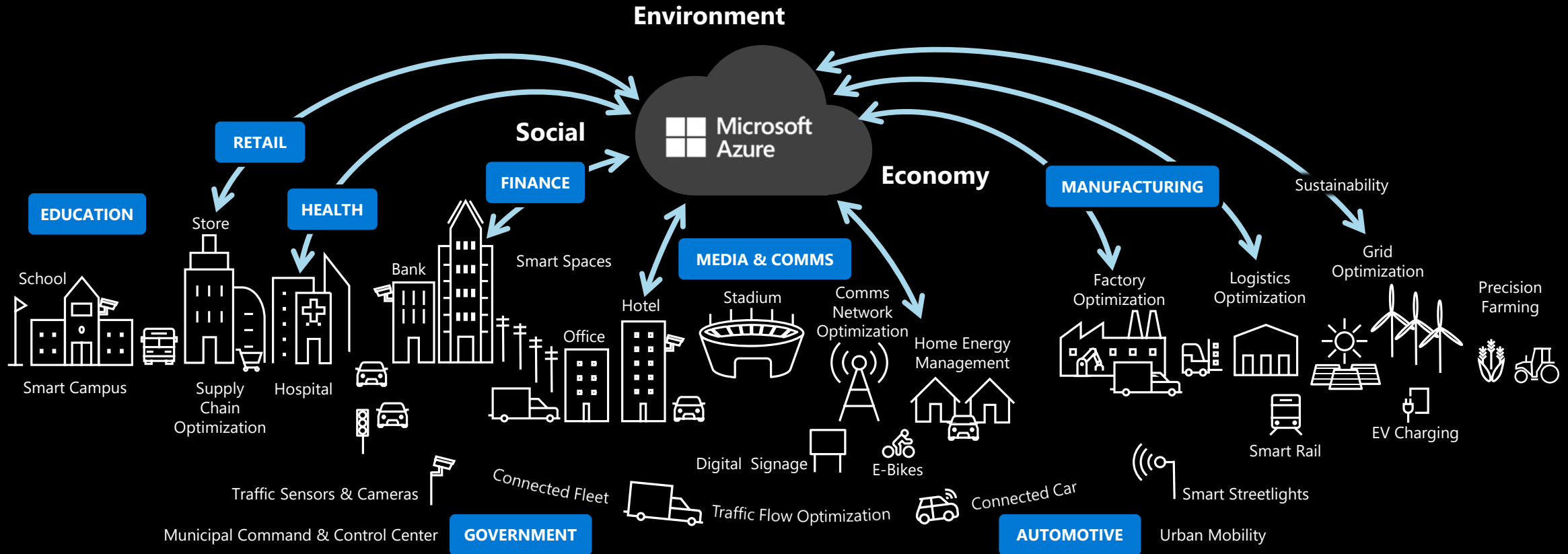IoT-enabled business applications?

How can I drive my business decisions based
on real-time sensor data?

How can I integrate sensors and devices
from different vendors?

How do I make sense out of time series data?

Microsoft invests $5 billion in IoT

Our goal is to give every customer the ability to transform their businesses
From "simplifying IoT" to "democratizing IoT"

Azure: Just where our Customers are

Global

55 Azure regions

Largest geographical footprint of any cloud provider with more than **55** Azure regions

Secure

Microsoft Cyber Defense Operations Center

>3,500 full-time security professionals

6.5 trillion global signals daily

$1 billion annual cybersecurity investment

Compliant

91 Compliance offerings

GLOBAL
- ISO 27001:2013
- ISO 27017:2015
- ISO 27018:2014
- ISO 22301:2012
- ISO 9001:2015
- ISO 20000-1:2011
- SOC 1 Type 2
- SOC 2 Type 2
- SOC 3
- CIS Benchmark
- CSA STAR Certification
- CSA STAR Attestation
- CSA STAR Self-Assessment
- WCAG 2.0 (ISO 40500:2012)

U.S. GOVT
- FedRAMP High
- FedRAMP Moderate
- EAR
- ITAR
- DoD DISA SRG Level 5
- DoD DISA SRG Level 4
- DoD DISA SRG Level 2
- DFARS
- DoE 10 CFR Part 810
- NIST SP 800-171

INDUSTRY
- PCI DSS Level 1
- GLBA (US)
- FFIEC (US)
- Shared Assessments (US)
- SEC 17a-4 (US)
- CFTC 1.31 (US)
- FINRA 4511 (US)
- SOX (US)
- 23 NYCRR 500 (US)
- OSFI (Canada)
- FCA + PRA (UK)
- APRA (Australia)
- FINMA (Switzerland)
- FSA (Denmark)
- RBI + IRDAI (India)
- MAS + ABS (Singapore)
- NBB + FSMA (Belgium)
- AFM + DNB (Netherlands)
- AMF + ACPR (France)
- KNF (Poland)
- European Banking Authority (EBA)
- FISC (Japan)
- HIPAA BAA (US)
- HITRUST Certification
- GxP (FDA 21 CFR Part 11)
- MARS-E (US)
- NHS IG Toolkit (UK)

REGIONAL
- Argentina PDPA
- Australia IRAP Unclassified
- Australia IRAP PROTECTED
- Canada Privacy Laws
- China GB 18030:2005
- China DJCP (MLPS) Level 3
- China TRUCS / CCCPPF
- EU EN 301 549
- EU ENISA IAF
- EU Model Clauses
- EU – US Privacy Shield
- GDPR
- Germany C5
- Germany IT-Grundschutz workbook
- India MeitY
- Japan CS Mark Gold
- Japan My Number Act
- Netherlands BIR 2012
- New Zealand Gov CIO Framework
- Singapore MTCS Level 3
- Spain ENS High
- Spain DPA
- UK Cyber Essentials Plus
- UK G-Cloud
- UK PASF

IoT solution principles

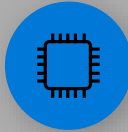## Cloud
Globally available, unlimited compute resources

IoT
Harnessing signals from sensors and devices, managed centrally by the cloud

Intelligent Edge
Intelligence offloaded from the cloud to IoT devices

Artificial Intelligence
Breakthrough intelligence capabilities, in the cloud and at the edge

Business Value

Transform your business with Azure IoT

Comprehensive
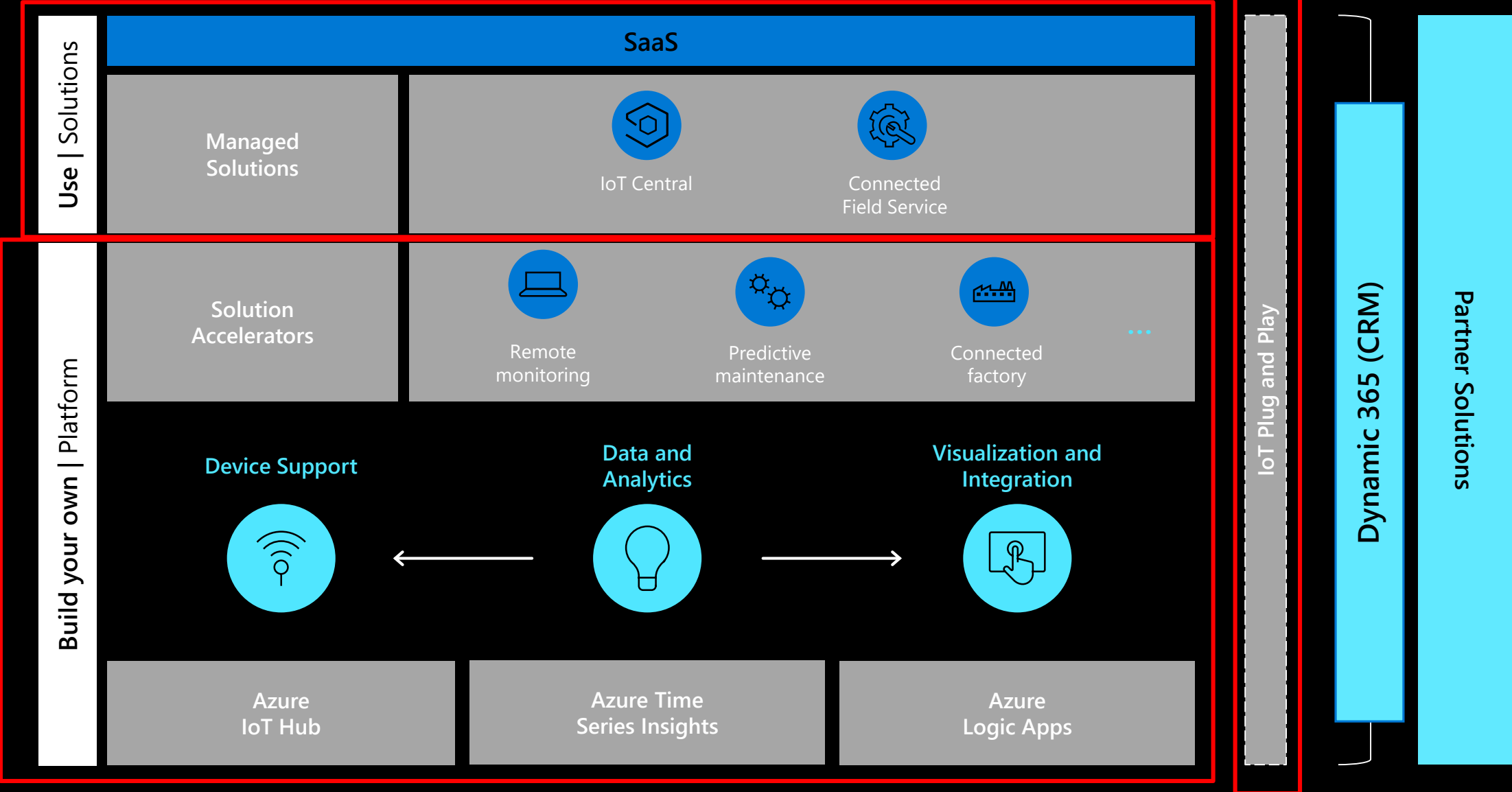Broadest portfolio

Simple
Fastest time to value

Secure
Industry leading end-to-end

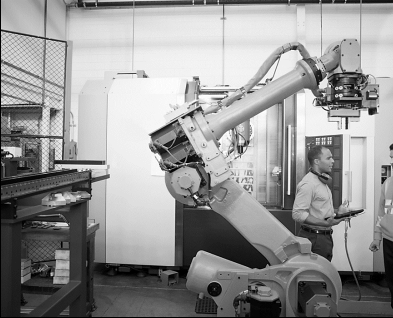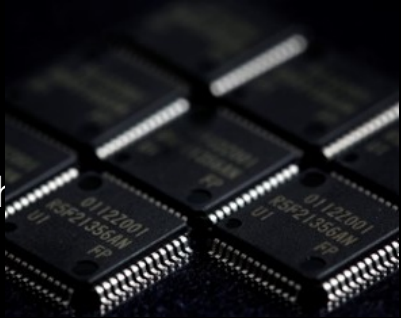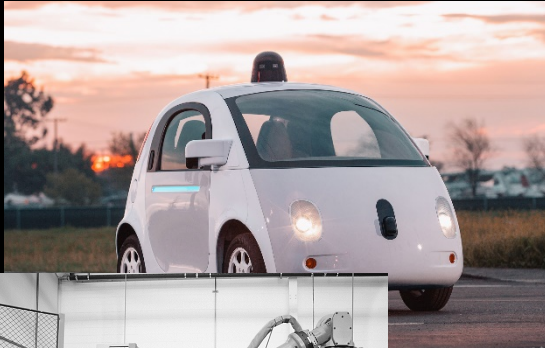Intelligent cloud | Intelligent Edge | Flexible and Secure Platform

Cloud Platform

Intelligent Edge

What is the Intelligent edge?

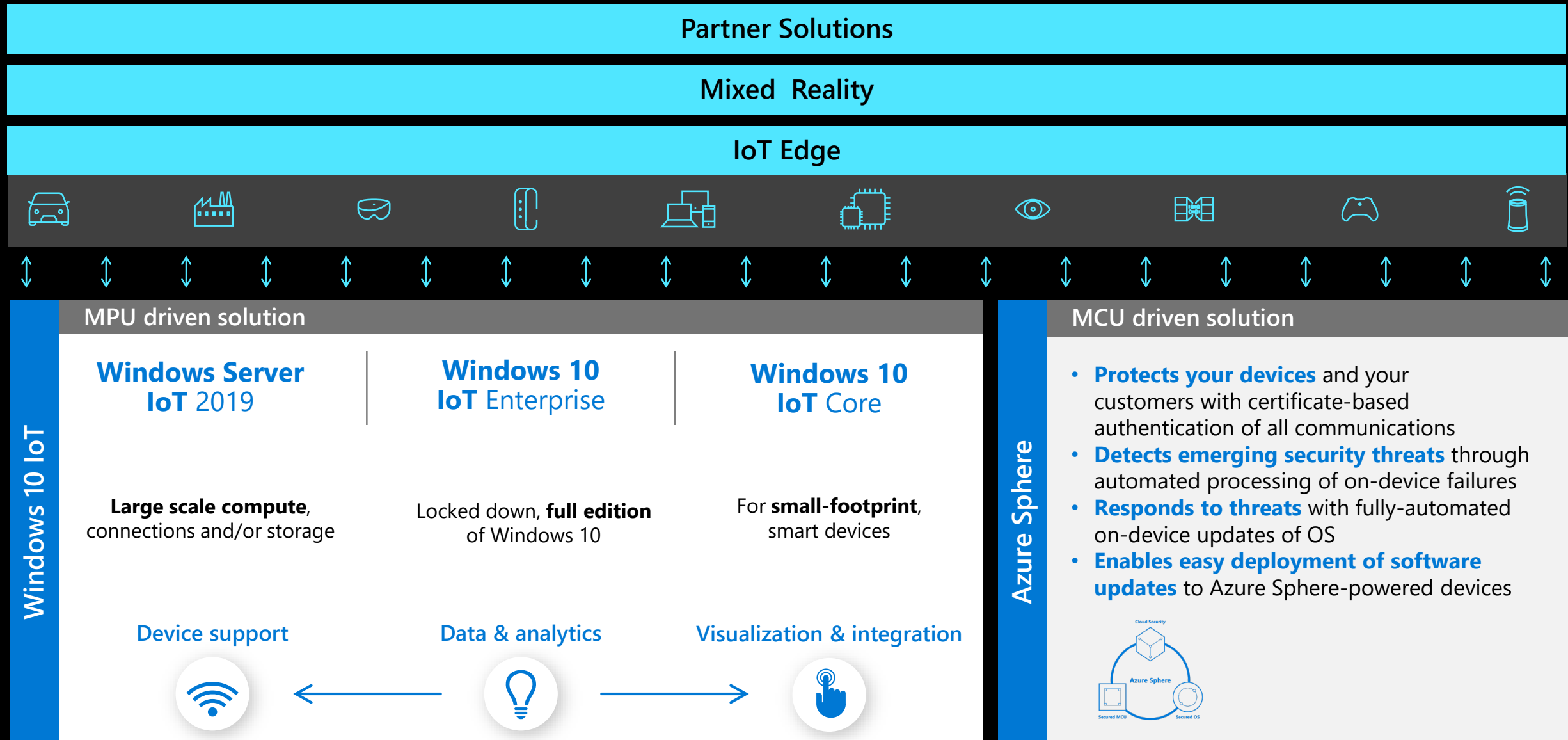| Devices + Sensors		Sensors to interactive	Integrated platform		Global scale processing
IoT devices Azure IoT Device SDK	**Device security** Azure Sphere	**Edge devices** Azure IoT Edge	**Edge appliances** Azure Stack Edge	**On-premises platform** Azure Stack Hub	**Hyperscale cloud** Edge Regions

Flexible and Secure Platform

Rich device platform to power the intelligent edge and beyond

Partner Solutions

Mixed Reality

IoT Edge

MPU driven solution

Windows 10 IoT

Windows Server IoT 2019

Large scale compute, connections and/or storage

Windows 10 IoT Enterprise

Locked down, **full edition** of Windows 10

Windows 10 IoT Core

For **small-footprint**, smart devices

Device support

Data & analytics

Visualization & integration

MCU driven solution

Azure Sphere

- **Protects your devices** and your customers with certificate-based authentication of all communications
- **Detects emerging security threats** through automated processing of on-device failures
- **Responds to threats** with fully-automated on-device updates of OS
- **Enables easy deployment of software updates** to Azure Sphere-powered devices

Cloud Security

Azure Sphere

Secured MCU   Secured OS

Why choose Microsoft?

Panel discussion: Cloud & Edge│Security│Windows IoT

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Vielen Dank!