



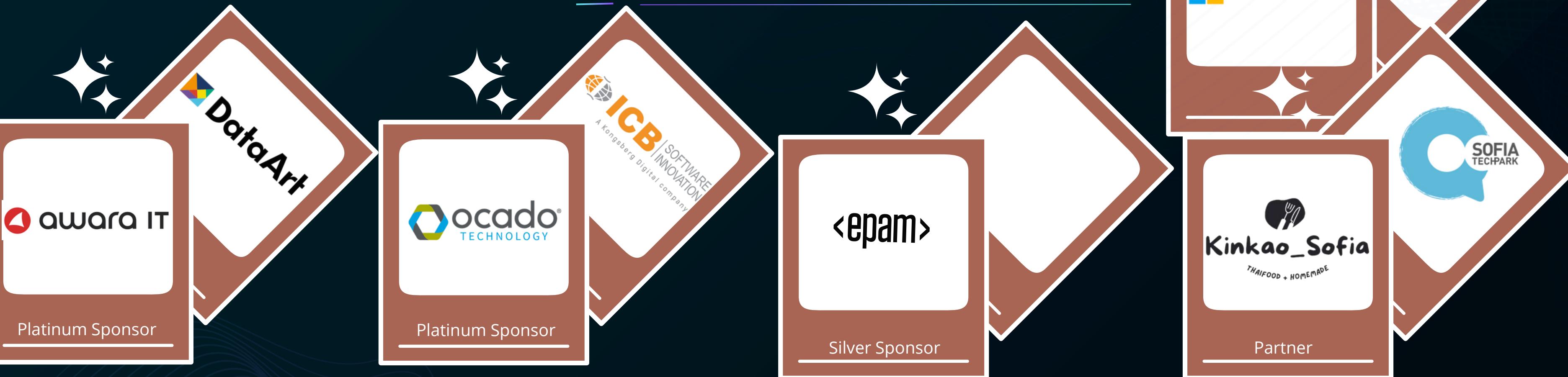
SOFIA INDUSTRIAL SUMMIT

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Azure IoT Services Episode IV: A new Hope

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Marco Dal Pino Tech consultant @Microsoft





Barriers to break through

Challenges to management, integration and scale

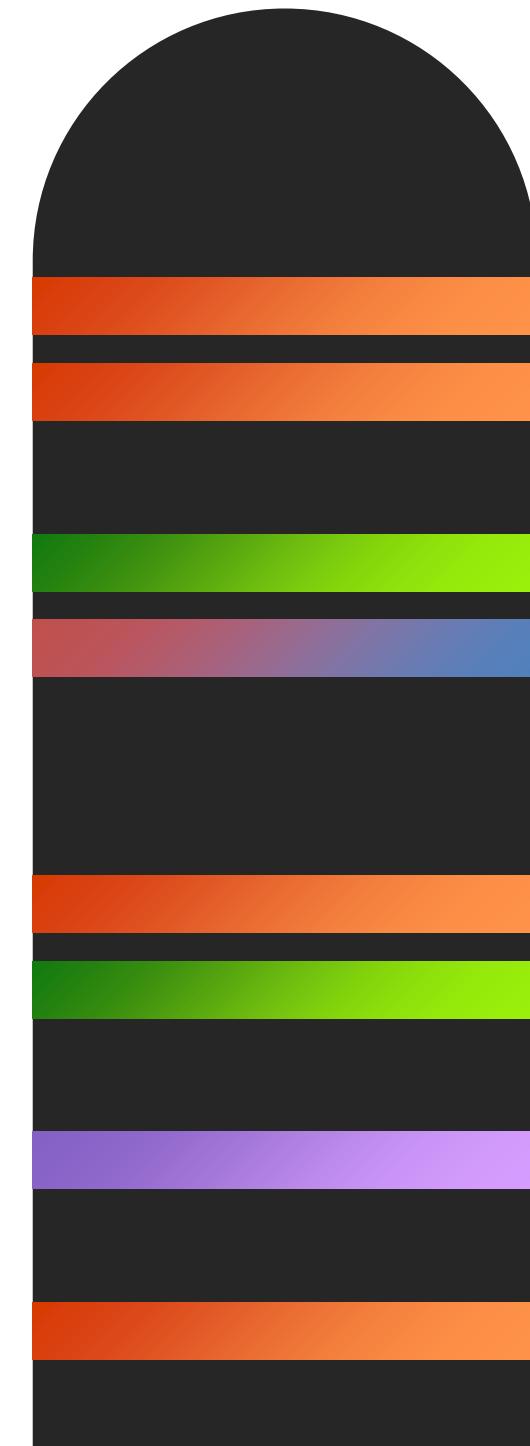
1 Onerous to manage



2 Complex to integrate



3 Time consuming to scale



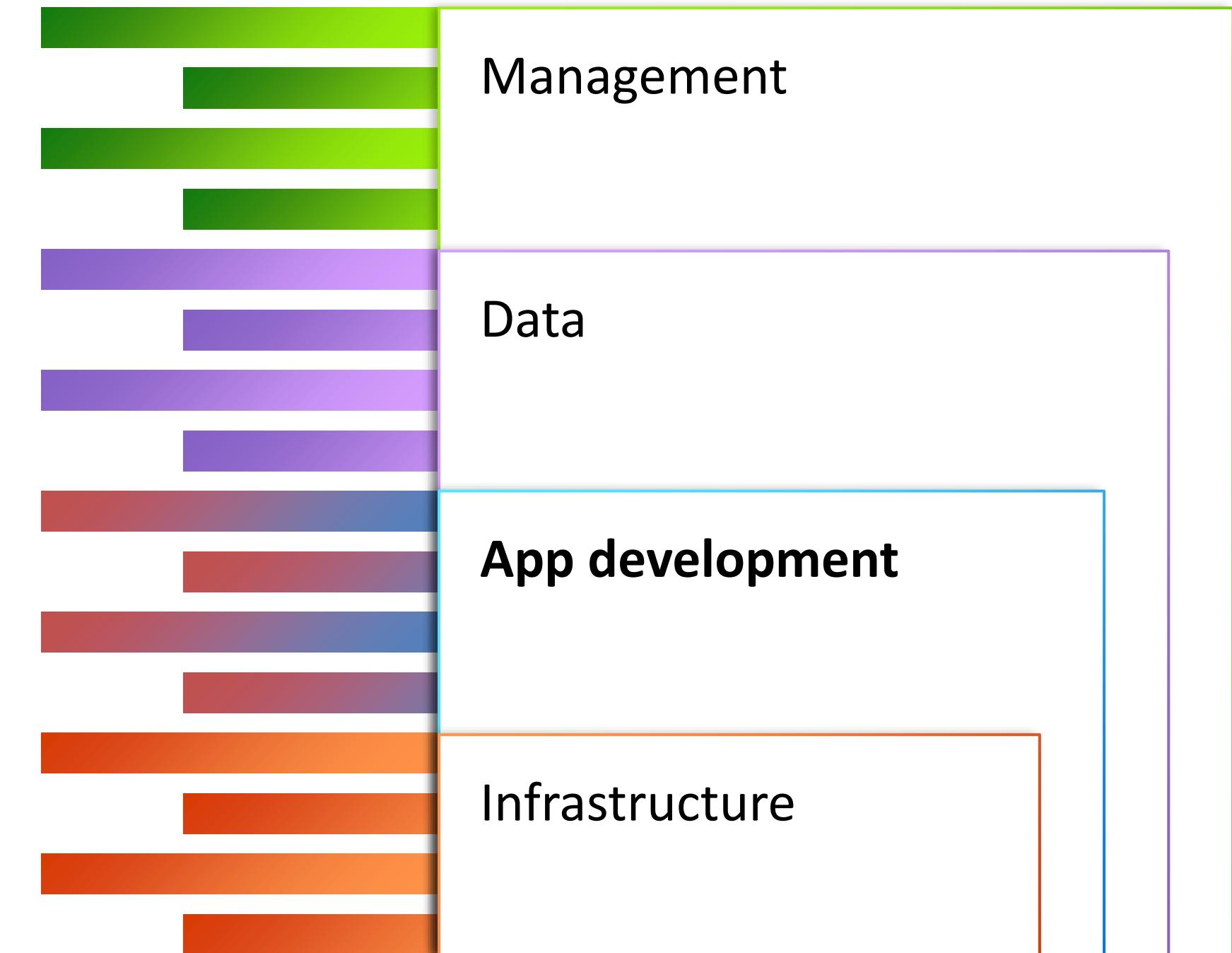
A unified cloud-to-edge approach

Key attributes that accelerate digital transformation

- 1 Single plane of security and governance**

- 2 Cloud-native agility at the edge**

- 3 Converged experiences across IT/OT**



Unify cloud-to-edge with Microsoft

Accelerate digital transformation

- 1 Single plane of security and governance**
- 2 Cloud-native agility at the edge**
- 3 Converged experiences across IT/OT**

Azure Arc

Azure IoT Operations

Microsoft Fabric

Azure
Kubernetes Service

Windows 11 IoT

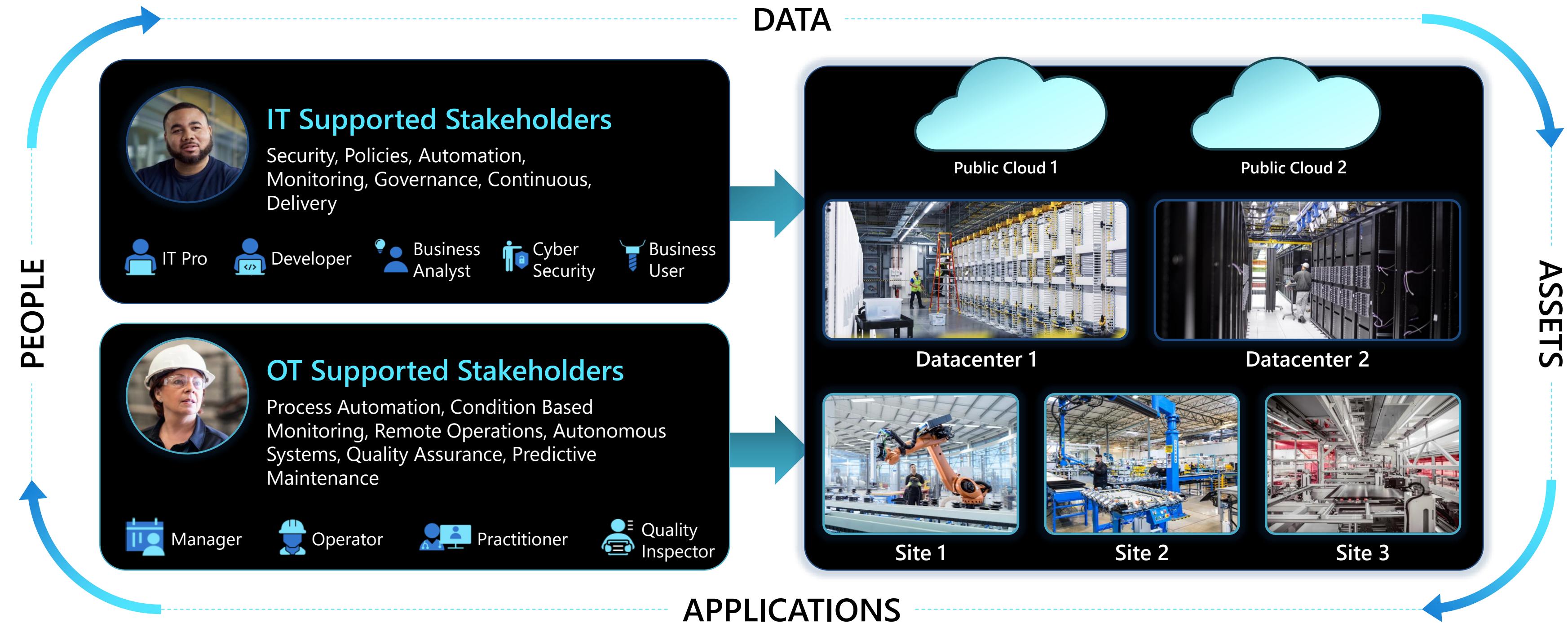
Azure Stack HCI

Transforming Physical Operations (Video)



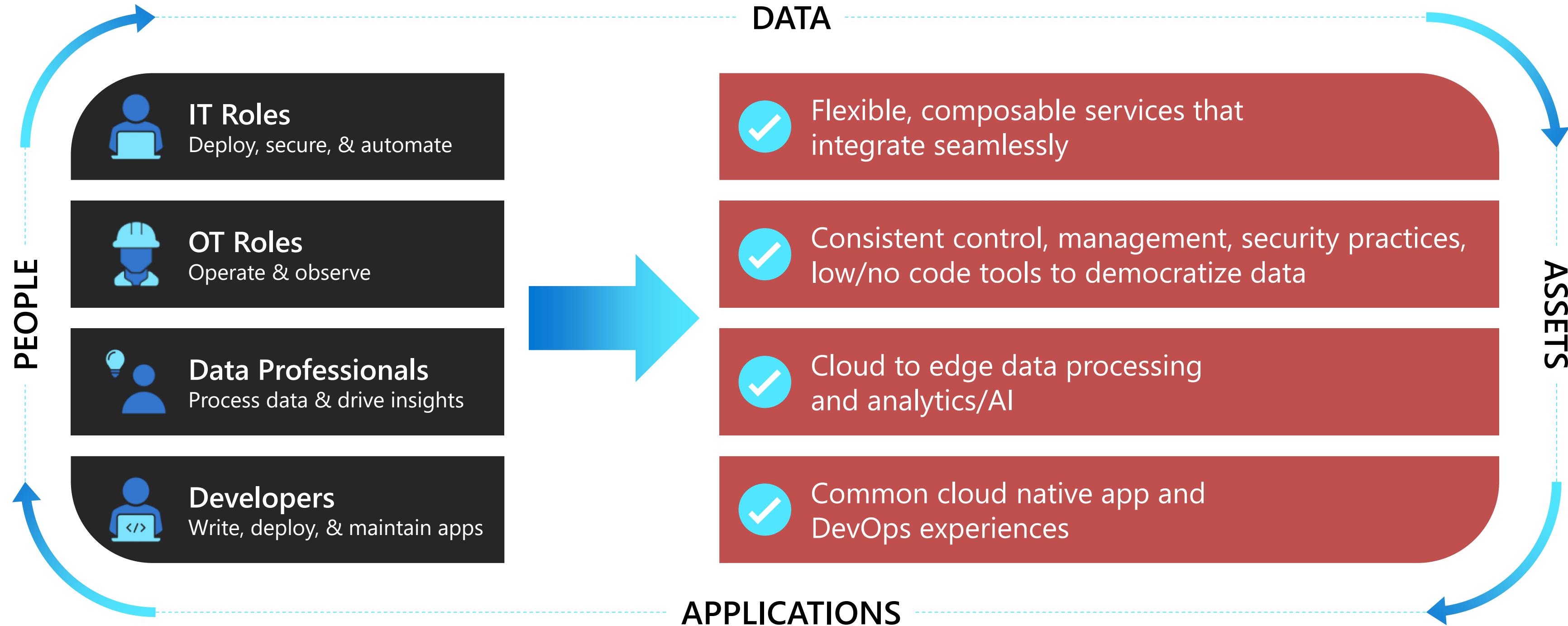
Achieving scale

From distributed environments to unified operations



Bringing it all together

Single control plane, cloud-native agility, converged experiences



Portfolio expansion for digital transformation needs

Managing devices and operations at scale

Existing

Connect devices to deliver new product offerings with expanded capabilities and user experiences

Remotely monitor, control, and troubleshoot large-scale fleets of devices (often millions)

Develop new hardware to enable end-user opportunities

Additional

Understand, operate & automate my factory, store, hospital, etc.

Consistently manage & control enterprise assets across numerous sites

Utilize existing and third-party hardware to enable my business

Azure IoT Portfolio

Existing



Azure IoT Hub



Azure IoT Edge



Azure IoT Central

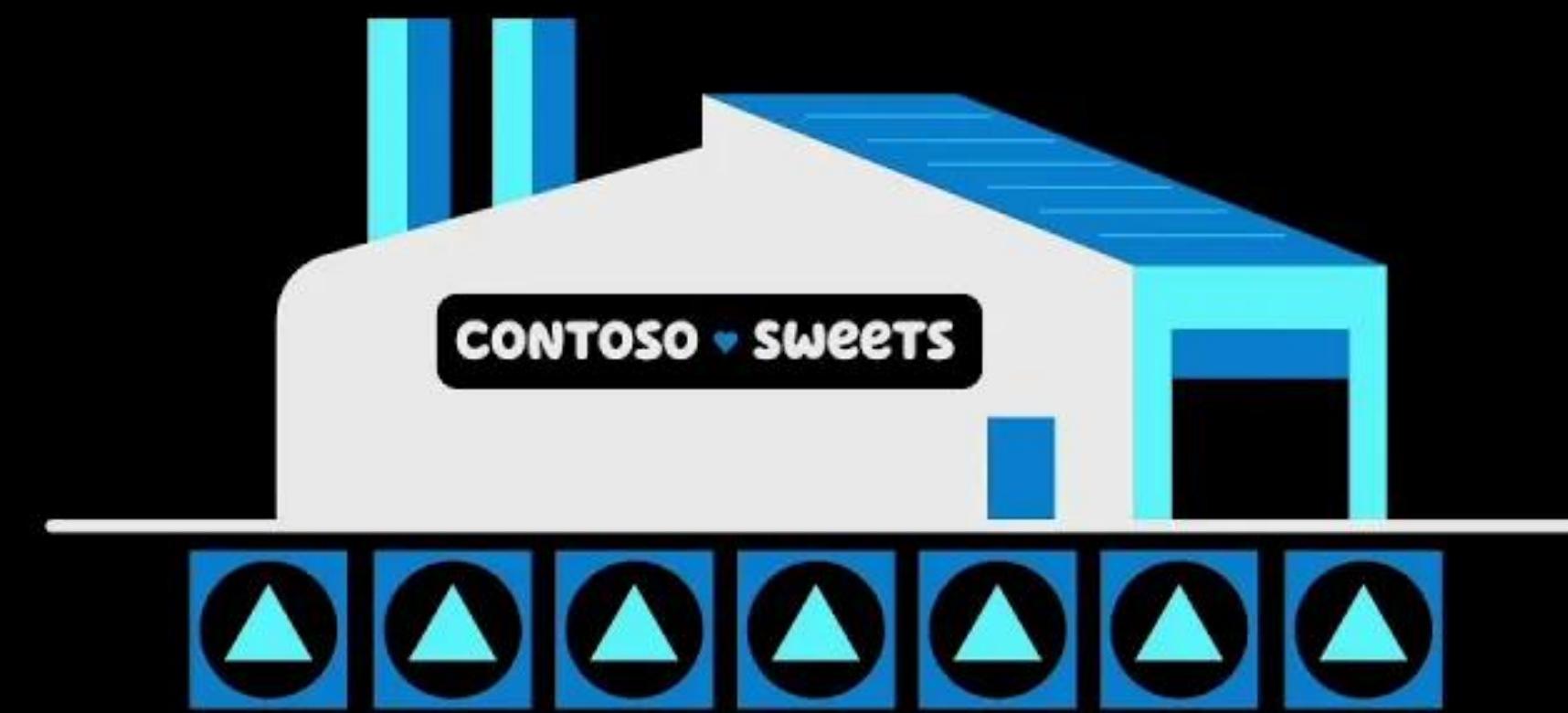


Device Provisioning Service

Additional



Azure IoT Operations



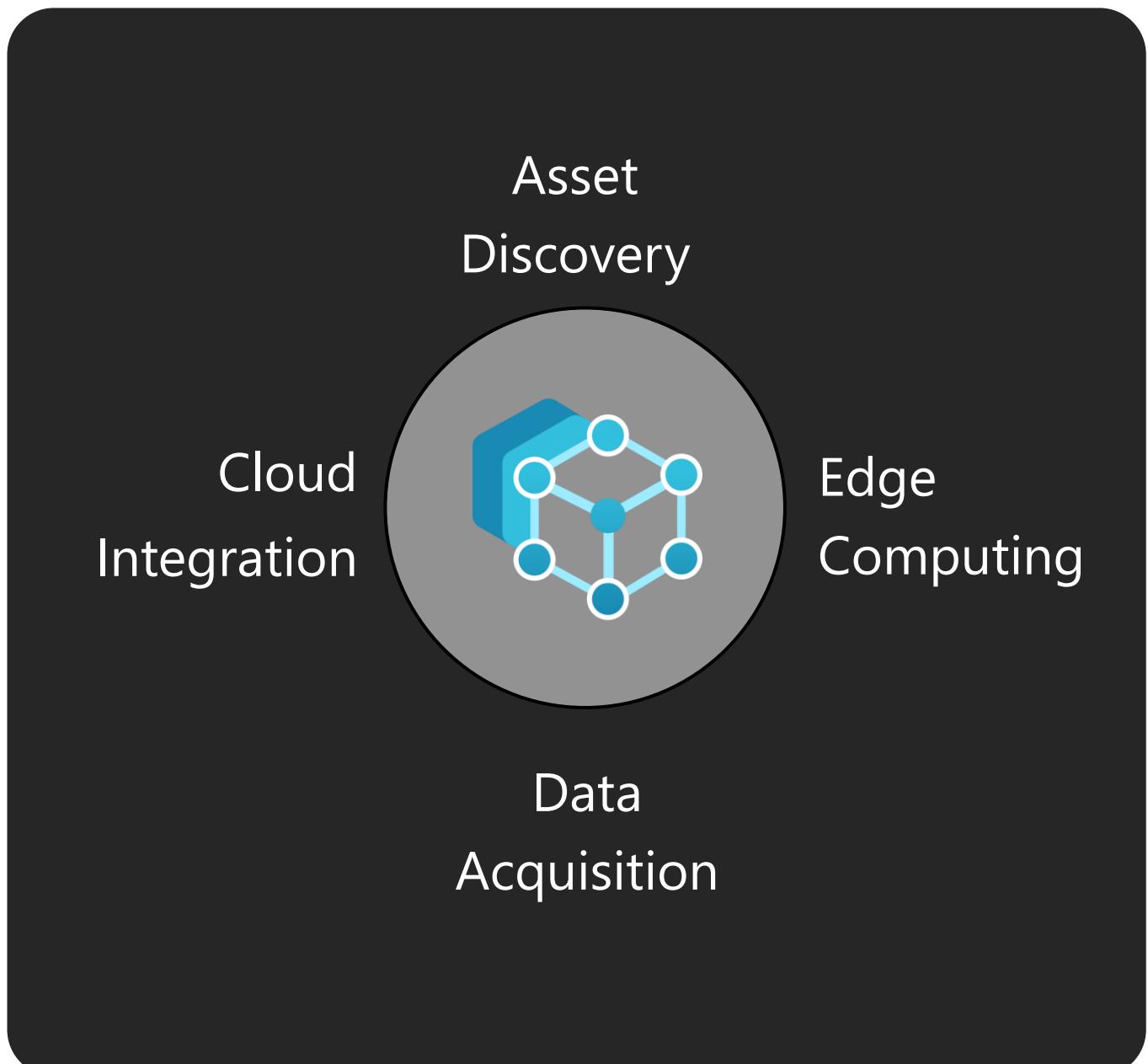
Azure IoT Operations

Azure IoT Operations

Transform Physical Operations

An industrial cloud to edge data and messaging plane, enabled by Azure Arc

- ✓ Unified management of equipment, infrastructure, and apps
- ✓ A seamless modular experience
- ✓ Interoperable services that streamline integration
- ✓ Democratized operational data
- ✓ Consistently build applications for scale



Azure IoT Operations use cases



Predictive Maintenance

Improve accuracy, reliability and efficiency of decision making to power predictive and automated maintenance

Asset Health

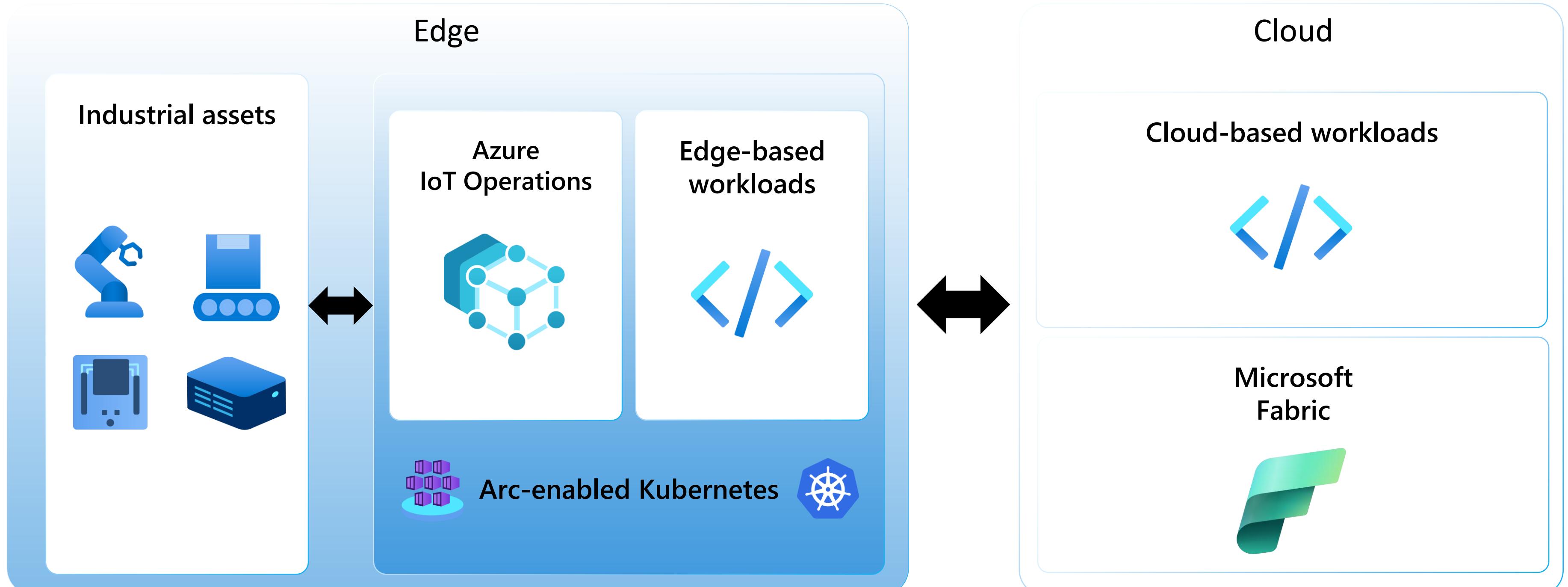
Make asset monitoring secure, transparent and faster by enabling real-time analysis and control of equipment

Efficient Operations

Enhance operational efficiency by optimizing resources, reducing costs and acting closer to data source

Common needs for holistic integration, security and cost optimization

Azure IoT Operations, enabled by Azure Arc



Azure operations, management and security spanning cloud and edge



Azure IoT Operations

Transform Physical Operations

IoT Akri enables simple onboarding and projection of locally networked devices and assets.

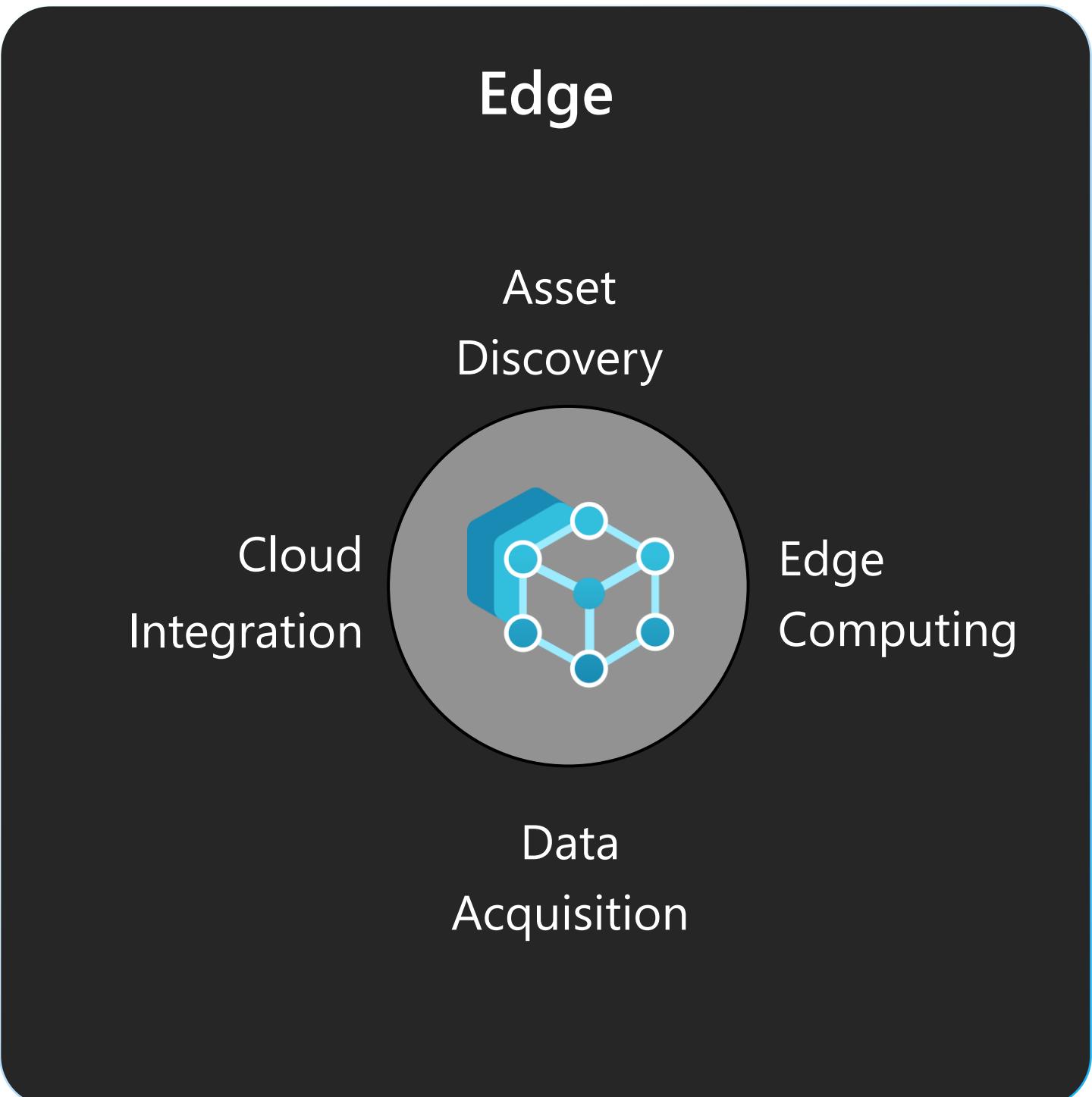
IoT OPC UA Broker connects and communicates with OPC UA Servers.

IoT MQ provides scalable and bi-directional edge/cloud communication and powers event-driven apps at the edge through a Kubernetes-native MQTT Broker.

IoT Data Processor provides customer defined data normalization and contextualization to make near real-time decisions.

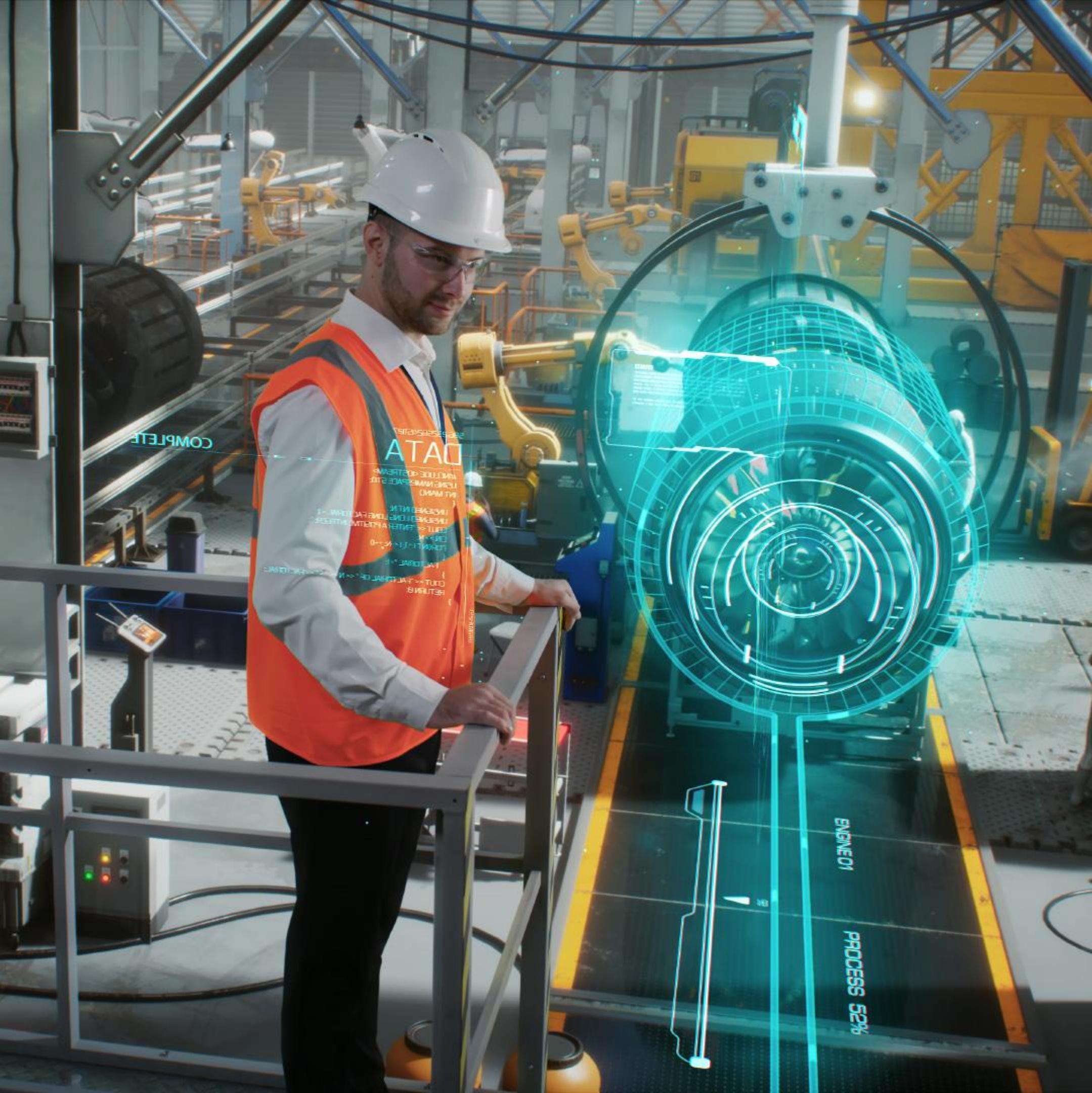
IoT Layered Network Management ensures devices can be cloud-connected securely compliant to ISA-95 standards.

IoT Operations Experience provides simple User Interface to manage assets and configure data pipelines.



Jumpstart Your Evaluation

Accelerate technical evaluation and experience what is possible with Azure IoT Operations using automated scenarios, step by step guides and samples available on [Azure Arc Jumpstart](#)



Resources

Product Website: <https://www.aka.ms/AzureIoTOperations>

Product Documentation: <https://aka.ms/LearnAzureIoTOperations>

Azure For Manufacturing: <http://aka.ms/AzureForManufacturing>

Arc Jumpstart: <http://aka.ms/AzureArcJumpstart>

And more to come ...



Questions & Answers

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- 30+ years in IT (Developer, Architect, Consultant, PM, Trainer)
- Speaker, Community addicted
- IoT Influencer



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05 | October | 2024



Free Ticket

Labs building, Sofia Tech Park

