

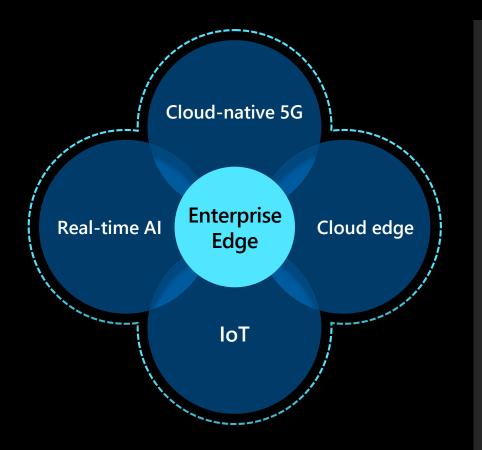
Azure private MEC & Private 5G Core

Azure for Operators

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Technology meets Industry 4.0 at the edge



Enterprise edge combines technology innovations to deliver real business value

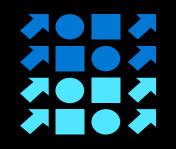
75% of data will be produced and analyzed at the edge by 2025¹

1000+ private networks already deployed, growing to 16000+ by 2025²

1. Today around 10% of enterprise-generated data is created and processed outside a traditional centralized data centre or cloud. By 2025, Gartner predicts this figure will reach 75%.

2. Private LTE and 5G Networks 2021 - Kaleido_Intelligence_July 2021

Azure value for enterprise delivery







Automated service delivery and lifecycle management across 100-100K sites Consistent management experience across all Azure platforms and services Device to cloud Zero Trust Security frameworks, data privacy and SW compliance

Azure provides *trusted global delivery and automation at scale* for enterprises, hard to replicate by traditional be-spoke solutions

Introducing Azure private MEC

Mission:

Simplify the development, deployment and management of secure private mobile 4/5G networks for latencysensitive applications



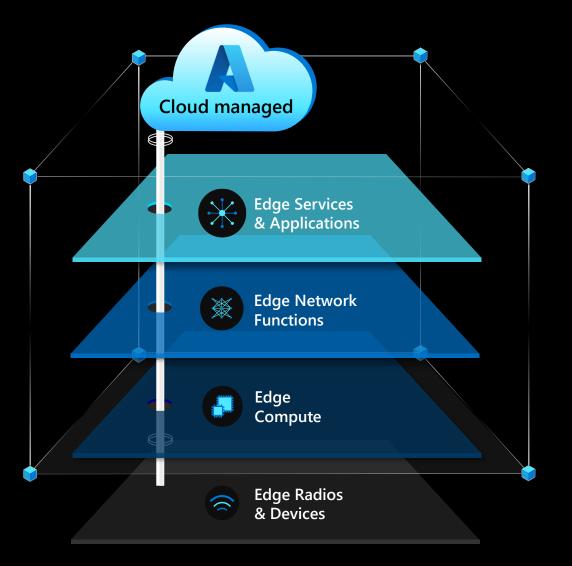
What is Azure private MEC?

Flexible solution for integrating edge compute, networking and applications on choice of edge platforms

1

2

Designed for operators and system integrators to deliver high performance MEC use cases to enterprises



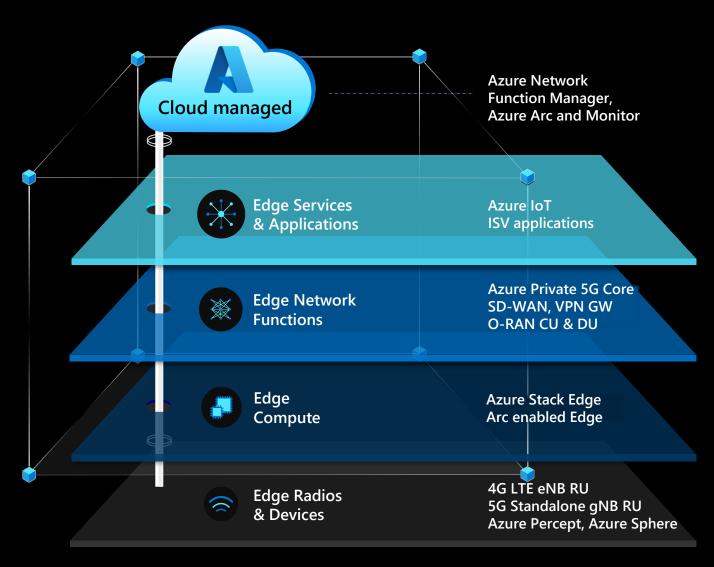
Azure private MEC value

Rapidly deploy edge-enabled Azure services and partner solutions

Simplify integration complexity

Securely manage services from cloud

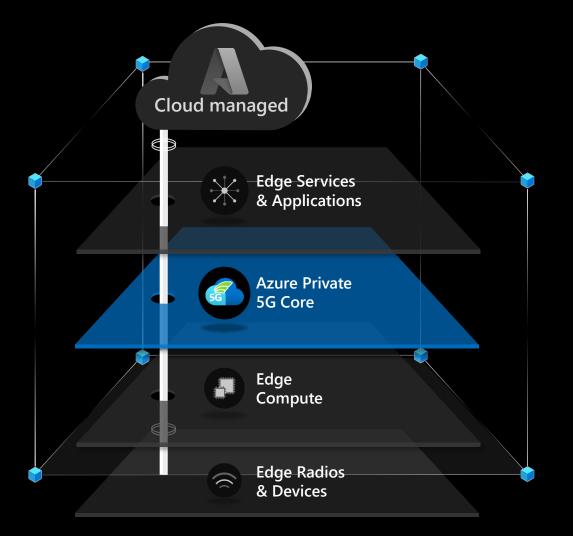
Flexibility to choose the right connectivity and edge platform to meet enterprise needs



Introducing Azure Private 5G Core

The new Microsoft Azure mobile 5G network core service:

- Smallest HW footprint in the Industry, very high performance
- RAN agnostic
- No cloud dependency for critical operation (full core on prem)
- Cloud managed and orchestrated



Azure Private 5G Core value

Simplify delivery of 4G/5G networks on a small footprint edge

Speed network deployment to minutes

Scale globally with unified cloud management and partner solutions

Secure private wireless networks with industry-leading Azure security



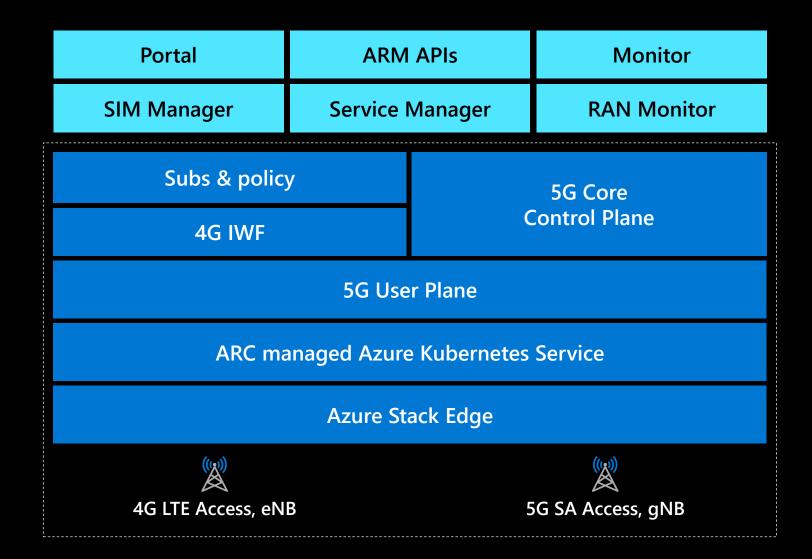
Azure Private 5G Core capabilities

Complete 5G core CNFs delivered on edge as a service

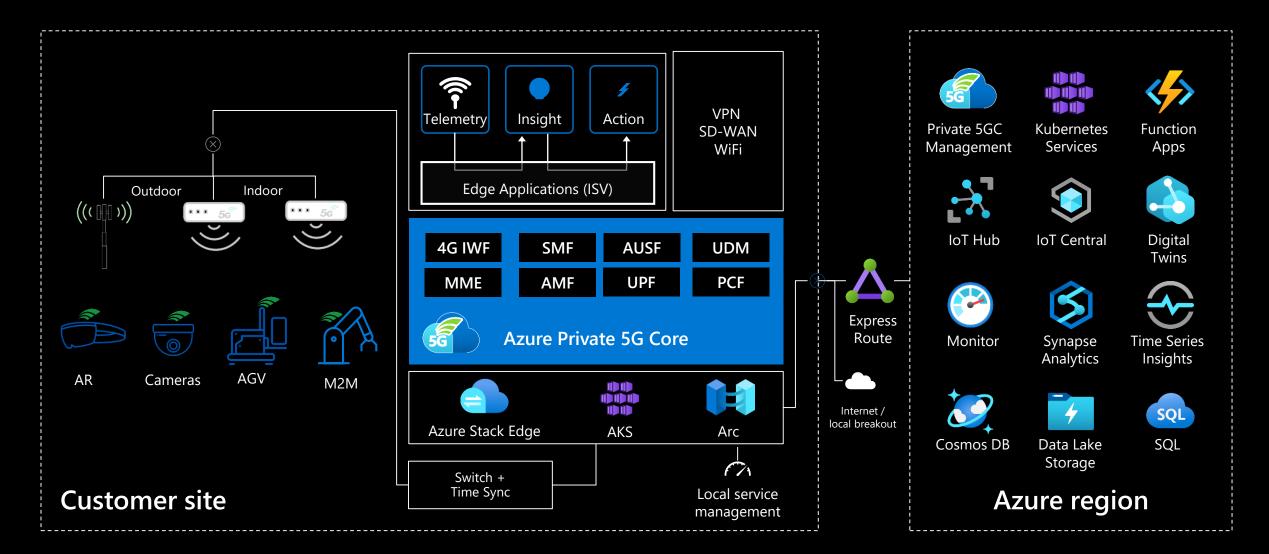
Cloud orchestration and service management

Delivered with Azure Kubernetes Service on Azure Stack Edge

Integration with choice of RAN and SIM services partners



Azure PMEC Solution Architecture



Azure private MEC – GTM strategy



Simplifies procurement, deployment & management of compute, networking & applications for intelligent edge Empowers partners to deliver curated and managed global solutions from a growing list of technology and service options

Accelerates Industry 4.0 transformation for enterprises & government

Engagement Snapshots



Manufacturing (electronics)

Smart spaces (airports)

Energy (oil & gas)



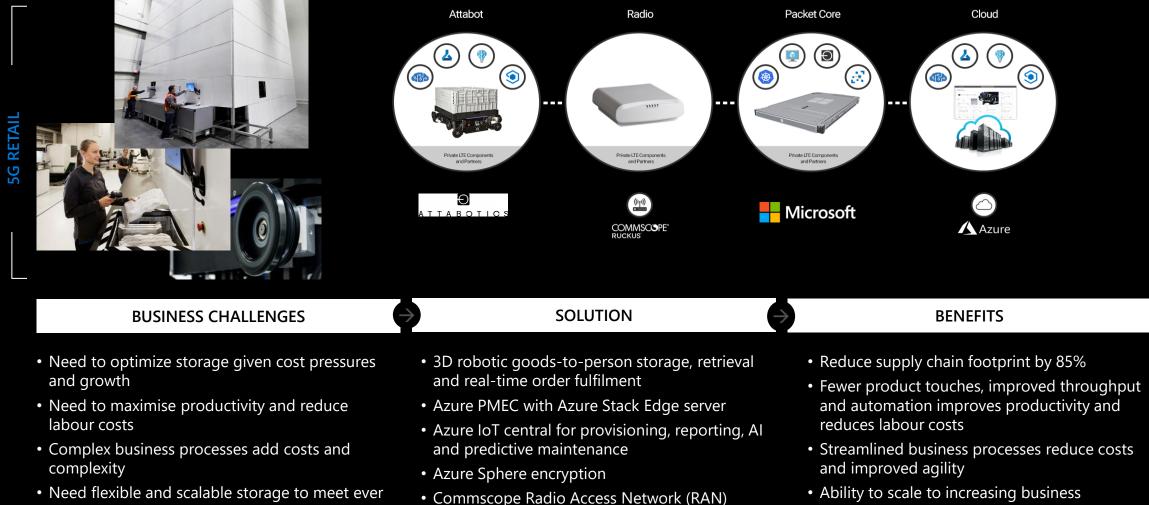
Manufacturing (automotive)

Smart cities (stadium)

Government (defense)

E-Retail Fulfilment with Commscope and Microsoft

changing demands



demands

Milton Keynes Stadium 5G test bed



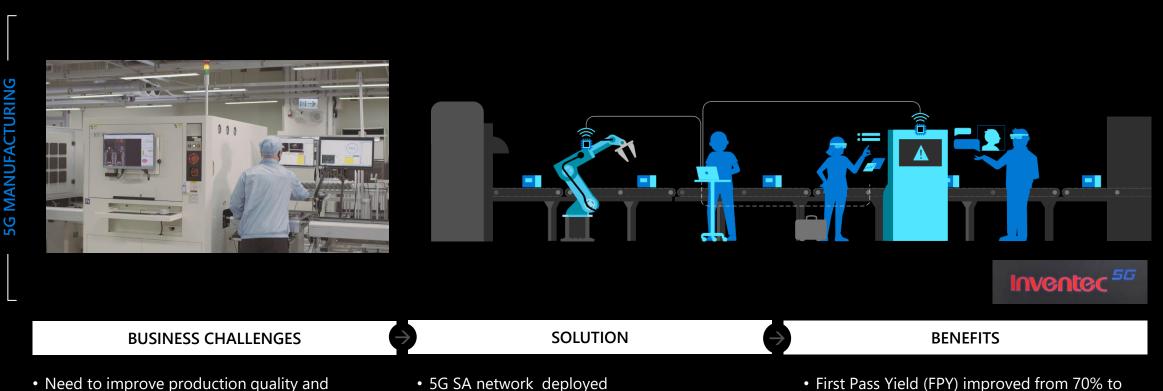
- Adjusting to Post Covid increased pressures on resourcing and revenue
- Drones for optimised stadium maintenance

• Private vs. Public integration for

consumer experiences

• Real time audio editing for music events

Inventec Smart Factory with Microsoft



- efficiency
- Labour challenges (increased due to COVID)
- Complex business processes add costs and complexity

- Azure PMEC with Azure Stack Edge server
- Production machines now connected wirelessly to central server
- Enables AI Based AOI (Automatic Optical Inspection)

- 85%
- Fewer product touches, improved throughput and automation improves productivity and reduces labour costs
- Streamlined business processes reduce costs and improved agility
- Ability to scale to increasing business demands

Datwyler Q-tainer

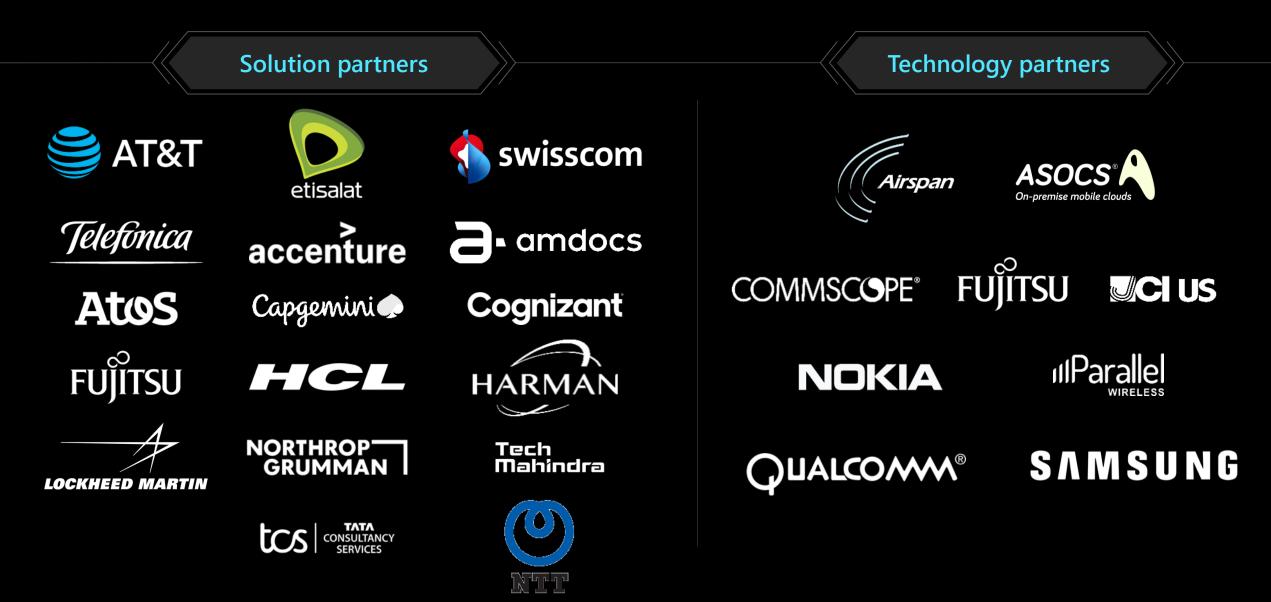




With the Q-tainer, the Rhomberg Group and Datwyler IT Infra AG bring digitalization to the construction site.

The 20-foot container is a mobile EDGE data center that allows you to analyze and evaluate data and video streams on site as quickly as possible and without high latency With video analytics, we ensure that all construction workers are wearing helmets. Routing tracking of heavy machinery or measure the working time and distance traveled by construction machines. Video analytics to detect material theft and determine the location or amount of material on the construction site. Drone control to create 3D models of the construction site and determine volume measurements and construction progress.

Sample list of Private 5G Core partners



Azure Private 5G Core closing remarks



Azure managed 5G Core service for the edge

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Integrate with Azure services to deliver end to end solutions

Available today from a range of partners to build your own enterprise edge solutions

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Learn more about Azure private MEC here: Aka.ms/AzurePrivate5GCore





Thank you

<u>Learn more about Azure private MEC</u> <u>Learn more about Azure Private 5G Core</u>