

Mobile Private Networks The future of Mobile Private Networks in E&U

Presented by Edwin Lugtenburg
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C2 General



Speaker

Edwin Lugtenburg

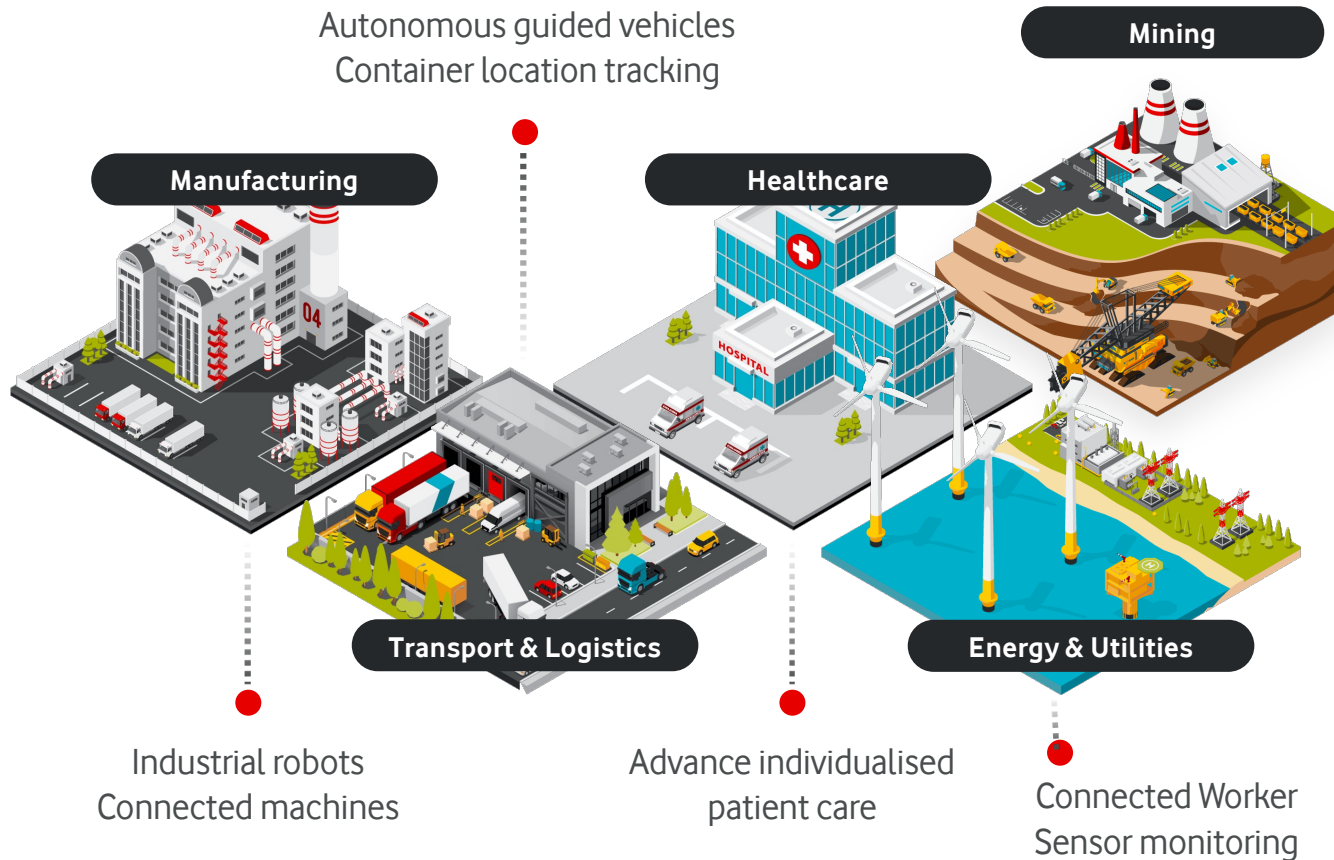


**Business Development Manager
Mobile Private Networks**

**Cloud & Edge Portfolio
Vodafone Business**



MPN | Enabling Digital Transformation



Many of these capabilities require **reliable, high-performance wireless networks and fast local processing.**



Need highly reliable connectivity, ultra-high performance



Remote sites with no/limited public network coverage



Require high data security, exclusive/controlled access



MPN | What are the use cases that are driving MPN?



Digital Worker –
Collaborative and Safe



Digital Asset



Digital Site

Voice and Video Calls

Location Tracking

Real-time control

AGVs

Vehicle Tracking

Drone Detection

Collaboration

Lone Working

Condition Monitoring

Predictive
Maintenance

Environment
Monitoring

Video Analytics

Specialised Devices

Gas and Radiation
Detection

Connected Tools

M2M Connectivity

Asset Tracking

Collision Avoidance

Augmented Reality

Health Monitoring

Connected Cobots

Sensors

Intrusion Detection

Visual Inspection

Enhanced operational monitoring and control enabled by a mission-critical mobile private network that is ubiquitous (indoor and outdoor), secure, flexible and predictable.



MPN | Critical needs of customers

Why does a customer buy a mobile private network?

Scalability

- Deployments are easily scaled up or down to meet changing requirements
- Particularly beneficial for sites with a high density of devices and simultaneous connections
- Our global presence enables the support of customers at scale



Security

- Protected by SIM based authentication and authorisation capabilities
- Provides connectivity only for authorised devices
- Data is processed on-site adding another layer of security to communications



Reliability

- Private networks carry only their own data and are not affected by disturbances in the public networks
- Resilience and redundancy can be implemented to ensure continuous service



Mobility

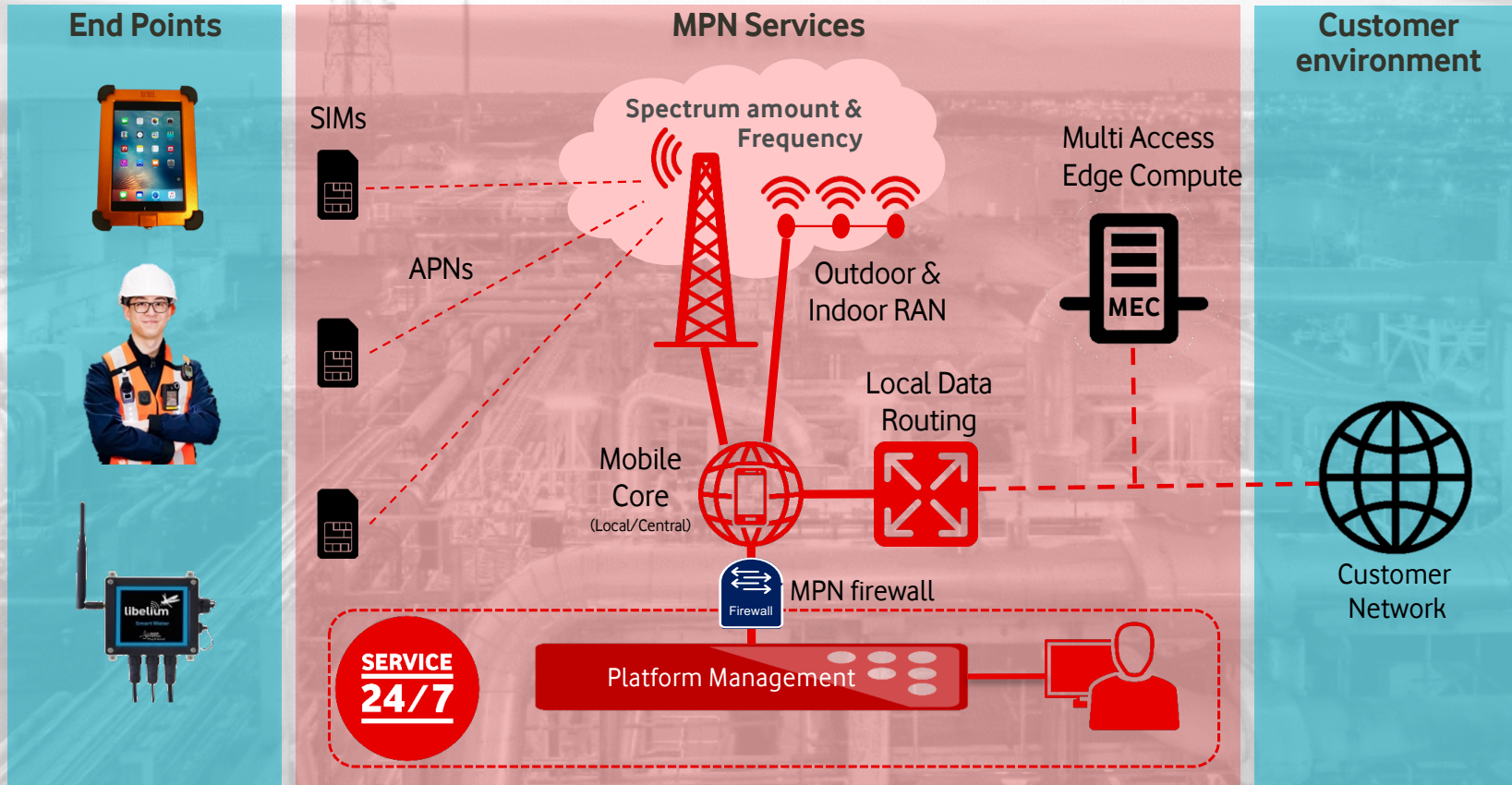
- The MPN devices can freely move around the campus under the coverage of the MPN
- Can be configured to roam outside the MPN onto the Public Network using a suitable (hybrid) MPN architecture



The key customer needs are addressed with a Mobile Private Network



MPN | Key Components



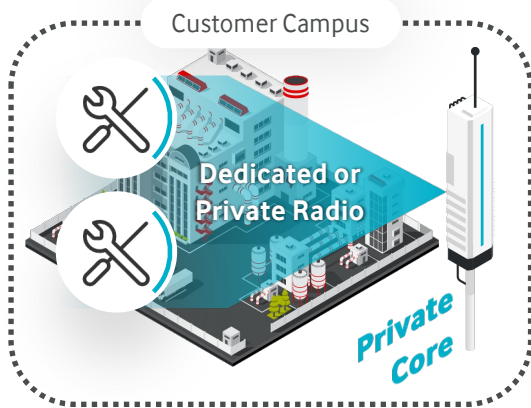
Highly secure, tailored coverage, availability, latency and support.



MPN | 3 possible Options

Dedicated MPN

Physical standalone mobile private network



Assured QoS

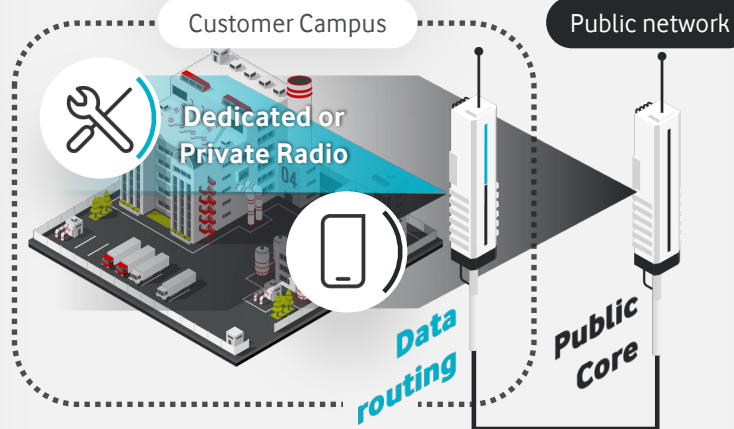
Keep your data on your campus

100% control through customer

Interworking with public network

Hybrid MPN

Physical private network elements deployed in conjunction with the public network



Assured QoS

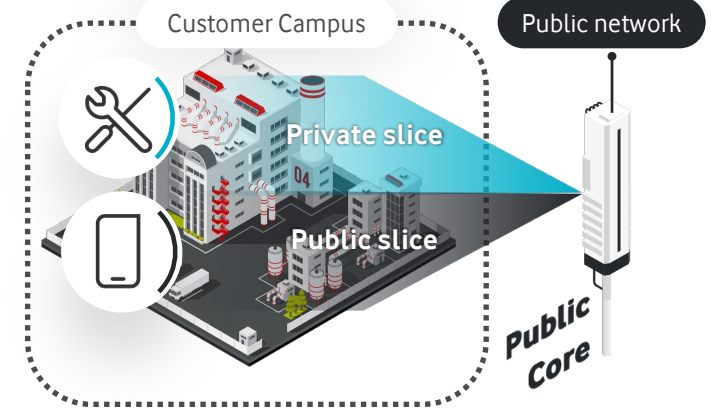
Keep your data on your campus

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Interworking with public network

Segregated MPN

QoS in the Vodafone network with Network Slicing



Assured QoS

Keep your data on your campus

100% control through customer


Interworking with public network



MPN | Private vs Public Mobile Network

▶ Use case dependent

Mobile Private Networks leverage the **scalability, security** and **predictability** of mobile technology



Public Network for everyday consumer use

Connecting Consumers

- Everyday consumer use
- Voice & data
- Consumer availability
- Best effort
- Coverage where most consumers are.
- Data travels over internet
- Secure
- Standard latency



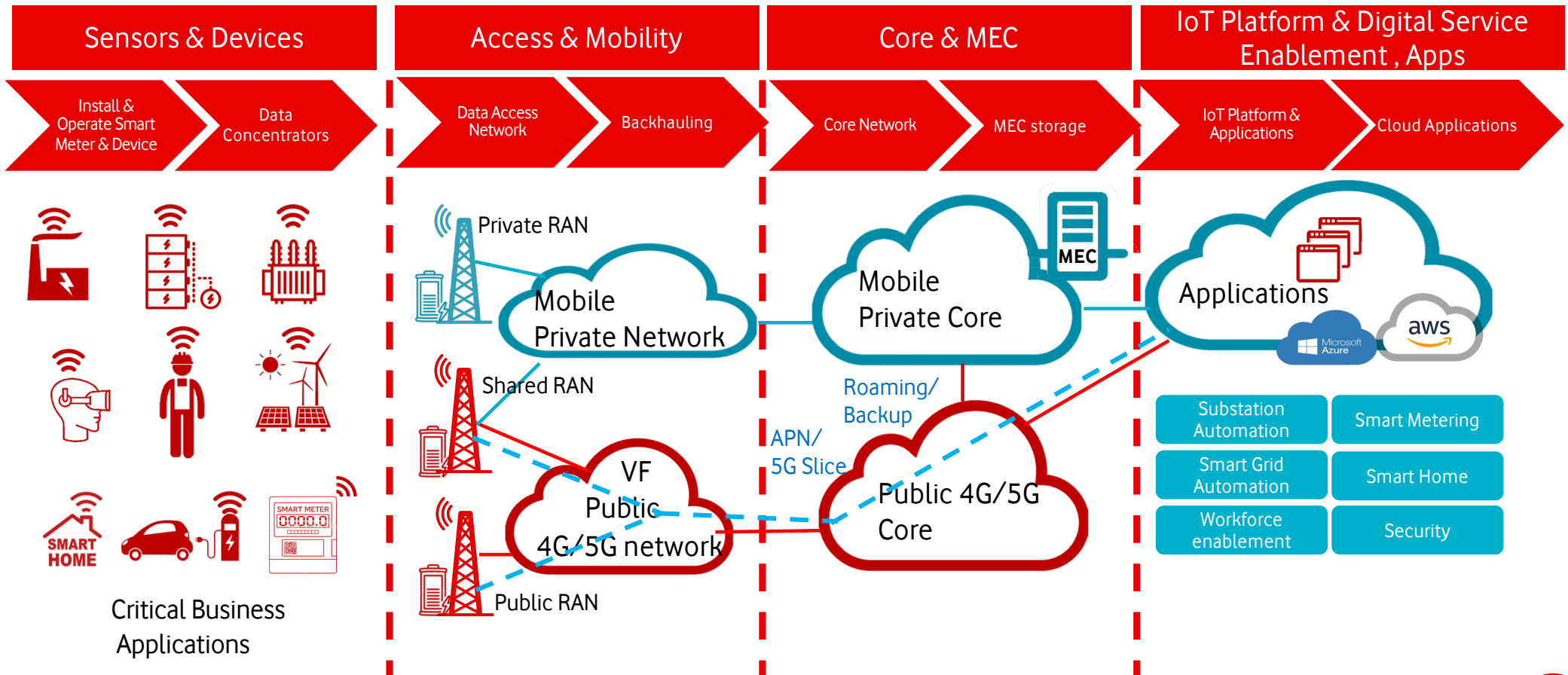
MPN for mission-critical applications

Connecting the factory floor

- Mission Critical applications
- Data & OTT Voice
- Resilience & battery backup
- Underpinned by SLAs
- Tailored Coverage
- Data breaks out locally
- Highly secure
- Low Latency



MPN | Utility Options



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