5G for Mission Critical Communications

Ericsson

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Pre-Sales Lead, Networks & Managed Services

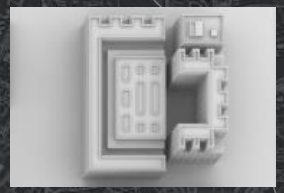
One nationwide network to connect diverse organizations & agencies

Public safety agencies

Activities

Public buildings

Fire brigade



Ministries

Intercept patrol

Border security

Airport

Harbour

Mobile surveillance

Sports stadiums

City surveillance

Smart cities

Police

Railways

Mass transit security

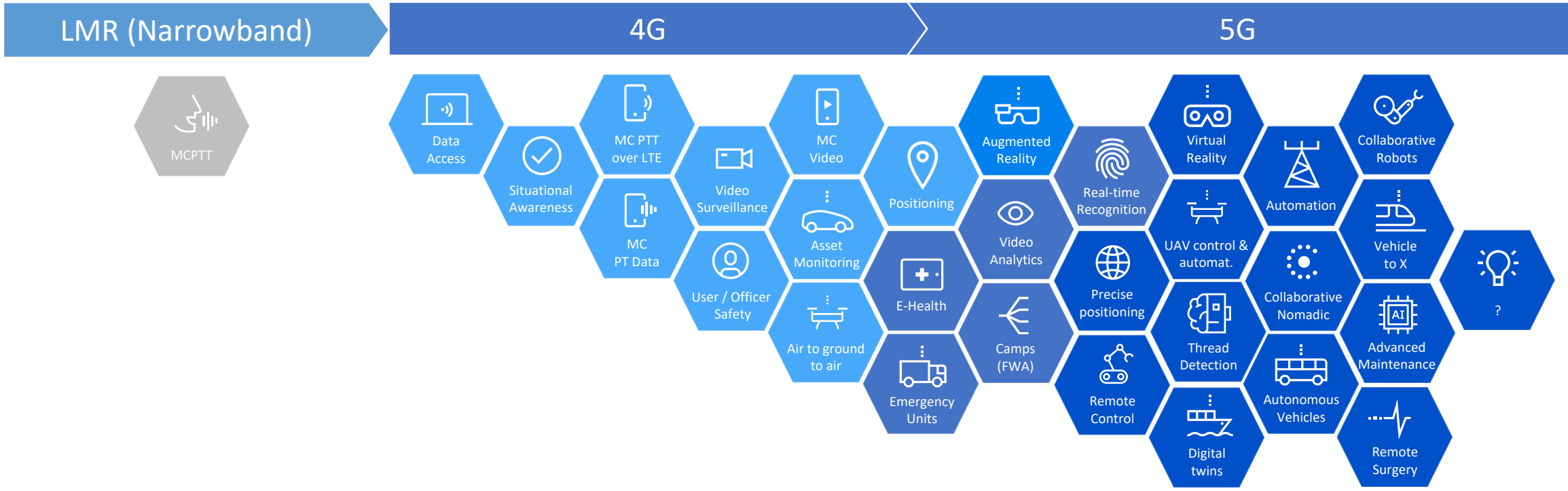
Ambulance

Oil and gas infrastructure

Disaster recovery

Emergency response

Transformation from legacy to mission critical 4G / 5G



Narrow band technologies: Tetra, P25 …

- Mission critical voice
- Simple messaging

4G

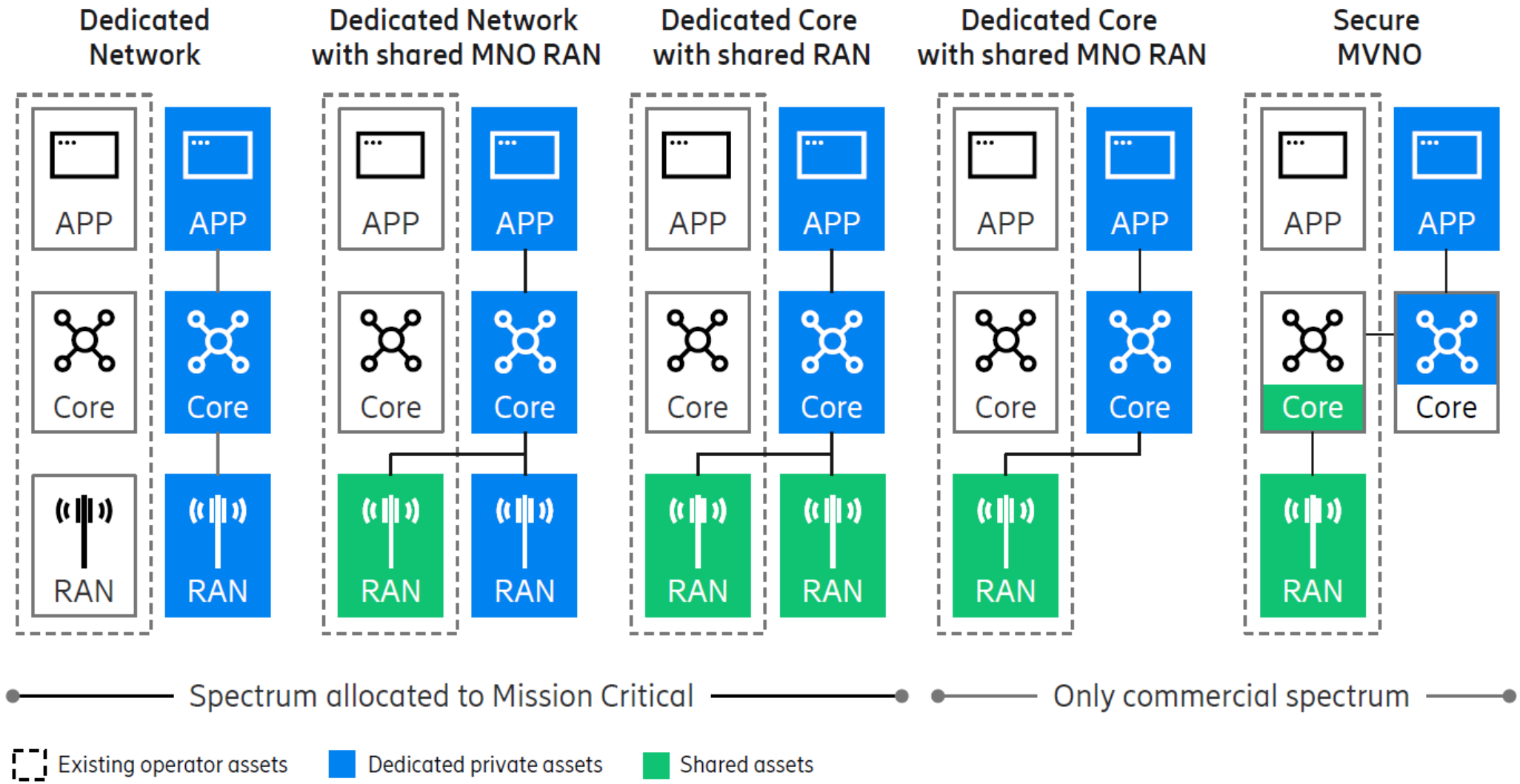
- Broadband
- QoS, Priority, Preemption
- Mission critical services
- Multicast
- Cat-M – NB IoT

On the road to 5G

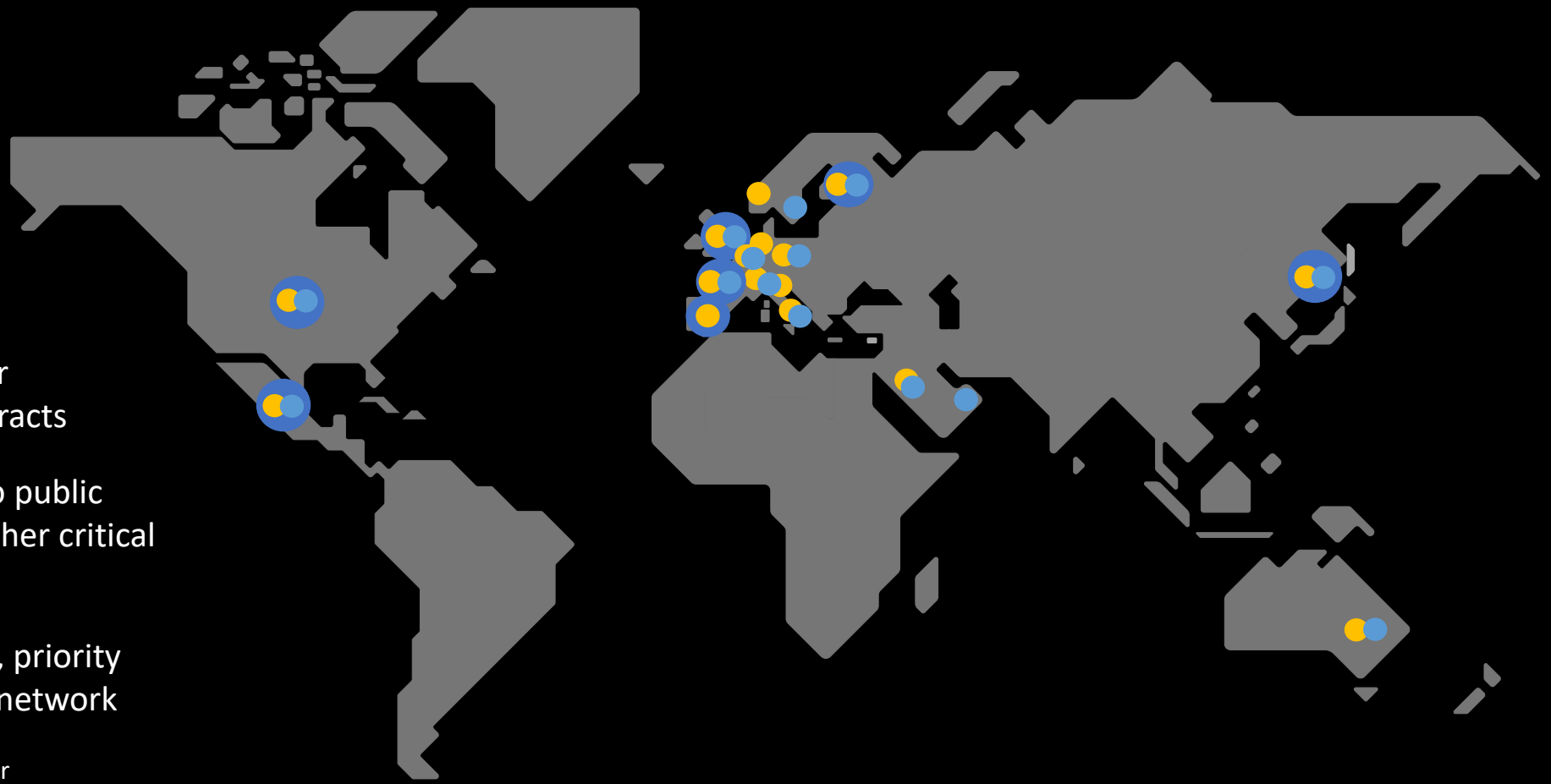
- Enhanced mobile broadband
- End to end trustworthiness: Security, Reliability, Privacy

5G

- URLLC: Extreme low latency, ultra reliability
- MTC: Ubiquitous machine type communications
- Network Slicing, Edge comp. & distributed cloud


Dedicated Network
Dedicated Network with shared MNO RAN
Dedicated Core with shared RAN
Dedicated Core with shared MNO RAN
Secure MVNO
APP
Core
RAN
Spectrum allocated to Mission Critical
Only commercial spectrum
Existing operator assets
Dedicated private assets
Shared assets

Service providers take a leading role in the modernization of Mission Critical Communications



- CSPs* being awarded major public safety operator contracts
- CSPs now critical partner to public safety, governments and other critical industries
- Implementing, trialing QoS, priority and pre-emption over CSP network

* CSP – Communications Service Provider


ERILLISVERKOT
KIMA
FirstNet
First Responder Network Authority

Conclusions

Value to Society & Government

Future-proof

Flexible Deployment Options

Leadership in Mission Critical

https://www.ericsson.com/en/mission-critical-communications