

# 4G & 5G: Elevating First Responders and Agencies Collaboration

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# Public Safety Market trend



Strong market momentum

- SIRDEE Nationwide Mission-Critical Broadband Network
- Safe-Net (National Disaster Safety Communications Network)
- City & District-Wide Band 45 (1.4 GHz) Networks
- Hsinchu City Fire Department Transportable 5G Network
- Royal Thai Police Band 26 (800 MHz) Network
- PSCA (Punjab Safe Cities Authority) Band 26 Network
- Abu Dhabi Police & Nedaa Band 28 (700 MHz) Networks
- Qatar Ministry of Interior Band 20 (800 MHz) Network
- ROP (Royal Oman Police) Band 20 Network
- Brazil State-Wide Public Safety Broadband Networks

- ESN (Emergency Services Network)
- VIRVE 2.0 Mission-Critical Broadband Service
- ASTRID BLM (Blue Light Mobile) Service
- Nytt Nødnett Broadband Solution
- RIKS (State Infocommunication Foundation) MVNO Service
- PrioCom & Lyfo Mission-Critical Connectivity Offerings
- Swisscom & BLUnet Public Safety LTE Platforms
- Japan PS-LTE (Public Safety LTE) Project
- PSMB (Public Safety Mobile Broadband) Program
- MXLINK Secure Mobile Broadband Solution
- FirstNet (First Responder Network)
- National PSBN (Public Safety Broadband Network)
- RRF (Radio Network of the Future)
- Italian Ministry of Interior Public Safety LTE Service
- MSK (Secure Mobile Broadband Communications)
- Rakel G2 (Next-Generation Rakel)
- BOS Hybrid Broadband Network
- EDR 2.0/3.0 PPDR Broadband Network
- Secure 450 MHz Network for Government Agencies
- National Hybrid PPDR Broadband Network
- Verizon Frontline Portfolio
- T-Mobile Connecting Heroes Program
- Føroya Tele KIMA Mission-Critical Communications System
- NGCC (Next-Generation Critical Communications) Platform
- Buenos Aires Hybrid TETRA-LTE Solution
- Lishui 5G-Enabled Natural Disaster Management System
- Shenzhen & Guangzhou Public Security Bureaus
- Kaohsiung City Police Department



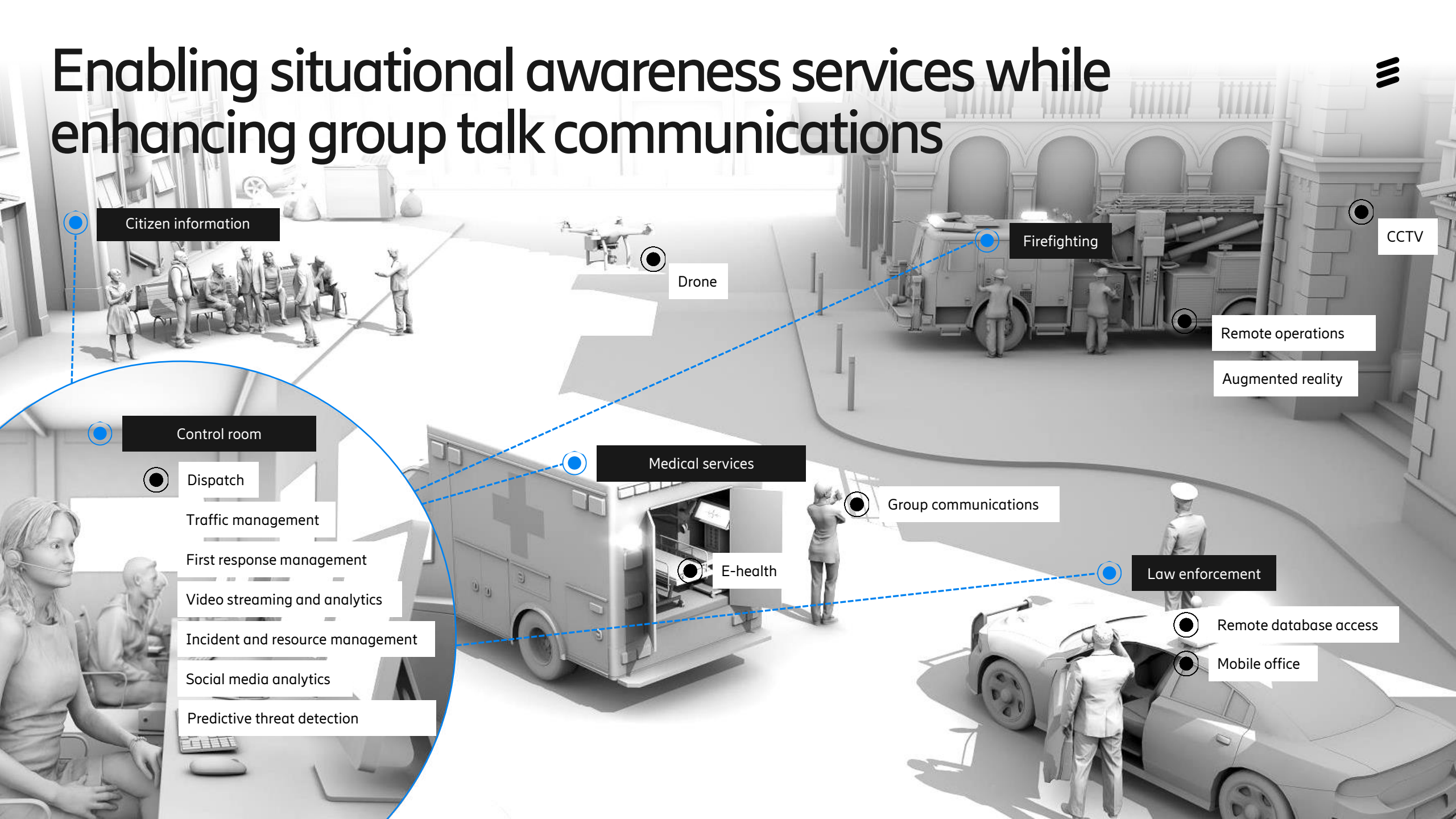
Overall alignment on migration to 3GPP. It is not a matter of “whether” but “when” & “how” countries migrate



Leading nations implementing 3GPP  
Most of large economies are either deploying or in the tendering/planning phase for their public safety

Based on SNS Telecom report January 2024

# Enabling situational awareness services while enhancing group talk communications



Citizen information

Drone

Firefighting

CCTV

Remote operations

Augmented reality

Control room

Dispatch

Traffic management

First response management

Video streaming and analytics

Incident and resource management

Social media analytics

Predictive threat detection

Medical services

Group communications

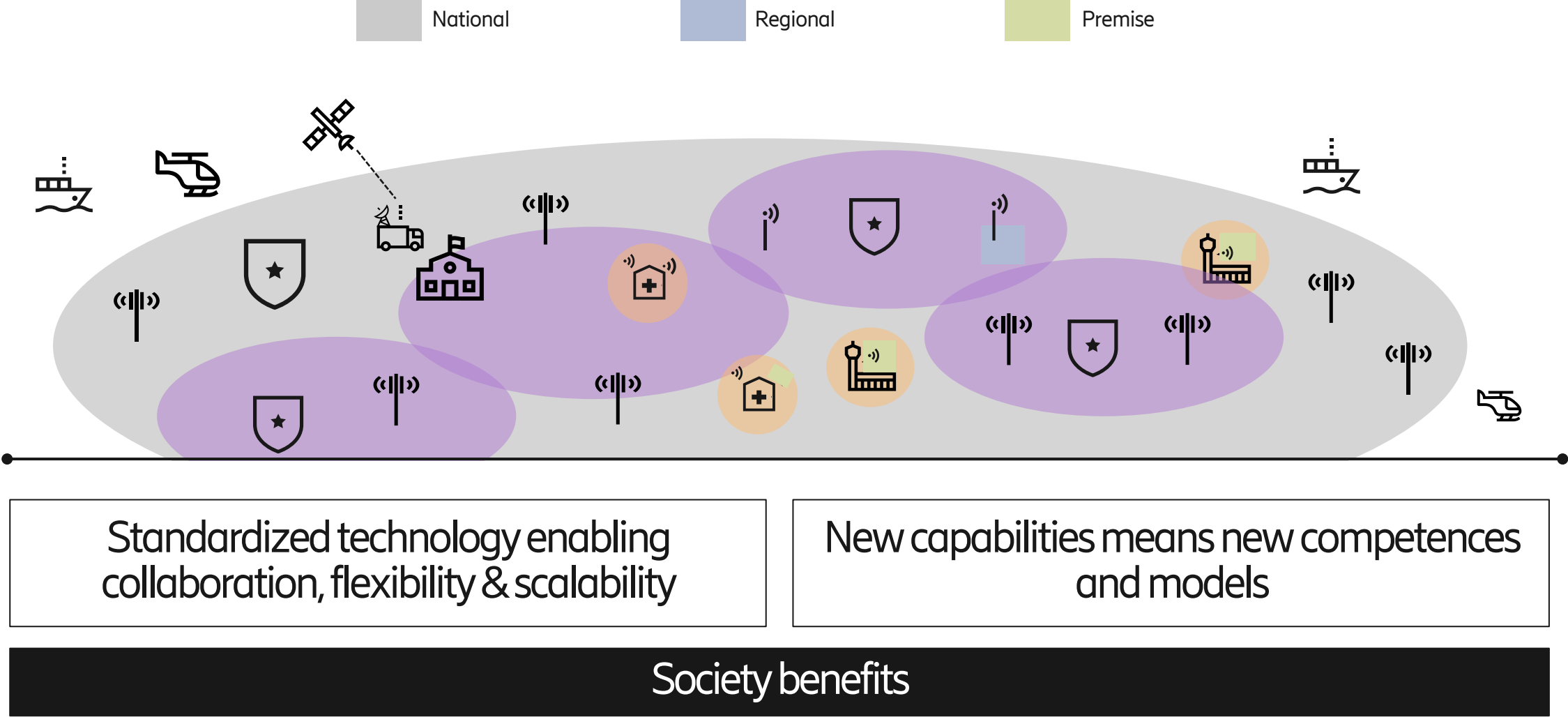
E-health

Law enforcement

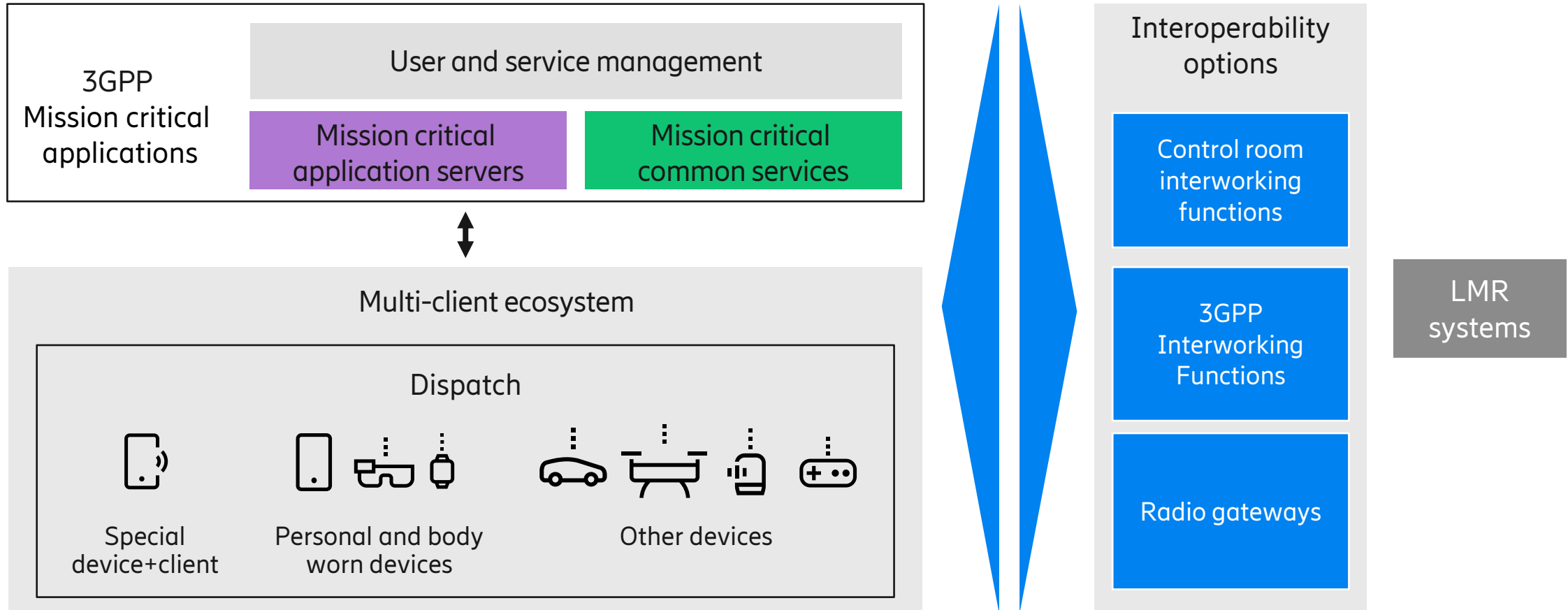
Remote database access

Mobile office

# From scattered approach to consolidated system and competences





















# 3GPP standards support openness and interoperability



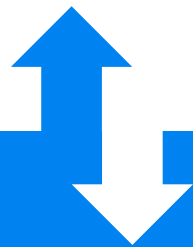
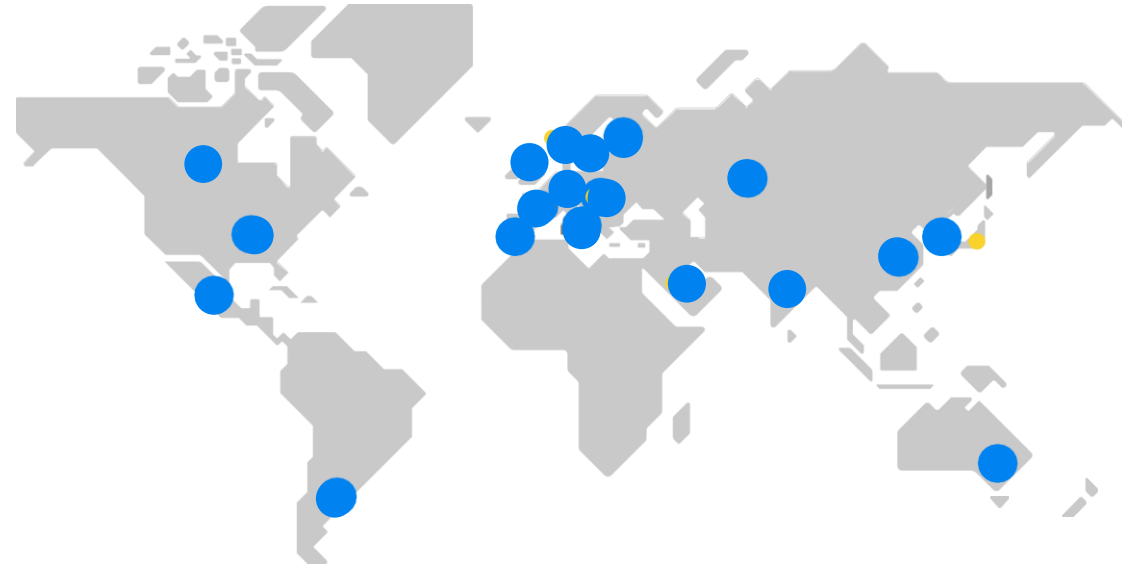
# Selected references

collaborating with customer and ecosystem players is key

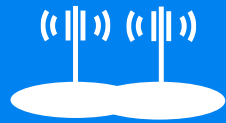


Award	Country	Network	Who drives	Main Telco provider
2016		ESN	 Home Office	
2018		FirstNet	 FIRSTNET. Built with AT&T	
2021		VIRVE 2.0	 ERILLISVERKOT	
2022		RRF	 ACMOSS	
2023		EDR	 Pro-M zrt.	
2023		Rakel 2	 MSB	

# MNO role in Public Safety networks modernization



Network availability



Multi-network operation



Security & hardening



Quality of service, priority & preemption



Coverage & capacity

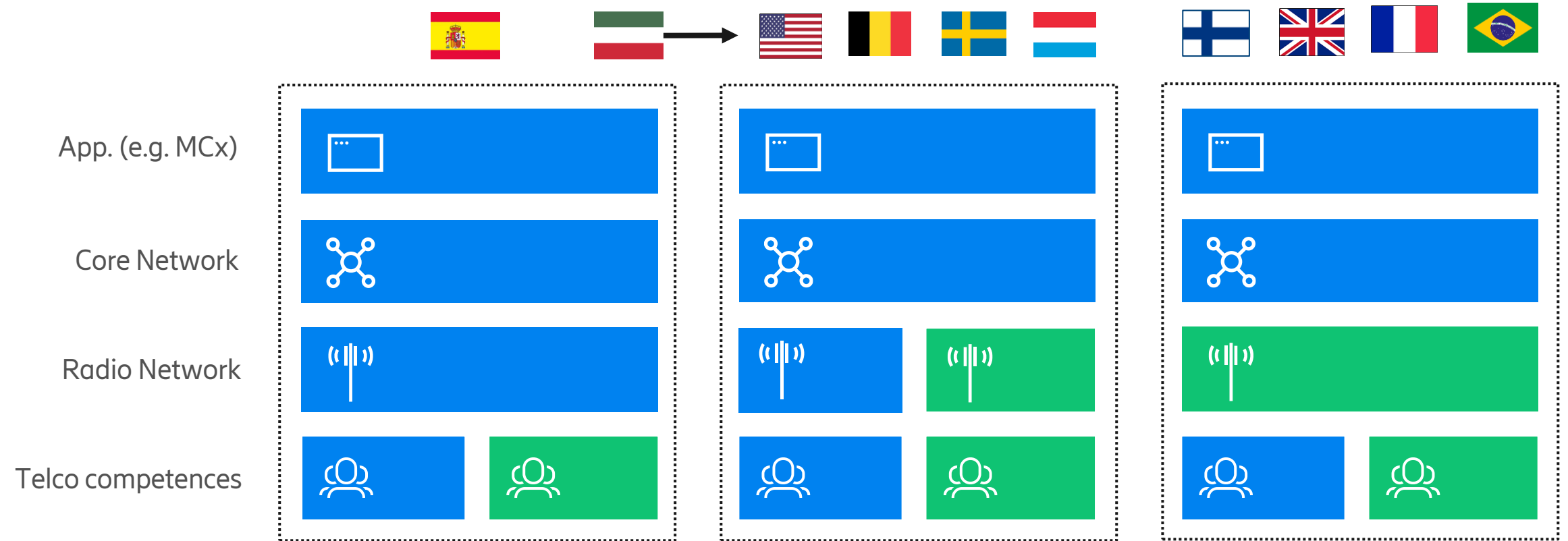
## Mission-critical key network requirements

# Deployment model moving forwards



Dedicated

MNO







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