

Mission Critical Communications Ericsson



#### Market trend

Strong market momentum in 3GPP



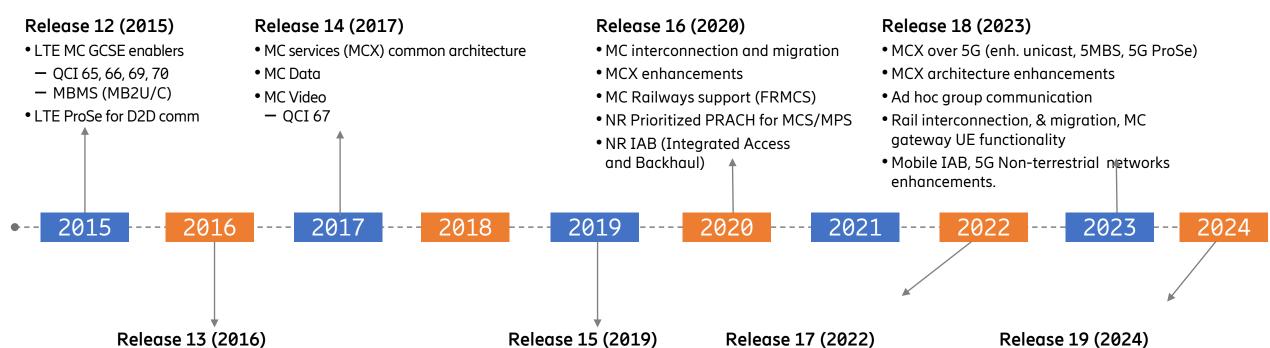
Overall alignment on migration to 3GPP. It is not a matter of "whether" but "when" & "how" countries migrate



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



#### Mission Critical evolution in 3GPP



- MC PTT
- Architecture (incl. use of eMBMS, ProSe)
- IOPS (LTE)
- Informative deployment model

- MC interworking
- TETRA/P25
- 5G QoS framework; MC 5G 5OI
- NR Unified Access Control (UAC)

- MCX enhancements
- MC IOPS (LTE)
- 5G Multicast/Broadcast sessions (5MBS)
- 5G Proximity Services (D2D)
- MCX over 5G (unicast)
- 5G Non-terrestrial networks

- MCX enhancements
- Interconnection, Migration, MC gateway UE enhancements
- Ad hoc Group comm & Alert
- Sharing Administrative configuration
- MCX over 5G (unicast)
- 5G Non-terrestrial networks, RedCap, NPN Enhancements

## **Ericsson Mission Critical Communications**



Public Safety (PPDR)



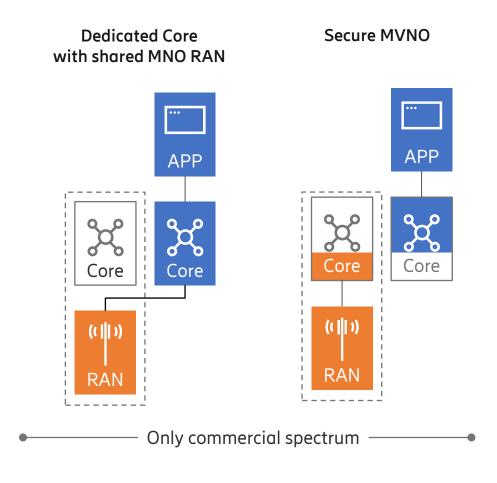
**Utilities** 



Defense



# Nationwide Mission Critical 4G/5G Network: leveraging existing MNO RAN coverage



## Western Countries movers

	Network Name	Operations	Main Technology
	VIRVE 2.0	<b>⊚</b> ERILLISVERKOT	
	EMERGENCY SERVICE NETWORK (ESN)	Home Office	
	FirstNet	FIRSTNET. Built with AT&T	
	RRF		
	EDR		
+	Rakel 2	MSB	

## FirstNet case: moving forward with 5G



Network upgrade
Firstnet Autority to invest 6bn USD



#### **BY THE NUMBERS**

The **only** dedicated communications platform in the country that brings first responders:



Always-on, 24x7 priority and preemption across voice and data communications



A physically separate network core **fully dedicated** to public safety



Government oversight and accountability from the FirstNet Authority

Updated 06/10/2024

†As of June 2024 \*Since the start of the FirstNet Build

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Public safety agencies and organizations subscribed



210+

Apps in the FirstNet App Catalog



**755** 

FirstNet Ready® devices

#### **AMERICA'S PUBLIC SAFETY NETWORK**

2.97M+

Square miles of coverage



250K+

Square miles more from than commercial networks

180+

Dedicated assets, including Flying COWs® and CRDs™





64%

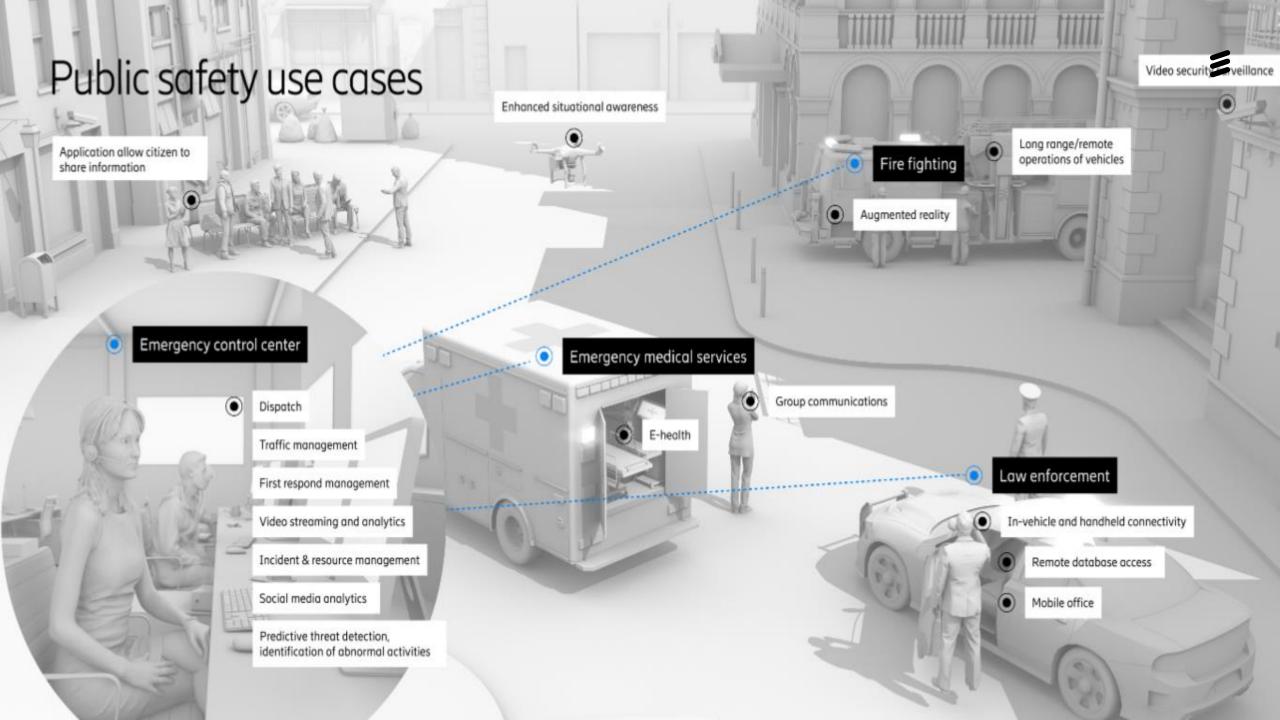
Increase in Tribal Land coverage\*



500+

Solutions triaged and deployed this year





Airline broadband >5000m

Forrest surveillance 250m

**Total Mission Critical Market** Public Safety, Rail, Utilities, Peacekeeping and Defense and Digital Airspace

Rescue airlift 1000m

Communication and command center

MC medicine delivery 200m

Police patrolling 500m

Event surveillance 150m

Factory surveillance 150m

Deep dive

Transportation 500m



Overview Offerings Ecosystem Customer case



## Conclusions & Messages

5G – 4G Broadband
Mission Critical
Networks of Choice
Future Proof with
optimal Technocommercial

performance

One Common
Nationwide Network
accessed by all
relevant departments
and First Respondents

Greece
Timing is crucial
&
it is now

Ericsson Leadership in Mission Critical Networks with vast Field Experience



ericsson.com/en/mission-critical