

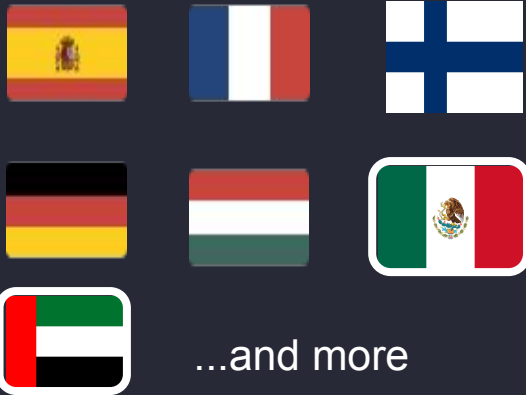
Narrowband to Broadband Critical Communications for Enterprise

Rhys Clare
Airbus ANZ Sales Manager
ACCF/TCCA Director

AIRBUS Public Safety and Security

We accompany our customers in their transition from narrow to broadband providing them with end-to-end secure and cyber-resilient mission critical collaboration solutions and services.

Nationwide authority networks:



...and more

Applications, devices and solutions for authorities in more than 80 countries



AIRBUS

European #1

Critical Communications

20+

delivered nationwide mission critical networks

300+

Networks for local authorities and business critical

3M

daily users
80 countries

100+

Metro lines

4

Olympic Games supported during the past 20 years

40+

Years

Paris 2024 Olympic and Paralympics Games

Airbus MCX & Tetra

AIRBUS

65'000+

Public Safety forces on the field in Paris during the Opening Ceremony using Airbus communications technologies, including 20'000 back-up from the army

10'000+

Agnet MCX end-users from the Olympic Games Organisation Committee (through Orange TeamConnect) including referees, first aid, ...

11m

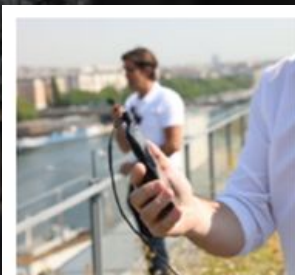
Visitors in Paris during the three weeks of the Olympics

>70

PSS employees on-duty and on-site service during summer

5

Major Systems supported: **INPT** (Police, Firefighters), **RUBIS** (Gendarmerie), **RATP** (Public Transports), **Customs**, **Orange**



Team Connect

13 500 devices deployed

Usage acclaimed

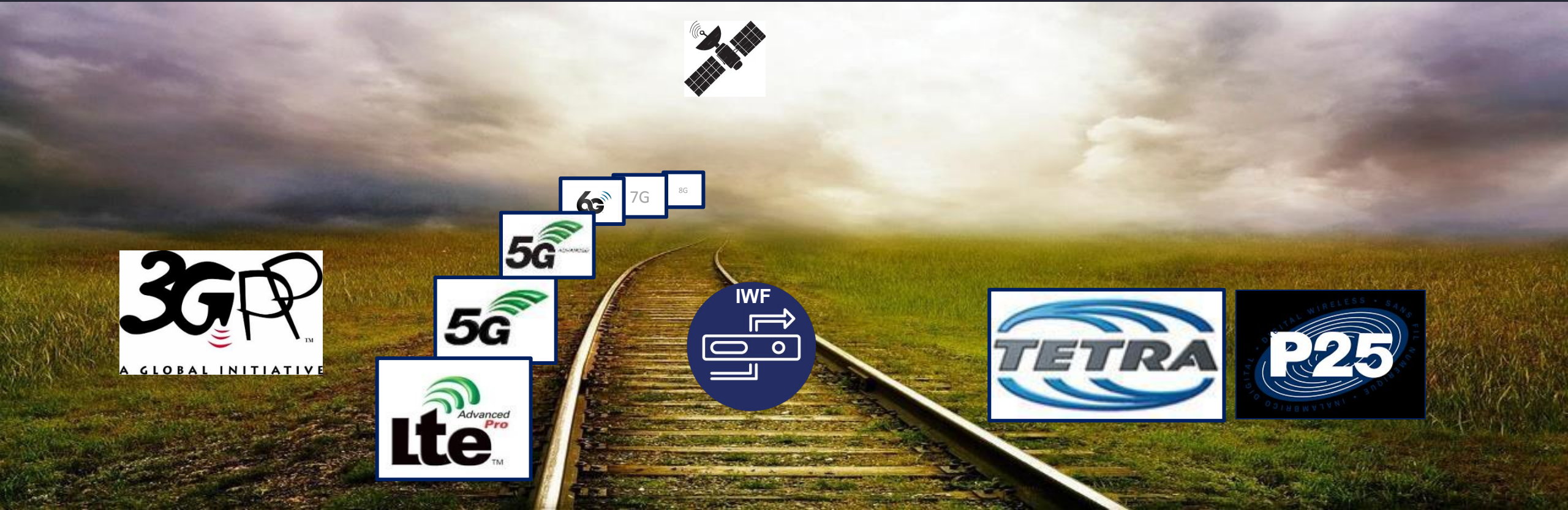
Coverage Performance ++

Up to **6 300** simultaneous communications

Reliability highly improved

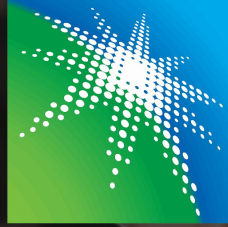
Continuous Mission and Business Critical Technology Evolution

AIRBUS



ARAMCO – Oil and Gas Leaders

aramco



aramco
digital



ARAMCO is the world's largest Oil and Gas company, based in the Kingdom of Saudi Arabia (KSA), operating land and sea operations with 100s Oil and Gas field sites

ARAMCO DIGITAL, technology subsidiary and digital transformation arm of ARAMCO, focusing on AI, Cyber, IIOT, Industrial 5G building a digital ecosystem

AIRBUS TETRA to AIRBUS MCX / TETRA

ARAMCO operates over 150 sites using **AIRBUS Tetra**, 25k+ of ATEX Terminals

ARAMCO's aspirations is deliver industrial connectivity across KSA, operating Critical Communications Broadband networks supporting Voice, Health and Safety, expanding out operational requirements with Video and Data, investing in 450mhz Private Broadband



LEAP 2025 Announcement of Aramco Digital & Capgemini



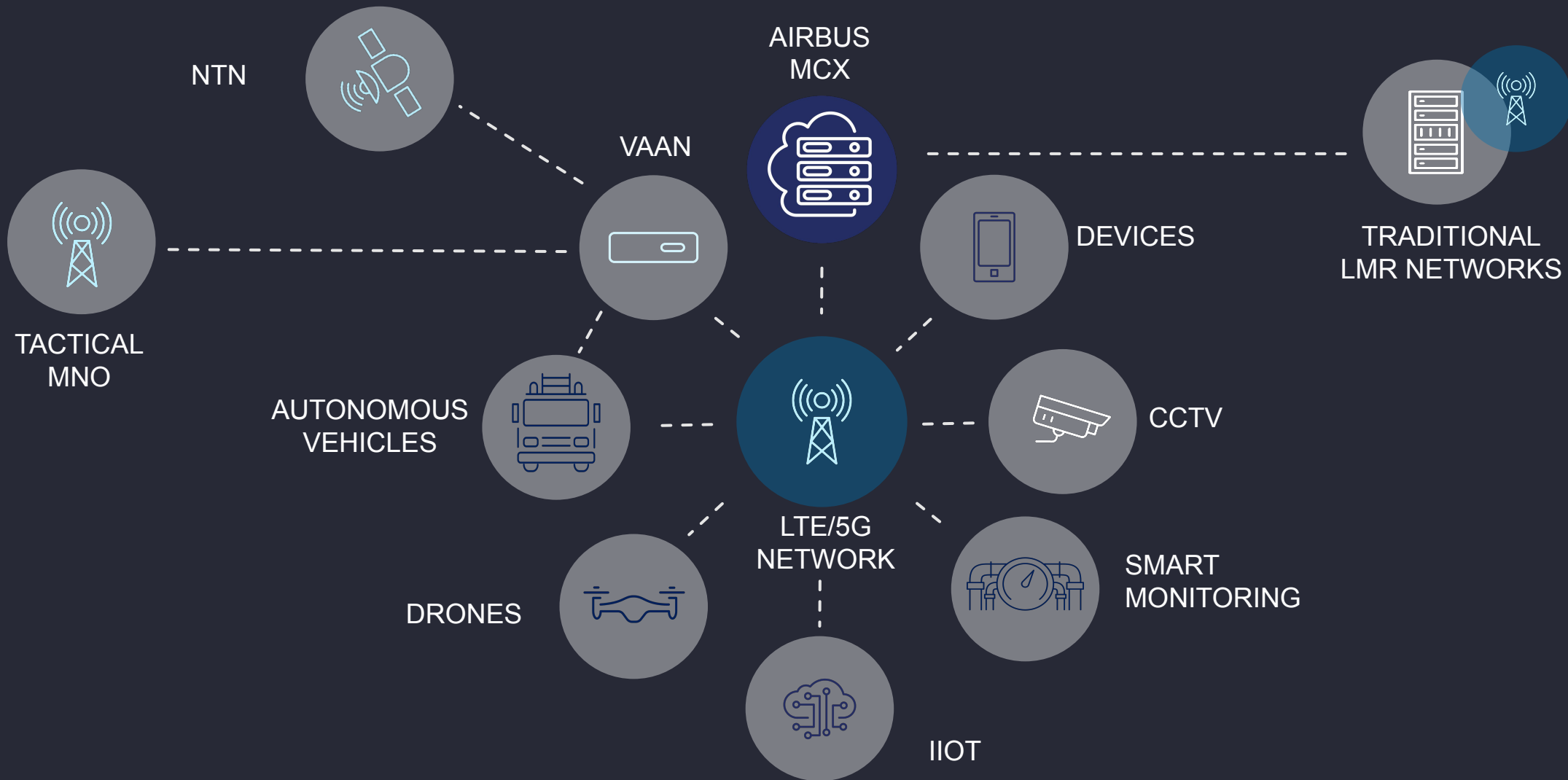
CAPGEMINI SELECTED AS THE PRIME PARTNER



ARAMCO DIGITAL intends **to design, deploy and operate a specialised radio network in the 450 MHz spectrum** band across KSA. With this 5G MCX network, ARAMCO DIGITAL plans to:

- 1) Address the mission critical & industrial connectivity use cases at Aramco sites across KSA
- 2) Expand with specialised mobile connectivity services for B2B clients across the Kingdom.

Hub & Spoke – Return on investment



Use Cases - Expanding set of features with MCX - LTE/5G AIRBUS

NOW

Existing with TETRA/P25
Supported by LTE/5G



NEW

Enabled by LTE



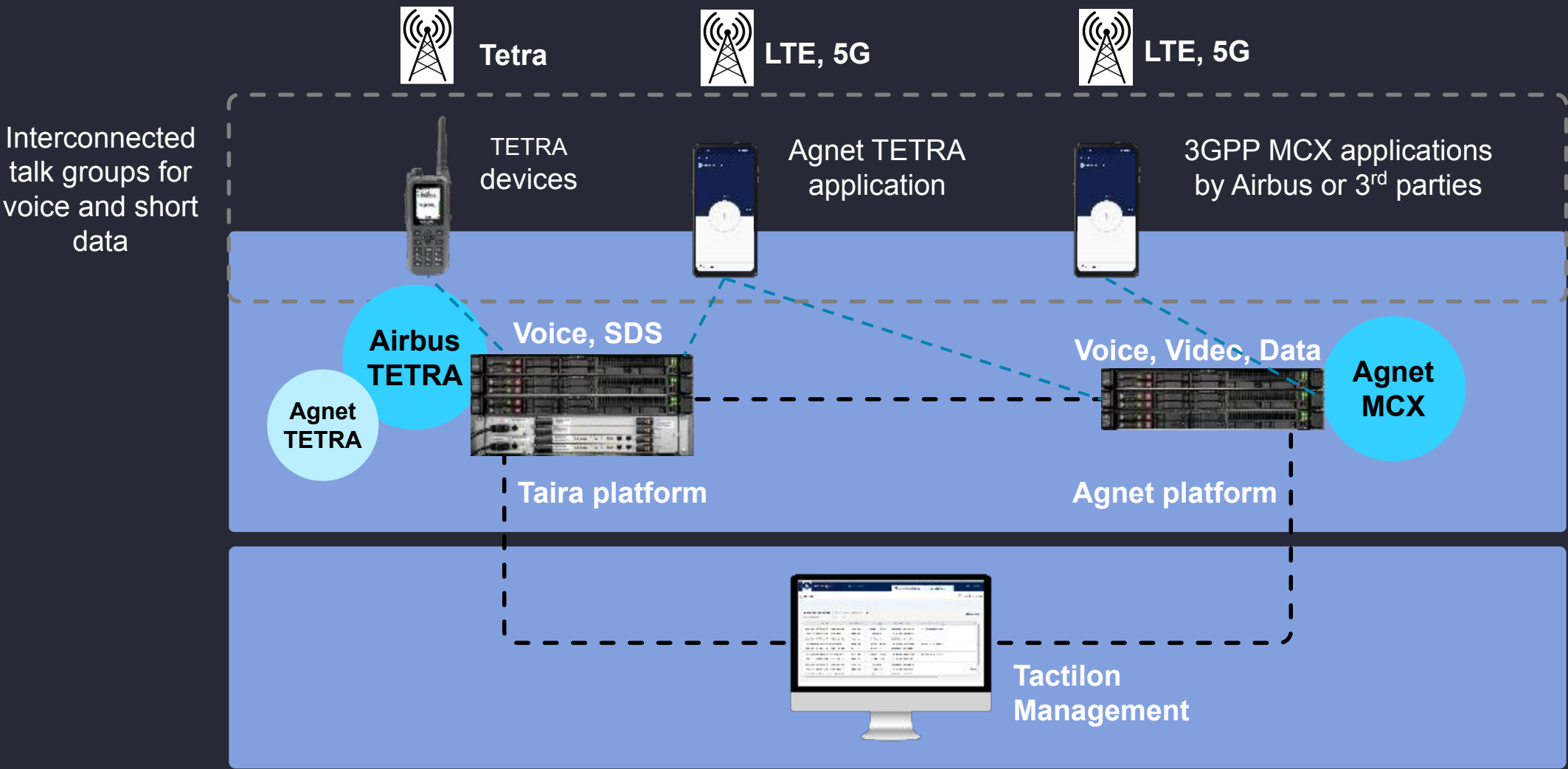
NEXT

5G Native



One-to-One/Many MC Voice (PTT)	Large set of accessories	One-to-One/Many MC Video MC Data	Cross-border Comm. (Roaming)	MC 'slice'	Massive real time 4K video (requiring UL)
Direct Mode *	Location Services	Interworking with LMR	Ambient & Discreet Listening	PS private Networks / Edge	Real time biometric data
Recording		Enhanced Real time Location Tracking	Integrated Map	Edge on the move	XReality
Privacy mode		Interoperability between MCX App. Servers	IoT Integration	Proximity services (Direct mode over 5G)	5G NTN Satellite / HAPS
API (Control Rooms)		Interworking with Wifi	3GPP	Drones fleet with 4K video	... and many more to come
End-user group selection		Device/App Management	Lone Worker Protection	Autonomous / teleoperated drones / robots	

Agnet Tetra - Pathway to Convergence



Agnet TETRA STRATEGY TOWARDS OPEN ECOSYSTEM

AIRBUS



TETRA integration

Focus on essential TETRA functionalities on smartphones to ensure voice communication and system interoperability



Multimedia expansion

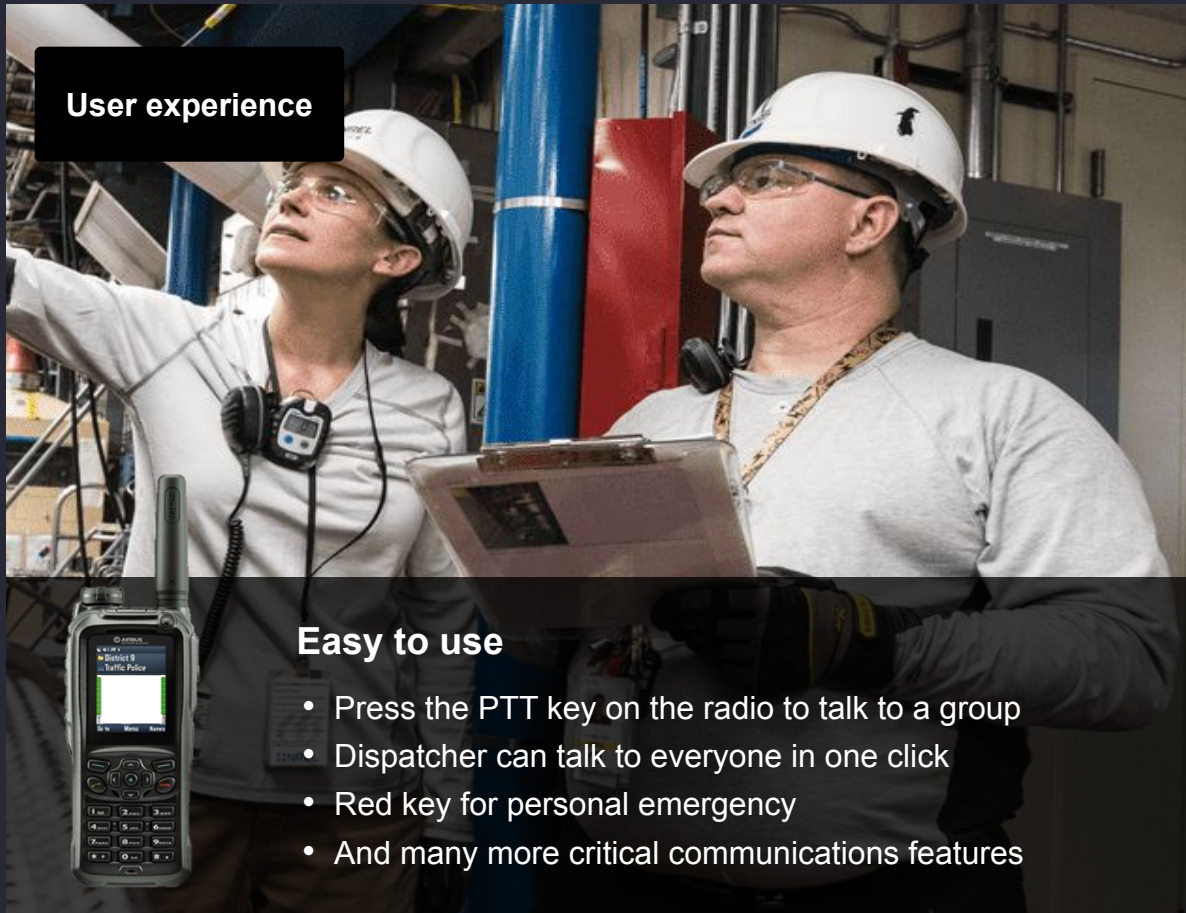
Integrate value-adding multimedia features with optional activation based on customer requirements



3GPP MCX alignment

Ensure product evolution aligns with 3GPP MCX standards to enable future-proofing and scalability

Start – TETRA Radio Communications



User experience

Easy to use

- Press the PTT key on the radio to talk to a group
- Dispatcher can talk to everyone in one click
- Red key for personal emergency
- And many more critical communications features

Dynamic user management

Control room and dispatching

Tactilon Management

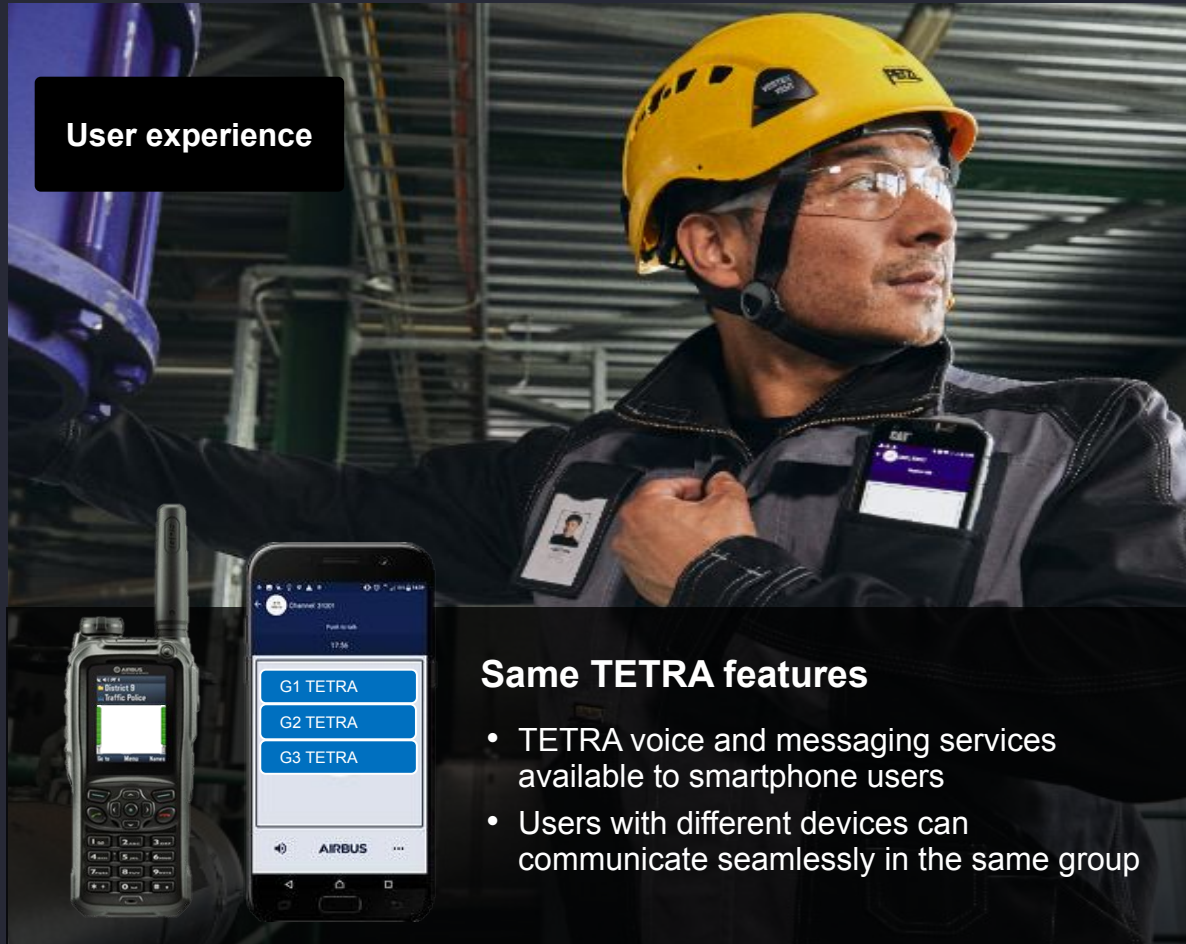
TCS API

TETRA applications

Scalable and reliable

- From local to large-scale nationwide networks
- Commitment to ongoing R&D on TETRA systems for years to come

Step 1 – Hybrid with TETRA Broadband



User experience

Dynamic user management

Tactilon Management

Control room and dispatching

TETRA Connectivity Server API

TETRA applications

Same TETRA features

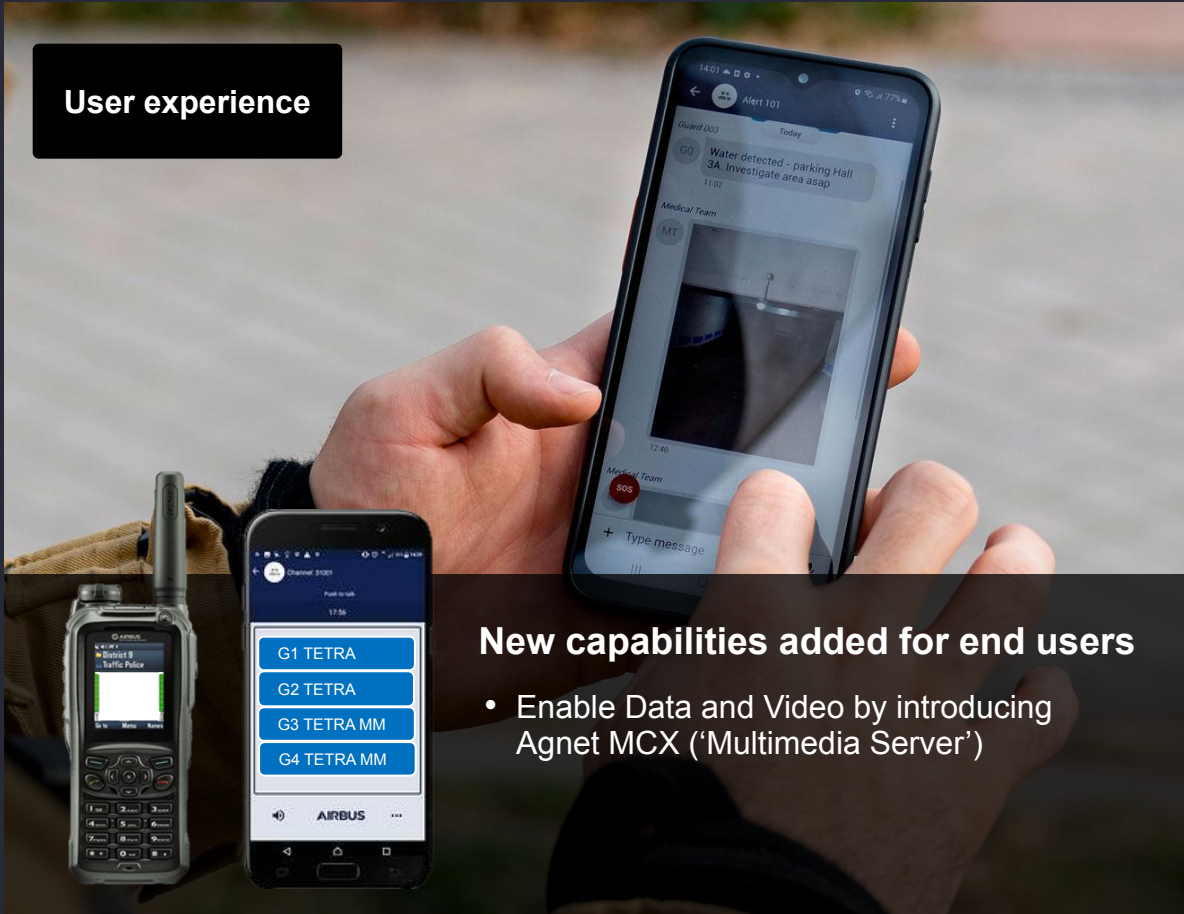
- TETRA voice and messaging services available to smartphone users
- Users with different devices can communicate seamlessly in the same group

No changes to existing processes and tools

- Unified user and network management
- No changes required to control room applications

Select broadband connectivity and suitable devices

Step 1 – Add Multimedia Services



Dynamic user management

Control room and dispatching

Tactilon Management

TCS API

Platform API

TETRA applications

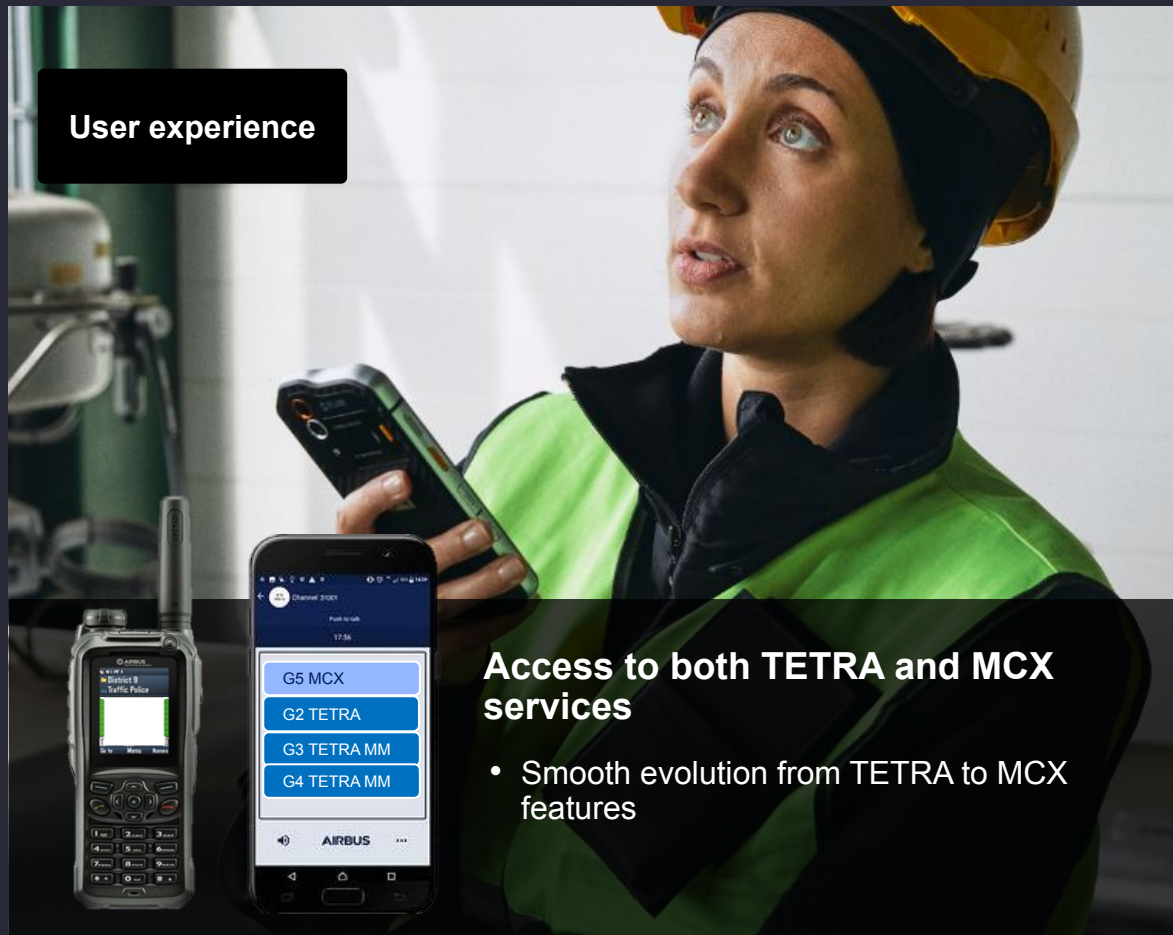
MM applications

Complement existing TETRA services

- Independent MCX evolution
- Keep unified user and network management
- Possibility to start control room application evolution

Step 2 – Mission Critical Voice from TETRA to MCX

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Dynamic user management

Tactilon Management

Control room and dispatching

TCS API

MCX API

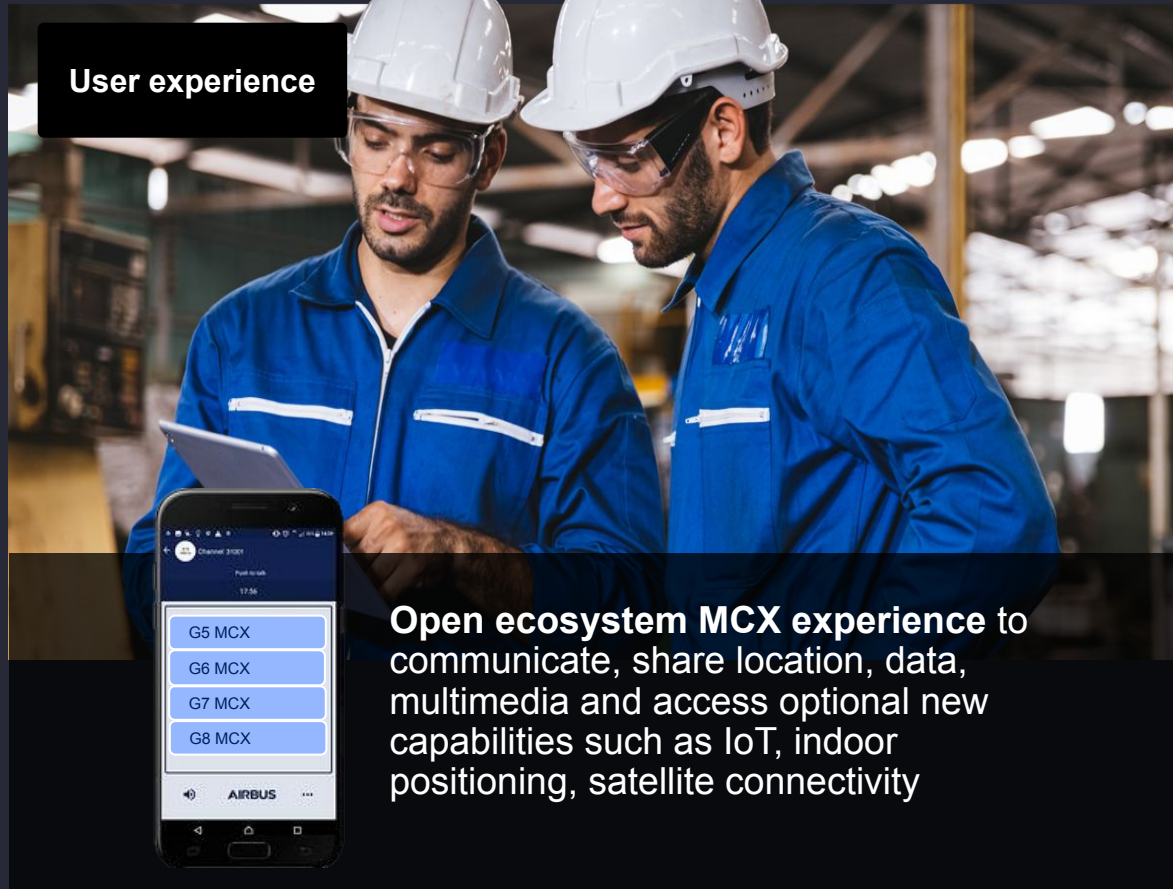
TETRA applications

MCX applications

Flexible, seamless and easy migration of TETRA services

- Talk group per Talk group
- Legacy control room applications can still be used
- Transition controlled from unified Tactilon Management
- Start migration of control room applications

Step 3 – Full Transition to 3GPP MCX



Dynamic user management

Tactilon Management

Control room and dispatching

TCS API

MCX API

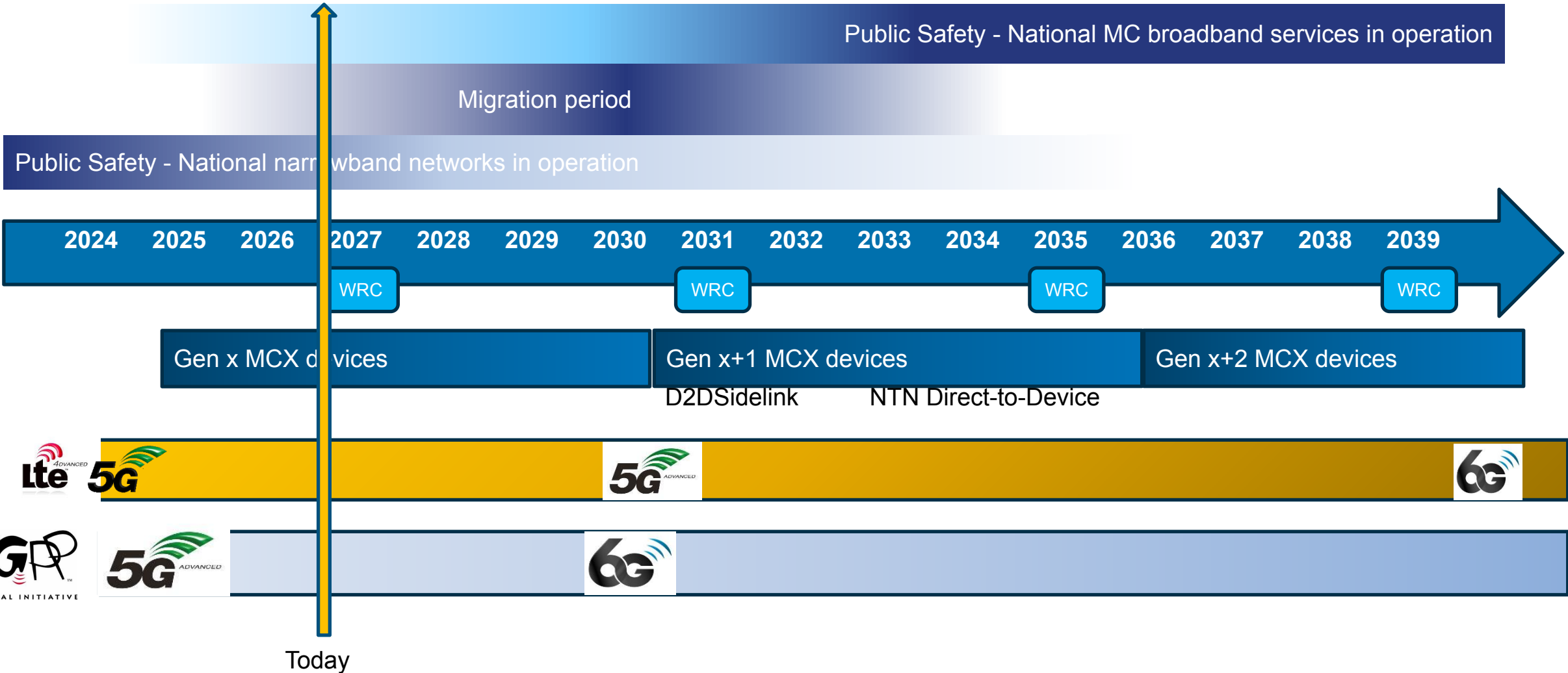
TETRA applications

MCX applications

Full shift from TETRA system to 3GPP MCX

- Legacy Control Room applications can still be used with MCPTT services
- No changes in Tactical Management and Provisioning
- MCX interoperability

Putting things into Context - Public Safety





Delivering the future of critical collaboration

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