



TCCA Mission Critical Broadband Update

Tero Pesonen



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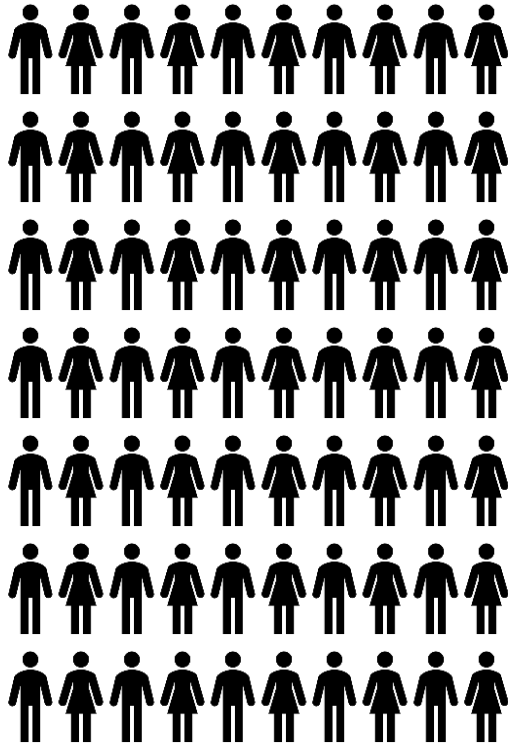
Tero Pesonen, TCCA CCBG chair

11/2024

Advancing global critical communications for a safer, more connected world



Need to cooperate - globally



7 billion consumers



0,1 billion critical communications users^(*)

*) generous estimation including all critical communications sectors

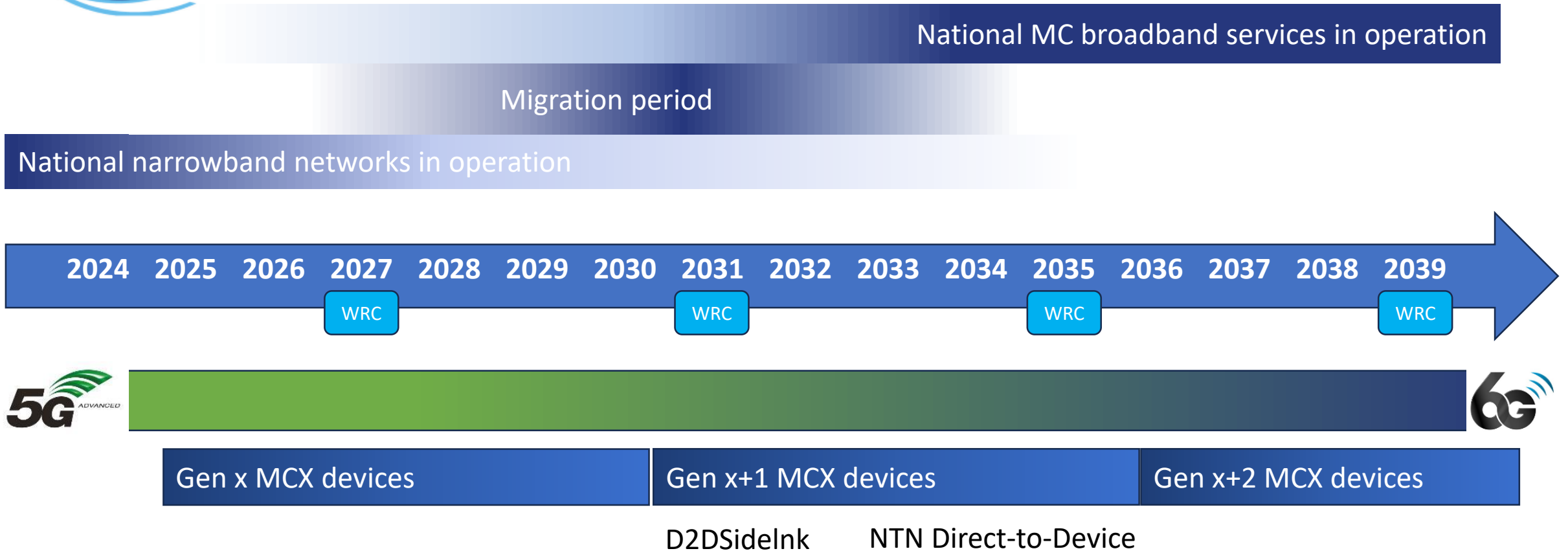


Continuous technology evolution



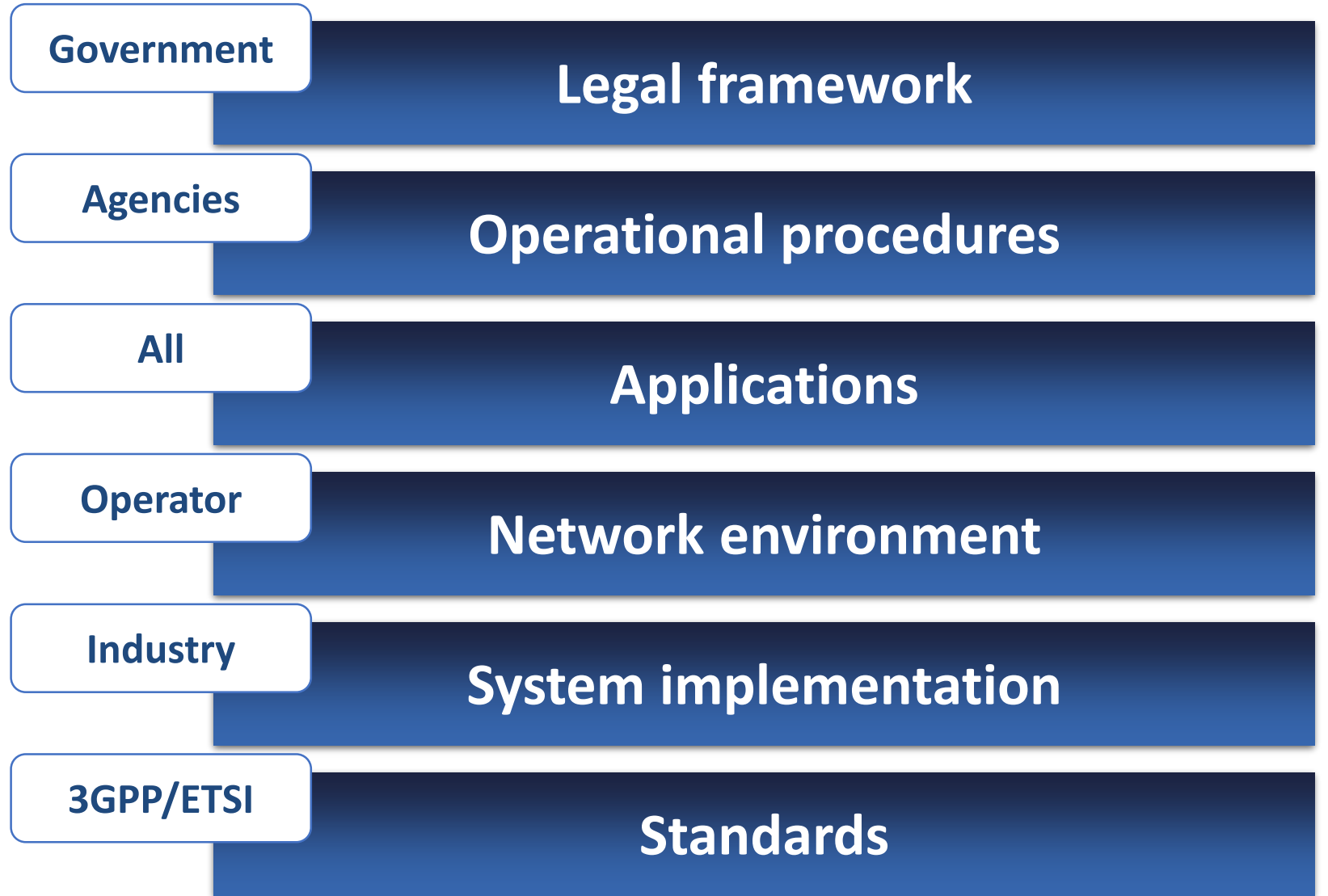


Putting things into context





Common eco-system layers





Legal and Regulatory work



Legal and Regulatory

Quality of Service, Priority and Pre-emption (QPP) on commercial networks

Procurement requirement for 3GPP conformance certification

Physical security of the telecommunications infrastructure used for critical communications (in members enquiry)



Let's talk about promise

A GLOBAL INITIATIVE

Done already

Mission Critical Services defined in the standard

QPP (Quality, Priority and Pre-emption)

On-going work

Device-to-Device (D2D)

Satellite-to-Device (NTN)

Control Rooms

Certification

Coming up

6G

Sensing

XR



TCCA **6G** position

TRUST



MCX testing & certification work with ETSI and GCF

Testing

- ETSI plugtests FRMCS & MCX annually – standard verification & mutual cross-testing
 - Next at Texas A&M College Station, 2/2025



Certification

- GCF MCS workstream – conformance & field testing
 - **Activation 6/2024:**
Release 14 MCPTT conformance
- **Performance & interoperability in the horizon**

Guidance: Include in procurement – demand certified products



European Critical Communication System for law enforcement and emergency services, EUCCS



- EU and Schengen
- Cross border Mission Critical Broadband Communications
- “Systems of systems”
- An EU-component
- A legislation
- Operational by 2030

(<https://broadeu.net/>)



Different approaches to Broadband

Spectrum

Dedicated
Dedicated assigned
Commercial
Traded

Service model

Dedicated
MOCN
MVNO
Outsourced

Transition

No legacy responsibility
Cut-off date
User decision

Mandatory/voluntary

MOCN = Multiple Operator Core Network
MVNO = Mobile Virtual Network Operator



Consultations, preparations and operation





Consultations, preparations and operation





Summary

MC Broadband

**CAN BE TAKEN
INTO USE**

Procurement

**3GPP
COMPLIANCE
CERTIFICATION
CAN BE
REQUIRED**

Future

**CONTINUOUS
EVOLUTION IS
POSSIBLE AND
OBLIGATORY**



The poster features a background image of a Brussels street scene with a large floral carpet and a tall Gothic spire. Overlaid on the right side is a dark blue graphic with red and white curved lines. The event title 'TCCA CRITICAL COMMUNICATIONS WORLD 2025' is written in white and red. Below it, the text 'SAVE THE DATE' is in large red letters, followed by '17-19 JUNE 2025' in white. The location 'BRUSSELS EXPO, BRUSSELS, BELGIUM' is also in white. At the bottom, a red banner contains the website 'WWW.CRITICAL-COMMUNICATIONS-WORLD.COM' in white.

TCCA
CRITICAL
COMMUNICATIONS
WORLD 2025

SAVE THE DATE

17-19 JUNE 2025

BRUSSELS EXPO, BRUSSELS, BELGIUM

WWW.CRITICAL-COMMUNICATIONS-WORLD.COM



Thank you



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TCCA CCBG

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KÖSZÖNJÜK A FIGYELMÜKET!