





INDIA SPECTRUM MANAGEMENT CONFERENCE 2024

CRITICAL COMMUNICATIONS

7 NOVEMBER 2024

Kevin Graham-TCCA Chief Executive Officer

TCCA For all in critical communications



Public Safety – police, fire & rescue, ambulance, customs, military ...

Critical Infrastructure – power, heat, water utilities ...

Transport – railways, subways, buses, highways, airports, ports ...

Resource & industrial – oil & gas, mining ...



Core Critical Industry Communications requirements.

- Coverage
- Availability
- Resilience
- Performance & interoperability
- Security
- Scalability
- Functionality & device suitability

Connection is *literally* the lifeline





We support open and standardised mobile critical communications technologies and complementary applications.



3GPP Market
Representation Partner.
Catalysing competitive
multivendor markets
worldwide through open
standards.



Our members include users, operators, industry and other stakeholders globally all sharing knowledge and experience.



Collaborative working across the critical communications ecosystem to develop and drive the most effective solutions for all.



Need to co-operate – locally, regionally & globally

>7 billion Consumer devices



..Hello
<< 0.1 billion critical communications user devices</p>



Power of partnerships and collaboration:





































Our Focus

CI User requirements to solutions

Regulatory & Spectrum policy

Broadband security

Broadband testing and certification

TETRA IOP process and technology development

Future technologies and applications

Promoting and growing critical communications community



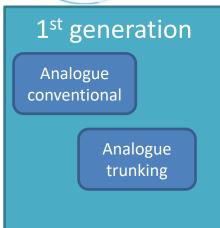
TCCA Continuous technology evolution

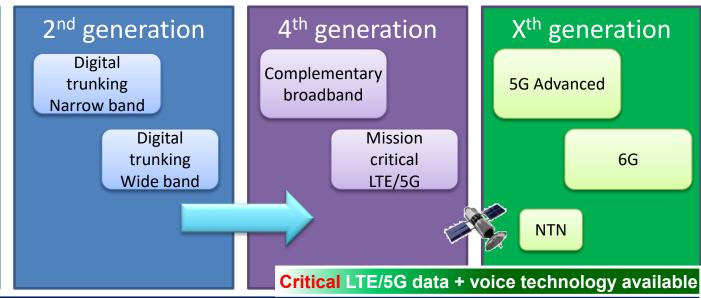




Critical communication evolution-

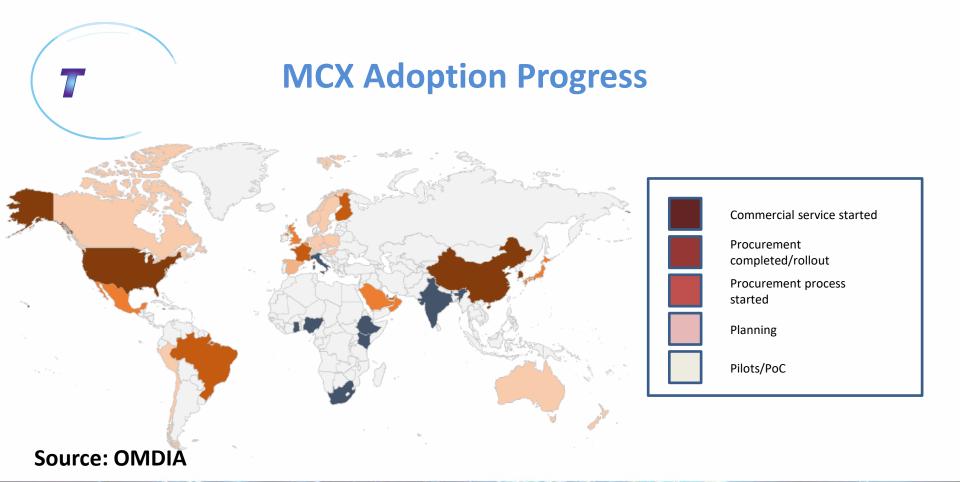
a standards journey

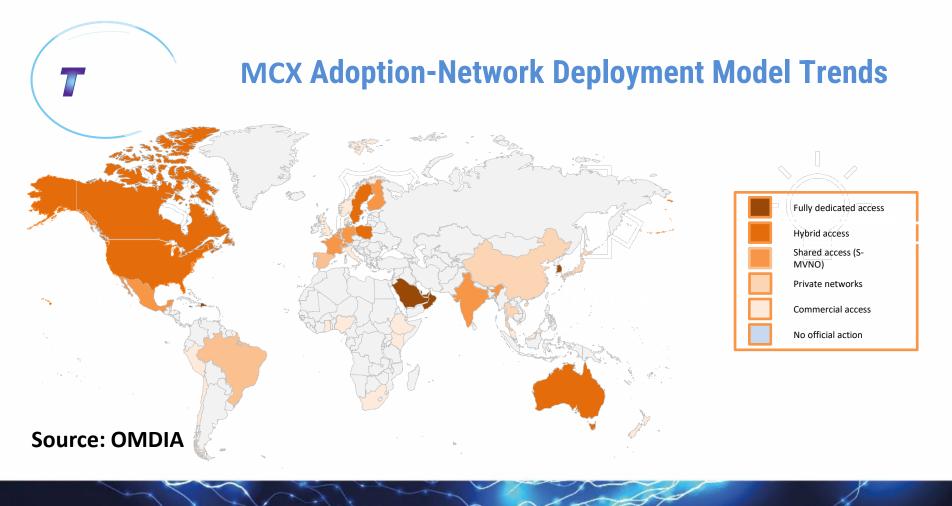




TETRA/P25 technologies are available

2000 2020 2030







MC PS/Gov't Broadband active projects





Critical Comms Broadband Work Group(CCBG)

Standards





Spectrum



Band 68 380 MHz 400 MHz

High Power UE D2D sidelink 6G

Guidance

What role will 5G play for Critical Communications users?

MC Broadband Device Procurement

MC Broadband Applications

QPP in commercial networks (published)

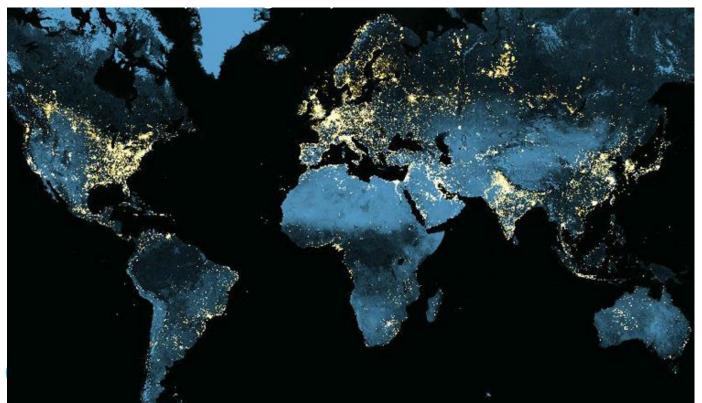
MC Device API (published)

Service Overview TETRA IWF (published)

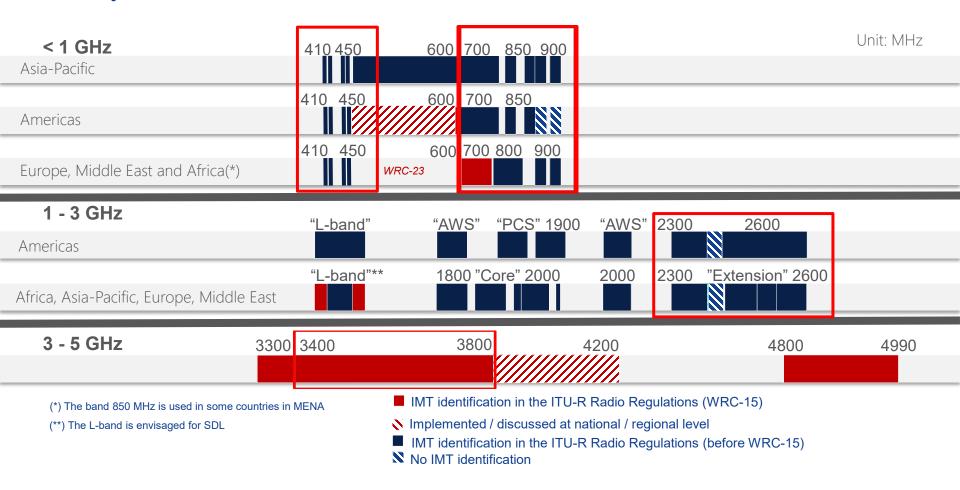
Control Room integration guideline (near publishing)



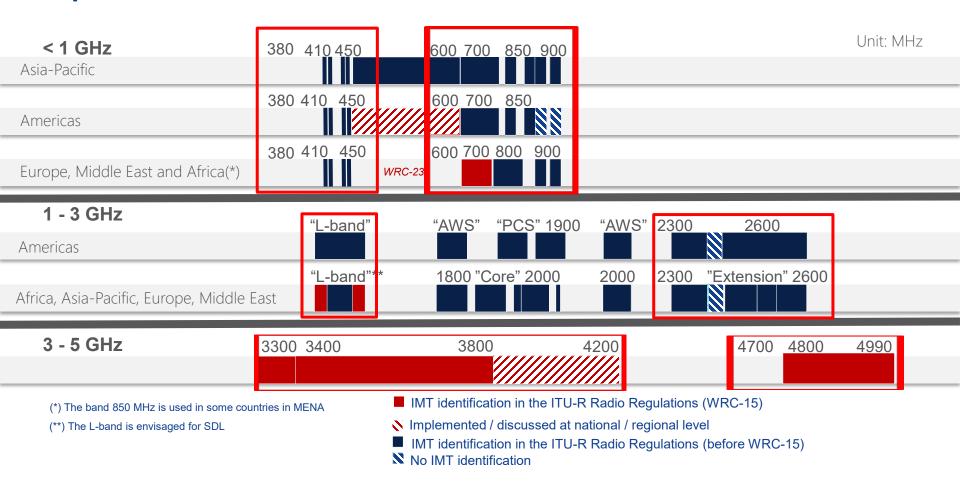
Spectrum Matters- Focus Globally & Support Regionally



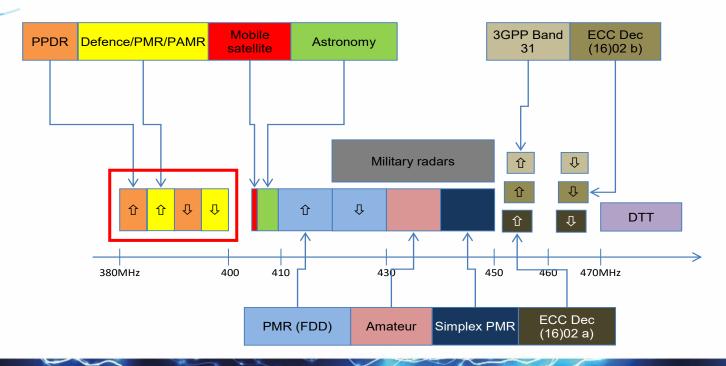
Spectrum used for current mission critical communications



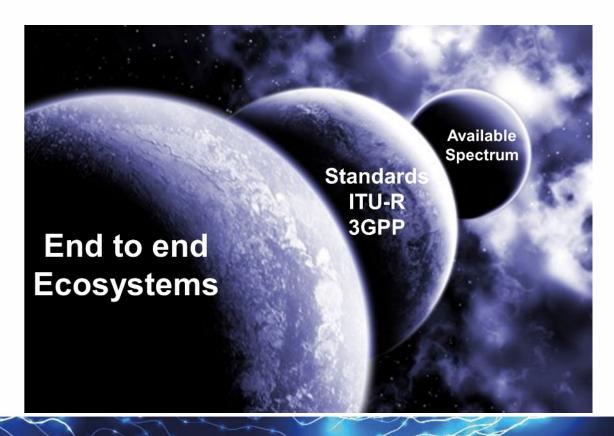
Spectrum for current and future mission critical communications



Three FDD frequency ranges 380-400 MHz, 410-430 MHz and 450-470 MHz



Mission Critical broadband market opportunities



Presentation on behalf of TCCA



GCF MCS Certification launched 6/2024

Device and Mission Critical application client conformance to

3GPP Release 14 MCPTT can now be certified

3GPP Release 15 with MCData and MCVideo to follow soon

Progress towards server2server cert. & field interoperability





Success in cooperation- Call out for all

Four streams



Local & International cooperation



Cooperation between network providers, industry and end users



Cooperation between different sectors



Cooperation for innovation & evolution

Support critical communication regulation, standardisation and certification



WWW.CRITICAL-COMMUNICATIONS-WORLD.COM

Questions? Thank You





Kevin Graham

Chief Executive Officer –TCCA

Email: kevin.graham@tcca.com

Mobile: +61(0)408 571 556 & WhatsApp

TCCA

www.tcca.info
Find TCCA also on



www.linkedin.com/company/tcca-critical-communications/



www.facebook.com/tccacritcomms



@TCCAcritcomms



www.youtube.com/user/tandcca