



RSPG Workshop “The future of the 470-694 MHz band within the EU”

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Advancing global critical communications for a safer, more connected world



What is critical communications?





Critical Communications requirements

COVERAGE

AVAILABILITY

RESILIENCE

PERFORMANCE

SCALABILITY



CONNECTION IS THE LIFELINE

• **24/7/365**



**Instant
service**

FUNCTIONAL SUITABILITY

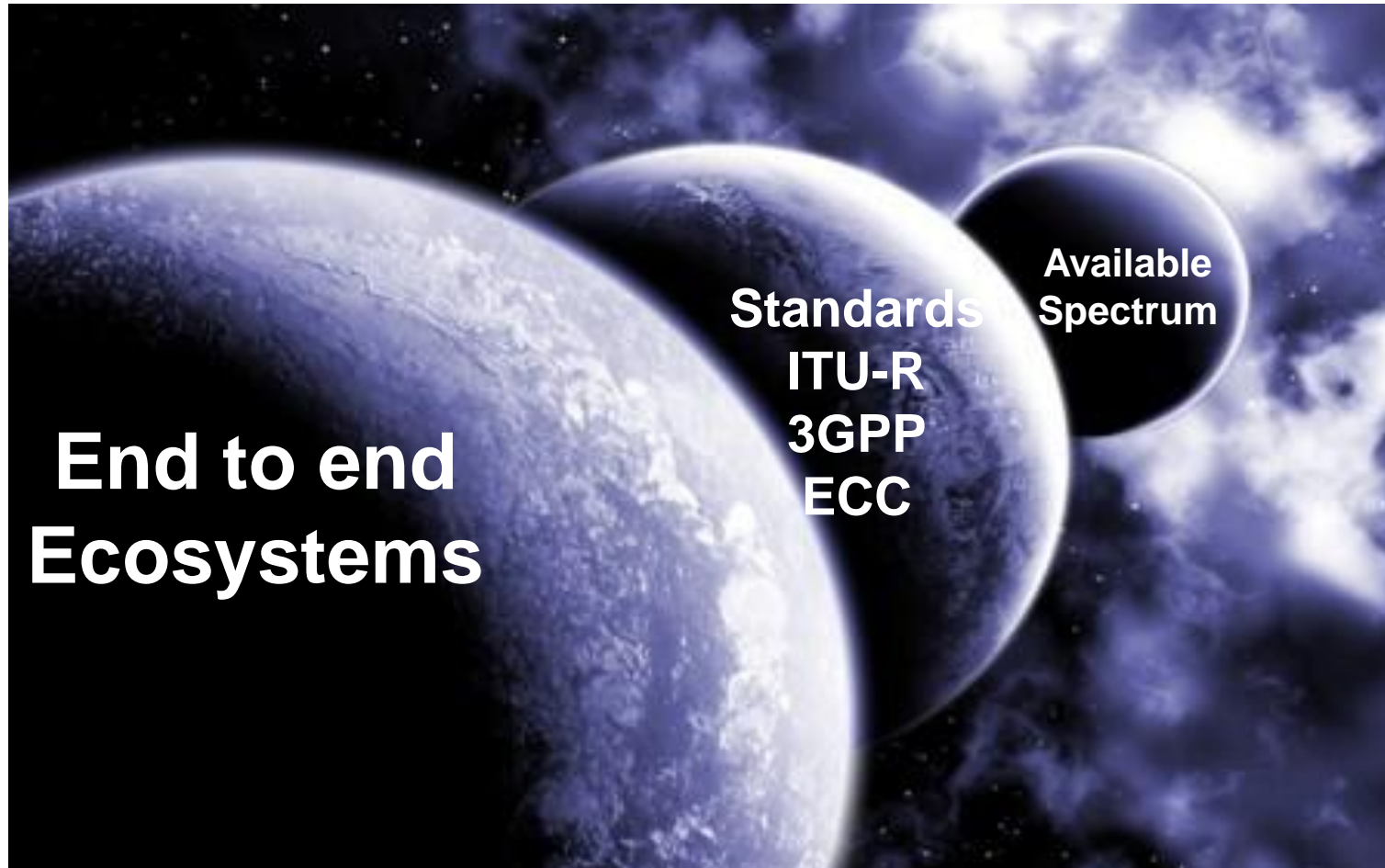


Partnerships and collaboration forums include



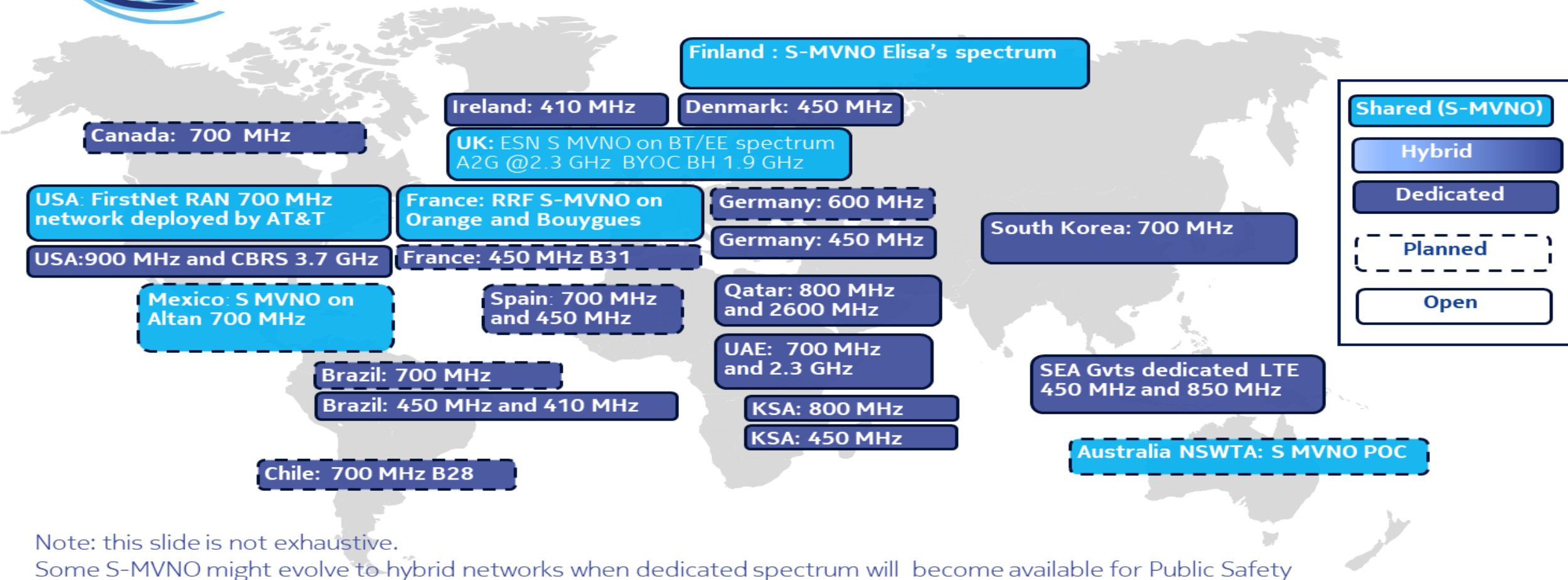


Critical communications broadband market challenges





Global critical communications network deployments



Note: this slide is not exhaustive.

Some S-MVNO might evolve to hybrid networks when dedicated spectrum will become available for Public Safety



Spectrum used for critical communications networks

Unit: MHz

< 1 GHz

Asia-Pacific

Americas

Europe, Middle East and Africa(*)

1 - 3 GHz

Americas

Africa, Asia-Pacific, Europe, Middle East

3 - 5 GHz

(*) The band 850 MHz is used in some countries in MENA

(**) The L-band is envisaged for SDL

■ IMT identification in the ITU-R Radio Regulations (WRC-15)

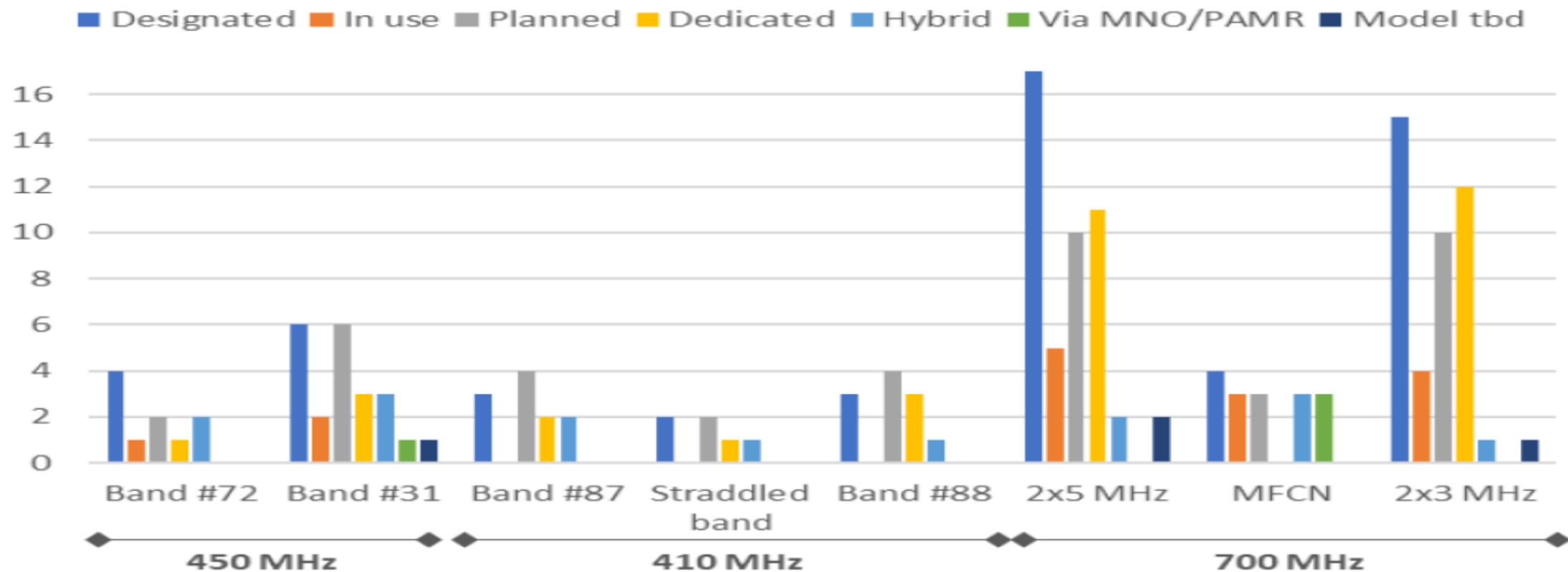
▨ Implemented / discussed at national / regional level

■ IMT identification in the ITU-R Radio Regulations (before WRC-15)

▤ No IMT identification

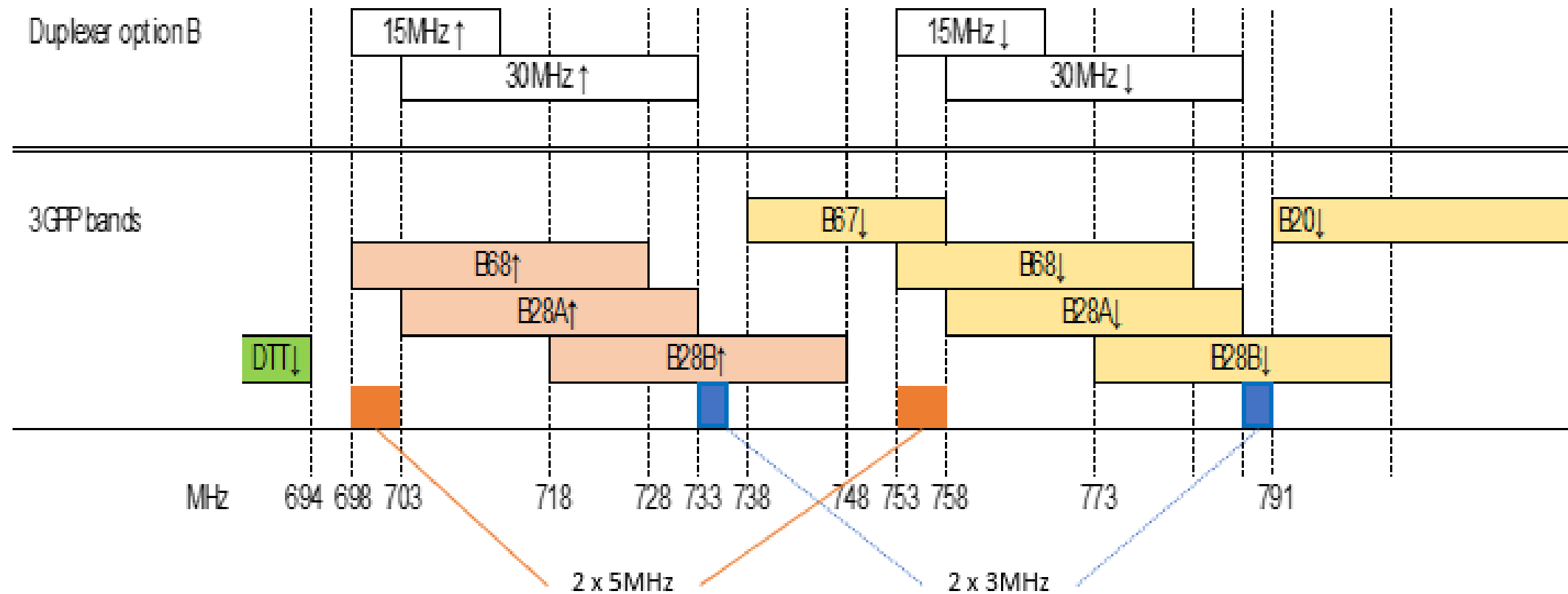


CEPT ECC WG FM Questionnaire on spectrum for BB-PPDR





700 MHz 2x5 MHz of Band 68 and 2x3 MHz of Band 28

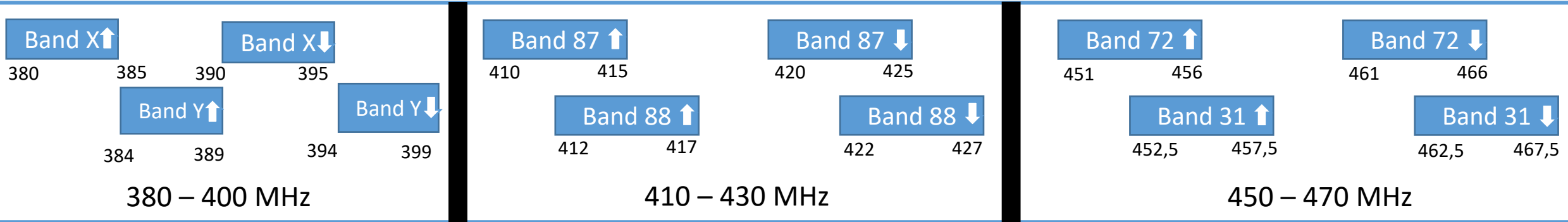




3GPP FDD 4G and 5G NR Bands currently in scope and planned



promoting the advancement of 450 MHz worldwide.



Roadmap towards a new or updated 3GPP standard:

- 1 Submit a Work Item to 3GPP RAN Plenary
- 2 Formalise equipment standards ETSI and ECC
- 3 Spectrum assignments by national administrations



Typically 3 – 5 years



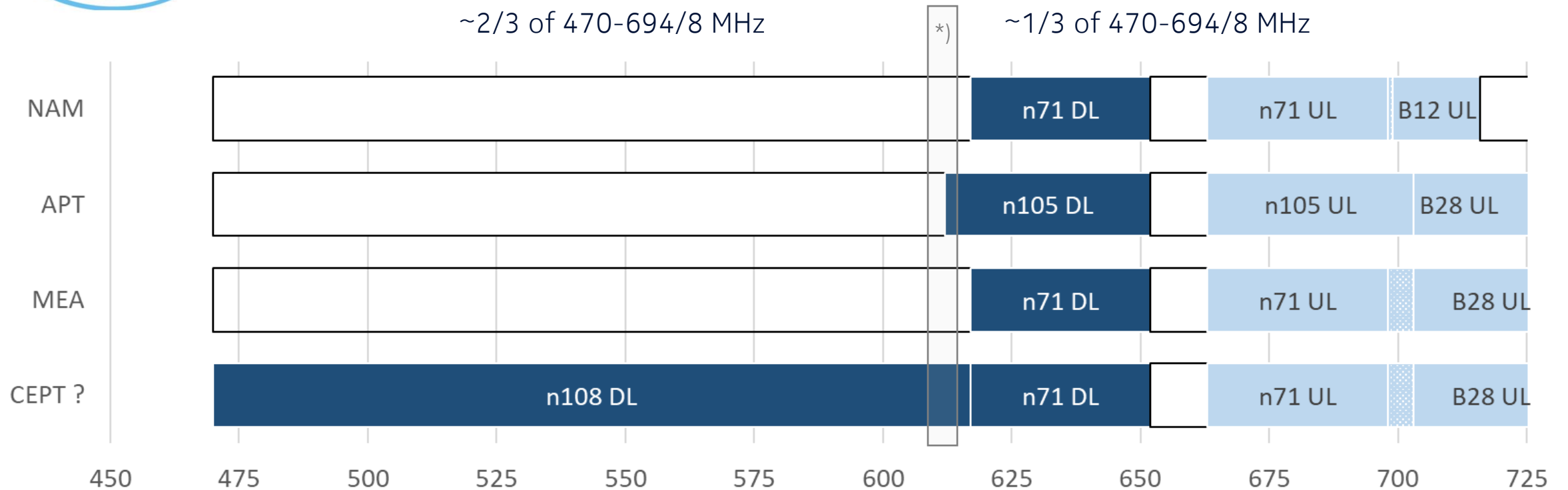
Support Critical Communications (BB-PPDR) use in UHF band 470-694/8 MHz



Some administrations have expressed interest in **using a portion of the frequency band 470-694 MHz for PPDR applications**, depending on the evolution of the need for broadcasting, **with requirements ranging from 2×10 MHz to 60 MHz (FDD)**. Part of this PPDR requirement could be also satisfied in bands above 698 MHz.



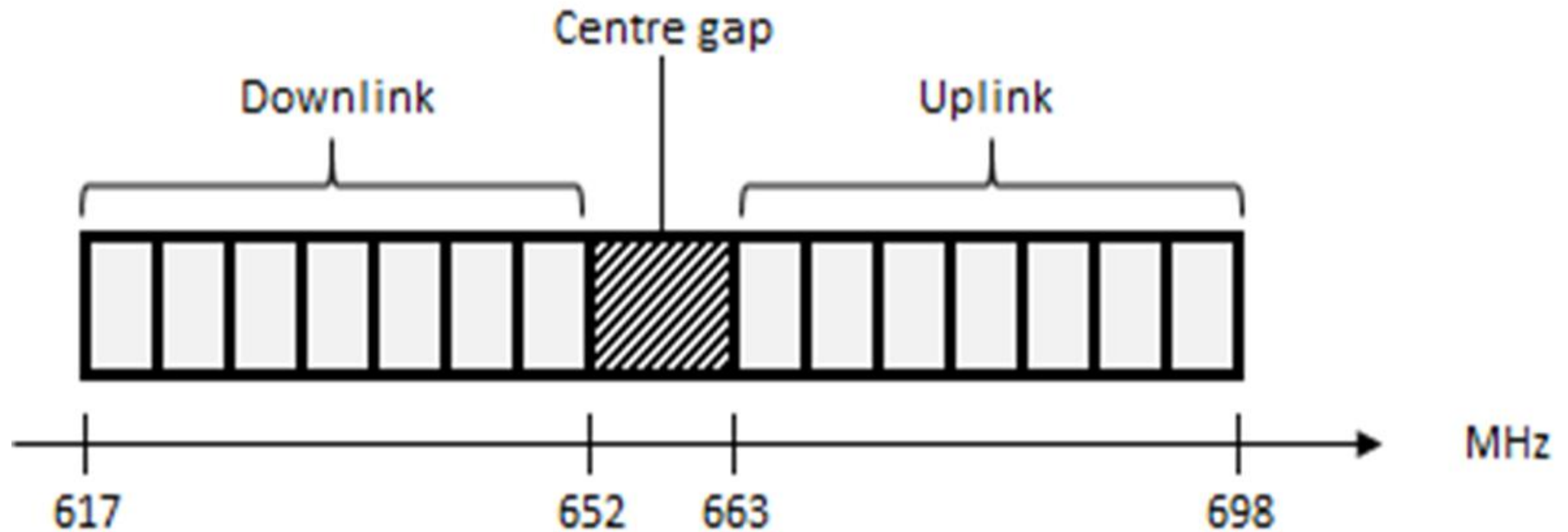
Global 470-694/8 MHz 3GPP options



*) Radio Astronomy channel 606/608-614 MHz



3GPP 600 MHz Band 71/n71 2x35 MHz





Thank you
Any Questions ?

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