

CONNECTED:

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of the world's population are now using mobile internet



→ 4.6 billion

But the rate at which people were adopting mobile internet remained

FLAT
in 2023

COVERAGE GAP:

4%

of the world's population are still not covered by mobile broadband





USAGE GAP:

39%

of the world's population live within the footprint of a mobile broadband network but are not using it



3.1bn

2/3 of which do not own a phone

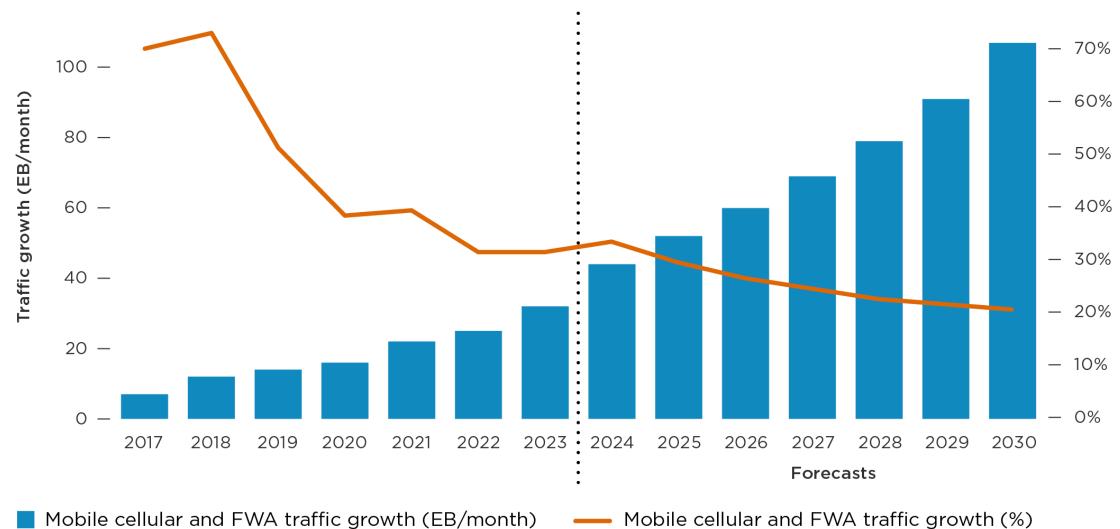
WRC-27 can deliver **HARMONISATION** and **SCALE** to support affordability and lower the usage gap.

It can **ENABLE NEW TECHNOLOGIES** which, coupled with the right regulation, can help support coverage.

Global mobile cellular and FWA traffic year-on-year growth



EB per month







Next mobile generations must embrace:



Universal meaningful connectivity



Quality and consistency



Sustainability and energy efficiency

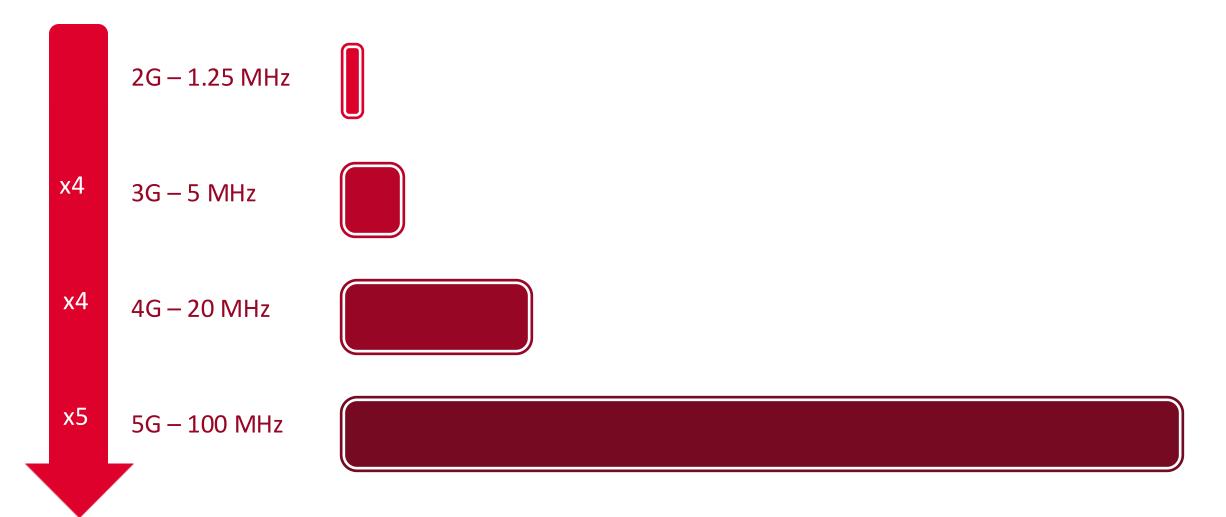


Massive capacity for more devices

"By delivering ever-present intelligent communication, 6G will contribute to the creation of a more human-friendly, sustainable and efficient society."

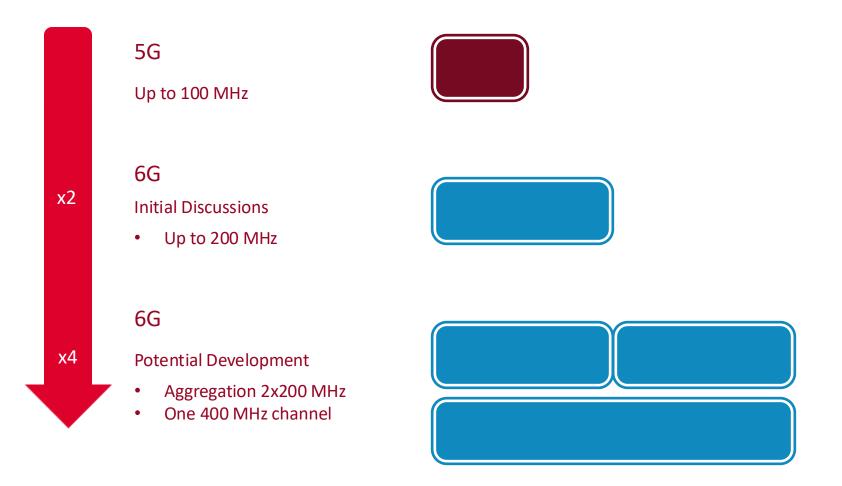
History of Channel Bandwidth





Future of Channel Bandwidth?





- Re-use of existing spectrum and support for wider bandwidths needed
- Industry discussions ongoing regarding extension of bandwidth
- 3GPP RAN 6G Workshop in March 2025
- 400 MHz channels may form part of initial discussions or may be a later development.
- 6 GHz trials used bandwidths between 80 and 400 MHz - the highest speeds were delivered with widest channels

Finding Bandwidth



3.5 GHz



4.5 GHz



6-8 GHz

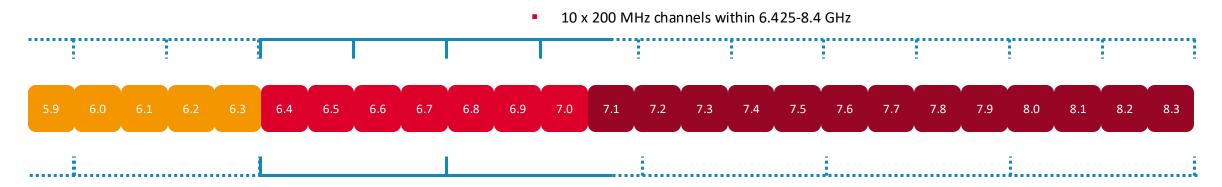




Finding Bandwidth



5.925 GHz 7.125 GHz 8.4 GHz



- 5 x 400 MHz channels within 6.425-8.4 GHz
- Multiple 200 MHz and 400 MHz channels are possible between 6-8 GHz
 - 5 x 400 MHz channels within 6.425-8.4 GHz
 - 10 x 200 MHz channels within 6.425-8.4 GHz
 - Potential extension below 6.425 MHz in some countries

- Sharing possibilities with existing users within 7-1-8.4 (or parts) to be investigated
- Balance between available spectrum and number of operators
- Global tuning range facilitates global ecosystem with regional/national usage varying



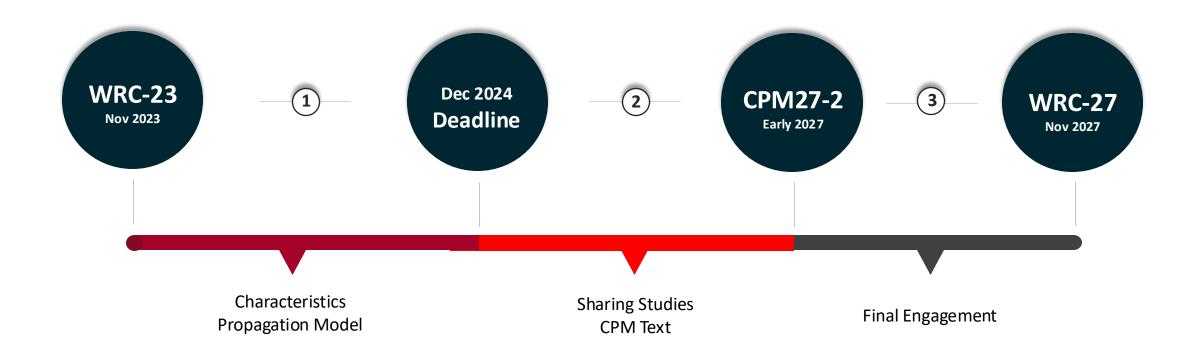


Agenda Item 1.7

Region 1	Region 2	Region 3
4 400-4 800 MHz		4 400-4 800 MHz
7 125-7 250 MHz 7 750-8 400 MHz	7 125-8 400 MHz	7 125-8 400 MHz
14.8-15.35 GHz	14.8-15.35 GHz	14.8-15.35 GHz

WRC Timeline





AI 1.7 Sharing Studies IMT-2030 / 6G

GSMA

14.8-15.35 GHz

EESS (passive)

SRS (passive)

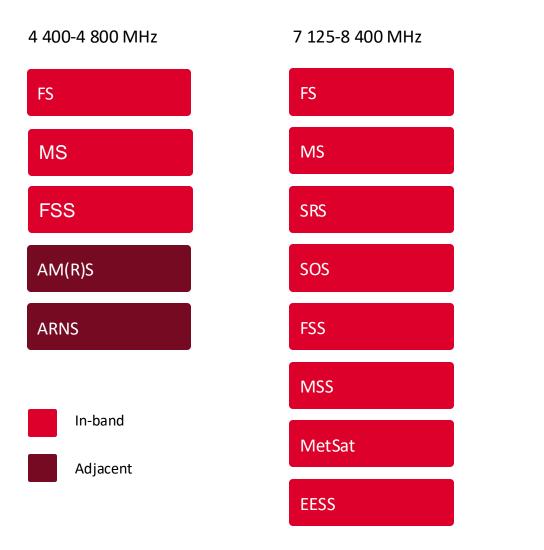
FS

MS

SRS

RAS

- Govt Users
- Space Research
- Space Operation
- Meteorological Satellites
- Mobile Satellites
- Fixed Satellites
- Earth Exploration Satellites
- Fixed Links
- Adjacent Incumbents



Next steps for consideration towards WRC-27



- Contribute to ITU-R sharing studies
- Take into account APT regional sharing considerations
- Continue global outreach & coalition building towards WRC-27
- Global / regional 6G spectrum roadmap





For the benefit of all

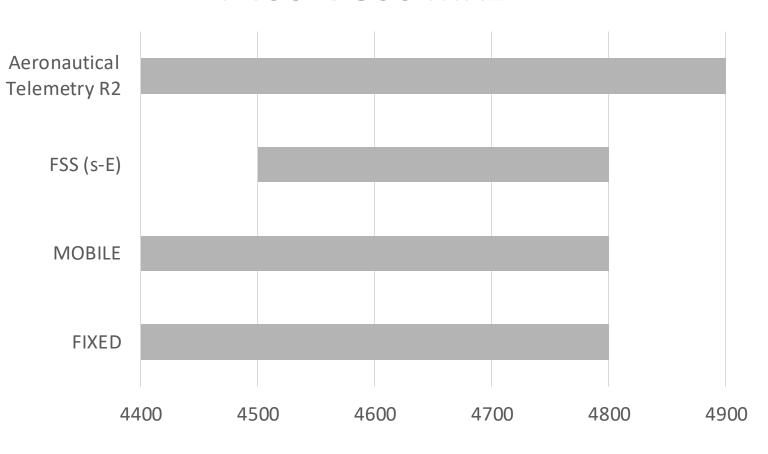
Mobile means a fairer world. It brings opportunities to prosper, learn, laugh and love, allowing everyone to live their lives to the full.

Al 1.7 – 4 400-4 800 MHz



4 400-4 800 MHz

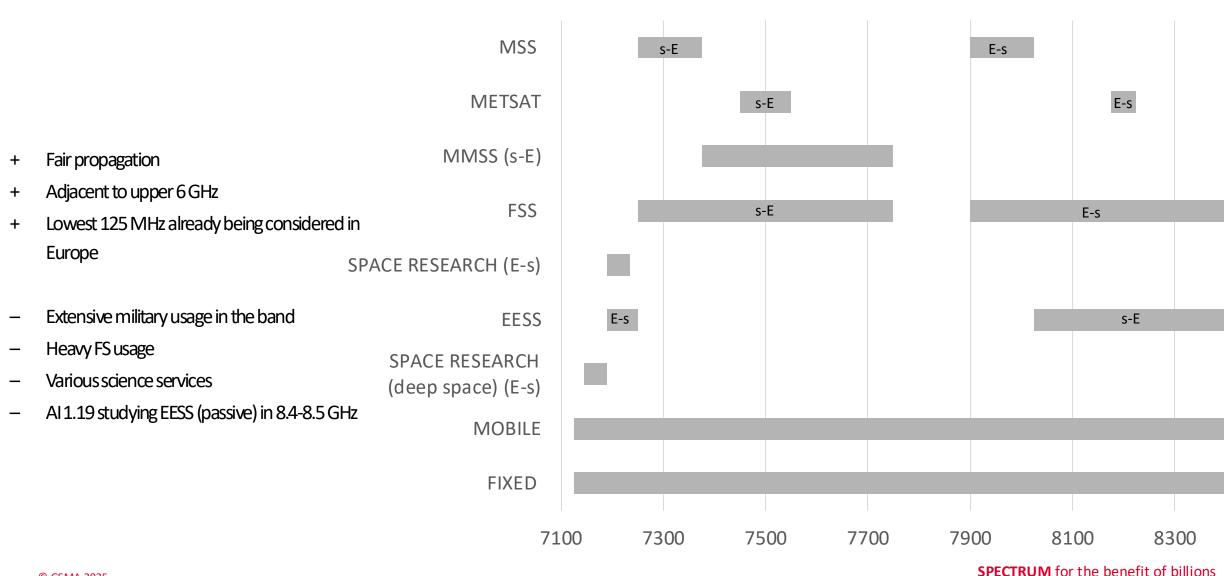
- + Good propagation
- + Little usage of FSS in the band in some regions
- Extensive military usage in the band (fixed and mobile, including aeronautical)
- Adjacent to radio altimeters in 4.2-4.4 GHz
- FSS is a planned band (Appendix 30B)
- Al 1.19 studying EESS (passive) in 4.2-4.4 GHz







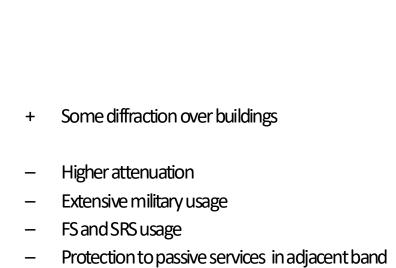
7.125 - 8.4 GHz

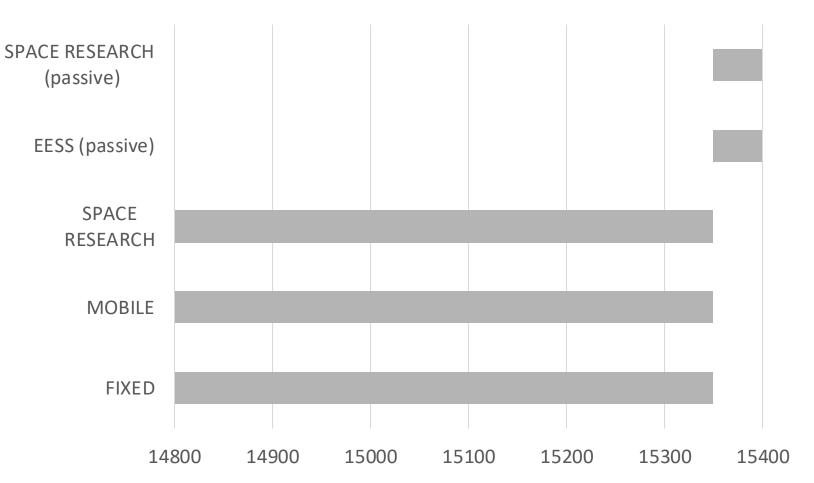


AI 1.7 – 14.8-15.35 GHz



14.8 - 15.35 GHz





15.35-15.4 GHz