

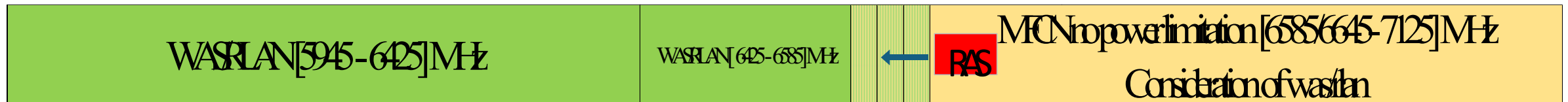
Spectrum Allocation and Regulatory Challenges in Europe

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WWRF Huddle - 2025

Upper 6GHz

- **EU Mandate to CEPT on upper 6 GHz**
 - **July 2027:** draft harmonised technical conditions
 - *CEPT shall take due account of the RSPG Opinion on the upper 6 GHz band*
- **Draft RSPG Opinion on upper 6 GHz**
 - Public consultation in June, with a “slight” preference for:
 - **Additional 160 MHz** channel for RLAN
 - **6585-7125 MHz (540 MHz) for MFCN/IMT**
 - Including possible guard band to protect RLAN, for study by CEPT
 - Consideration of “**secondary**” **WAS/RLAN** in the **MFCN** portion based on sensing/avoidance, if feasible, for study by CEPT
 - Final adoption in November : a single option will be decided
- **Likely to be the primary band identified in the 6G spectrum roadmap for the introduction of 6G in Europe by 2030**



- **European spectrum regulation is technology neutral**
 - All harmonised bands (700 MHz, 800 MHz, 900 MHz, 1.4 GHz, 1.8 GHz, 2 GHz, 2.6 GHz and 3.5 GHz) will be also available for 6G

5G widely deployed in 3.4-3.8 GHz (29000 sites) in France. Also use of 2.1 GHz (19000 sites) and 700 MHz (29000 sites) depending on the operator strategy.

- Current process for possible regulatory evolution in the **UHF band >2030**
 - **Current EU framework gives priority to TV&PMSE until end 2030** but enables some flexibility for countries having reduced TV&PMSE spectrum needs
 - [Draft RSPG Report](#) to assess any evolving demand from EU MS
 - **Future report from the Commission to the Council&EP**

WRC-27 Agenda Item 1.7

- Frequency bands under consideration for IMT identification in **Region 1** under WRC-27 agenda item 1.7:
 - 4400-4800 MHz,
 - 7125-7250 MHz
 - 7750-8400 MHz
 - 14.8-15.35 GHz
- Due to European strategic usages, CEPT opposed at WRC-23 to study all these frequency bands except 7125-7250 MHz. **This position and European strategic usages that remain valid will impact any future positions to be developed for WRC-27.**
- **7125-7250 MHz** may provide further opportunities for 6G depending on WRC-27

3.8-4.2 GHz harmonisation for local connectivity

- [ECC Decision](#) to be followed in few months by an EC implementing Decision
- Limited to **low-medium power** (<51 dBm eirp)
- Ongoing CEPT work to address coordination with MNO <3.8 GHz, coordination among verticals deployment, with incumbents (FS, FSS earth stations) and protection of radioaltimeter from AAS in the 4.1-4.2 GHz
- Emerging demands for usage of aerial UE (still to be studied in CEPT)

*Already about **120 local private 5G deployments authorized** in France in the band 3.8-4 GHz + use during Paris-24 Olympic game*

Harmonised MFCN/IMT bands allowed for the usage of **aerial UE** (LTE/5G)

- [ECC Decision\(22\)07](#) and upcoming EC mandate
- UE on-board drones, helicopters ... but not aerial connectivity
- Assuming that aerial UEs require a specific aerial subscription
- Implementation challenges for mechanisms to ensure that aerial UE respect no-transmit zones (band dependent)
- Conditions for 3.4-3.8 GHz still to be investigated

European approach for D2D

[RSPG opinion](#) on EU approach for D2D, supporting innovation for

- D2D in IMT bands (“*D2D-IMT*”),
- D2D in MSS bands (“*D2D-MES*”) and,
- D2D for IoT (“*D2D-IoT*”)

D2D-IMT:

➤ Limited market in Europe due to good MNO coverage in Europe and small-area white zones

However, D2D is an innovative service to offer basic connectivity in underserved areas :

provisional EU harmonisation framework expected **before WRC-27 in all EU harmonised bands** to be reviewed with the outcome of WRC-27 AI 1.13

➤ **EC Harmonisation Mandate to CEPT** in the next few months

D2D-MES:

➤ **Existing operations** under current MSS authorization (Globalstar/Apple, Skylo ...) – no need for specific authorizations but specific terminals

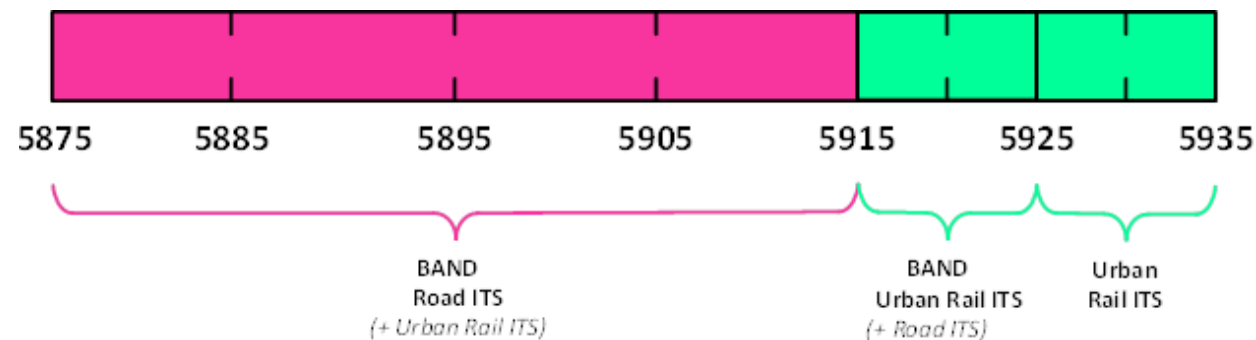
➤ **MSS 2 GHz band (2x30 MHz)** - authorisations (EU selection) ending May 2027 / EU-wide availability / also terrestrial bands with many compatible terminals

❑ [RSPG opinion](#) on **MSS 2 GHz** recommending scenarios for more operators and new usages (D2D and IoT)

❑ [EC consultation](#) on the future use of this band

Spectrum for Road ITS (Intelligent Transport Systems)

- ITS in Europe encompasses road-ITS and urban rail ITS
- Based on 10 MHz Channeling: **need to have for NR-V2X**
- [EC Mandate to CEPT \(January 2025\)](#) - *Update the harmonized technical and operational conditions for the use of 20 MHz channels for safety-related road ITS in the 5875-5925 MHz band*
 - [Update the EU regulatory framework Commission Implementing Decision \(EU\) 2020/1426](#)
 - **Draft CEPT Report** in public consultation in June 2025, adoption in October 2025



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