

EC-CEPT Workshop on WRC-15

EU Spectrum Policy for Wireless Broadband (WBB)

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* Disclaimer: the views expressed are those of the author and cannot be regarded as stating an official position of the European Commission.



Priorities and Method

EU (spectrum) policy priorities

- ✓ Investment in high-speed WBB networks in the Single Market
- ✓ Spectrum harmonisation and efficient use; co-existence
- ✓ Coordination of national assignments (EU-harmonised bands)
- ✓ Innovation and next generation (5G, small cells, spectrum access)
- ✓ Coherent EU position at ITU, global spectrum footprint

EU spectrum inventory (continuous process)

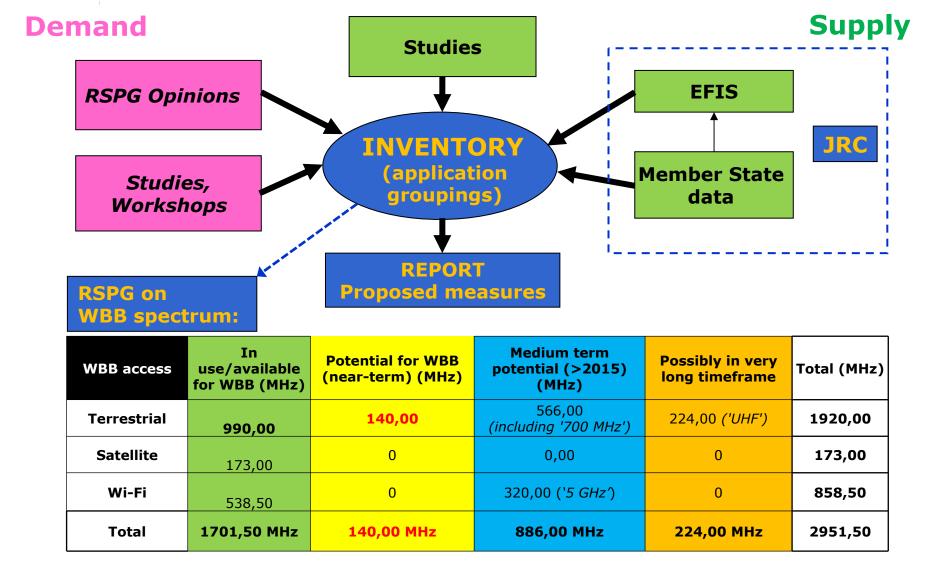
- ✓ Assess spectrum usage and demand
- ✓ Holistic approach to service types and spectrum bands
- ✓ Identify (re-)allocation and sharing opportunities
- ✓ Report to European Parliament and Council (2014)

ITU level developments

- ✓ WBB/IMT candidate bands
- √ 700 MHz band co-primary allocation to Mobile Service as of 2015



Inventory Progress



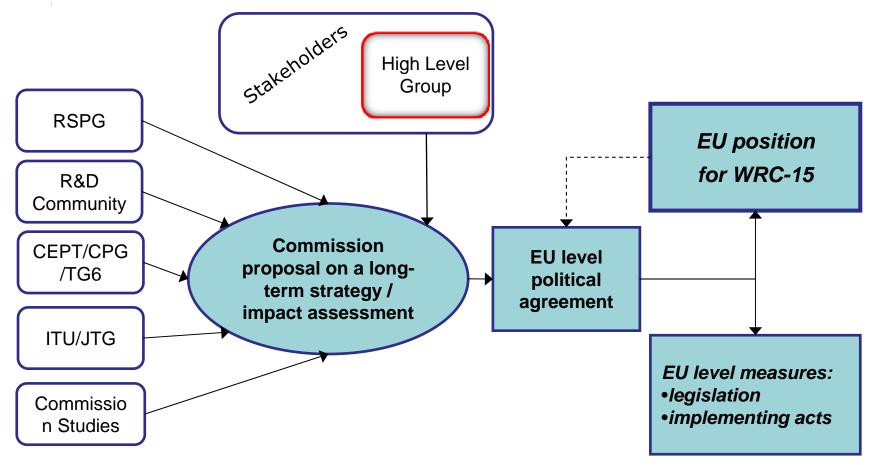


Towards (and beyond) 1200 MHz

Band	Issues	Opportunity	IMT potential WRC-15	EU action
1.5 GHz range	Incumbent use	up to 90 MHz sharing	yes	CEPT Mandate (proposal)
2.3 GHz	Incumbent use	100 MHz sharing	n/a	CEPT mandate (proposal)
5 GHz (extensions)	Incumbent use	up to 320 MHz sharing; large contiguous RLAN band	yes (sub-bands)	CEPT mandate
2 GHz MSS bands	Non-efficient use	60 MHz re-allocation (WBB)	n/a	EU level scrutiny
700 MHz band	Incumbent use, EU political agreement	60-80 MHz; PPDR / PMSE use; nearly- global harmonisation	yes	EU policy process; UHF strategy; CEPT mandate
[3.4–3.8 GHz]	Underutilisation / incumbent use	EU-wide take-up; promote globally	yes	Update of Decision 2008/411/EC
3.8-4.2 GHz	Incumbent use	400 MHz, sharing; large contiguous band	limited	Not a current priority
Unpaired terr. 2 GHz	Non-use	Re-allocation (PMSE, PPDR, other); sharing	n/a	CEPT Mandate
> 6 GHz	To be explored	Spectrum needs >> 2015 (5G)	no	Inventory process



Long-term strategy on the UHF broadcasting band (470-790 MHz)



Consider different national schedules in Member States



UHF band strategy for 'Win-Win'

Focal point of diverse political goals (DAE, RSPP)

- ✓ Attain ubiquitous broadband at 30 Mb/s by 2020
- ✓ Identify more spectrum for WBB while fostering technology upgrade
- ✓ Support innovative audiovisual media production and delivery
- ✓ Promote cultural diversity and social cohesion
- ✓ Ensure sustainable spectrum resource for PMSE, PPDR and IoT
- ✓ Foster innovative and efficient spectrum use

Challenges to address

- ✓ Next-generation terrestrial platforms/devices and convergence
- ✓ Market transformation business models and value chains
- √ Financial implications investment, migration, compensation
- ✓ Securing consumer benefits e.g. free-to-air, QoS of broadcast content
- ✓ Spectrum management (470-790 MHz, sub-1GHz approach)



Possible EU priorities for WRC-15

- IMT identification in the 1.5 GHz range subject to sharing and compatibility studies
- Mobile service allocation of 5 GHz extension bands (5350-5470 MHz, 5725-5850 MHz) subject to sharing and compatibility studies; no IMT identification
- Position on a 700 MHz band plan in the global context
- Approach to 470-694 MHz (WRC-?? agenda)
 - possible mobile service allocation subject to EU long-term strategy on the UHF band; no IMT identification
- Approach to broadband PPDR
- IMT identification of the 3.4-3.8 GHz band (beyond Region 1)
- New agenda item on supra-6 GHz spectrum for 5G-WBB beyond 2015



Thank you for your attention!

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