

RADIO SPECTRUM POLICY GROUP

INNOVATION IN THE DIGITAL SINGLE MARKET IN EUROPE

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RSPG Chairman



About RSPG

"The Radio Spectrum Policy Group (RSPG) is a **high-level advisory group** that **assists** the **European Commission** in the **development of radio spectrum policy**".

RSPG develops Opinions and Reports at its own initiative or in response to

- Requests from European Commission to advise or assist on issues related to multiannual radio spectrum policy program, internal market (harmonisation needs), EU Common Policy Objectives for WRC
- Requests to the Commission from Council and European Parliament on radio spectrum policy issues relating to electronic communications

RSPG is also playing the role of "good offices" in bi-lateral cross border coordination

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Many sectors rely on access to spectrum

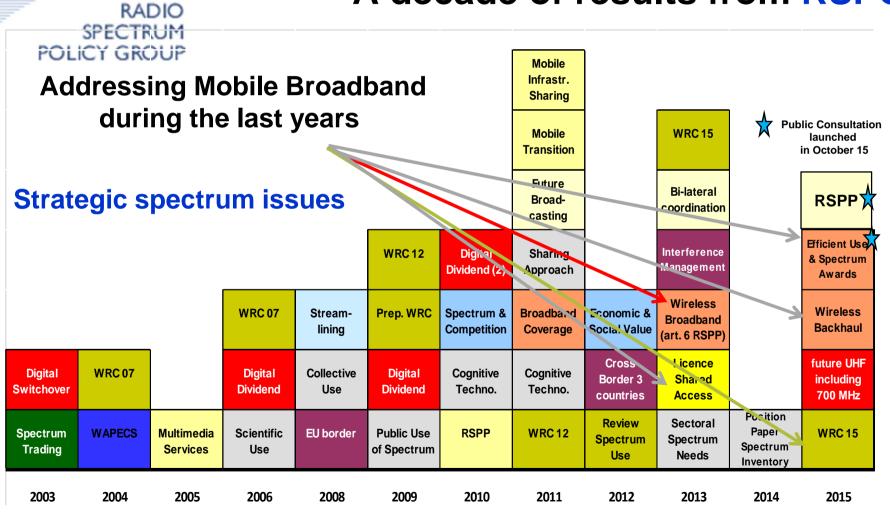
Mobile broadband (4G)
New DTT channels in HD
Internet of things
Smart cities
M-Health
Connected vehicle

. .

The activity of many companies depends on access to spectrum



A decade of results from RSPG





European Commission initiatives on **Digital Single market**

- The RSPG welcomes the Digital Single Market initiatives to support the growth of digital economy in Europe
- The RSPG has paved the way of WBB in Europe by providing visibility to policy makers on spectrum resources suitable for possible future harmonisation measures

The RSPG welcomes Commission proposals regarding the coordinated release of 700 MHz band and on-going harmonisation measures in 1452-1492 MHz and 2,3-2,4 GHz bands in line with its recommendations (see RSPG Opinions on future of UHF and WBB)

The RSPG developed a report on "Efficient use of Spectrum and Spectrum Awards"

 RSPG will develop strategic recommendations on 5G (see RSPG Opinion on RSPP) and its work program





Providing visibility to policy makers

Already a unique 'Portfolio' of harmonized mobile bands in Europe to support DSM 800 MHz, 900 MHz, 1800 MHz, 2 GHz, 2,6 GHz, 3,5 GHz

More than 1200 MHz of harmonized spectrum for mobile BB including 700 MHz, 1452-1492 MHz, 2.3-2.4GHz (under LSA)

A potential already identified for the medium/long terms including 3.8- 4.2 GHz (protecting existing and future earth stations)

(see RSPG WBB opinion – June 2013)

Broadband access	In use/available for WBB (MHz)	Potential for WBB (near term) (MHz)	Medium term potential (>2015) (MHz)	Possibly in very long timeframe	Total (MHz)
Terrestrial	990,00	140,00	566,00	224,00	1920,00

More harmonised spectrum than in any other regions!





Sharing: the New Frontier

Licensed Shared approach paves the way for innovative regulatory framework in Europe (and in others regions)

See RSPG Opinion on LSA published in Feb 2014

- Creating new opportunities to access spectrum
- Compatible with the current EU regulation and framework : a spectrum management tool that fits under the individual licensing regime
- RSPG described how LSA could be implemented, in particular, focusing primarily on unlocking bands used by incumbents
- Clarification of role of the different parties:
 - Administrations/NRAs have to define clear sharing rules and to carry out the licensing process
 - Incumbent users (protection) and prospective LSA users (guaranteed level of spectrum access to secure investment) have to be part of the discussion at national level



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Sharing: the New Frontier

Licensed Shared approach in 2.3-2.4 GHz

- The current use varies among the Member States (PMSE, fixed service, Telemetry)
- Already used in USA and Asia for LTE: equipment are available
- Provide extra-capacity to mobile operators
- ETSI standards for dynamic sharing (LSA controller / repository)
- CEPT guidelines and harmonised framework, responses to EC mandate

Time for trials paving the way for implementation of LTE in this band ... and for envisaging LSA in other bands such as 3.6-3.8 GHz



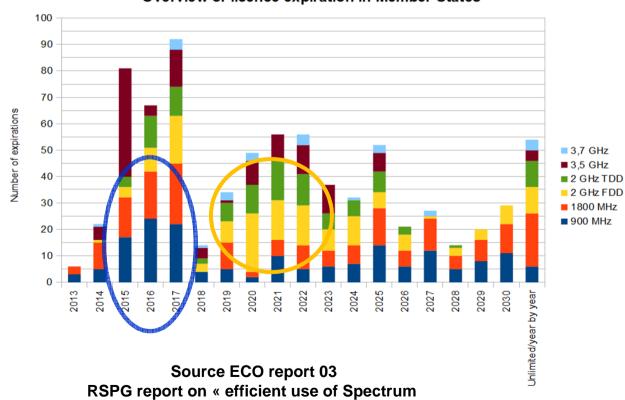
Efficient awards and use of spectrum in harmonised ECS bands

- Key issues
 - Suitability of current and future spectrum bands to meet future needs for mobile broadband
 - Best Practices for Spectrum Awards : no "one size fits all"
 - Associated conditions to promote efficient use of spectrum
 - A "tool box" for spectrum awards and to ensure efficient use of spectrum
- This report includes material which may be relevant for the upcoming review of the Regulatory Framework
- The draft RPSG report will be subject to Public Consultation in the coming weeks

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Spectrum awards ahead

Overview of licence expiration in Member States



and spectrum awards »

Various frequency bands and the main "expiry periods" in Europe

900 MHz – 1800 MHz 2GHz



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Visit the RSPG web site

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