

"WRC Highway"

From WRC-03 to WRC-07 from the EU policy perspective

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WRC in the EU policy context

- **Radio spectrum:** essential element for **key policies at EU level**
 - * **sectorial policies** rely on the use of spectrum
 - * **horizontal policies** are affected on the way radio spectrum is made available and used.
- **National authority** responsible for radio spectrum allocation, assignment and usage conditions, taking into account
 - * international agreement setting: Radio Regulations (WRC) (legally binding, but some flexibility)
 - * CEPT coordination (not binding)
 - * EU regulation and established policies (binding)
- Radio spectrum policy at EU level: **Radio Spectrum Decision**
 - * coordination of implementing measures (legally binding)
 - * platform to discuss and establish consensus on policy and strategic approaches to radio spectrum (advice to Commission)

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2. WRC-03 results

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WRC in the EU policy context



Radio spectrum and sectorial EU policies:

- **Communications / Information Society:**
 - * competing and complementary radio access platforms; wireless as part of broadband initiative; convergence of broadcasting / (tele)communications / Internet
- **Transport**
 - * Radio Satellite Navigation Systems (Galileo); aeronautics, maritime policy; road safety policy
- **Research and Development:**
 - * radio astronomy; earth observation; space research services
- **Audiovisual policy**
 - * TV and radio broadcasting in the EU;
- **Civil Protection Coordination**

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WRC in the EU policy context



Radio spectrum and horizontal EU policies /principles:

- **promotion of competition**
 - * radio spectrum as key infrastructure impacts on competition (relevant both at allocation and assignment level)
- **consolidation of the Single Market**
 - * lack of harmonisation of radio spectrum may prevent trans-border flow of goods and services (roaming economies of scale)
- **supporting international trade**
 - * access to radio spectrum governed by international trade agreements (WTO / GATS)
- **general principles**
 - * technological neutrality
 - * increasing economic value
 - * transparency/proportionality
 - * efficient use of scarce resource
 - * legal certainty
 - * enhancing EU competitiveness

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The EU approach to WRC



EU involvement in WRC:

- **Member States are negotiating parties, CEPT/CPG ensures coordination of technical WRC negotiations**
 - * preparation of initial negotiating positions
 - * preserving coherence of EU positions during negotiations
- **Commission:**
 - * helps preparing WRC (input to CPG, industry consultations, etc.)
 - * represents EU at the WRC as "regional member" (non voting)
 - * gives political support to WRC negotiating process by establishing link to Community interests (Communication to EP and Council)
 - * if Community interests are endangered, may call for EU Presidency to coordinate Member States position
 - * reporting on WRC outcome and assessing impact at EU level

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WRC-03: priorities and results



priorities set out in Communication to EP / Council (April 03)

- **IMT-2000:**
 - * usage conditions of "extension bands": adequate protection achieved, thereby supporting roll-out of 3G by paving the way to availability of additional radio spectrum as planned at EU level
 - * approach to advanced mobile systems (IMT2000 and beyond): in line with EU policy: launch of studies incl. on spectrum needs, while allowing monitoring of technological and market developments and preserving stable environment for current 3G roll-out
- **Radio Satellite Navigation Systems (RNSS) - Galileo:**
 - * consolidation and settlement of WRC-00 decisions. Adopted usage conditions fully satisfactory since allowing for all Galileo services to be developed (while protecting other services); introduction of a co-ordination process providing for a structured mechanism equitable to existing and projected RNSS systems.

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WRC-03: priorities and results

priorities set out in Communication to EP / Council (April 03)

- **Radio Local Area Networks (R-LAN):**
 - * WRC-03 primary allocation of spectrum in 5GHz band **fully supportive to EU policy objective**. Adopted usage conditions will allow to protect existing services (EESS and radar systems)
- **Public Protection and Disaster Relief:**
 - * **Progress** on spectrum harmonisation at regional and/or global level achieved **only to a limited extent**; no identification of global bands for any type of PPDR system. Common bands identified *outside of region 1* for broadband PPDR could not be endorsed by EU due to lack of agreement on future needs for PPDR and because of incumbent users of the proposed bands.

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WRC-03: priorities and results

other results:

- **Broadband access platforms: decisions supportive to EU Information Society policy objectives**
 - * High Density Fixed Satellite Services: identification of spectrum
 - * Broadband services in aircrafts: facilitating deployment
 - * Mobile Satellite Services: additional spectrum allocated
 - * HAPS: operation as IMT2000 base station and as broadband access platform confirmed
 - * Earth Stations on board vessels: broadband data services on ships
 - * Satellite dishes in 14 GHz: facilitating deployment of satellite links
- **Other issues ...**

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WRC-03: priorities and results

The EU involvement in WRC-03 was efficient:

- **Timely preparation** by CEPT (European negotiation positions, ECPs)
- **Good support to developed ECPs** by EU members
- **Political backing of ECPs** by Commission and Council
- **Efficient framing by CEPT/CPG at WRC** (co-ordinators work, maintaining CEPT member cohesion, overview of conference evolution overall)
- **European industry played a constructive role** in the negotiations
- **Efficient co-operation CEPT/CPG and Commission:** complementarity of technical negotiations and political backing
- **Conference proceeding: re-enforced role of regional dialogue** helped. CEPT model is emulated by other regions.

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Follow-up of WRC-03

Implementing WRC-03 results in the EU

- **R-LAN / 5 GHz**
 - * making 5GHz bands available throughout the EU
 - * common approach to usage conditions
 - * work already under progress in Radio Spectrum Committee (mandate to CEPT to be issued < end 03)
- **Galileo**
 - * pursuing vigorously the development of the Galileo systems
 - * Galileo Supervisory Authority currently about to be established
 - * common approach on filings for RNSS spectrum made by individual Member States.

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Follow-up of WRC-03



Implementing WRC-03 results in the EU

- **IMT2000**
 - * planning process of IMT2000 "extension bands" under way (RSC, mandate to CEPT on band planning: delivery end 04)
- **PPDR**
 - * Link to the EU Civil Protection Coordination mechanism
 - * Need to define services (PP, DR; respective performances), to determine degree of coordination and the respective timing for implementation; support by R&D efforts at EU level.
- **TFTS**
 - * TFTS bands originally harmonised at EU level, but not used
 - * WRC-03 MSS decision: TFTS bands partially used; need to think about reallocation of remaining bands, taking advantage of harmonised status of band.

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WRC-07 perspective



WRC-07 draft agenda proposed at the outset of WRC-03, as was the preliminary agenda for WRC-10

- The good news....
 - * WRC-07 agenda load considerably reduced
- ...but WRC-07 will be rich on substance nevertheless
- ...also interesting about what did not get on the agenda
- too early for detailed technical analysis of the WRC-07 agenda, but first overall policy assessment possible

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WRC-07 perspective



Items with greatest impact on EU policies (tentative):

- IS policy: **IMT2000 and systems beyond**
 - * future systems: assessment of study results, in the light also of technology and market evolution: first assessment of spectrum needs (perspective 2015-2020)
 - * consider bands <600 MHz
 - * 2.5 GHz ("extension bands" for Europe): sharing conditions (again!)
- "Single Sky" policy: **Future spectrum needs for aviation**
 - * re assessment of long term spectrum needs of aeronautics
- Broadcasting policy: **Reorganisation of HF bands**
 - * complex political, social and cultural implications
 - * difficult to prepare, uncertain scope of negotiations

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WRC-07 perspective



Items with greatest impact on EU policies (tentative):

- R&D policy: **Scientific use of spectrum**
 - * Earth observation satellite (EESS)
 - * Meteorological services
 - * Radio astronomy services
- Maritime policy: **Safety and distress communications for shipping (GMDSS)**
 - * conditions of spectrum usage vs. classes of shipping
- **Issues not explicitly retained for WRC-07:**
 - * common spectrum access criteria for Short Range Devices (SRD); Ultra-Wide Band Technology: general study of "modernisation of spectrum management" tasked, but no discussion scheduled at WRC-07

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Preparatory process of WRC-07

Next steps:

- **Time to start now !**
 - * Analyse potential impact of WRC-07 items on EU policies
 - * Identify critical areas of interest in the context of EU policies
 - * gradually develop policy objectives as more precise scope of WRC-07 is revealed
- **Methodology:**
 - * keep proven concept of shared work CEPT / Commission
 - * re enforce political guidance by using radio spectrum policy frame set out at EU level.

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Preparatory process of WRC-07

Next steps:

- **Developing political input to WRC-07**
 - * Radio Spectrum Policy Group (RSPG) solicited for an "Opinion" (RSPG#2, September 2003)
 - * RSPG to be continuously involved over the next three years, first delivery within 2004
- **Accompanying CEPT preparatory process:**
 - * following CPG work and giving input
 - * support by EU wide consultation of stakeholders and constituencies (industry workshops, public consultations)
 - * take advantage of bilateral relationship with relevant organisations (Eurocontrol, ESA, etc.)
- **Before WRC-07:**
 - * Communication to EP and Council on WRC-07 priority and associated political objectives.

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Conclusion



- **WRC-03: a positive output from an EU perspective**
- **methodology of regional coordination has been efficient**
- **good co-operation between CEPT and Commission**
- **WRC-03 results gives homework to Europe**
- **Demand for access to radio spectrum increases - many key EU policies concerned, as visible from WRC-07 agenda. Need for balancing political interests !**
- **New radio spectrum policy setting in the EU offers means to develop the necessary political guidance and has started to be used for this purpose**

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