

ITU-MIC REGIONAL WORKSHOP ON
TRANSITION TO DIGITAL BROADCASTING AND DIGITAL
DIVIDEND
26 - 27 MAY 2011, HANOI, VIETNAM

Why harmonization of digital dividend spectrum important?

Radiocommunication Bureau



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Agenda

- Lessons from History
- Digital Dividend – A national decision?
- International aspects to be considered
 - Case study – French and neighbouring countries
- Conclusions



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3 Lessons from history

- Three great consumer revolutions of the past 20 years
 - World Wide Web – 1.5 billion connected machines
 - Personal Computer = several billion
 - The GSM mobile phone – 4 billion.



The Questions

- Why have they become global?
- What do they have in common?



Answers

- A common technical standard
- In case of GSM, harmonized frequency bands



GSM

- Engagement by governments with the long term direction of national mobile infrastructures and a willingness to do this at the European level.
- This led to the statement from the 1986 European Council. This political support gave the mandate to the European Commission to issue the GSM Directive..



GSM (2)

- Whilst this might be seen as governments imposing a technology on the market, the actual mechanism was that government's offers new spectrum "with strings attached" to support a public good of a harmonised system across Europe.



Digital Dividend - A national decision?

- To take the decision on Digital Dividend at the national level, it is important to take measures at the international level:
 - Agree on a common allocation to the mobile service as part of the digital dividend
 - Coordinate frequencies and technical characteristics of national television assignments in the band allocated to broadcasting, to enable the digital dividend for broadcasting
 - Harmonize the timing of transition from analogue to digital
 - Resolve any interference problems



Western Europe - Case study

- Needed to coordinate between Western European countries: Belgium, France, Germany, Ireland, Luxembourg, Switzerland, The Netherlands and UK
- Bilateral and multi lateral meetings
- A dedicated group WEDDIP established in September 2009



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WEDDIP (Western Europe Digital Dividend Implementation Platform)

- Covered strategic topics related to the implementation of the Digital Dividend (DD) in the scope of frequency management related issues.
- Discussions these issues proved beneficial for all Administrations involved in bilateral/multilateral negotiations processes.



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WEDDIP objectives

- Discuss issues from a strategic perspective;
- Exchange views on possible solutions for network requirements;
- Sharing plans and ideas on possible approaches for identifying (additional and/or alternative) resources);



WEDDIP Objectives (2)

- Discuss alternative solutions/approaches for the DD implementation;
- Discuss background for chosen solutions;
- Identify overlapping activities and stumbling blocks;
- Facilitate the negotiation processes (with the aim to advise negotiation teams on relevant topics);



Re-planning of broadcasting services

- Modifications of initial requirements of allotment and assignment formulated for the establishment of the Plan.
- Minimizing the interference potential on neighbouring co-channel GE06 Plan entries with lower power transmitters instead of planning one.



Re-planning of Broadcasting Services (2)

- Restricting transmit power in certain directions for broadcasting networks implemented in conformity with the GE06 Plan entries or/and changes in transmitter characteristics (e.r.p., antenna diagram, tilt, etc.) of planned and implemented broadcasting networks interfering towards new requirements.



Re-planning of Broadcasting Services (3)

- Accepting that modifications of GE-06 plan entries involve additional investment costs.



Planning principles – Mobile services

- European administrations practice the recommendations given in the CEPT Report 29 “Guideline on cross border coordination issues between mobile services in one country and broadcasting services in another country”.



Planning principles – Mobile services (2)

- This report provides reference field strength trigger values for coordination. The values are derived from the GE06 Agreement.
- <http://www.erodocdb.dk/Docs/doc98/official/pdf/CEPTREP029.PDF>



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Thank you for your attention!



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