



# Considerations on spectrum harmonization for PMSE equipment

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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 **1**

# Agenda

- Needs for reallocation of Spectrum
- Objectives at EU policy level and on PMSE
- Steps taken in the process
- Next steps

# Needs for reallocation of Spectrum

- *Increasing demand of wireless telecommunication services*

Consumers growing needs for access to wireless services; wireless internet everywhere with 3G and 4G services

- *Fostering efficient use of spectrum by introducing digital technology*

Switch over from analogue to digital, in particular in the field of television broadcasting, which is a worldwide process

# Growth of internet-enabled mobile devices in Europe

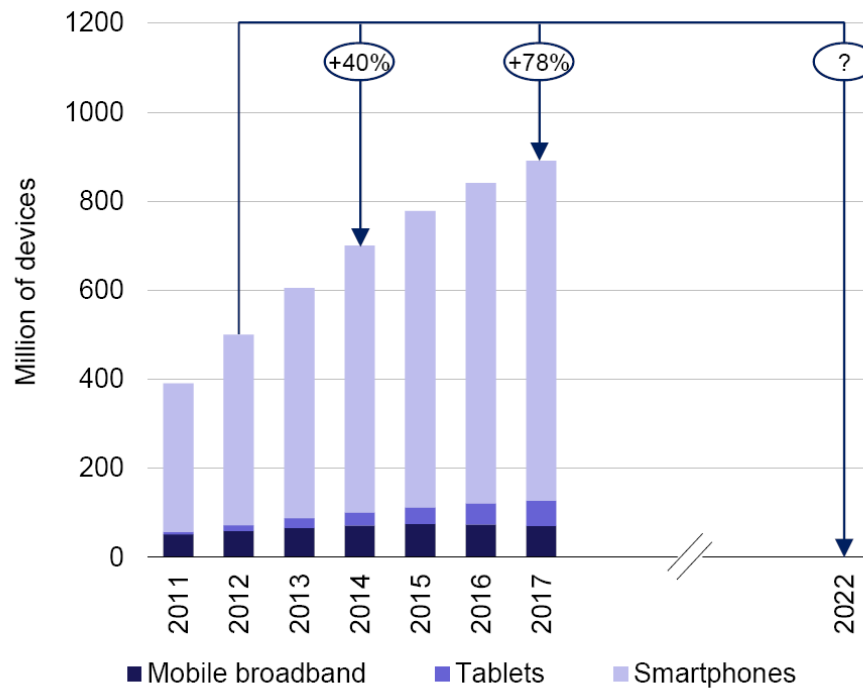


Figure 6.49: Number of Internet-enabled mobile devices in Europe, 2011–2017 [Source: Analysys Mason, Cisco]

# Growth rates on European mobile data traffic 2010 - 2017

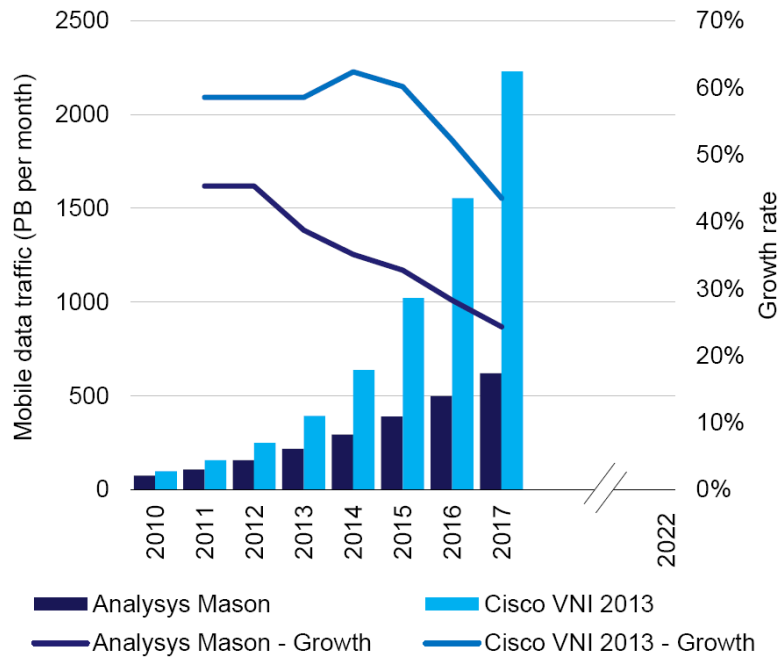
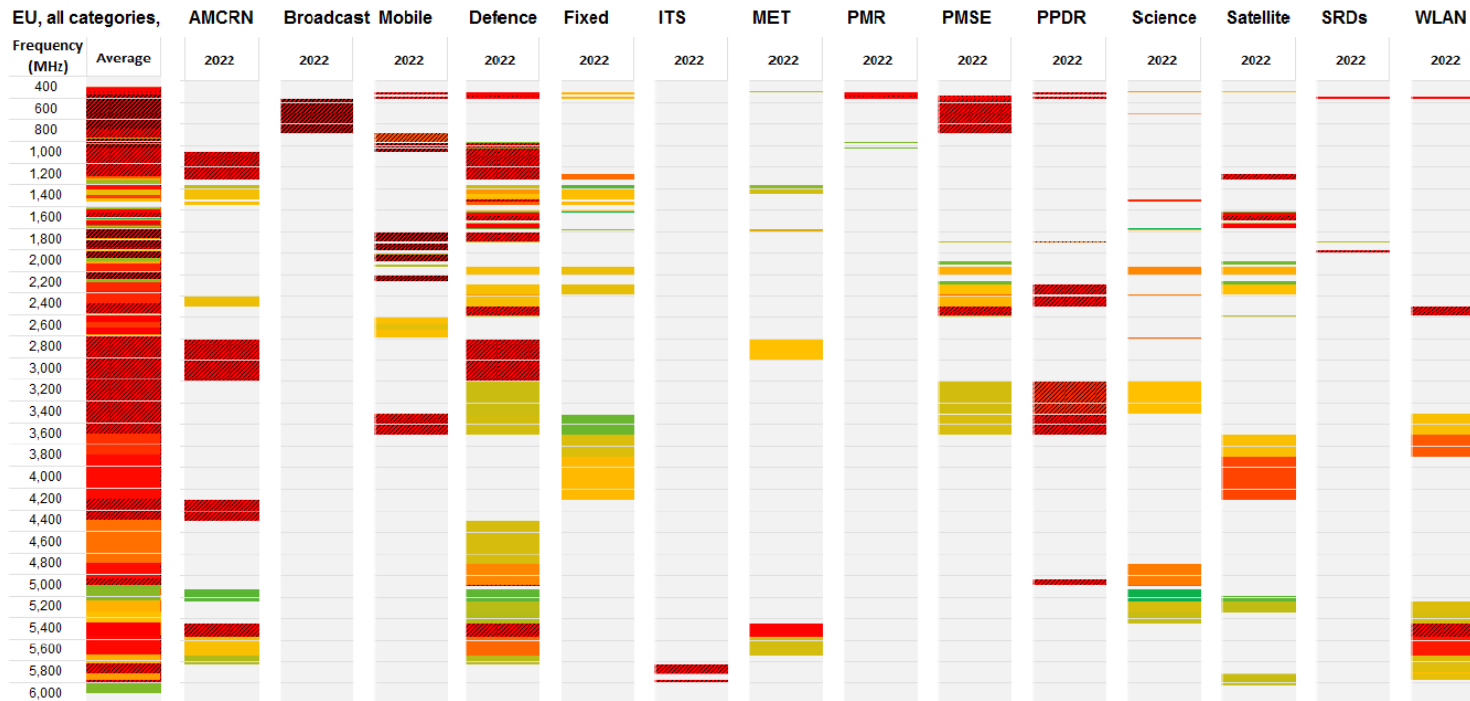


Figure 6.70: Forecast of European mobile data traffic, 2010–2017  
 [Source: Analysys Mason, Cisco VNI 2013, UMTS Forum, 2012]

# Future spectrum needs by a broad variety of users and applications

Figure 1.3: Heatmap showing spectrum usage in 2022, by application category and total, based on average current usage and the average growth scenario [Source: Analysys Mason, 2013]



# Objectives at EU policy level

- *Maximising the socio-economic and environmental benefits that can be granted through the use of radio spectrum*

## **Radio Spectrum Policy Programme (RSPP):**

"...strategic planning and harmonisation of the use of spectrum to ensure the functioning of the internal market in the Union.."

- *Ensuring radio spectrum contributes to broadband targets*

## **Digital Agenda for Europe (DEA):**

"...to ensure the coordinated allocation of spectrum needed to meet the target of 100% coverage of 30 Mbps by 2020"

- *Supporting sustainable growth in the internal market*

## **The Europe 2020 Strategy**

## Policy objectives on PMSE

- *Communication on "Transforming the digital dividend into social benefits and economic growth" (COM(2009) 586 final)*

"Ensuring the continuity of wireless microphones and similar applications by identifying future harmonised frequencies ....to determine the best strategy to ensure an efficient 'migration path' for current users and producers of devices..."

- *Decision on 'establishing a multiannual radio spectrum policy programme' (RSPP; Decision 243/2012/EU)*
  - Article 6.6.: "...examine ways and, ..., take technical and regulatory measures, to ensure that the freeing of the 800 MHz band does not adversely affect PMSE users"
  - Article 8.5.: " ...seek to ensure the necessary frequency bands for PMSE, ..., to improve the integration of the internal market and access to culture."



## To be noted....

Any EU policy measure on PMSE will not aim to meet all spectrum requirements of PMSE users, but rather to create a **baseline** (i) for economies of scale and the functioning of the internal market, and (ii) for "average" social and cultural needs.

Individual Member States will remain fully responsible to make available frequencies for large spectrum needs like broadcasting sites and extraordinary (yearly) events (e.g. European Song Contest).

## Steps taken in this process

- *Mandate to CEPT on Technical conditions regarding spectrum harmonisation options for wireless radio microphones and cordless video-cameras (PMSE equipment);*
- *A public consultation held mid-2012;*
- *Stakeholders workshops in 2010 and recently in June 2013;*
- *A study on the socio-economic aspects of spectrum harmonisation regarding wireless microphones and cordless video-cameras (PMSE equipment);*
- *Discussions with the Member States in the Radio Spectrum Policy Group and Radio Spectrum Committee;*
- *Commission Joint Research Centre to perform testing on LTE-PMSE coexistence.*

# Next steps on wireless audio PMSE

- *With regard to wireless microphones and associated applications*
  - Drafting of an Impact Assessment supporting a possible implementation measure for the harmonisation of radio spectrum for wireless microphones and associated applications
  - Drafting of a possible implementation measure for the harmonisation of radio spectrum for wireless microphones and associated applications
  - Timeframe: 2014

## **Next steps on cordless video-cameras**

- CEPT Report 51 on cordless video-cameras has been subject to public consultation. The preliminary conclusion is that some possible new spectrum for cordless cameras and video links is identified; sharing studies will need to be carried out in order to assess usability of these bands.
- The European Commission has mandated CEPT to undertake studies on harmonised technical conditions for the unpaired 2 GHz band (1900-1920 and 2010-1025).

**Thank you for your attention!**

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