

Mobile Multimedia:A Regulatory Perspective

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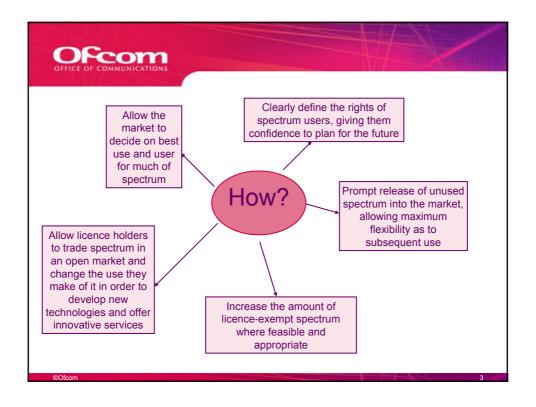


Mobile multimedia: overview

- Ofcom's approach to spectrum management
- · Bands potentially available for mobile multimedia
 - Pros and cons from a regulator's perspective
 - Not an exhaustive list....
- RSPG involvement

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Spectrum options for mobile multimedia in the UK (1)

Band III (sub band 3, 209 to 217.5 MHz)

- ➤ Spectrum being allocated to DAB digital radio services (subject to outcome of RRC-06)
- ▶ But...
 - Limit of 20% of capacity can be used for non-programme related services such as data and multimedia services
 - Band III is used by most EU countries for terrestrial television

U-band (1452 to 1492 MHz)

- Available in UK in 2007 when existing users move out of this band
- Could be made available for use by a wide range of potential services including mobile television

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Spectrum options for mobile multimedia in the UK (2)

1900 to 2170 MHz and 2500 to 2690 MHz

- ► Spectrum and networks available now at 1900 to 2170 MHz (IMT-2000)
- ▶ 2500 to 2690 MHz also available in UK from 2007
- ► But 1900-2170 MHz
 - Configured for one-to-one communications
 - Uses expensive 2-way spectrum
 However technology developing.....

Spectrum released from digital switchover (UHF/VHF)

- Depends on outcome of RRC 2006 but large amount of spectrum may be available
- Only available nationally in 2012 but possibility for early deployment in parts of the UK
- ▶ Ofcom project reviewing economic benefit of released spectrum uses
- ► But other contenders for spectrum
 - More DTT channels, HDTV, mobile voice/data, potential for low power/licence-exempt use

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The regulatory questions

- What role for regulatory authorities to make spectrum available for mobile broadcasting?
 - Why dictate specific uses or technologies?
 - How to identify which options are best?
 - Are other bands likely to be suitable?
 - Need for harmonisation if so at what level?

To what extent can demand for mobile broadcasting services be addressed by the market?

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RSPG Opinion – WAPECS (adopted Nov 05)

- Covers broadcasting and mobile bands 174-230, 470-862, 1452-1479.5, 1900-1980, 2010-2025, 2110-2170, 2500-2690 MHz
- Establishes set of principles ensuring equitable competition conditions between wireless access platforms offering similar services and addressing similar markets
 - Removal of constraints on spectrum use
 - Blurring of delineation of applications
 - Technology and service neutrality: frequency bands should not generally be reserved for a particular technology or use
 - More flexibility and increased responsiveness in spectrum management enabling rapid development of new services
- · Radio Spectrum Committee taking forward

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RSPG: mobile multimedia

- RSPG Opinion on Digital Switchover November 04
- Commission Communications May and September 05
- Presentations on mobile multimedia at November 05 RSPG
- Further discussion at RSPG held 22 February 06. Requests for Opinions adopted covering:
 - Introduction of multimedia services in particular in bands currently used for broadcasting
 - Rapid timetable to address short-term needs
 - Digital dividend
 - Longer term to reflect timetable for switchover

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