

UK 700MHz Strategy and Digital Terrestrial Television update

Chris Woolford, Director of International Affairs, Ofcom 3rd October 2013



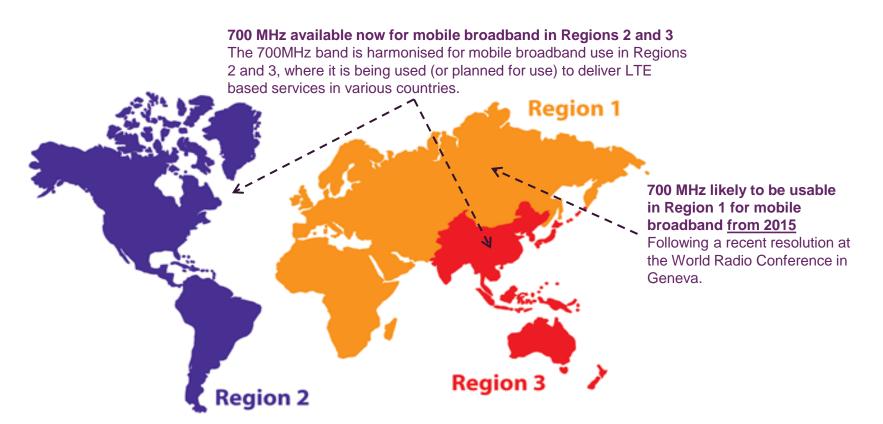
Ofcom decided on its UHF strategy last year

- Our dual objectives are to provide more low frequency spectrum for mobile broadband whilst securing the benefits provided by DTT
- We will do this by:
 - Seeking to enable a harmonised release of the 700 MHz band for mobile broadband
 - Ensuring that the DTT platform can access the 600MHz band, alongside other services sharing spectrum with DTT, including Local TV, PMSE, and white space services
- Decision set out in a Statement published on 16 November 2012, available at http://stakeholders.ofcom.org.uk/consultations/uhf-strategy/

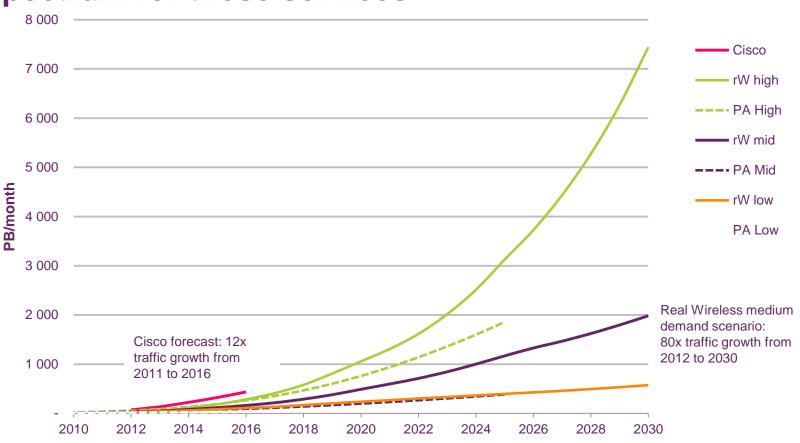


The likely global harmonisation of the 700MHz band for mobile broadband was a key input to our UHF strategy

Handset economies of scale increase potential value of this spectrum



The expected growth in demand for mobile data traffic is likely to increase the demand for more spectrum for these services



Source: Real Wireless

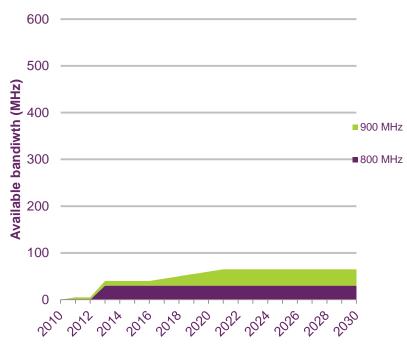


There is likely to be a much more significant increase in the amount of harmonised mobile broadband spectrum above than below 1 GHz

Expected availability of harmonised spectrum for mobile broadband <u>above</u> 1 GHz

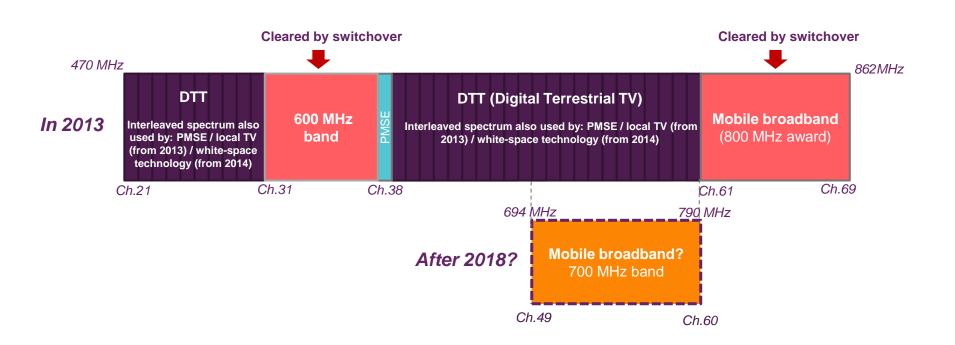


Expected availability of harmonised spectrum for mobile broadband below 1 GHz





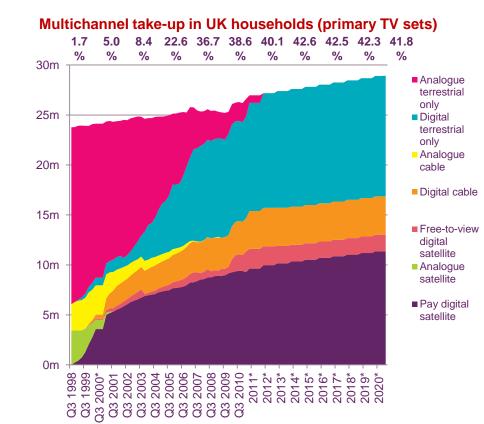
...but a release of the 700MHz band would significantly reduce the amount of spectrum available for DTT and services using interleaved spectrum





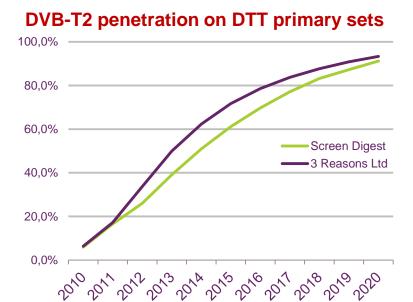
DTT plays a very important role that is likely to be still relevant when 700MHz could be released

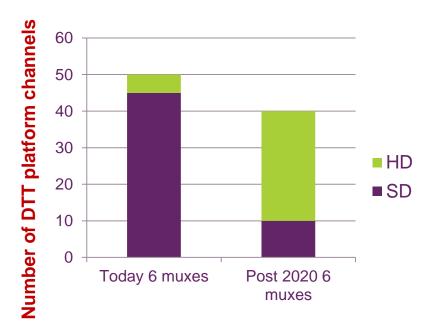
- DTT provides low-cost universal access to PSB services
 - ▶ It is unlikely that other platforms could fulfil this role by 2018
- DTT sustains viewers choice in TV content and platforms and TV equipment
 - ▶ DTT, thanks also to IP-complements (e.g. Youview), is likely to remain an attractive platform over the next decade
- Our consumer research highlights that the DTT's free-to-air attributes are highly valued by consumers



Source: BARB Establishment Survey from Q2 2011, Ofcom/GfK NOP research from Q1 2007, previous quarters include subscriber data and Ofcom market estimates for DTT and free satellite Note: Digital terrestrial relates to DTT-only homes.

Improved transmission and compression technologies can enable DTT to make more efficient use of spectrum but a move towards HD may offset this

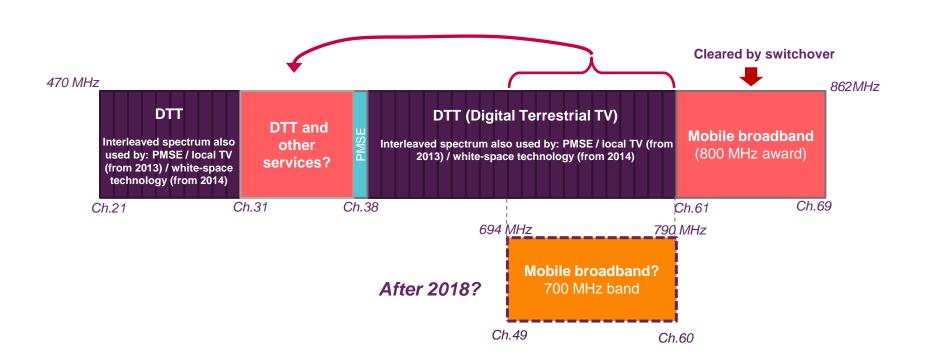




The natural market evolution to new technologies is relevant to our strategy – but we are not proposing a forced transition to more efficient standards



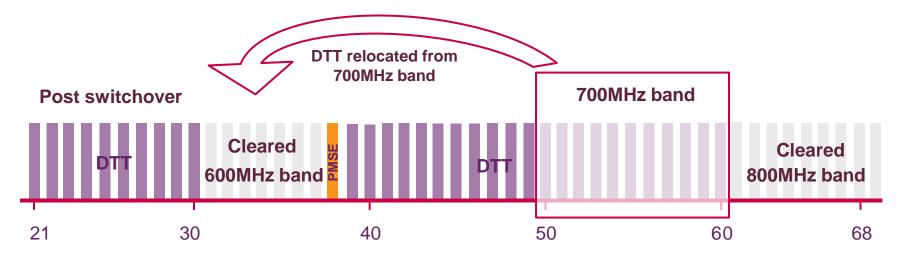
How might use of the UHF spectrum change?



UHF strategy implementation



- Contributing to international discussion on band plans and interference analysis
- Carrying out modelling to estimate DTT coverage under different band plans
- Assessing impact on consumers
- 600 MHz band (550 606 MHz) is currently clear in the UK but is likely to be needed to accommodate current multiplexes if 700MHz band (694 – 790 MHz) is cleared, perhaps from 2018
- The empty spectrum has been made available for at least 5 years to launch two interim multiplexes operating with DVB-T2 to stimulate uptake of modern receivers





Consultation on future use of the 700MHz band

From April – July 2013, Ofcom consulted on the work that Ofcom is planning to undertake in relation to the 700MHz band, and sought stakeholder inputs on certain specific areas, including:

- The factors that are relevant when assessing the costs and benefits associated with a potential future change of use of the 700MHz band;
- Whether market mechanisms such as incentive auctions could have a role to play in determining the timing of a future 700MHz release;
- The measures we can take to reduce the disruption and costs of any change of use of the 700MHz band.



Future use of the 700MHz band
Implementing Ofcom's UHF strategy

Publication date: Closing Date for Responses: Call for inputs 24 April 2013 5 July 2013



A longer term strategy for UHF spectrum (below 700 MHz)

- Work is underway in International groups to consider a longer term strategy for future use of UHF spectrum
- CEPT has established a Task Group (TG6) to consider 470-694 MHz
- WRC-15 has an agenda item to look at future availability of spectrum for wireless broadband
 - 470-694 MHz likely to be one of the one of the bands being studied
 - Separate question as to whether 694 MHz represents lower band edge of 700 MHz band
- European Commission also very interested in long-term future of this band

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THANK YOU