

UK Spectrum update

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WiMAX

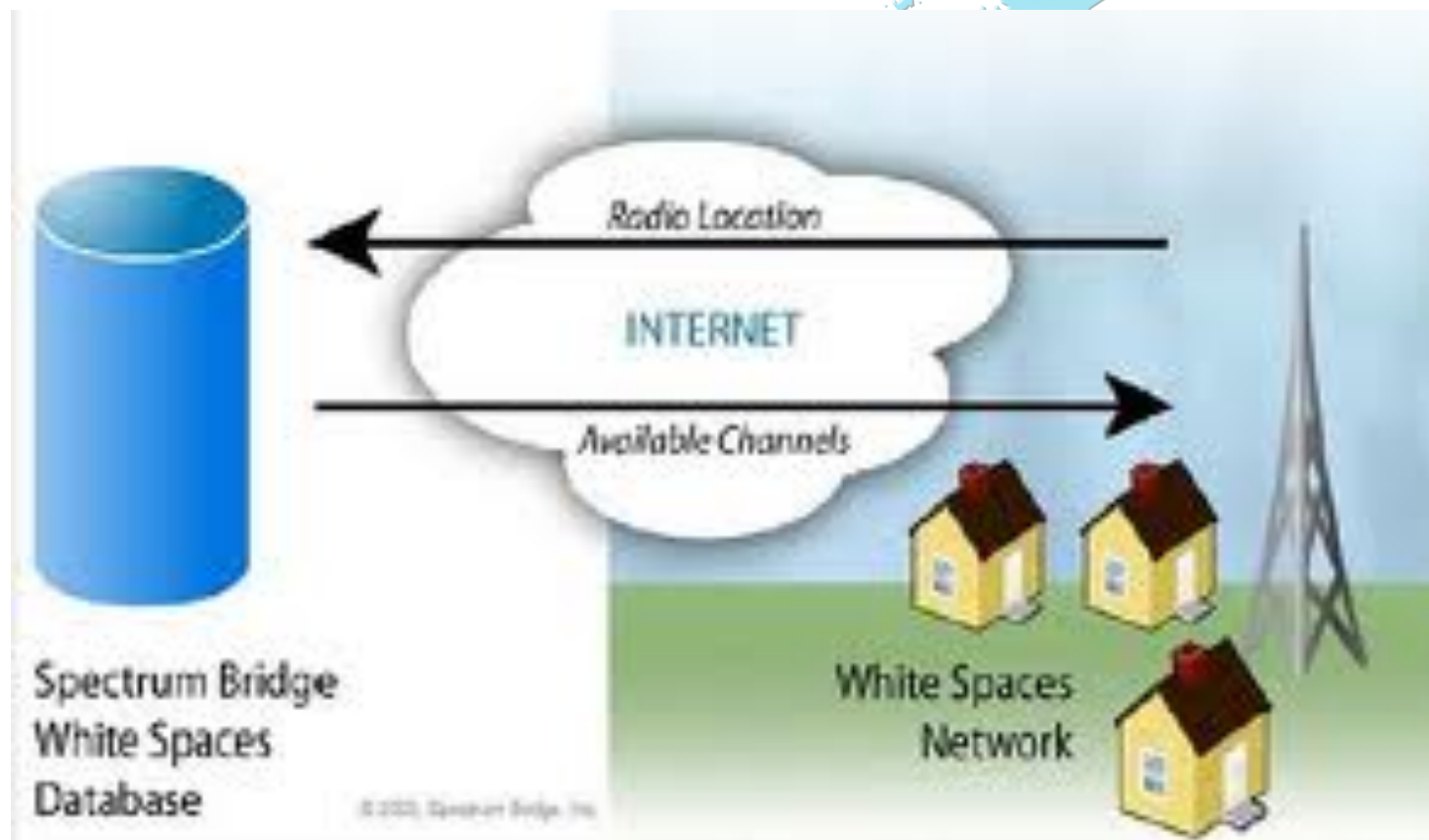
- UK Broadband / PCCW
 - Bought Freedom4 (Pipex Wireless)
- Backhaul still constraint
- LTE will dominate, though UK Broadband wants to offer LTE services
 - Handsets don't currently work in these bands, so would need to be a dongle based service



Whitespace

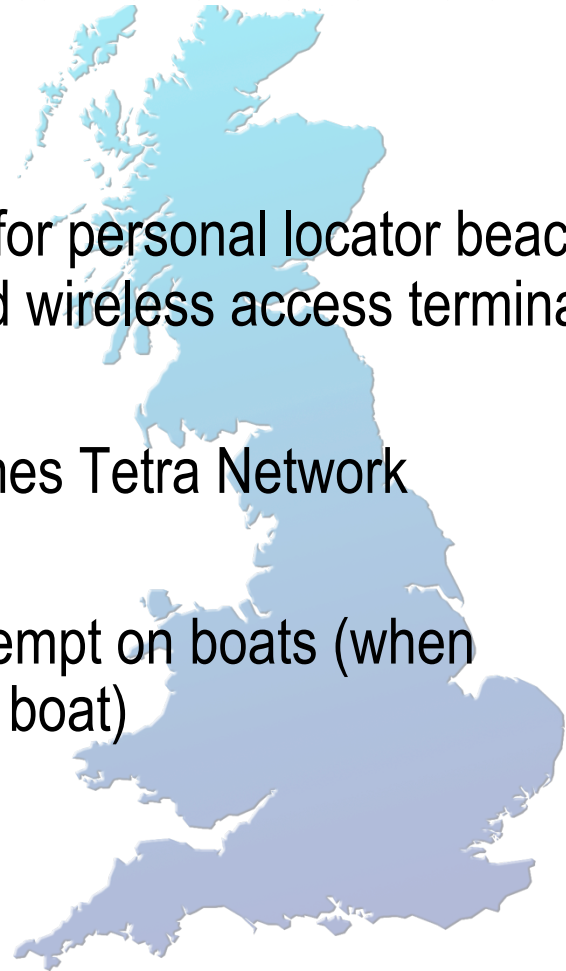


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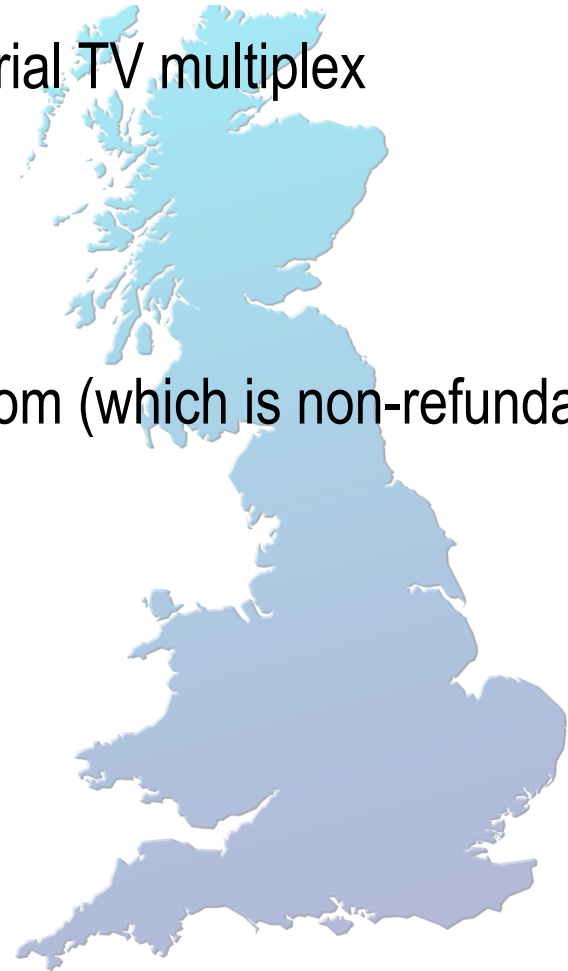
Ofcom makes more spectrum license exempt

- 2GHz for mobile satellite terminals
- The 3400 - 3800 MHz band can be used for personal locator beacons on land, wireless road safety systems and wireless access terminals
- Terminals used for the 2012 London Games Tetra Network
- Also mobile handsets are also license exempt on boats (when connected to a mobile basestation on the boat)



Ofcom offering new digital channel

- 5th HD channel on the HD Digital Terrestrial TV multiplex
- Uses MPEG-4 and DVB-T2
- Applications cost £15,000 payable to Ofcom (which is non-refundable whether the license is granted or not)



New spectrum for Transportable Earth Stations

- Ofcom has opened up new spectrum in the C and Ka bands for use by Transportable Earth Stations (TES) i.e. portable satellite communications devices.
- Available immediately
- Existing licensing regime



BT and EE trial LTE in Cornwall

- Another 800Mhz trial.
- The trial will support 200 users split between mobile and fixed users in an area where fixed broadband is currently unavailable.
- Using kit from Huawei.



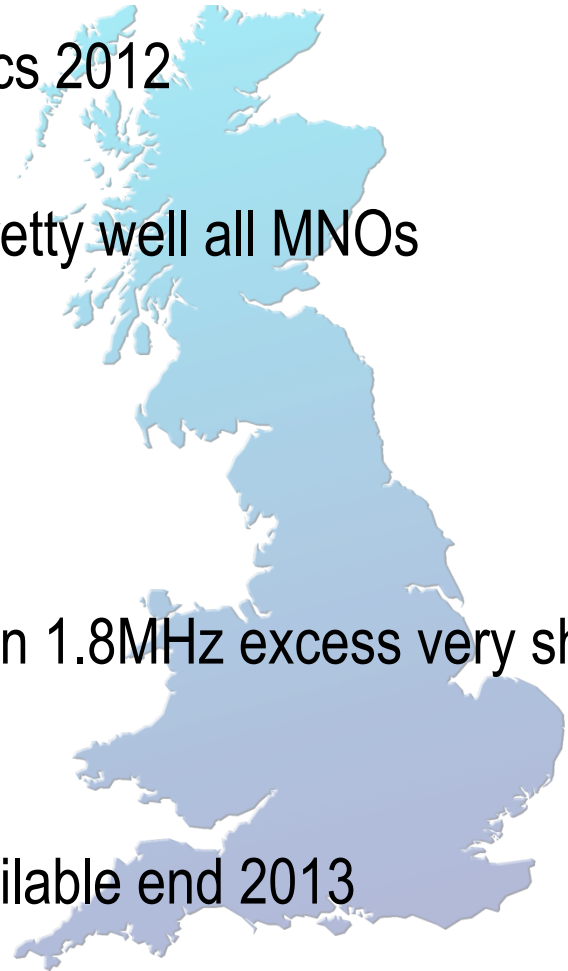
60GHz

- License exempt
- IEEE 802.11ad specification
- Chipsets are becoming available now
- Cable replacement service
 - Wireless HDMI
 - Intra-device comms



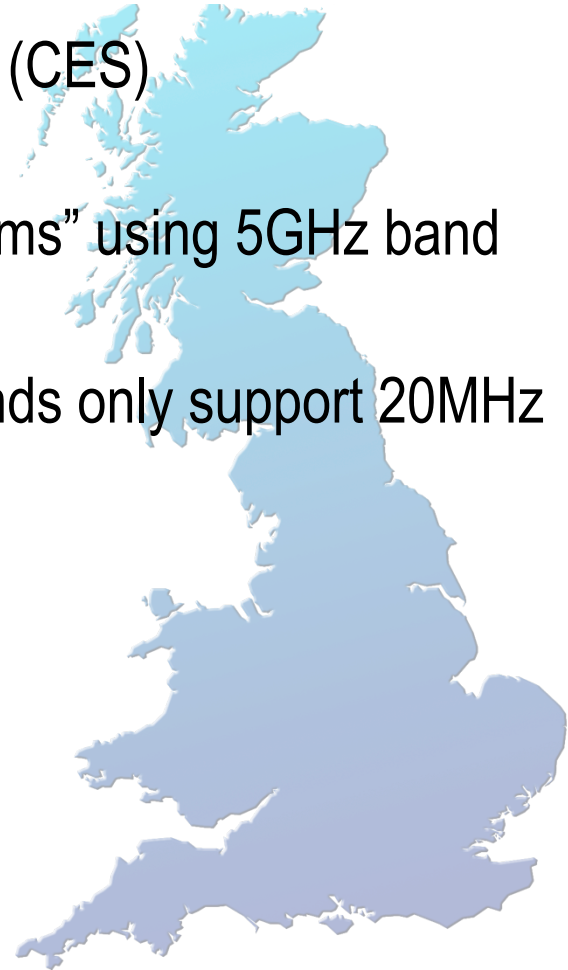
800MHz / 2.6GHz

- All spectrum reserved for London Olympics 2012
- Auction held up by legal wrangles from pretty well all MNOs
- Ofcom have now published consultation
 - No caps sub 1GHz
- Everything Everywhere expected to auction 1.8MHz excess very shortly (~£400m) 2 x 45MHz bands
- Auction to take place 2012, spectrum available end 2013



Gig WiFi

- New chips supporting 802.11ac available (CES)
- Supports 80MHz channels, up to 3 “streams” using 5GHz band
- Great news for UK as currently 5GHz bands only support 20MHz channels as per Ofcom SI



Thank you for listening!

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