

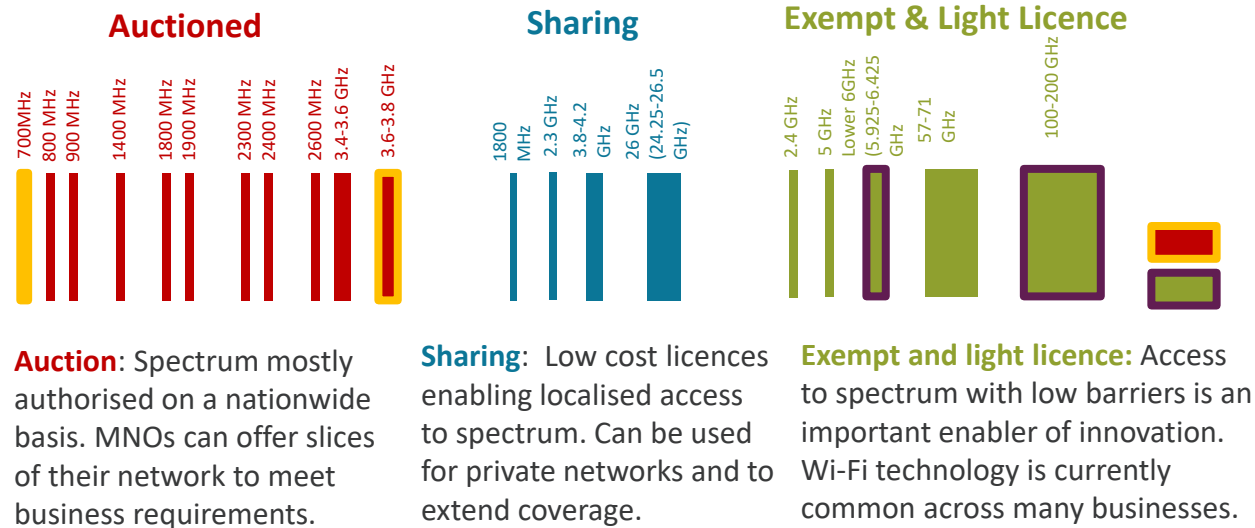
Innovation + growth = more sharing

Philip Marnick- Group Director Spectrum – Ofcom

DSA summit – 9 June 2021

Enabling access to spectrum to meet demand

- **Spectrum is critical for wireless.** We are making sure that spectrum bands, with different characteristics, can be accessed by a wide range of players, including MNOs, system integrators and directly by businesses, to deploy the connectivity solutions that meet their requirement.
- We have been engaging with different businesses and organisations, through a series of workshops, to better understand their evolving needs and to highlight the options available and their characteristics.



Our spectrum management vision

We want:

Continued improvements in the wireless communications used by everyone, wherever and whenever they use them

Businesses, public sector and other organisations with specialised requirements to be able to access the right wireless communications or spectrum options for them

We aim to enable this by:

Providing flexibility in spectrum use to support innovation, with appropriate assurances for continued use

Encouraging sustained improvements in the efficiency of spectrum use

Supporting the UK's wireless future: Our spectrum management strategy for the 2020s

- Existing activities will continue to be important to achieving our vision
- In considering the challenges of the future, we have identified **three themes for particular focus**

Supporting wireless innovation

- Expanding our work to understand, assist and inform organisations who may benefit from wireless technologies in the future
- Making more spectrum available for innovation before long-term use is certain
- Supporting innovation in new wireless technologies



Licensing to fit local and national services

Considering further options for **localised spectrum access**



Promoting spectrum sharing

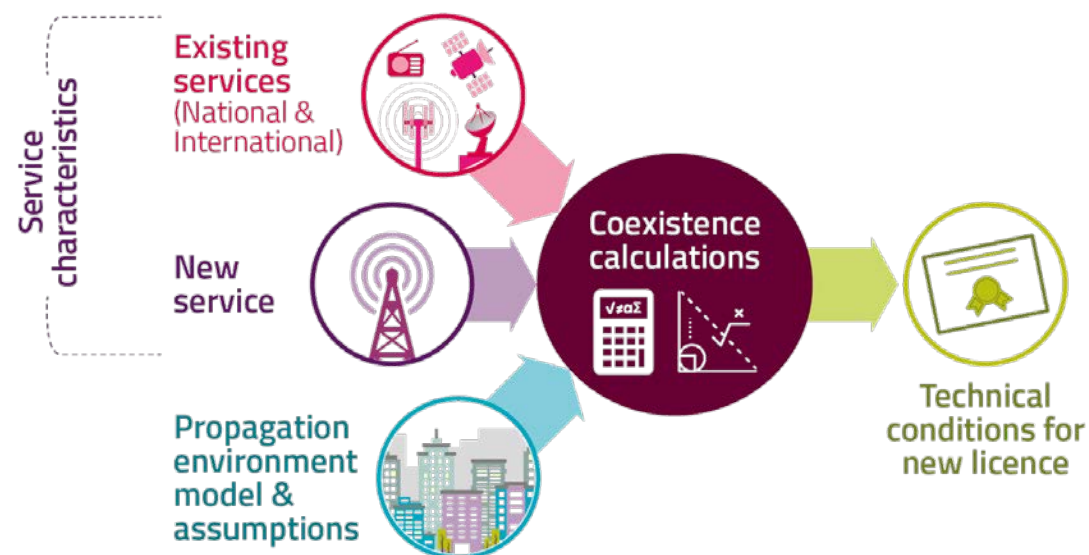
Encouraging spectrum users to be 'good neighbours'



Promoting spectrum sharing

Encouraging users to be better spectrum neighbours

- Use of **better data** and more sophisticated analysis when assessing the conditions for sharing
- Wireless systems to be **more resilient** to interference from their neighbours
- An **efficient balance** between the level of interference protection given to one service, and flexibility for others to transmit



Enabling growth and innovation – 6 GHz

Sharing offers a route to optimal use of spectrum by enabling existing and new services to grow

- Band is currently used by a number of services including **fixed links**, **satellite earth stations** and **radio astronomy**
- **WiFi** and high power **mobile** are interested in this band, which also has the potential to provide connectivity for **industrial applications**



- IMT identification is being considered for region 1 at WRC-23. But coexistence between existing users and high power outdoor mobile is not possible – would require clearing incumbents
- There is demand from businesses for more inbuilding solutions
- Technology neutral local licensing could enable growth from both existing and new users, leveraging the developing ecosystem of devices in this band
- Our objective is to ensure optimal use and promote innovation

A global conversation

There are many challenges in how we all manage and use spectrum at a national and international level, balancing different uses and needs.

- There is a need for a global conversation, on how to make sure we benefit from the wireless opportunities of the future



- **The Wireless Future: Global Spectrum management Challenges for the 2020s**, 6 July 13:30 – 15:00 BST
- **Unlocking the potential of THz Spectrum**, 14 July 14:00 BST
- Future events: **future networks beyond 5G**, autumn