

Spectrum Sandbox Workshop (1)

16 February 2022

Agenda

- **1. Welcome and introduction** (2pm 2.15pm) What and why are Spectrum Sandboxes within OFCOM's Spectrum roadmap
- 2. Understanding diversity of use (2.15pm 2.45pm)

 Discussing each participant's use and requirements regarding the 3.8 to 4.2Ghz band
- **3. Collecting real world data** (2.45pm 3.15pm)

 How best to collect data on nature of propagation, interference and QoS? What data can be collected from existing deployments and equipment?
- **4. Ways of working** (3.15pm 3.35pm)

 Terms of Reference and discussion of ways of working for stakeholders who wish to continue to participate in the Sandbox.
- 5. AOB / Open discussion / Next steps (3.35 4pm)

Ofcom has a duty to secure the optimal use of the radio spectrum

Making sure people and businesses have connectivity

where and when they need it



Whilst considering the spectrum needs of a wide and varied number of wireless applications...



































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Our spectrum management strategy focuses on enabling innovation and growth - the what

Spectrum Management Vision

July 2021



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 communication or spectrum options for them.



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



Sustained improvements in the efficiency of spectrum use.



Supporting wireless innovation





Respect

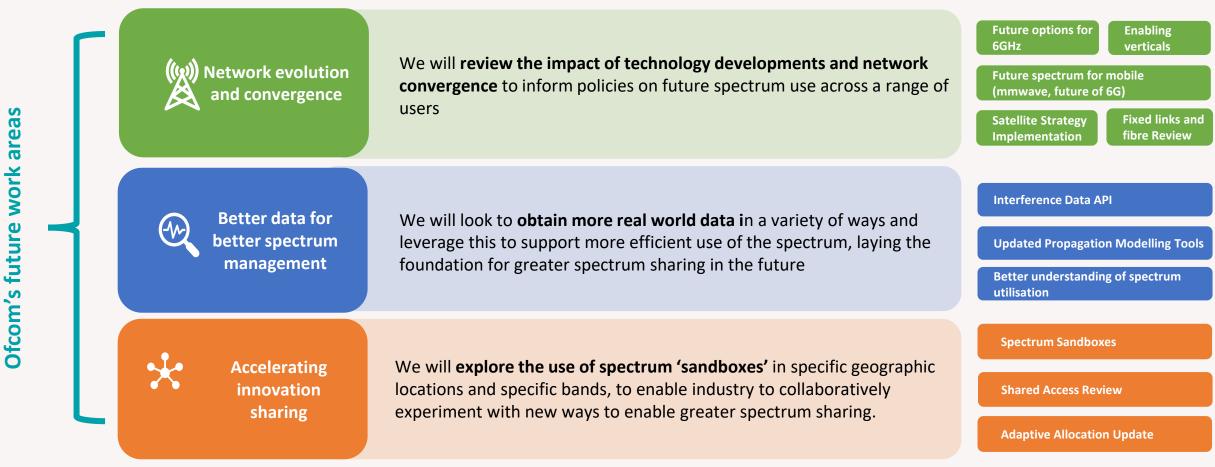






Our spectrum roadmap has identified three key themes for future work - the how

> These themes reflect market developments, changes in technology and broader international trends in spectrum use and management



International engagement and review and update of licensing process

collaboration EMPOWERMENT Respect

What's a spectrum sandbox?

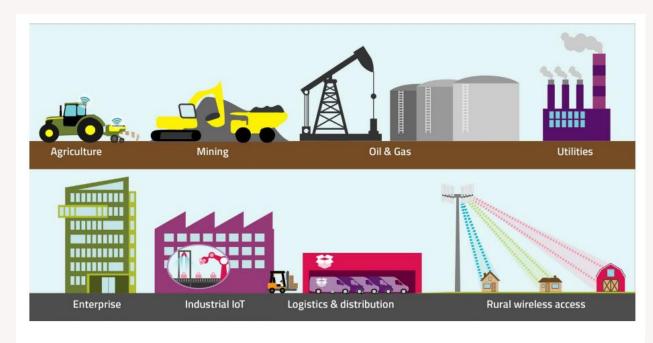


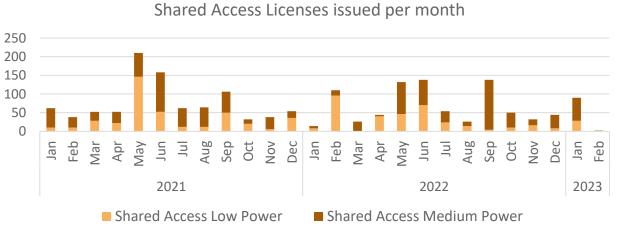
Accelerating innovation and sharing with spectrum sandboxes

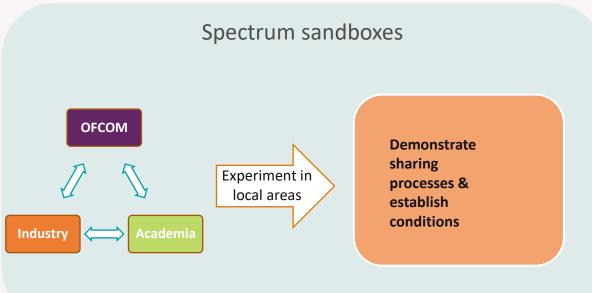
We will explore the use of spectrum 'sandboxes' in specific geographic locations and specific bands, to enable industry to collaboratively experiment with new ways to enable greater spectrum sharing, working directly with stakeholders to accelerate the process of specifying and agreeing coexistence and sharing conditions

Spectrum Roadmap Discussion Document

Exploring more flexible access in 3.8 – 4.2 GHz



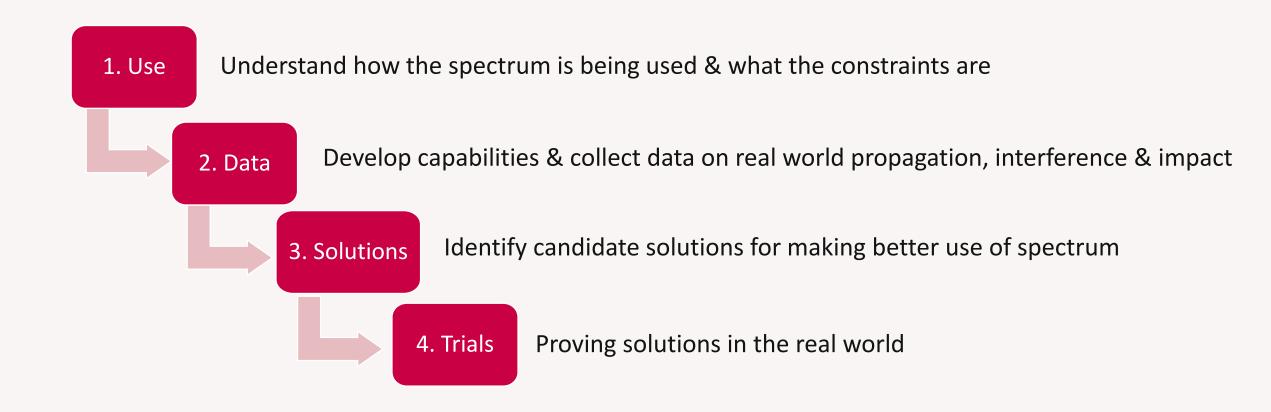




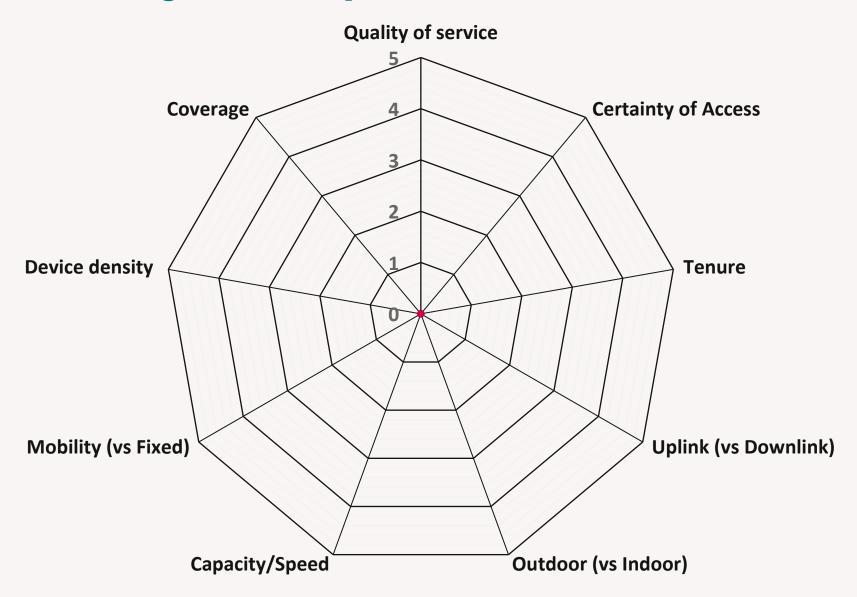


3.8 to 4.2 GHz band is also used by Satellite Earth Stations & Fixed Links

Proposed Approach



1. Understanding diversity of use



Collaboration

2. Collecting Data

What data can be gathered from existing deployments?

Propagation

Interference

Achieved QoS

Active Antenna

Software Defined Radio

Network Function Virtualisation

Ofcom Interference API

Notwork

Ways of working: building on best practice & lessons learnt

Different models of collaboration...

JOTS

Shared standards established through direct agreement

OTA

Shared standards established with facilitation by 3rd party

DCMS 5G Testbeds & Trials

Multiple consortia to invest in and foster individual projects

Delivering outcomes whilst protecting interests...

Transparency

Confidentiality

Commitment

Competition

GDPR

Terms of Reference

Programme Management

Contact us at: spectrum.roadmap@ofcom.org.uk