

Spectrum Group work programme

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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 increasingly wide and varied number of wireless applications...



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.

Increased focus on:

Supporting wireless innovation

Licensing to fit local and national services

Promoting spectrum sharing



collaboration

EMPOWERMENT

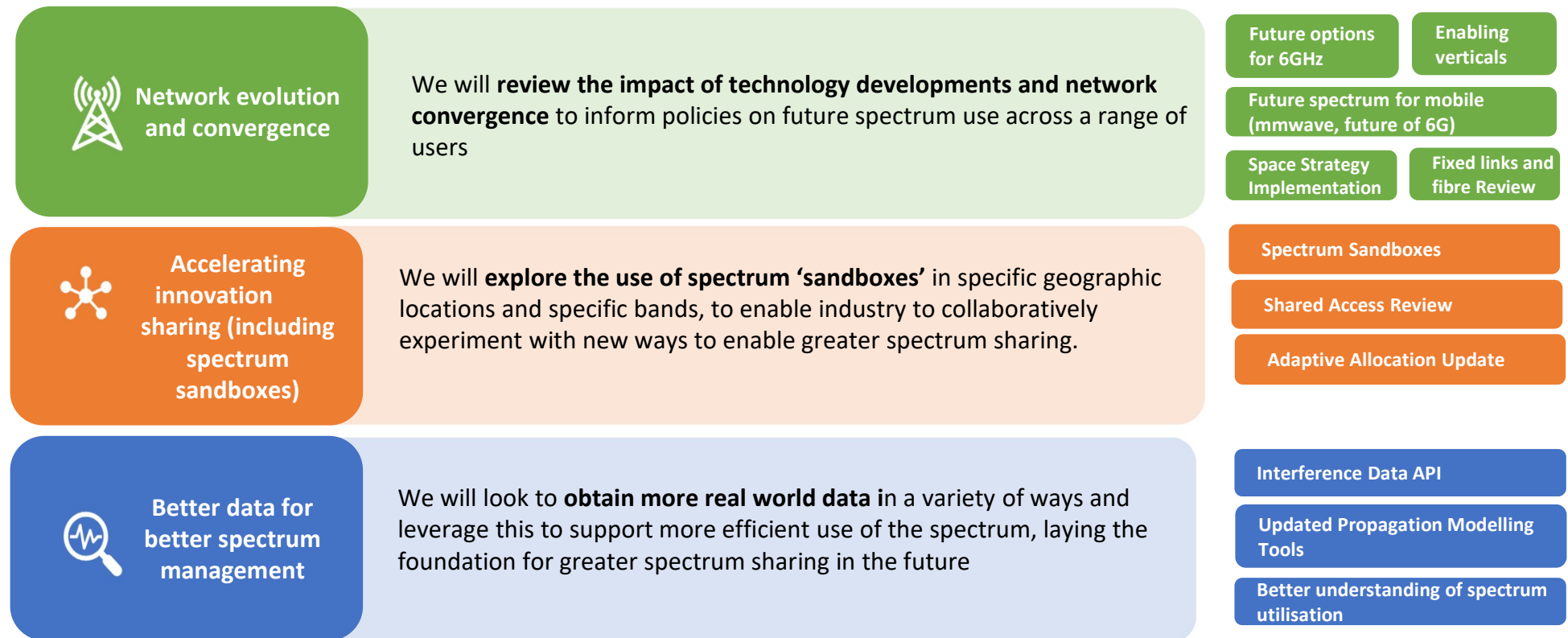
Respect

agility

Excellence

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 core spectrum management functions

collaboration

EMPOWERMENT

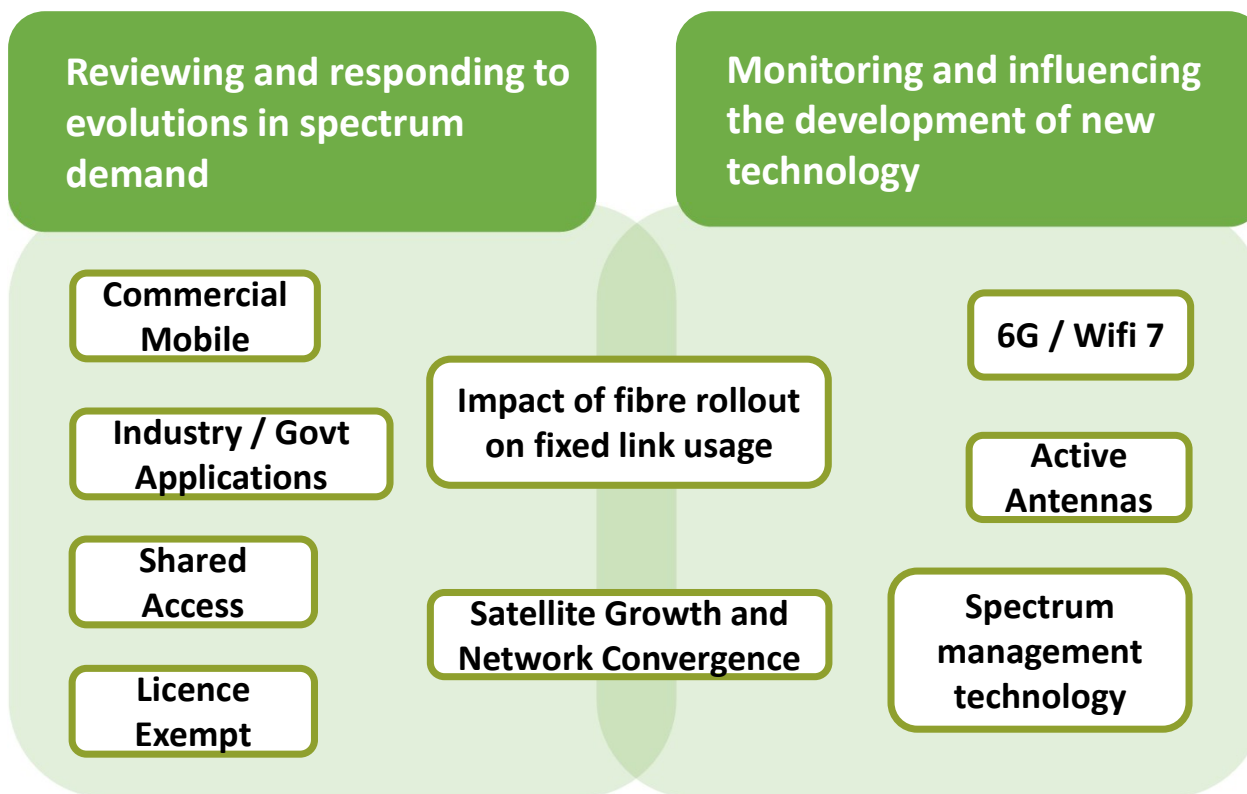
Respect

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Our role in facilitating network evolution and convergence



collaboration

EMPOWERMENT

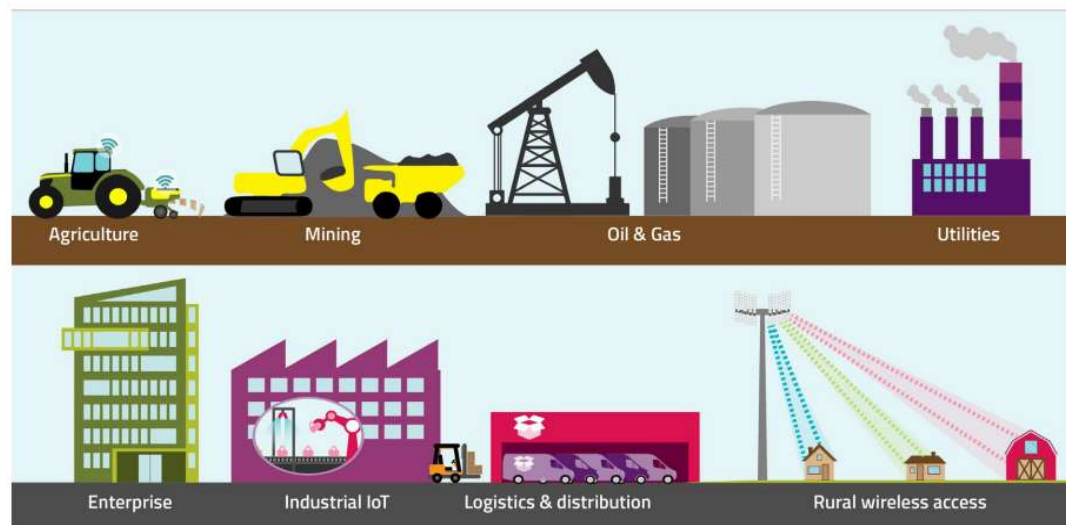
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Shared access – supporting wireless growth and innovation



Spectrum sandboxes

Experiment in local areas

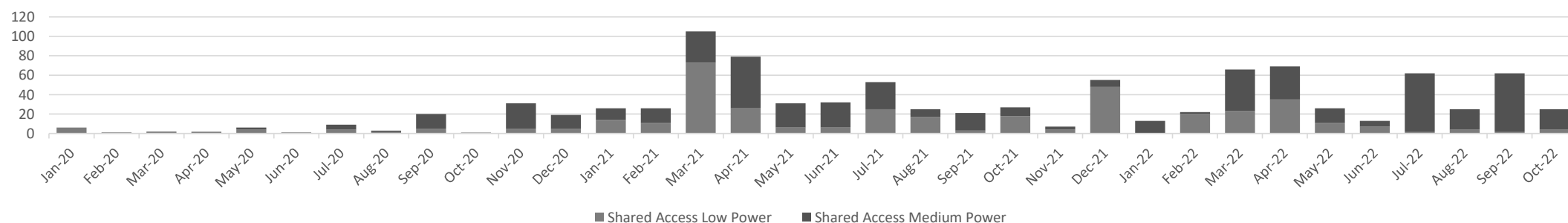
Demonstrate the potential for more sophisticated sharing processes & establish conditions

3.8 - 4.2 Ghz

Lower 6 Ghz

Terahertz

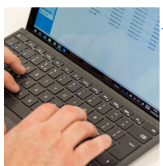
Shared Access Licences issued by month



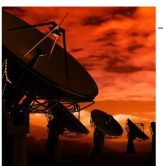


Better data will allow better spectrum management

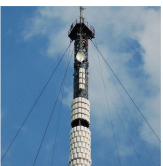
Data sources



Interference-
logging API



Industry



OFCOM
monitoring
stations

Spectrum band utilisation

- Licensed and license exempt demand.
- Metrics for utilisation beyond on/off.

Technical radio equipment performance data

- To identify the cause of interference in a context.

Real world systems parameters and performance metrics

- To improve propagation and coexistence modelling.

Real world performance of active antenna systems (AAS)

- To improve modelling and coexistence analysis.

2023

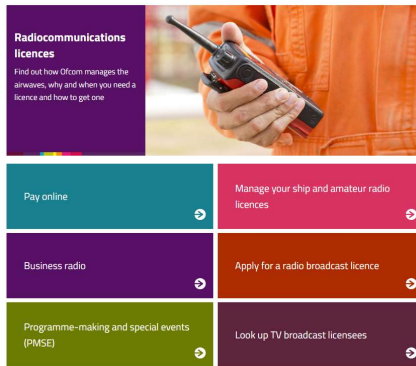
2023



And it's also about managing the spectrum for users

Planning and Licensing

Manage your licence



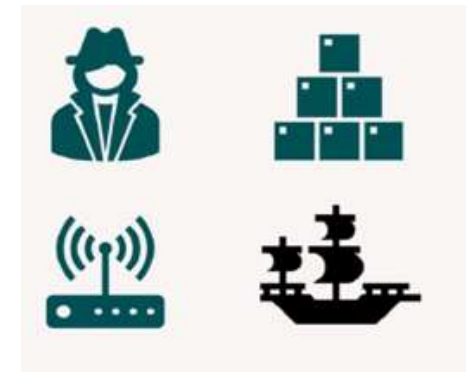
- Over 300k licences
- 7,000 new applications
- 80,000 total customer contacts
- Licensing process upgrade to better meet users' needs
- Support to events

Assurance



- Received 2707 reports of spectrum interference
- Proactively investigated 1634 spectrum users
- Vehicles - 300k+ miles across the UK

Compliance



- Pirate broadcasts reduced 37% in last 4 years
- 40 major investigations per year
- 3487 jammers removed from Amazon and eBay
- 209 products investigated

In conclusion

Our **strategy, roadmap** and the proposals in the **2023 Plan of work** outline the work we have identified as instrumental in ensuring the efficient use of the spectrum in light of technology market and international changes.

Through this, we will continue to enable innovation and growth for a wide and growing range of spectrum users.

Thank you