

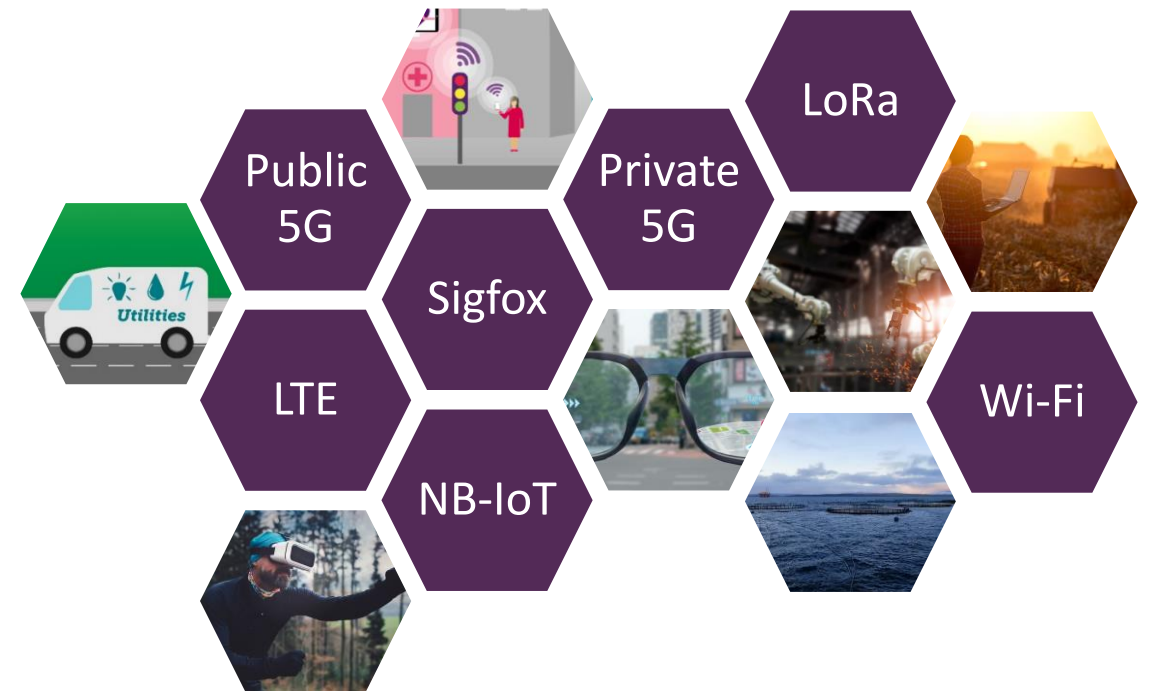
# Enabling wireless innovation and growth in a 5G world

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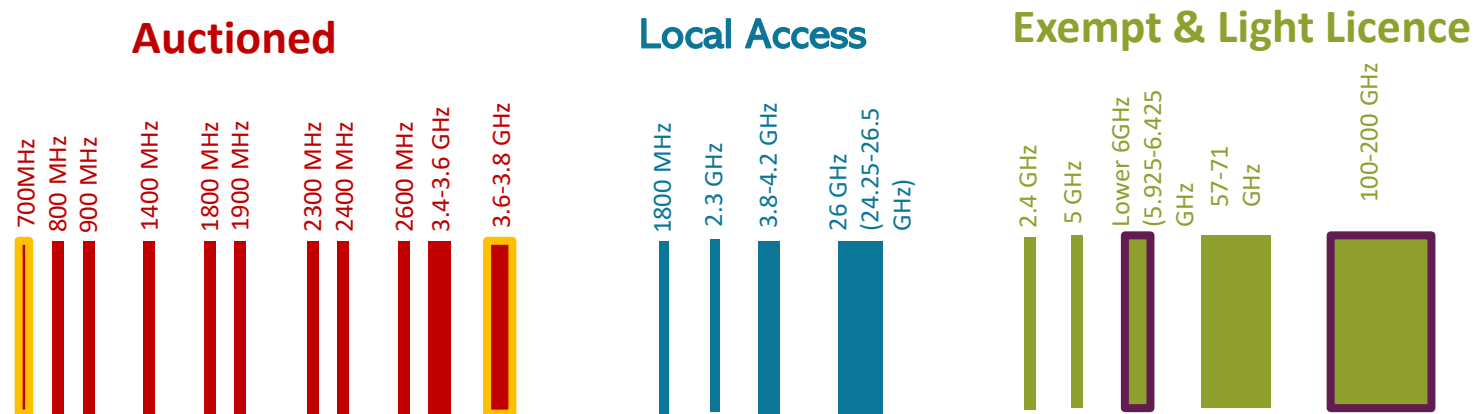
# Making sure people and businesses have connectivity where and when they need it

... taking into account different technologies and different business models...



## ...and different spectrum bands

- **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.



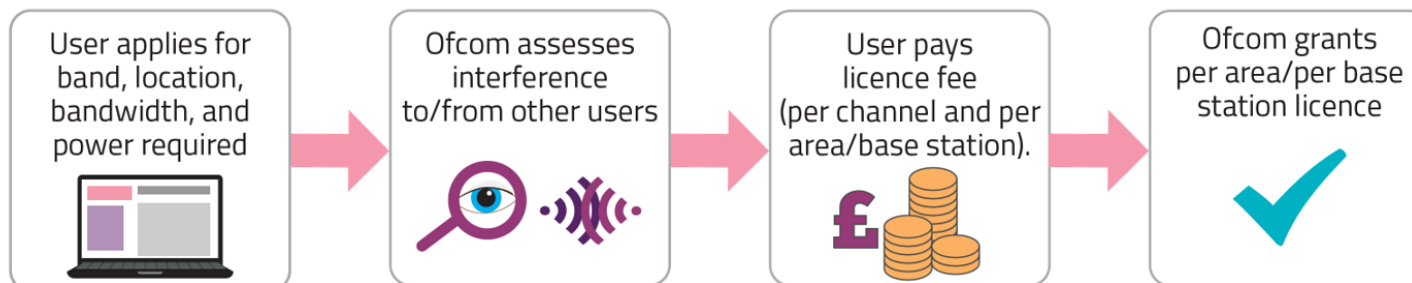
**Auction:** Spectrum mostly authorised on a nationwide basis. MNOs can offer slices of their network to meet business requirements.

**Sharing:** Low cost licences enabling localised access to spectrum. Can be used for private networks and to extend coverage.

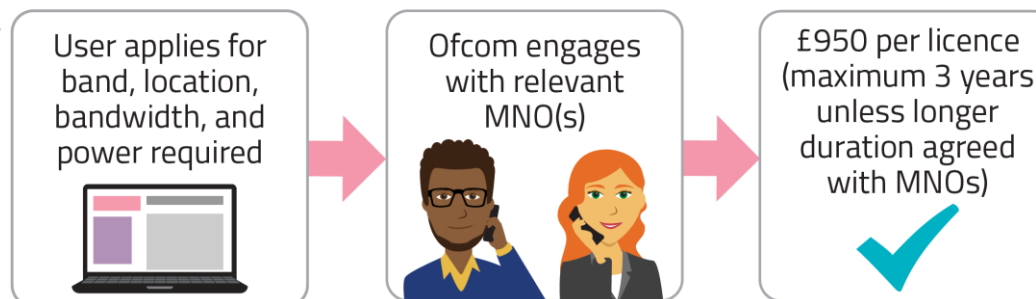
**Exempt and light licence:** Access to spectrum with low barriers is an important enabler of innovation. Wi-Fi technology is currently common across many businesses.

# In 2019 we launched our spectrum sharing framework to enable a range of different use cases and players

**Shared access licence** for access to licensed mobile spectrum, 1800 MHz, 2300 MHz, 3.8-4.2 GHz and 26 GHz → deployment within 6 months of obtaining licence



**Local access licence** for access to licensed mobile spectrum (700MHz, 800MHz, 900MHz, 1400MHz, 1800MHz, 2350-2390MHz, 2.6 GHz, 3.4-3.8 GHz)



## We see clear demand for this form of local spectrum authorisation

- As of 10 November we have on issue over 1,300 Shared Access held by over 50 different companies.

Shared Access	Low Power	Medium Power
1800 MHz	872	104
2.3 GHz	31	
3.8-4.2 GHz	76	223
26 GHz	1	

- Issued 18 Local Access licences to 5 different companies.

Local Access	Licences issued
1800 MHz	1
2.6 GHz	17

# 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'

