Shared Access Licences enabling local 5G networks

Ports and construction

5G broadcasting

Industrial IoT

Logistics and distribution

Rural wireless access
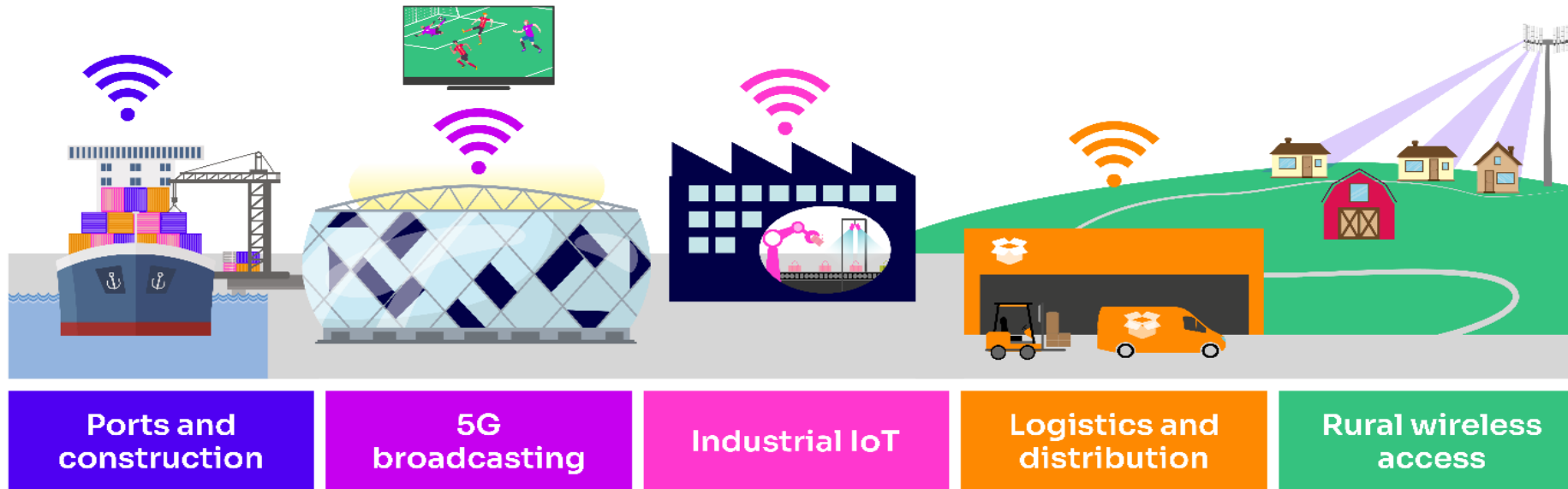
3.8 – 4.2 GHz c700 Licences
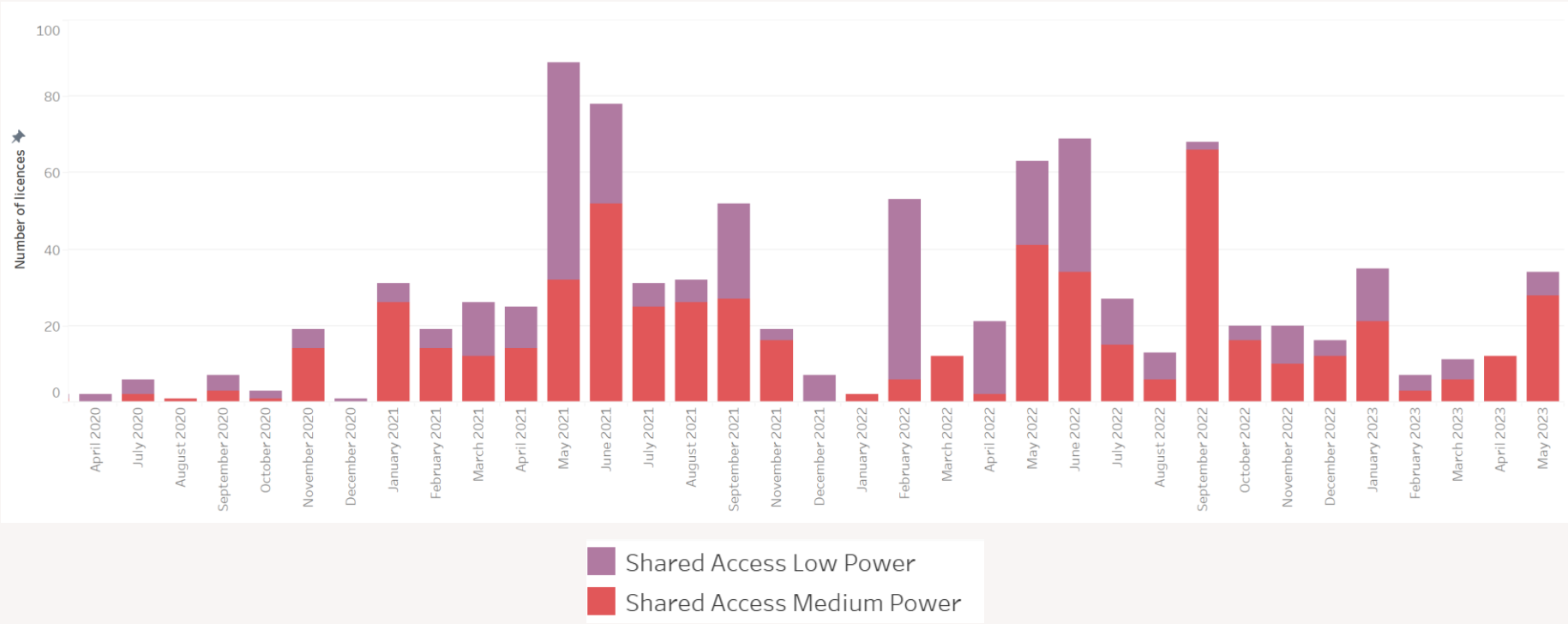
Developing Spectrum Sandboxes

Enhancing Shared Access Framework

Adding mmWave

International Developments

Uptake (as of August)
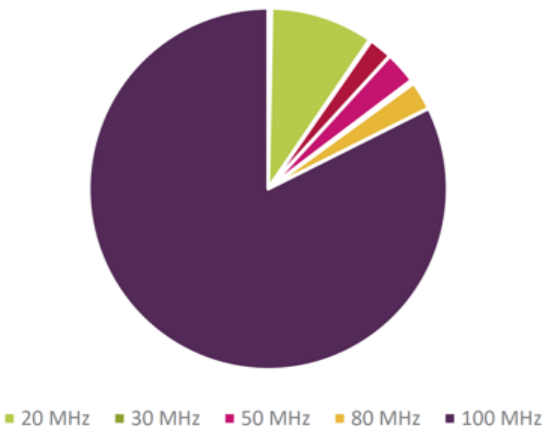
	1800 MHz	2390-2400 MHz	3.8-4.2 GHz	26 GHz	Total
Low Power	893	32	184	1	**1110**
Medium Power	95	-	470	-	**565**
Total	**988**	**32**	**654**	**1**	**1676**

Shared Access Review – Reflecting on Use Cases & Demand
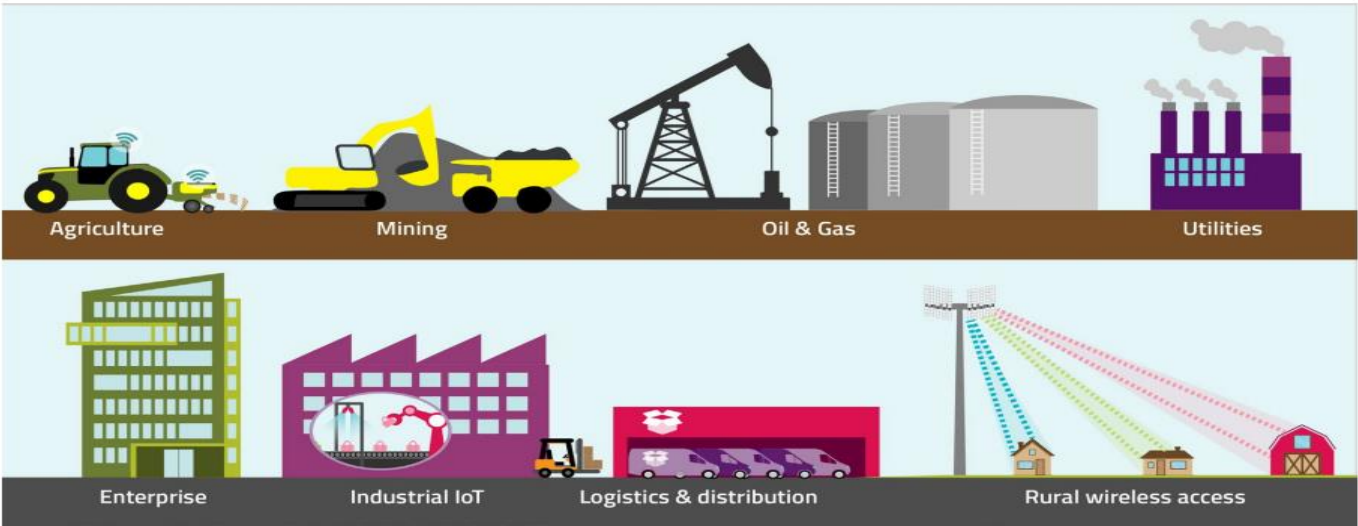
Analysis of the bandwidths (in MHz) of issued licences in 3.8-4.2 GHz[9]

Legend: 20 MHz | 30 MHz | 50 MHz | 80 MHz | 100 MHz

Future Demand

Future Use Cases

Elements of use cases that challenge the current framework
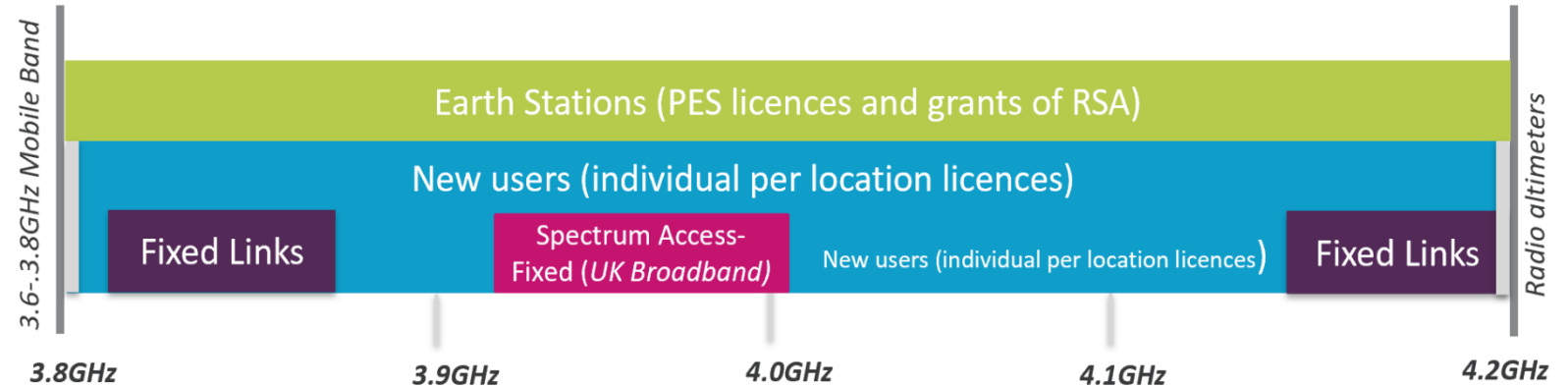
Process improvements

CFI responses deadline 16th May

Consultation Q3 FY 2023/2024

Statement Late Spring 2024

Key issues post CFI analysis

- Focus on 3.8-4.2 GHz
- Recognition of role existing users play
- Recognition of status of current equipment ecosystem

Earth Stations (PES licences and grants of RSA)

New users (individual per location licences)

Fixed Links

Spectrum Access-Fixed (*UK Broadband*)

New users (individual per location licences)

Fixed Links

3.6-.3.8GHz Mobile Band

Radio altimeters

3.8GHz | 3.9GHz | 4.0GHz | 4.1GHz | 4.2GHz

Ease of licence application process + supporting information

Challenge to ensure automation does not limit flexibility for users, and that extra information is relevant

Coordination approach (supporting more sharing)

Challenge is to do this + maintain appropriate level of access, and certainty, across disparate range of users

Balancing user preferences with support for the broadest range of users

Exploring requests to loosen restrictions where we can, whilst recognising the role of our exceptions process

Snapshot of coordination and management challenge

Initial medium/low power base station
Subsequent low power base station
Area sterilised by a single medium power site
Area sterilised by different low power sites

Predicted spectrum availability

0 MHz	
>0 MHz and <100 MHz	
≥100 MHz and <200 MHz	
≥200 MHz and <300 MHz	
≥300 MHz and ≤400 MHz	