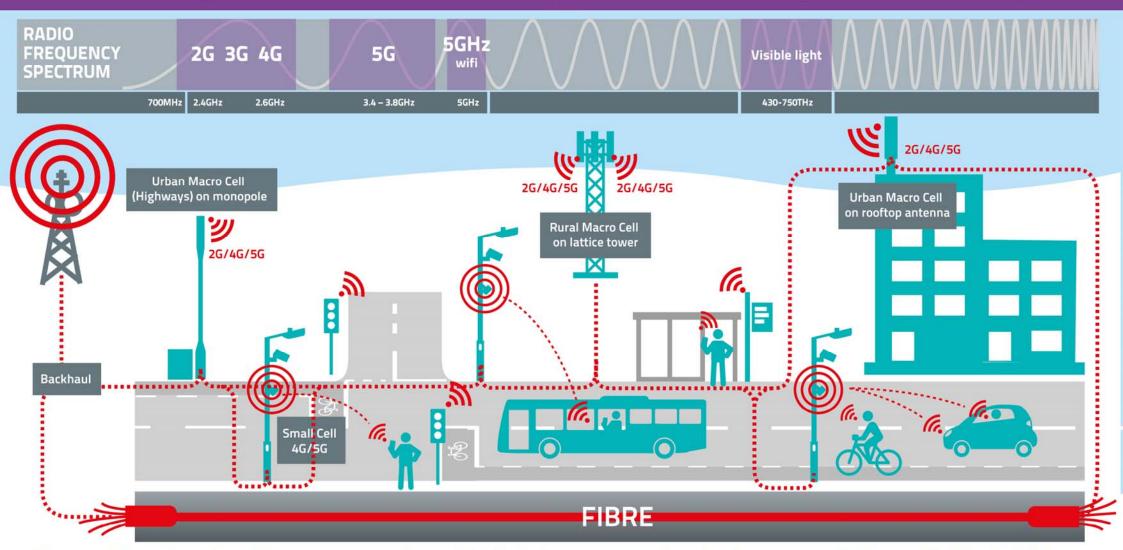
Improving the Mobile Networks in Greater Cambridge

Michael Stevens

Enabling Digital Delivery Manager Connecting Cambridgeshire

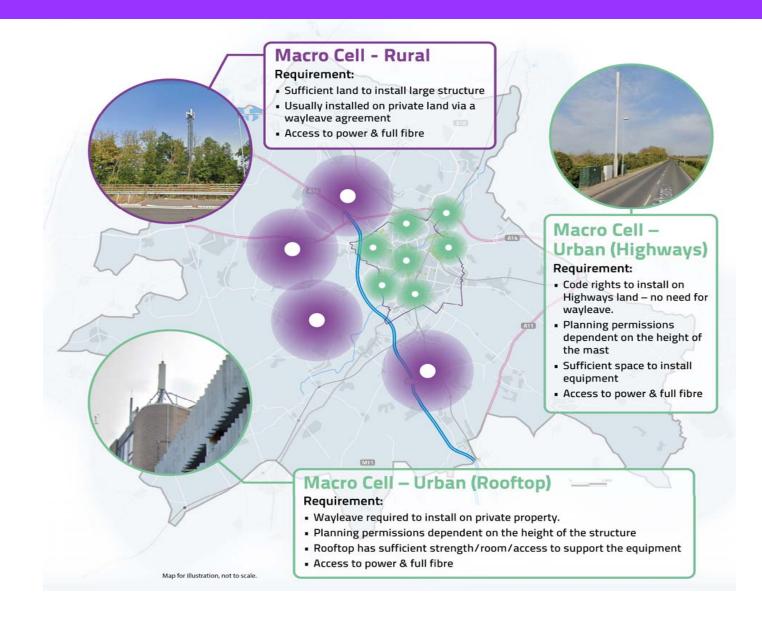


Extending mobile infrastructure to underpin future digital connectivity



How mobile networks will use macro and small cells to improve rural and urban connectivity enabled by full fibre.

Key concepts in Mobile infrastructure design:



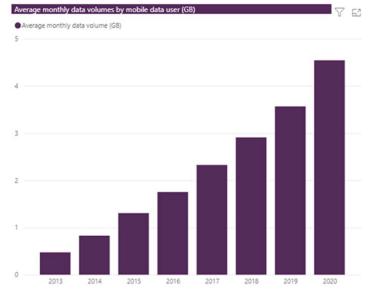
Why we need improved connectivity:

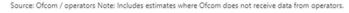




3 Key changes in mobile data landscape:

- The physical landscape is changing
- Data demand is increasing
- 5G enabled new technology, processes & opportunities
 - ☐ Healthcare & Emergency Services
 - □ Rural
 - ☐ Home, Business & The Workplace
 - ☐ Transport
 - ☐ Environment & Climate Change











Network Infrastructure improvements and the role of the Local Authority:

Mobile Network Operator improvements: Significant investment to:

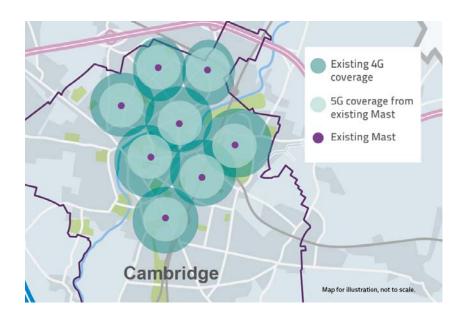
- Increase capacity of 4G networks
- Deliver a nationwide 5G network



Small Cells:

- "Hotspot" locations
- Deployable under code powers
- Deminimis under planning
- PFI Contract issue

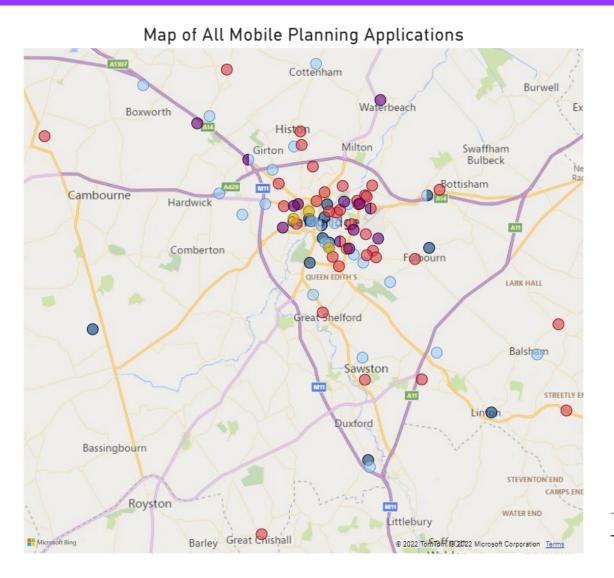


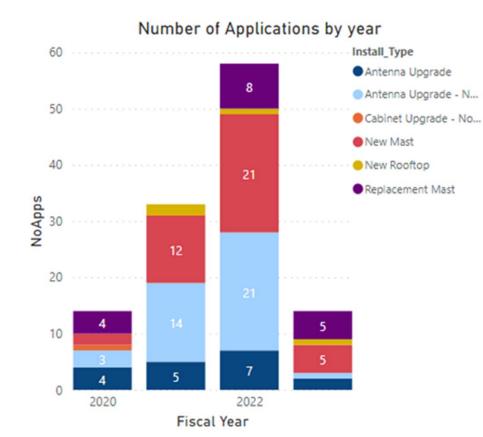


5G Networks:

- Not always deployable on existing infrastructure:
 - Different antenna
 - ☐ Shorter wavelength
 - ☐ 2G/3G/4G networks
- Planning permission issue

MNO Investment in Greater Cambridge – All Planning Applications:

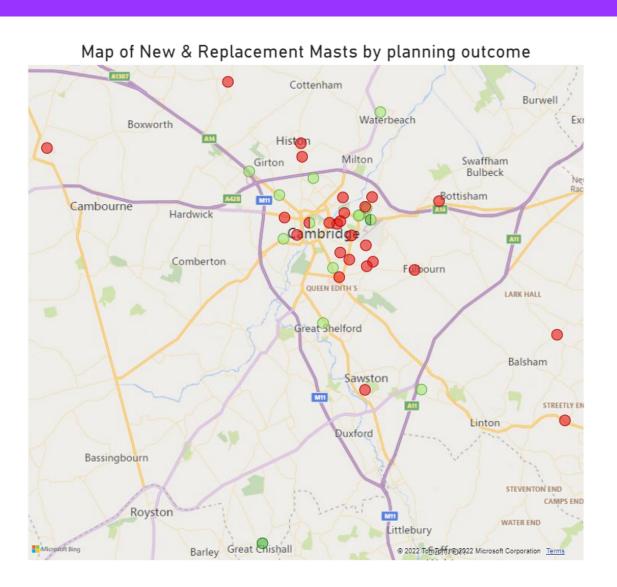


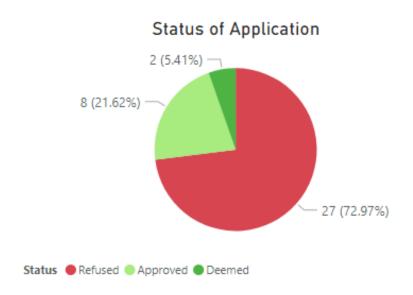


Number of Applications by Operator

District	EE	02	O2/Vod	Three	Three/EE	Vodafone	WIG	Total
GC	4	23	8	37	27	18	2	119
Total	4	23	8	37	27	18	2	119

MNO Investment in Greater Cambridge – New & Replacement masts:





Mobile Coverage Support:

- Increased engagement
- Planning Resource
- Benchmarking
- Pilots
- National planning legislation changes
- 5G factsheets