

Improving the Mobile Networks in East Cambridgeshire

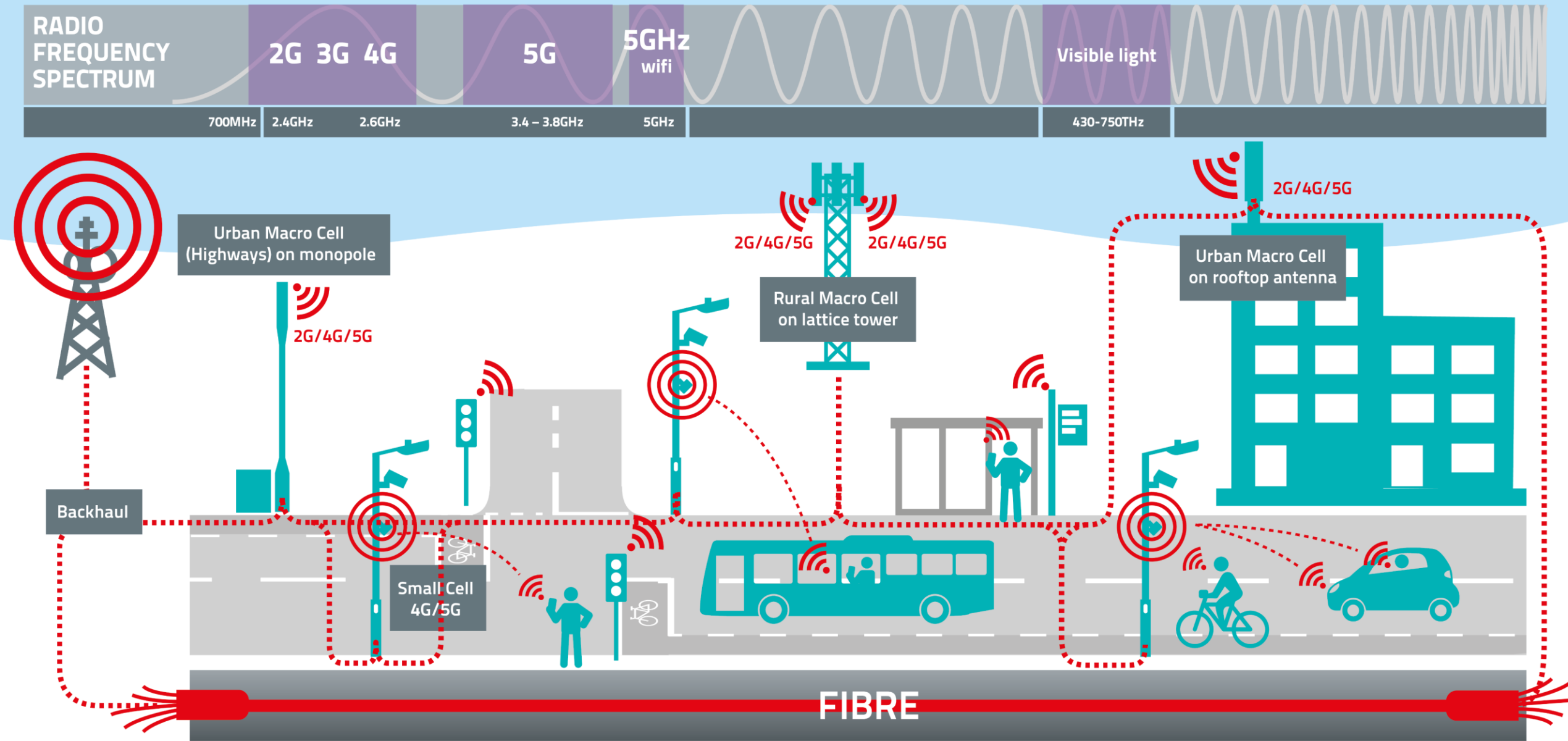
Michael Stevens

Enabling Digital Delivery Manager

Connecting Cambridgeshire

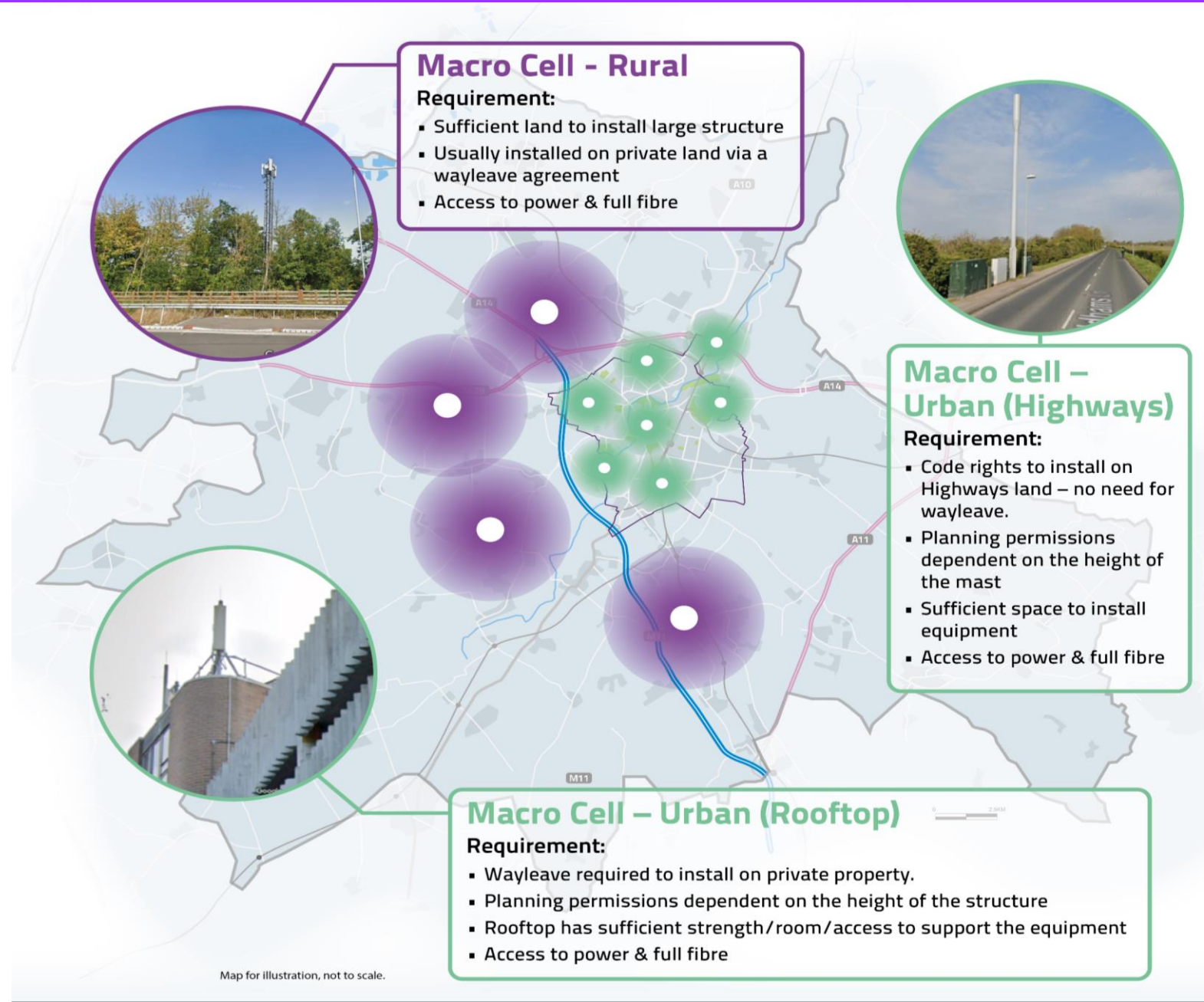


Extending mobile infrastructure to underpin future digital connectivity



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:

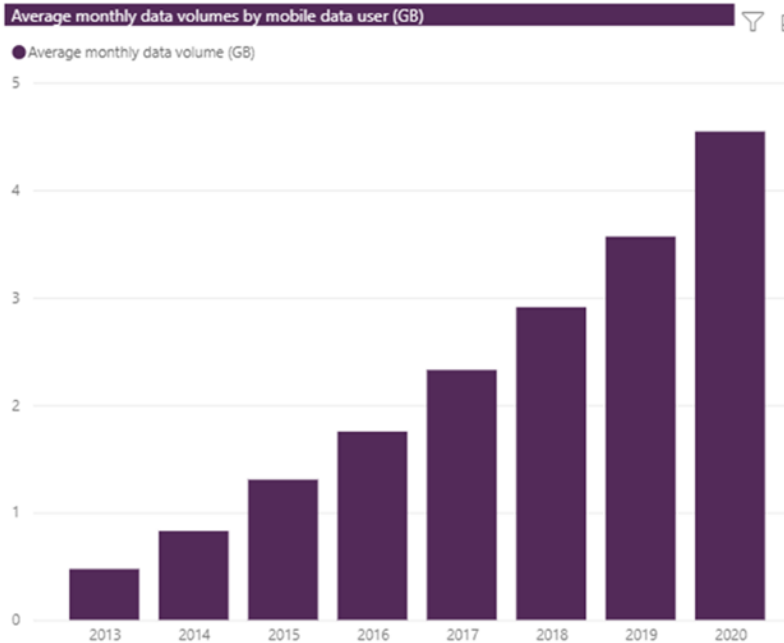


Why we need improved connectivity:



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



Source: Ofcom / operators Note: Includes estimates where Ofcom does not receive data from operators.



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:

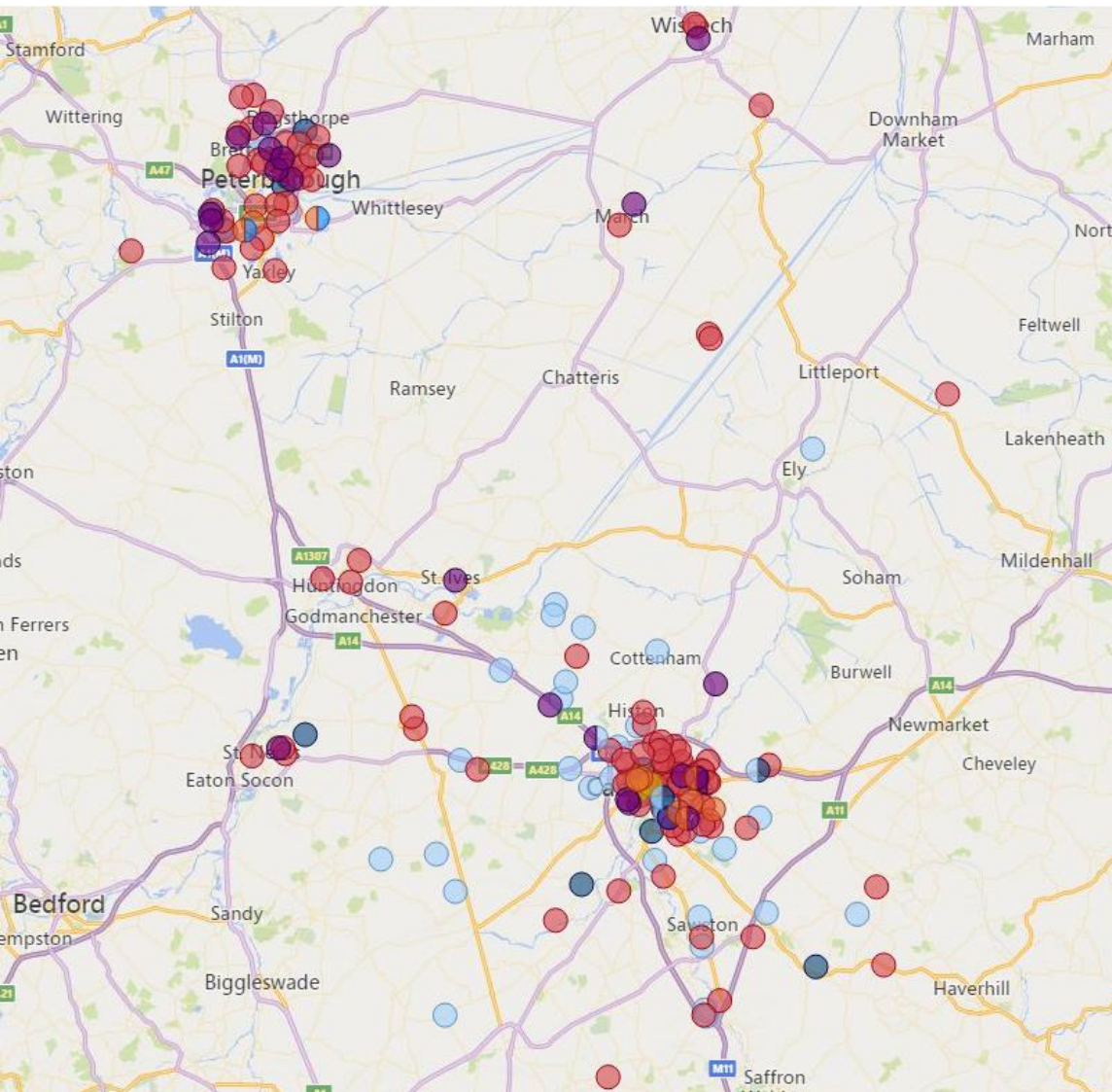
- “Hotspot” locations
- Deployable under code powers
- Deminimis under planning
- PFI Contract issue



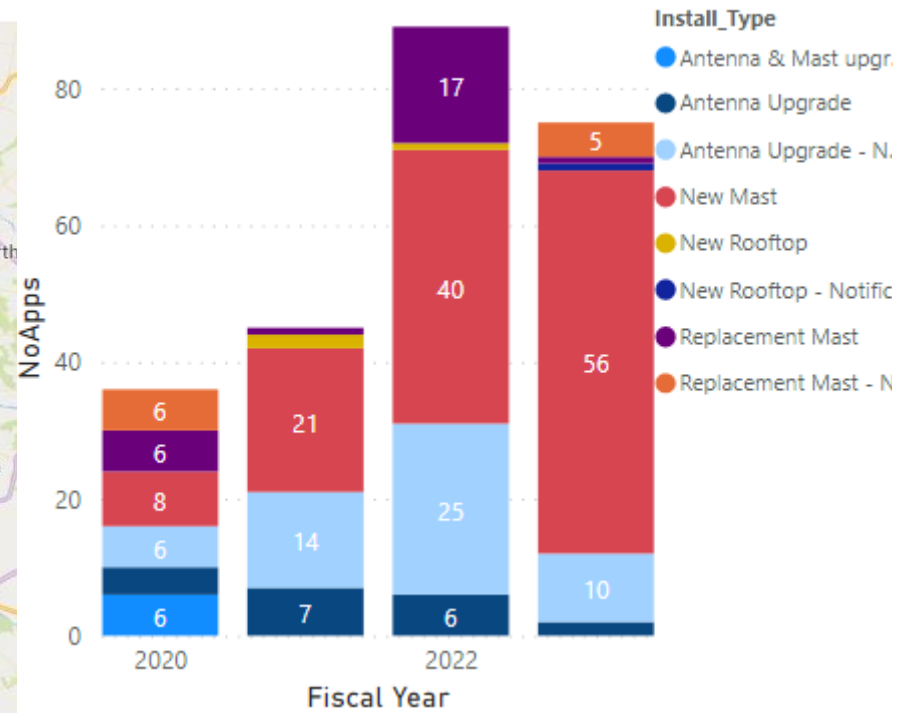
5G Networks:

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

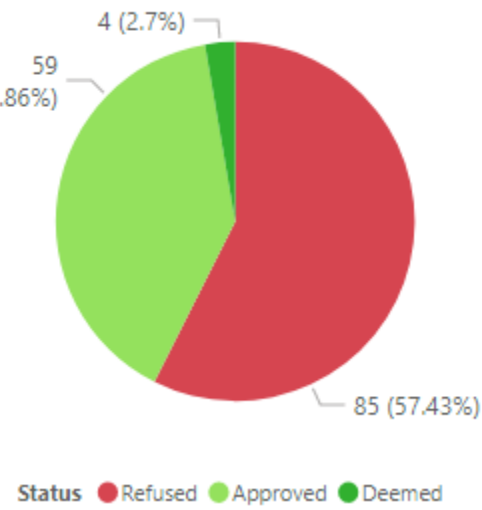
MNO Investment across Cambridgeshire & Peterborough – All Planning Applications:



Number of Applications by year

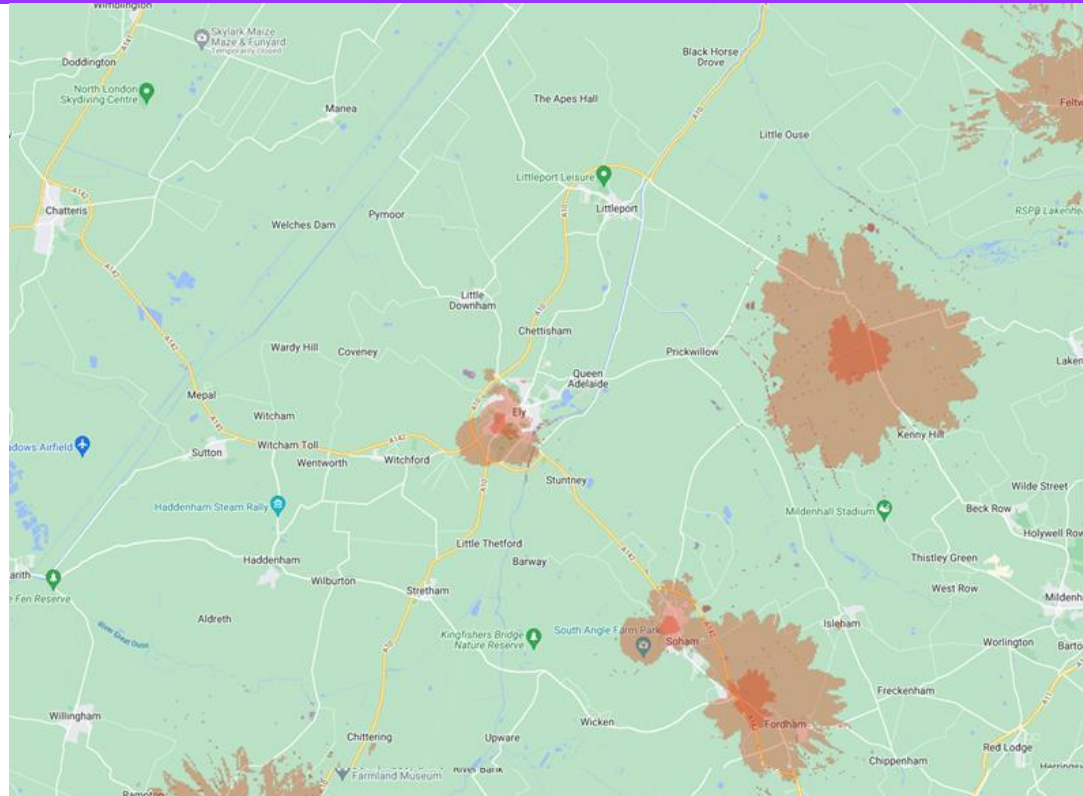


Status of Application



District	EE	O2	O2/Vod	TBC	Three	Three/EE	Vodafone	WIG	Total
East		1	1						2
Fen	1	5		1	1	1			9
GC	6	25	8		67	32	20	2	160
Hunts		4			10			1	15
PBoro		17	1		35	6	1		60
Total	7	52	10	1	113	39	21	3	246

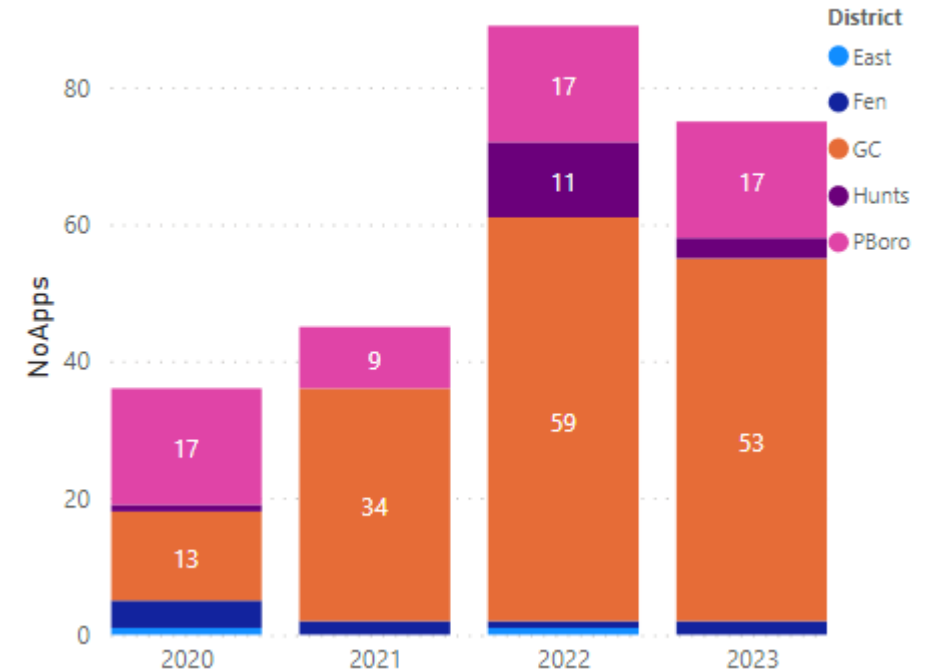
MNO Investment in East Cambridgeshire:



Three

- Outdoor and indoor
- Outdoor only

Number of Applications by year



Mobile Coverage Support:

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