

# Improving the Mobile Networks in Cambridgeshire

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# Connecting Cambridgeshire









### New CPCA Digital Connectivity Strategy 2025-2029 Approved:

## **Cambridgeshire and Peterborough Digital Connectivity Strategy Overview**

Digital connectivity has never been more important for businesses, communities and public services. Our vision is to make Cambridgeshire and Peterborough the leading region for digital connectivity and innovation to enable our residents and businesses to thrive. The future strategy objectives are set out below.

#### 🔊 Infrastructure

- Gigabit broadband to be available to 99% of Cambridgeshire and Peterborough homes and businesses.
- Meet the Government's 2023 Wireless Infrastructure Strategy ambition to bring standalone 5G coverage to all populated areas by 2030.
- Work with MNOs to drive improvements in mobile coverage, particularly for not spots/partial not spots.

#### Innovation

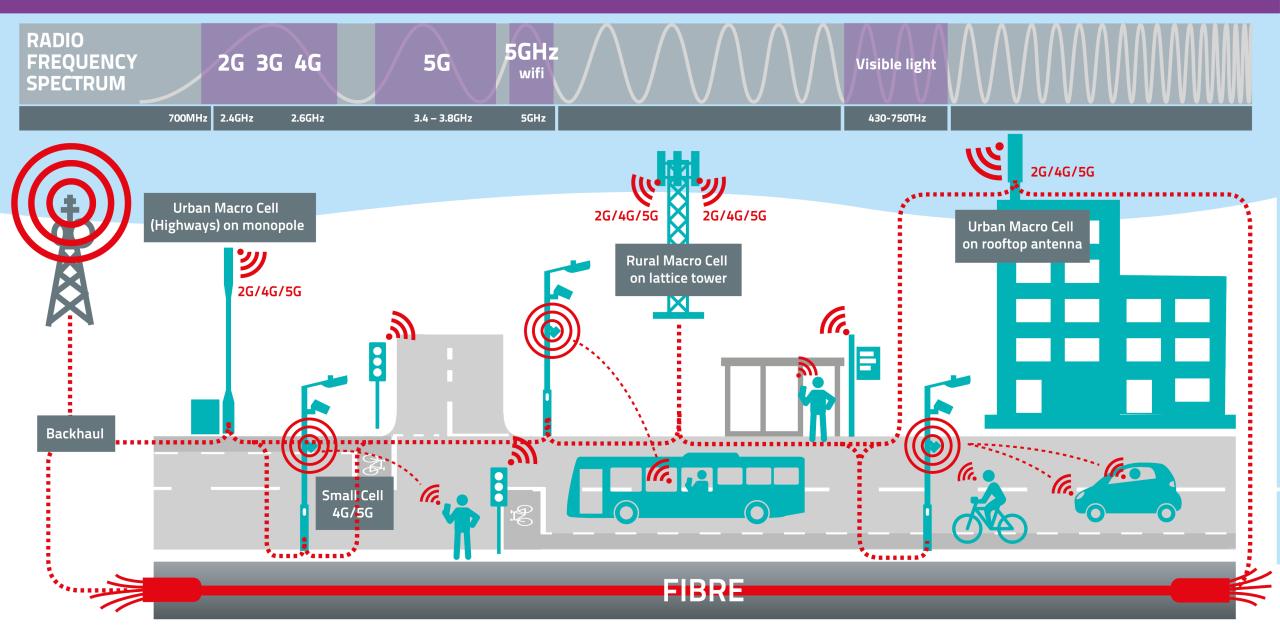
- Expand the coverage of sensor networks in the region to support further targeted collection of environmental data.
- Develop an Innovation Framework for the region.
- Increase the number of technology and data trials executed in the region over the next four years.
- Ensure that data collected by the programme and across the partner organisations can me shared to support more informed decision making.

### Inclusion

- Enable all residents and businesses to be digitally included by providing access to relevant connectivity, devices, and skills and confidence.
- Achieve minimum digital living standard for all residents ensuring they have the ability to communicate, connect, and engage with opportunities online safely and with confidence.
- Extend CambWifi services across more of Cambridgeshire and Peterborough.
- Improve standards of connectivity and digital inclusion for residents living in social housing and temporary
  accommodation.



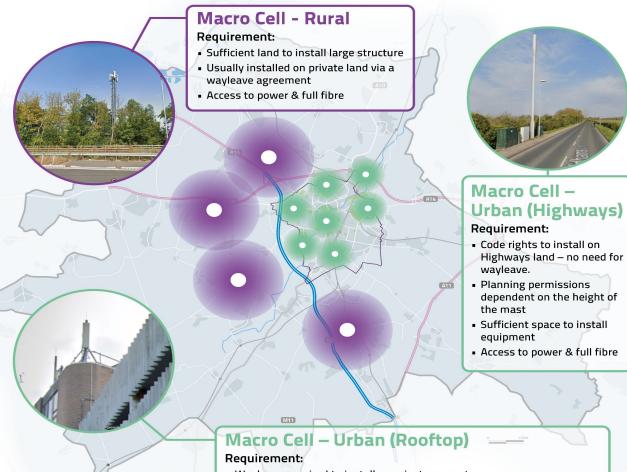
# Extending mobile infrastructure to underpin future digital connectivity



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



### Key concepts in Mobile infrastructure coverage design:







- Wayleave required to install on private property.
- Planning permissions dependent on the height of the structure
- Rooftop has sufficient strength/room/access to support the equipment
- Access to power & full fibre

Map for illustration, not to scale.

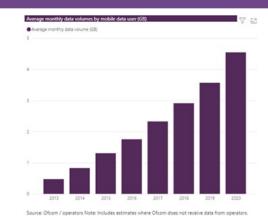


### Network Infrastructure improvements and the role of the Local Authority:

**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



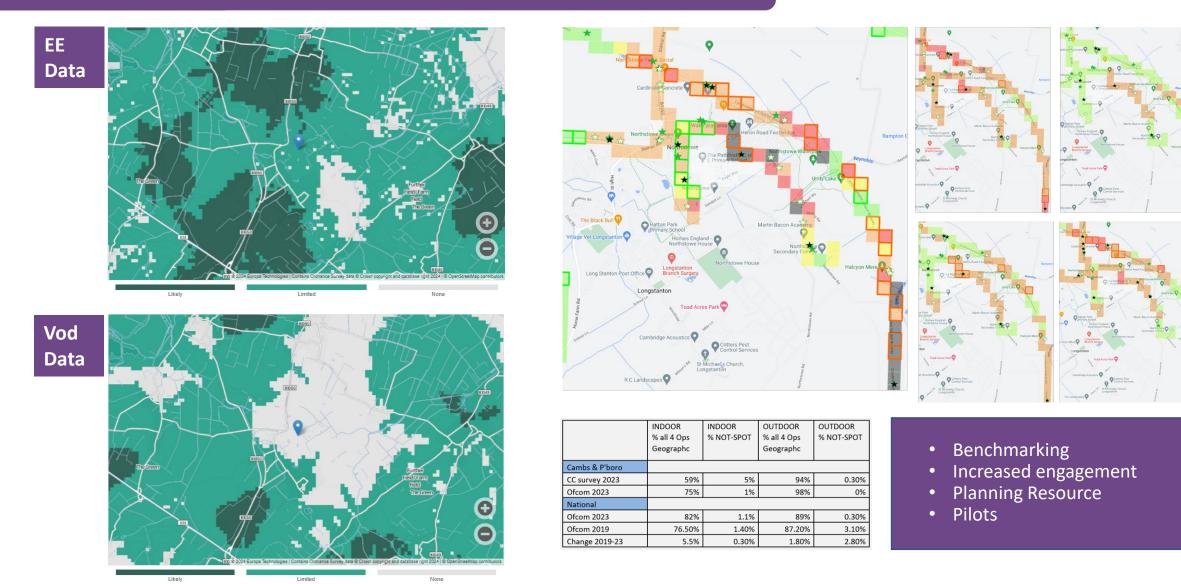
#### **5G Networks:**

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





### Northstowe Coverage – 4G





# Thank you

# Any questions?

Find out more at connecting cam bridgeshire.co.uk or em ail us via contact@connectingcam bridgeshire.co.uk





