



REGIONAL SHOWCASE

CAMBRIDGESHIRE & PETERBOROUGH

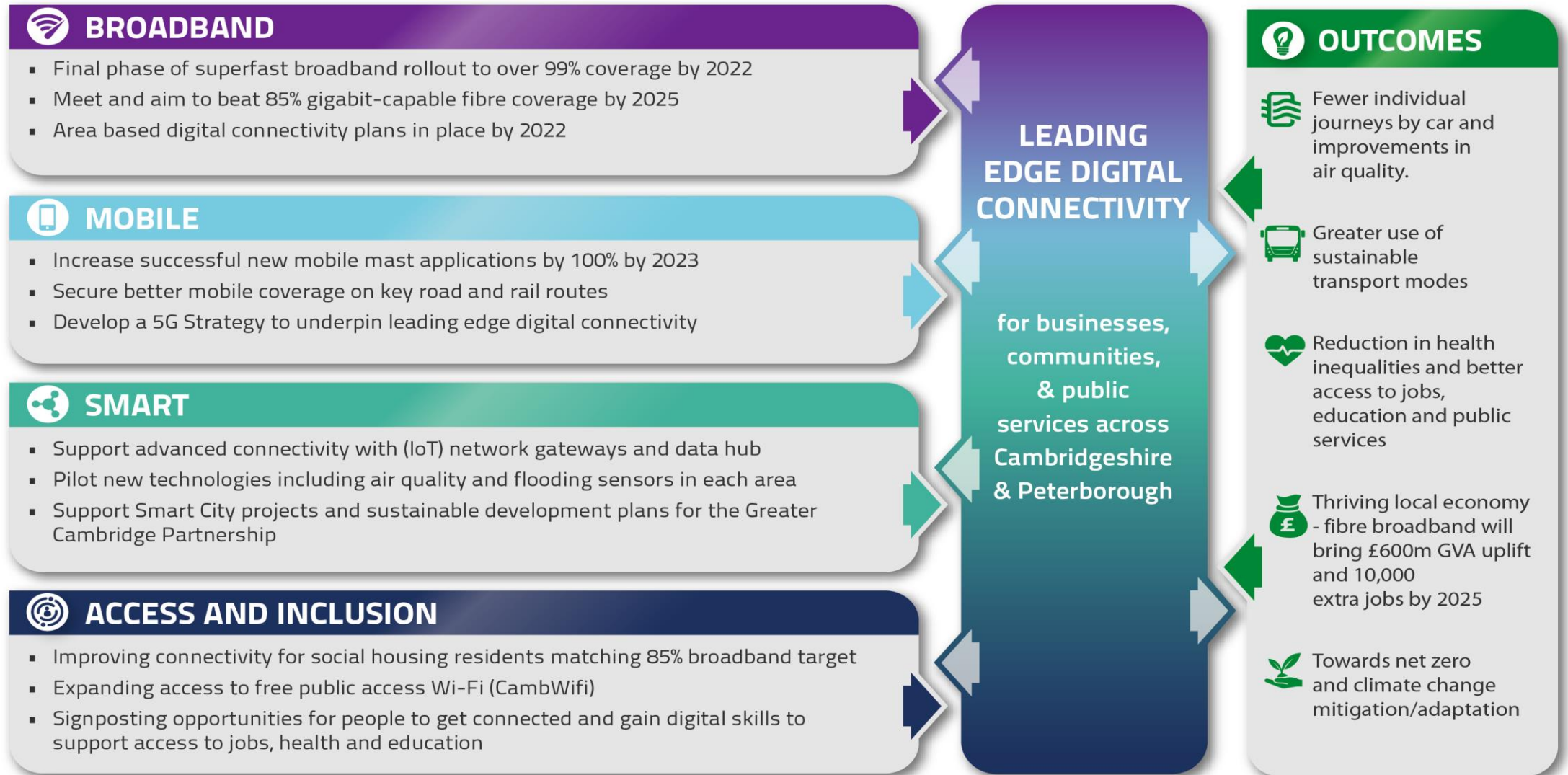
CEREN CLULOW – PROGRAMME DIRECTOR
CONNECTING CAMBRIDGESHIRE



Use of Council Assets for Telecoms in Cambridgeshire and Peterborough

Ceren Clulow – Programme Director
Connecting Cambridgeshire

Cambridgeshire and Peterborough Digital Connectivity Strategy 2021-2025



Full strategy at:

<https://www.connectingcambridgeshire.co.uk/wp-content/uploads/2021/11/Digital-Connectivity-Infrastructure-Strategy-2021-2025-Nov-2021.pdf>



> 98%

premises can access **Superfast Broadband** – ahead of national average.

> 70%

High take-up of superfast broadband bringing £millions clawback to reinvest



Mobile coverage survey data

being used to improve coverage for communities, road/rail lines, business/research parks.



70% > 85%

2022 > 2025

Full fibre targets reached early, now on track to exceed 85% full fibre Government target by 2025



Project Gigabit

bringing gigabit capable full fibre broadband to c45,000 premises in 2024 **£69m**

Government funding + £53m commercial investment



200+

Free CambWifi available in 200+ public buildings, city and market town centres, and village halls.



Full fibre upgrades to 117 public buildings, schools and libraries + fibre ducting deployed in transport infrastructure schemes.

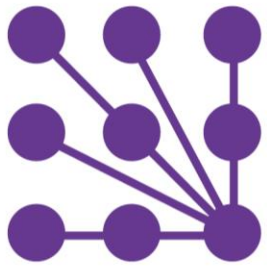


Innovative use of smart technology

for real time travel updates, air quality, energy and flood monitoring.

Allocated >£1million business digital grants

to support Covid recovery.



Leading digital infrastructure programme launched 2011 to improve:

- Superfast broadband coverage
- Digital inclusion



Working in partnership with:

- Government and local councils
- Telecoms and mobile network providers
- Business and community champions



Rapidly increasing demand over past decade

- **<60%** could access Superfast Broadband (24Mbps+) in 2010
- **>98%** could get superfast/faster in 2022

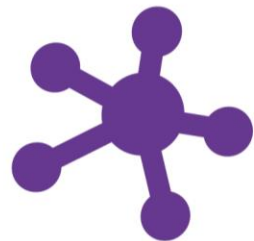
Digital connectivity strategy – expanded 2018 to cover:

- mobile coverage (4G and 5G)
- full fibre broadband
- public access Wifi
- smart technology and data



Internet use accelerated during Covid 19 pandemic

- **85%** of all adults used smartphones to go online in 2020



Digital connectivity is vital to support:

- Business growth
- Access to public services
- Health and Wellbeing
- Education and Skills
- Thriving, inclusive communities



Funding and investment:

- **£30m** public sector funding for superfast rollout
- **£80m** additional commercial investment in full fibre networks
- **£122m** funding for gigabit capable fibre broadband

Fibre Ducting in Infrastructure Schemes

Deploying fibre ducting at the same time as delivering infrastructure schemes brings many other benefits as well as better digital connectivity

BENEFITS

Saving time & money by integrating ducting at the same time as infrastructure schemes are built



Achieving carbon savings by reducing the need for repeat work and retrofitting



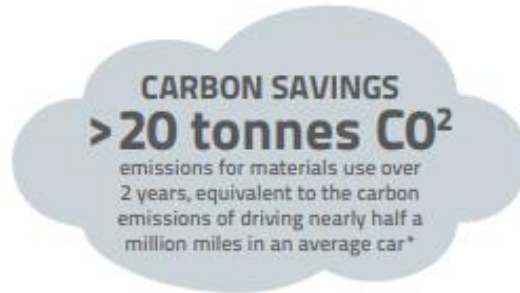
Minimising disruption to roads, pavements or cycleways, and reducing congestion



Solving civils challenges such as crossing rail lines and road junctions and encouraging telecoms providers to extend fibre networks further



CARBON SAVINGS
>20 tonnes CO²
emissions for materials use over 2 years, equivalent to the carbon emissions of driving nearly half a million miles in an average car*



FIBRE DUCTING
IN
INFRASTRUCTURE

Approximately
21.6km
OF FIBRE DUCTING
installed/planned in roads
and cycleways by 2025

OUTCOMES

Ensuring future facing connectivity is available to support next generation technology



Facilitating sustainable economic growth and increased productivity - including remote working, digital skills and opportunities for businesses



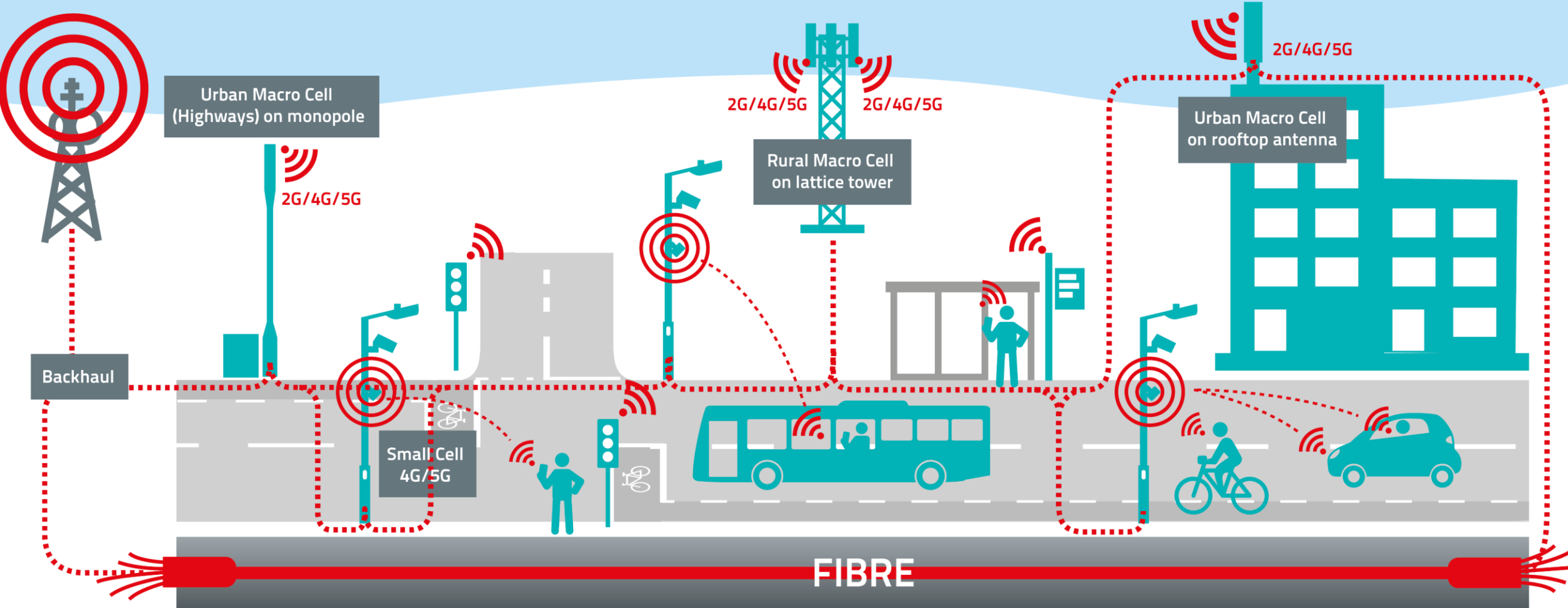
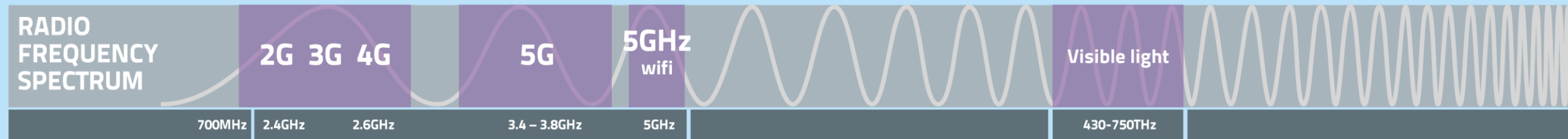
Contributing to community wealth building and health & wellbeing with better access to public services, education, training and digital inclusion



Supporting climate change mitigation/adaptation and moving towards Net Zero



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.



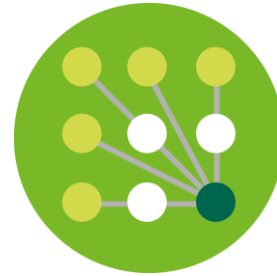
Environment and sustainability

- Deployment of smart technologies
- Transition to a net zero economy
- Sensors to monitor temperature change and flood water levels
- Electric vehicle charging and data exchange for renewables



Health and care

- Delivery of connected care in homes & neighbourhoods
- Using sensors to monitor falls, people's wellbeing or health metrics
- Enabling practitioners to access patient records and systems remotely
- Lack of connectivity affected Addenbrooke's Hospital delivery of online care during the Covid 19 pandemic



Places and communities

- Supporting access and inclusion to close the digital divide
- Improving mobile and IoT connectivity
- Using open data from sensors to inform in place engagement
- Free public wi-fi and better connectivity for social housing
- Signposting opportunities for digital skills/ devices



Children and young people

- Helping young people access education and engage in on-line support
- Enabling officers working in the field to access systems and records



Transport

- More flexible working means less travel with more online commerce.
- Sustainable public transport supported by smart technology
- Monitoring traffic and road conditions, controlling traffic lights,
- Real-time passenger information and smart motorway signage
- Data for smart parking and AI-controlled road junctions



Update and expand existing policy to:

- Make best use of council assets to support digital infrastructure
- Deliver digital connectivity for businesses, communities and services
- Underpin key corporate outcomes, inc. transport and climate change
- Support economic growth and address the digital divide



Highlight Connecting Cambridgeshire's proactive role by:

- Engaging with Council services re. benefits of digital connectivity
- Liaising with mobile network operators and planning teams
- Raising awareness of digital connectivity for all Council committees



What's Next!

- Advise on optimum process for revision of Assets for Telecoms Policy
- Support wider consultation with Council services
- Add 'significant implications' of digital connectivity to committee reports