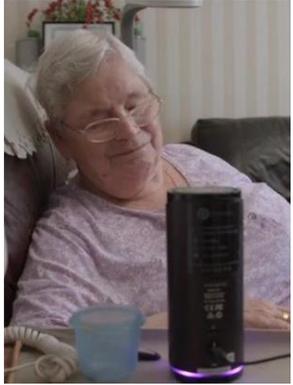




Liverpool 5G Create – Connecting Health and Social Care



Why the Liverpool 5G Project? What problems are we trying to address?



- There are many **barriers to the adoption** of technology in health and care services. **Access to affordable, reliable connectivity is a key barrier.**
- Digital programmes have increased the quality and responsiveness of services but have not generated significant cash savings.
- Why? Increased use of remote tech leads to **increased data charges** meaning a larger proportion of H&SC budgets are spent on connectivity – we have no control over pricing.
- The current pandemic has led to an increase in remote services but has also highlighted the impact of **Digital Poverty on Health Inequalities.**
- By 2025, **analogue telephone services will be switched off** as the UK's telecoms infrastructure is upgraded to digital connectivity. Major implications for the 1.7 million people who rely on telecare in the UK.





Liverpool 5G – The journey to date

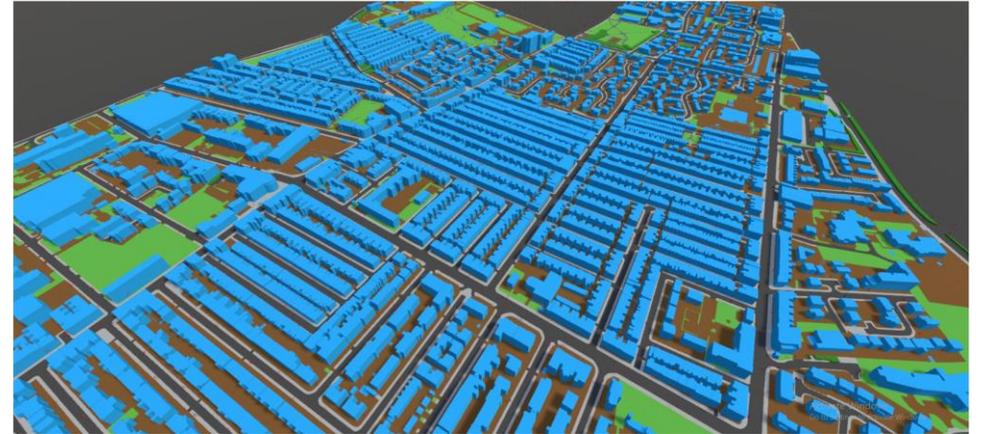
Pre 2018:

- Established eHealth Cluster, engagement with care homes, domiciliary care providers, supporting living, Local Authority commissioners
- Innovation Network established within Local Authority
- City Council accessed EU funding to enable Digitisation of domiciliary care services



Liverpool 5G Testbed (April 2018 to November 2019):

- Challenge:
“Can 5G connectivity be sufficiently cheap and effective in health and social care provision that it will be cost effective to give free access to those unable to afford either phone or broadband access?”
- Deployed private network - largest mmWave mesh network in Europe, incorporating LoRaWAN and Wi-Fi
- 8 different Use Cases deployed across Health & Social Care
- Demonstrated improved health outcomes for service users
- Estimated potential cost savings to services of £248k per 100 users per year
- 70% of the products/services increased TRL; > £1.1m R&D spend
- Improved collaborative working : > 60 collaborations and partnerships

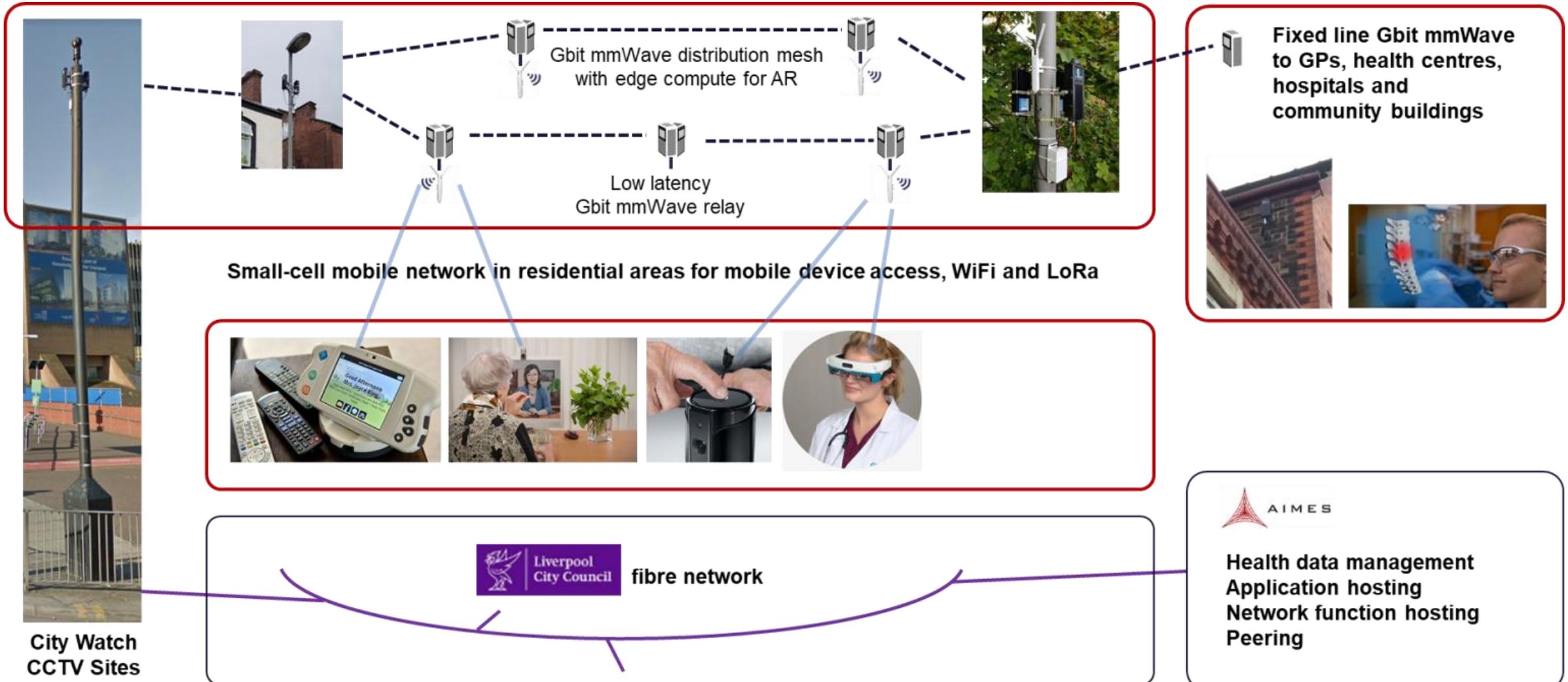


Liverpool 5G Create (September 2020 to March 2022):

- Creating an independent 5G stand alone network
- Extending coverage, incorporating cellular capability, 9 new Use Cases across Health & Social Care plus home connectivity for school pupils
- Producing an independent business model and blueprint for other municipalities to implement private networks



Technical Solution





Focus on Adoption

- 5G creates many **opportunities** and **potential** for solving current challenges in Health and Social Care
- Adoption of technology based solutions in Health and Social Care is the major challenge
- The Adoption Readiness Level (ARL) complements the Technology Readiness Level (TRL).
- A free self-assessment tool designed to help organisations understand the barriers they may encounter in the uptake of their product and identify areas for improvement
- www.ehealthcluster.org.uk

ARL - Five Dimensions:

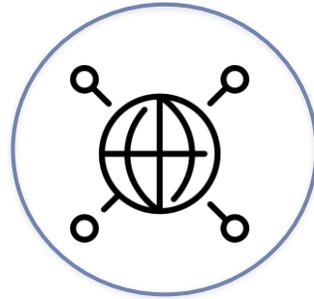
- Market - Is the market ready for your innovation?
- Human - Are the people involved open to your innovation?
- Systems / Integration - How does your innovation interface to existing systems?
- Finance & Procurement - Do contracting mechanisms and/or budgets for your innovation exist?
- Motivation - Why should your innovation be successful?



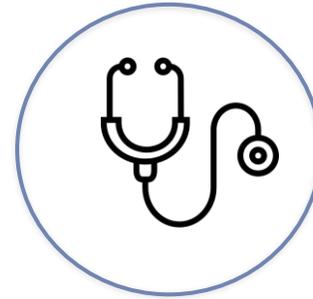
Key challenges we are addressing:



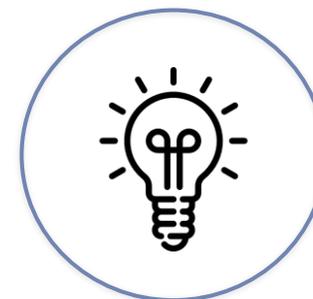
Many households do not have access to affordable, reliable connectivity



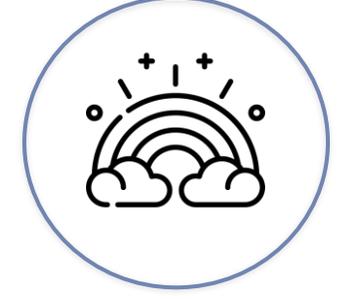
The digital divide has increased exponentially during COVID-19. The impact of Digital Poverty is widely recognised



The city region faces vast, complex health challenges, increasing health inequalities



Slow adoption of tech solutions in community and social care services



Increasing NHS and LA spend on connectivity within services

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Liverpool 5G Create
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