GM 5G Innovation Region Programme

Smart Decarbonisation Network

Programme Overview for UKTIN Clusters Forum Cal



Departm

22nd May 2024

Department for Science, Innovation, & Technology

What is it



Greater Manchester 5G Innovation Regions Smart Decarbonisation Network (GM 5GIR SDN) focuses on tackling the drivers of climate breakdown at a city region level, accelerating decarbonisation, improving quality of life, and growing the Green Technologies and Services sector.

The Project will:

- 5G enable hundreds of existing air source heat pumps across social housing.
- Accelerate the creation of *Smart Energy* networks and bring forward benefits for residents, industry and public services, aligning with the GM Local Area Energy Plan.
- Pilot a 5G enabled *Digital Road* networks environment aiming to reduce congestion, carbon emissions through prioritising traffic flow, and supporting active travel modes and public transport movement.

Central to this is 5G advanced wireless technology wrapped within *an ecosystem delivered by industry and telecoms partners*.

The rationale



- Focus on supporting residents, communities and businesses
- Prove concepts and support benefits of next generation wireless
- Build on existing 5G foundations (5G Create Smart Corridor)
- Leverage existing GM assets (LFFN, GM One Network)
- Alignment to GMS and Blueprint priorities

(Creating connected, inclusive, sustainable places)

• Develop a scalable set of Use Cases and Benefits



Where: GM spatial focus









Hindley – Bus Priority and Congestion



Chorlton – Active Travel & Drone







Use Case Development and Benefits Realisation



Sustainability 💦 🔪

Carbon Reduction

Leverage Asset Integration

Greener Economy

GREATER

Partner Collaboration



Department for Science, Innovation, & Technology















Hartree Centre















Ambitious Programme



Activity	Due Date	Status
Partner Collaboration Agreements shared	28 Feb 24	Complete
Surveys and Asset Identification	15 Mar 24	Complete
Resident Engagement plan draft	29 Mar 24	Complete
Wireless Solution Architecture Agreed	05 Apr 24	Complete
Confirm Lab Tests for PoC 5G advanced wireless	19 Apr 24	Complete
Small Cell locations agreed and OAG's shared with LA's	26 Apr 24	Complete
Field Trials of advanced wireless agreed to deploy	01 Jul 24	Due
ASHP and Smart Sensors deployment commences	01 Aug 24	
Small Cell Deployment commences	01 Sept 24	
Field testing and commissioning commences	01 Nov 24	



Thank you and Questions ?

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