



SUNDERLAND
our smart city



**A SUPER-CONNECTED
CITY WHERE PEOPLE
AND BUSINESSES THRIVE**



Sunderland
City Council

Sunderland, Our Smart City - Background

- City Plan – By 2030 Sunderland will be an connected, international city with opportunities for all
- Next generation fibre and mobile infrastructure underpins the connectivity required so we can deliver a whole range of benefits for Sunderland residents, businesses and visitors
- A city wide partnership involving the Health, the Education and the Business Sectors
- The partnership is already starting to deliver significant improvements to health, care, education and enterprise
- Importantly this is about delivering social and economic good – leaving no-one and nowhere behind



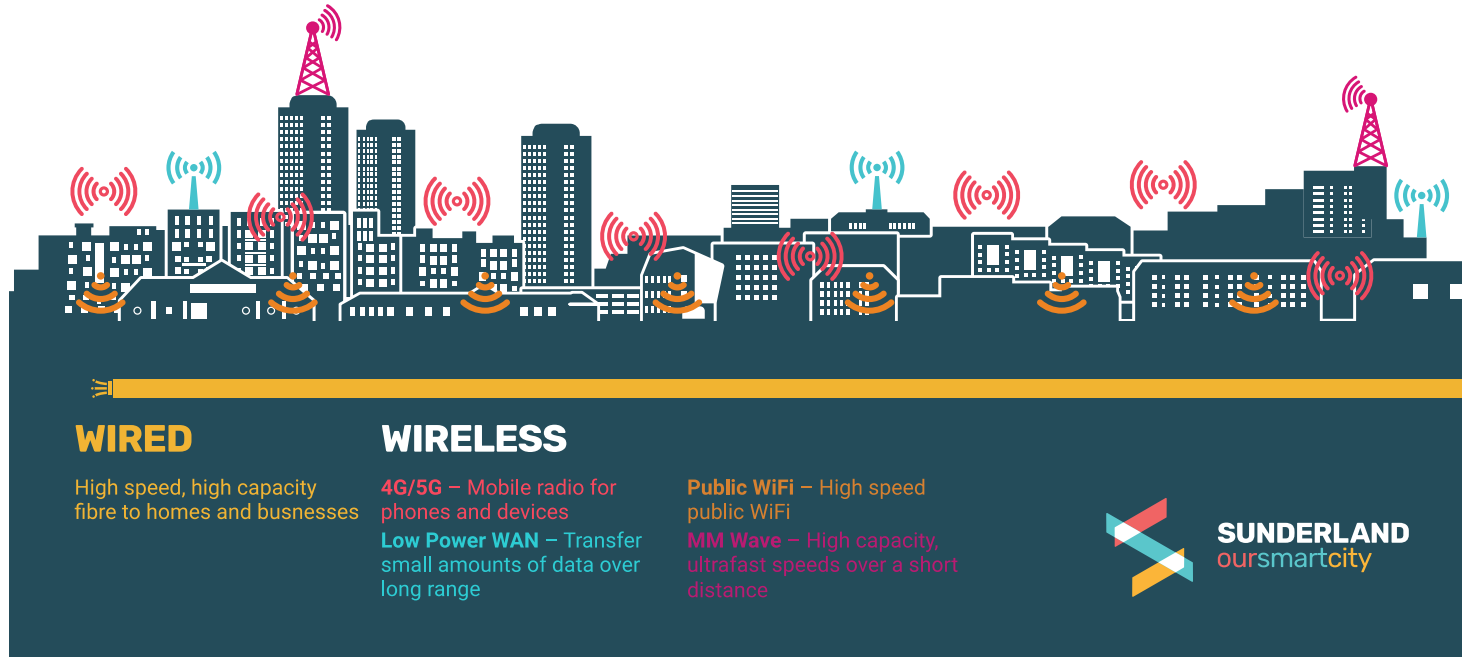
**NO ONE AND
NOWHERE LEFT
BEHIND**

Smart City Developments - Connectivity

- 5G Ready Communications Ring launched Dec 2019 – delivering free, ultrafast wi-fi to a number of locations; over 3,000 connections every month
- Successful 5G Create bid to DCMS in July 2020 attracted over £4.8m to Sunderland; looking at 5G's ability to boost productivity at the Nissan plant and supply chain. First 5G private 5G network now live in the city.
- Successful MHCLG, Getting Building Fund in Aug 2020 attracted £4.5m to Sunderland to implement 5G in the City Centre and Riverside alongside a city-wide LPWAN to support the Internet of Things
- Award of a £2.9m contract to CityFibre in November 2020 as an anchor tenant for the Council's network
- CityFibre to invest over 62m in the city providing gigabit-capable full fibre connectivity to over 90% of premises – significant social value for the city

DIFFERENT LAYERS OF CONNECTIVITY

Providing ubiquitous connectivity, wired via fibre in the ground and wireless across the airwaves



Smart City Developments – Use Cases

Delivering a range of use cases to make a transformational difference to the lives of the people and businesses of Sunderland;

- Assistive Technologies – now deployed to over 2,400 homes across the city helping to keep people safe in their own homes, supported by an app that allows families, carers and social care professionals to monitor wellbeing
- Smart video sensor devices monitoring vehicle, cycle and pedestrian flows for key routes in the city enabling real time interventions and informing future initiatives and urban planning
- Smart sensors in waste bins are enabling more effective cleansing routes
- Working with Digital Catapult to deliver two local challenges;
 - Transport – e-mobility hub
 - Smart Building Solutions – optimise energy efficiency/reduce waste



Smart City Developments - Opportunities

Search underway for a '5G Neutral Host Joint Venture Partner' - 20 year partnership to deliver next generation wireless connectivity across Sunderland

- Initial business case to deliver a city-wide IOT backbone and 5G in the City Centre and Riverside Sunderland by March 2022
- Smart District / Smart Campus – progressing opportunities
- Living Lab – showcasing how technology can be translated into everyday life / research opportunities that follow
- Education, Enterprise and Skills working group – driving forward significant opportunities
- Digital Careers in Sunderland – procurement underway
- Enterprise Support in Sunderland – aspiration of 500 new tech start-ups in next 5 years – procurement underway
- Digital Inclusion – ensuring we leave no one and nowhere behind



Smart City Developments – Data

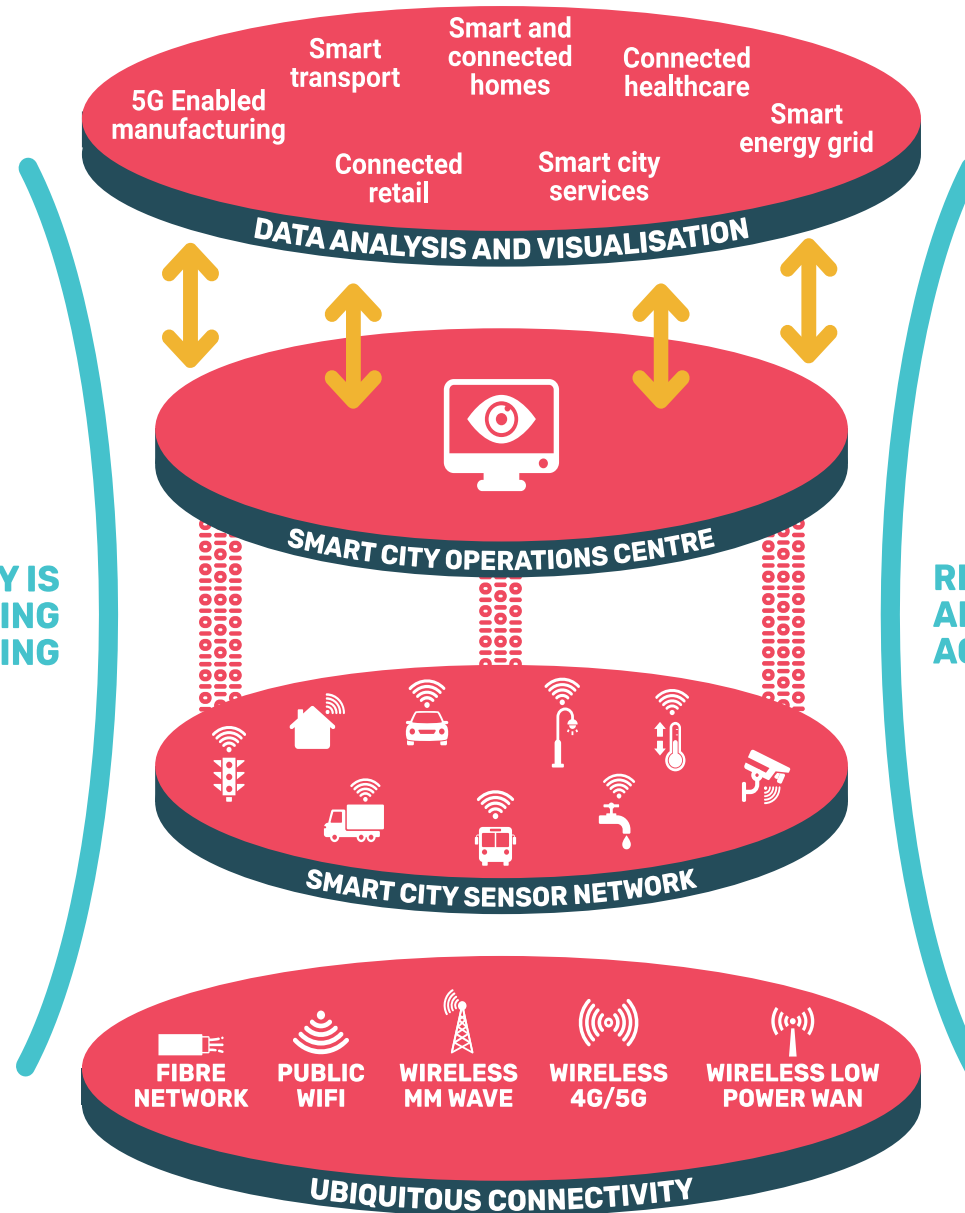
- Developing a Digital Architecture for Sunderland – principles, standards and a digital architecture to guide smart city opportunities
- Developing a Smart City Technology Platform – ensuring the Smart City Platform is sustainable and data is accessible
- Open Data Portal – evidencing challenges and opportunities/new business ideas
- Culture House – science & digital meets creative arts – showing casing opportunities, advanced analytics suite; hub and spoke model

“How best to harness the opportunities afforded by next generation connectivity to support the collective and individual digital ambitions of city partners?”



SUNDERLAND OUR SMART CITY MODEL

HOW THE CITY IS FUNCTIONING AND BREATHING



REAL TIME CONTROL AND ANALYTICS ACROSS THE CITY



SUNDERLAND
oursmartcity