

Fibre rollout

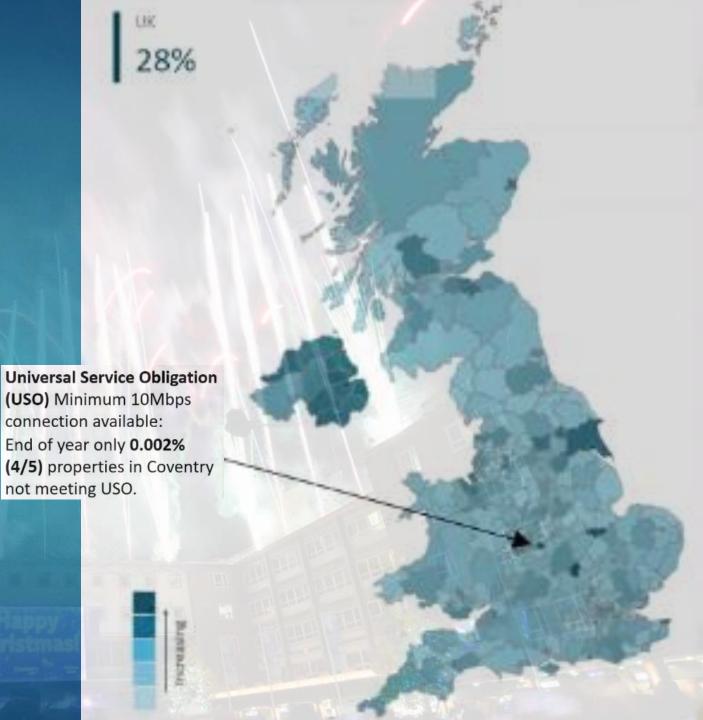
Full Fibre Nationally: Ranked 2nd out of

379 (up from 3rd in summer 2021)

laua_name -	Jan-22	All Matched Premises	Rank May 2021	% Change FF
KINGSTON UPON HULL, CITY OF	98.2	121618	1	0.1
COVENTRY	92.3	141510	2	4.8
MILTON KEYNES	89.2	116207	3	0.4
BELFAST	82.9	154319	4	3,9
PETERBOROUGH	82.3	87386	5	8.3
ARDS AND NORTH DOWN	81.5	68842	6	2.4
ANTRIM AND NEWTOWNABBEY	75.1	57216	7	2.7
MID AND EAST ANTRIM	74.5	57794	8	1.5
DERRY CITY AND STRABANE	73	58661	9	6.8
NEWRY, MOURNE AND DOWN	71.1	65270	10	8.4
WORTHING	70.9	49200	11	6.5
LISBURN AND CASTLEREAGH	70.8	56684	12	1.7

Full Fibre WMCA: Ranked 1st out of 7

laua_name	Jan-22	All Matched Premises	Rank Jan-22	% Change FF
Coventry	92.3	141510	2	4.8
Birmingham	39.9	440737	68	0.6
Solihull	38	92796	80	2.6
Walsall	12.2	111378	257	0.6
Sandwell	20.1	132996	188	3.2
Wolverhampton	15.6	111043	225	7.4
Dudley	5.2	139050	327	0

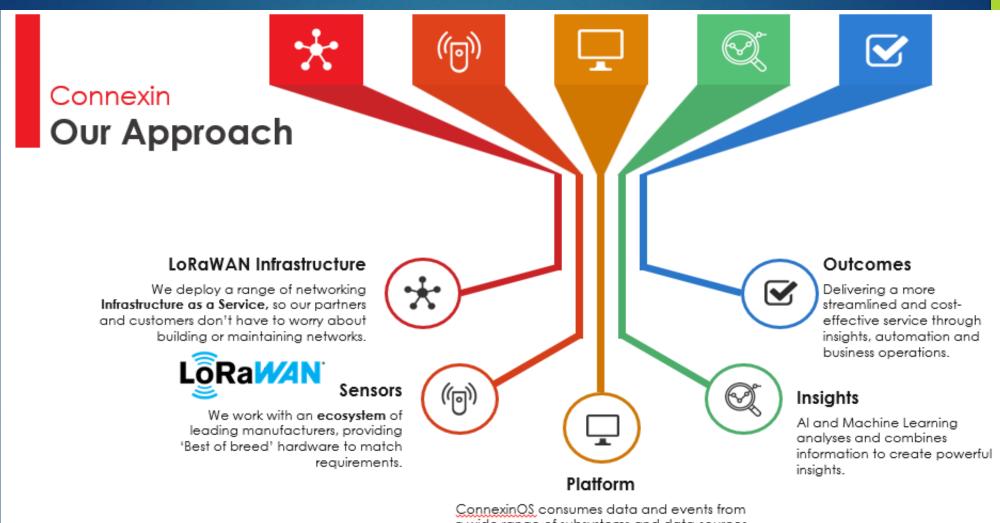


Mobile Network

- Small cells
- NTQ / developments
- ▶ Towers
- DoV (Deed of Variation)



LoRaWAN IOT



ConnexinOS consumes data and events from a wide range of subsystems and data-sources and securely manages and analyses heterogeneous data across domains.

Use cases

Some Examples of Environmental and Operational Applications



Electricity Consumption Monitoring

- Identify sources of over consumption
- Building a baseline of Carbon emissions



Smart Water Metering / Leak Detection

- Identify sources of leaks and over consumption
- Detecting irregular patterns to target sustainability targets
- Automated monitoring sources of leaks
- Increasing the longevity of buildings



Water Quality monitoring

- Automated monitoring of assets posing a risk
- Creating a digital audit of bacterial risk
- Specific application to monitor for legionella



Air Quality Monitoring

- Minimize exposure to pollutants and potential adverse health effects
- Temperature / Humidity monitoring



Health and Adult Social Care

- Assisted-Living (environment and personal monitoring)
- Reduces delays with discharges and blocking of community beds



Asset Tracking

Create view of valuable assets



- Optimise parking & user experience
- Increased safety and reducing carbon emissions



SMART Transport System

- · Real-time data
- · Service planning, new routes etc



Fire Monitoring

- Connected Smoke Alarms
- Fire Door Monitoring



Automated testing of emergency lighting



Security and Access Control

- Automated entry/exit monitoring
- Improved building security



Occupancy/Footfall Monitoring

- Optimised space utilisation
- Predicative cleaning schedules



Radon/Methane monitoring

- Low-cost always on monitors of levels of dangerous gases
- Geo-visualisation to spot trends

Some Potential Outcomes

Compliance

- Generic need for all organisations to meet regulatory standards
- Automate repetitive manual tasks for increased reliability, effectiveness and audit compliance

Sustainability Ambitions

- Measure and monitor real metrics (especially air quality) to understand challenge and show progress
- Consolidate views of different data sources to ...

Resource Management

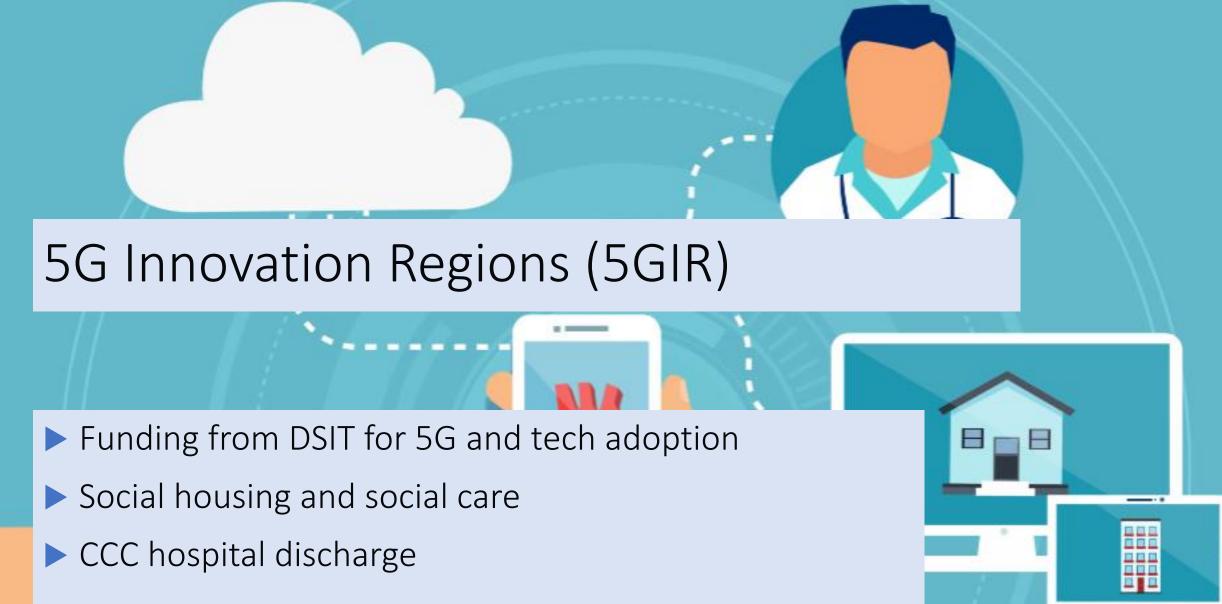
- Reducing unnecessary vehicle use to save costs and reduce emissions
- Realise energy savings through better targeting of services

Building management

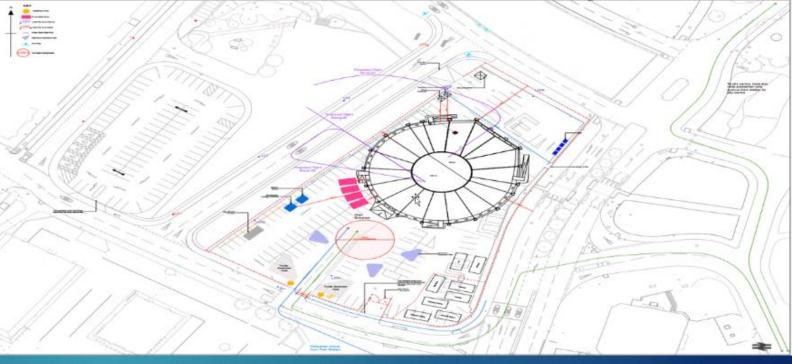
- Optimisation and management of energy, access and assets across estates
- Footfall management to improve building design and usage

Service Improvements

- Enhanced public transport propositions to increase uptake, reliability and access
 - · Intelligent Parking to save time



Urban-Air Port











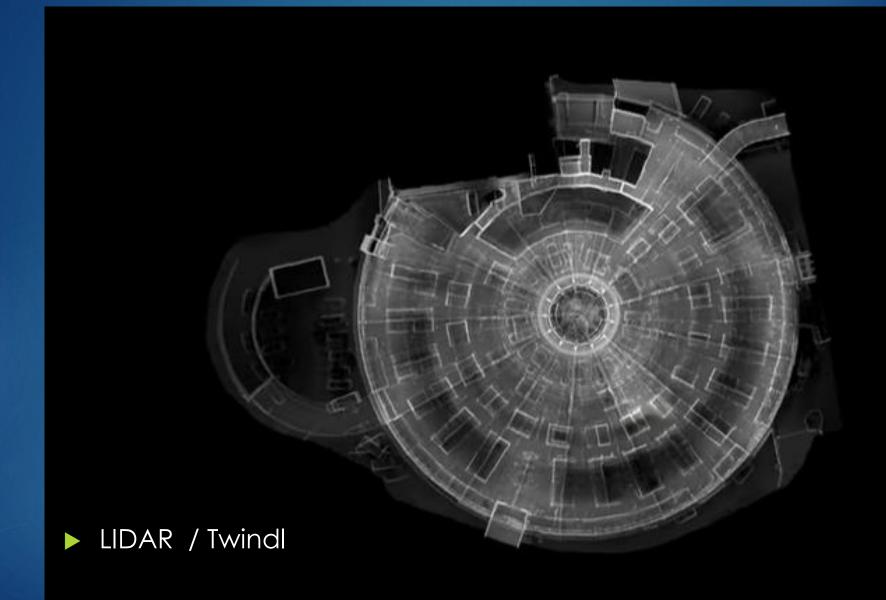








LIDAR



DSIT Secure connected places Beta

STRIDE Analysis

Spoofing

Tampering

Repudiation

Information disclosure

Denial of service

Elevation of privilege

CVLR (Coventry Very Light Railway)







#CovConnects

- ▶ Device Bank
- Connectivity
- Partnerships
- Second in country for DI



