

Importance of place based data in a smart city

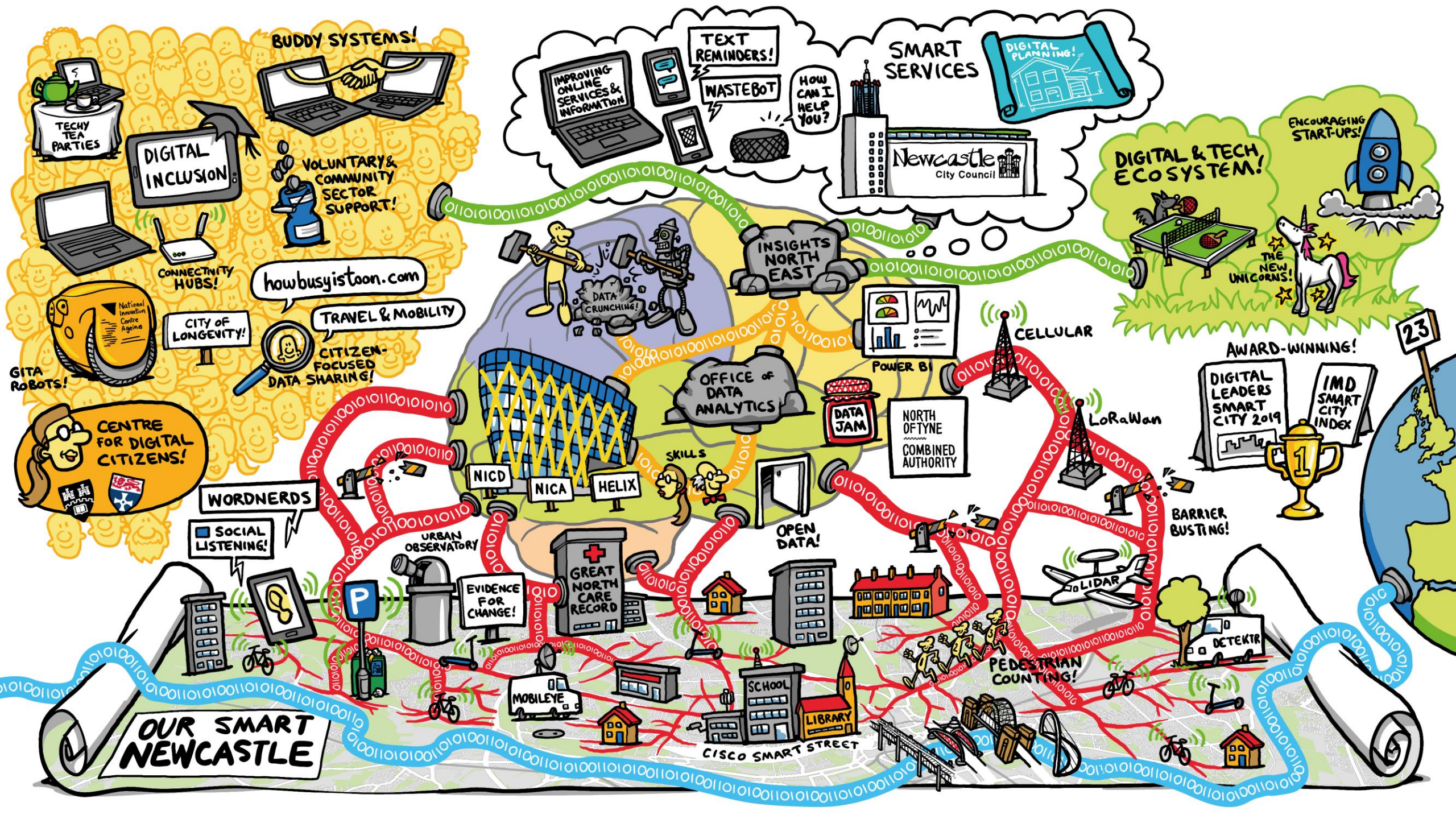
Jenny Nelson

Newcastle City Council

@jennynccdigital



let's talk
Newcastle

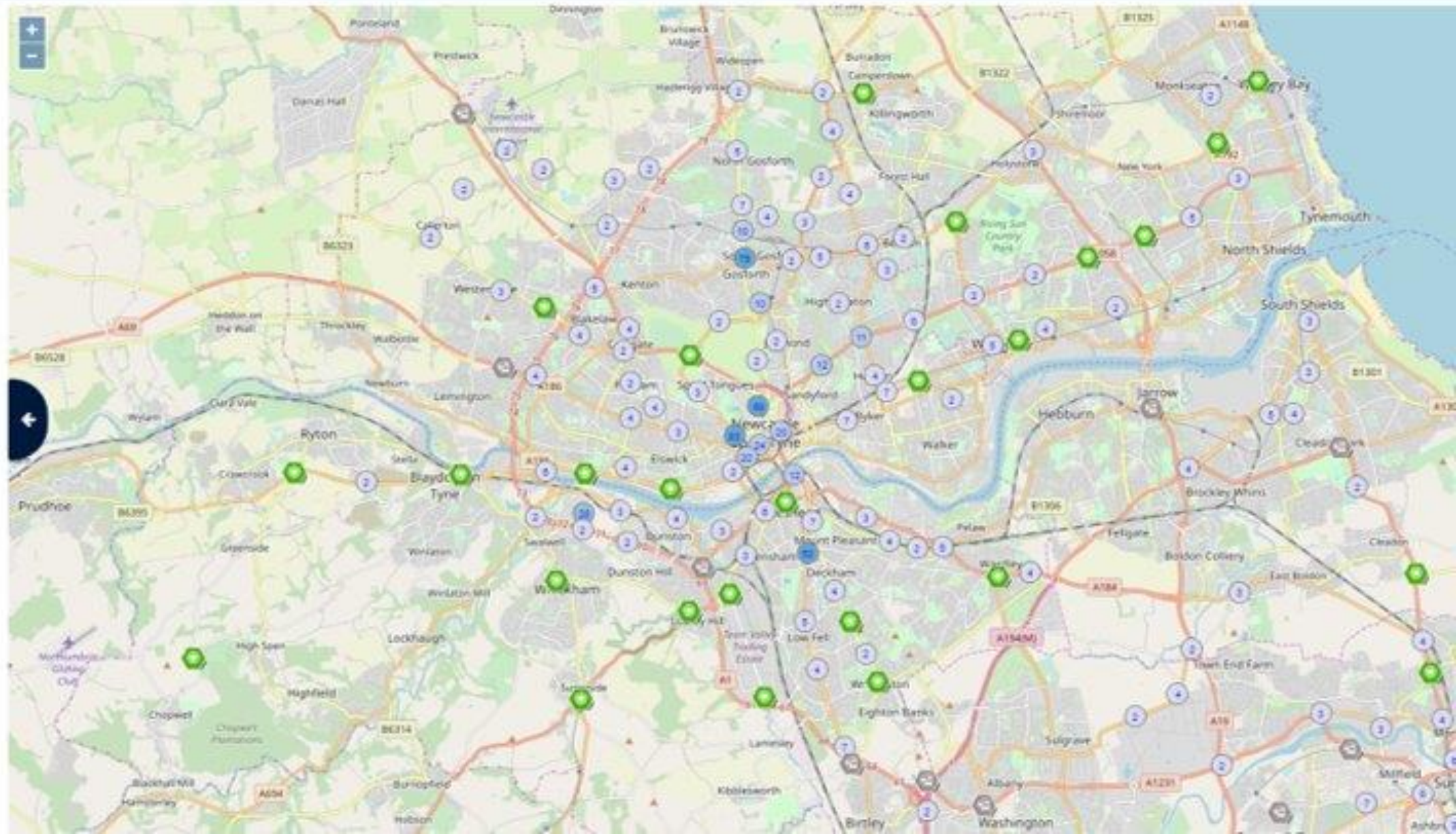


Sensor Clusters

- Cluster 2-9
- Cluster 10-24
- Cluster 25-49
- Cluster 50+

Sensors

- Vehicles
- Air Quality
- People
- Weather
- Traffic
- Bee Hive
- Electrical
- Water Quality
- Noise
- Soil





urban observatory



>**£4 million** pounds



11 billion city observations
10,000 every minute



4000 data streams across
30+ sensor platforms



Only open data **weather radar** in the UK



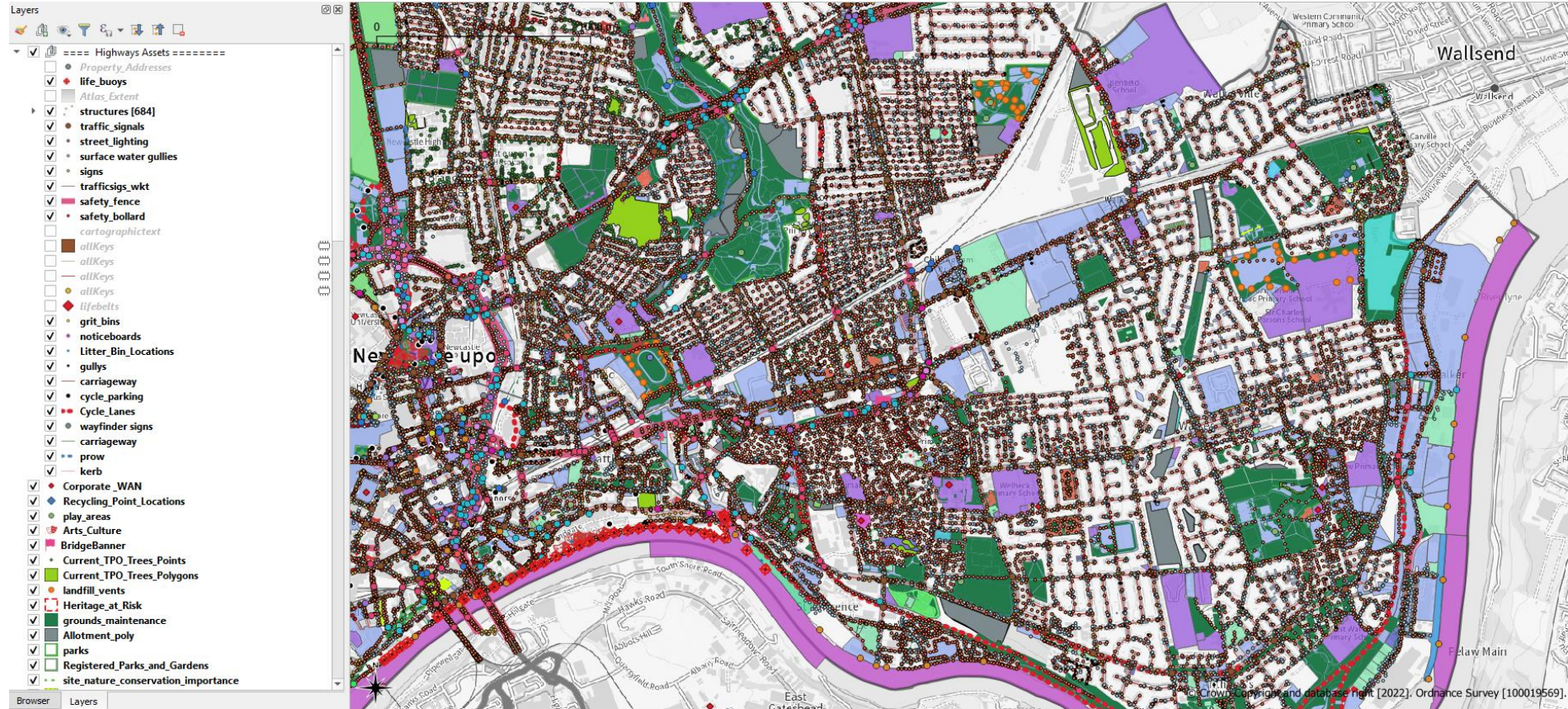
CCTV: **512** views, **500m+**
images, AI-based feature
counts



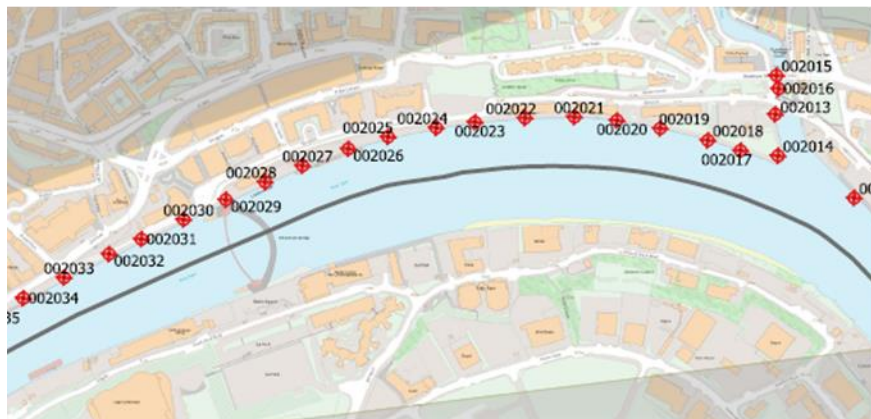
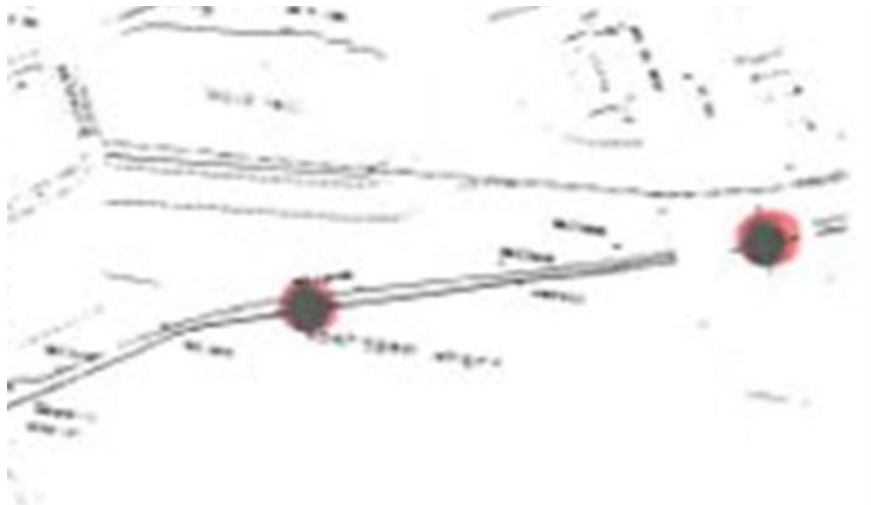
65+ different variables,
downloads and APIs



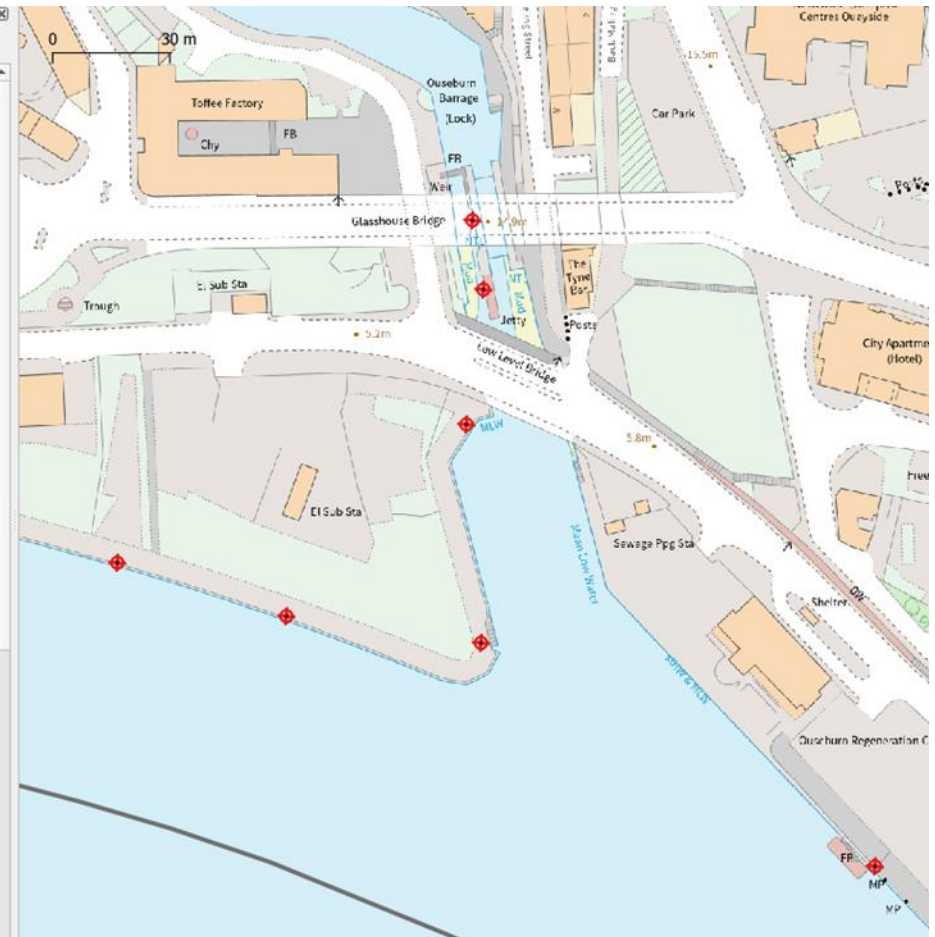
Local Authority



Local Authority



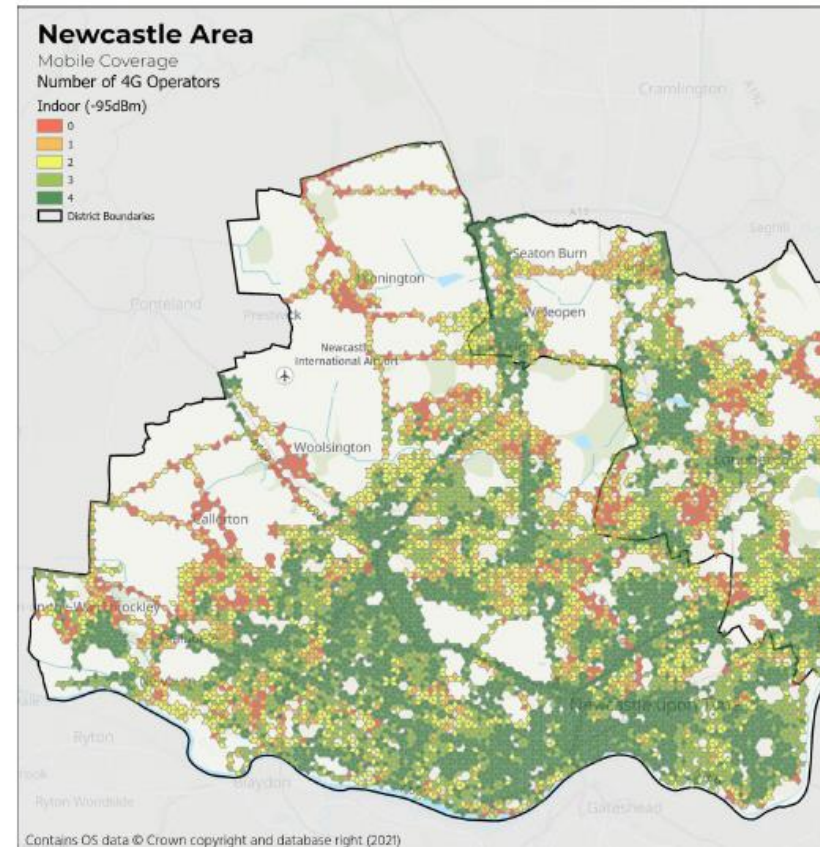
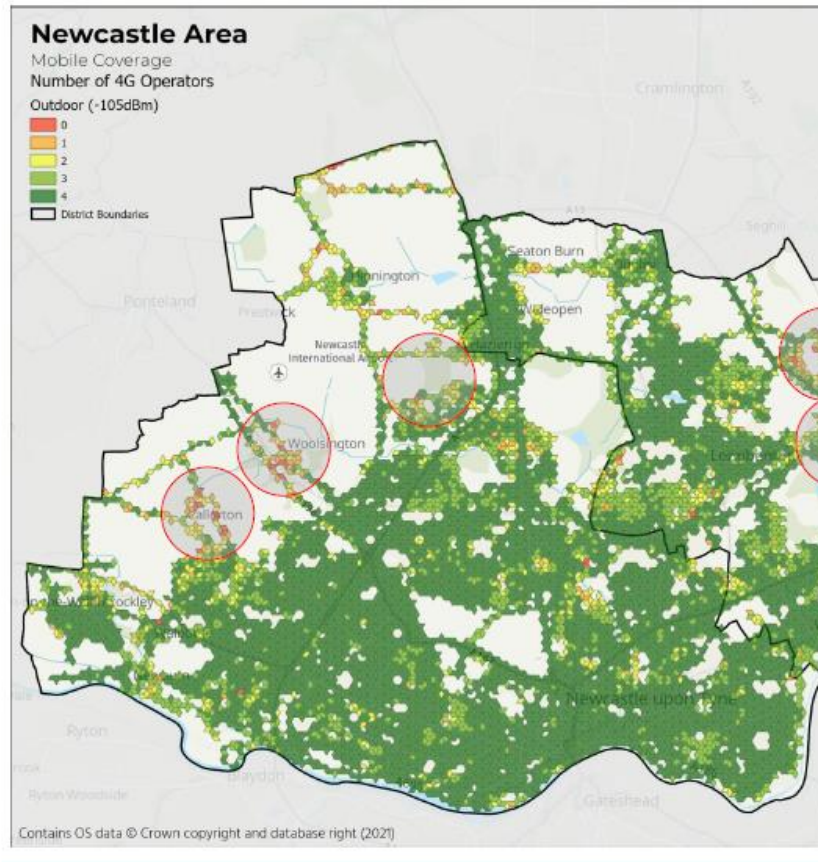
- Layers
- Highways Assets
 - Life Buoys
 - OS Background Layers V...
 - OS MasterMap_Topograp...
 - OS Background Layers V...
 - All OS Background Layers
 - structures [684]
 - traffic_signals
 - street_lighting
 - surface_water_gullies
 - signs
 - trafficsigs_wkt
 - safety_fence
 - safety_bollard
 - cartographictext
 - allKeys
 - allKeys
 - allKeys
 - allKeys
 - lifebelts
 - grit_bins
 - noticeboards
 - Litter_Bin_Locations
 - gullies
 - carriageway
 - cycle_parking
 - Cycle_Lanes
 - wayfinder_signs
 - carriageway
 - praw
 - kerb
 - Corporate_WAN
 - Recycling_Point_Locations
 - play_areas
 - Arts_Culture
 - BridgeBanner
 - Current_TPO_Trees_Points
 - Current_TPO_Trees_Polygons
 - landfill_vents
 - Heritage_at_Risk



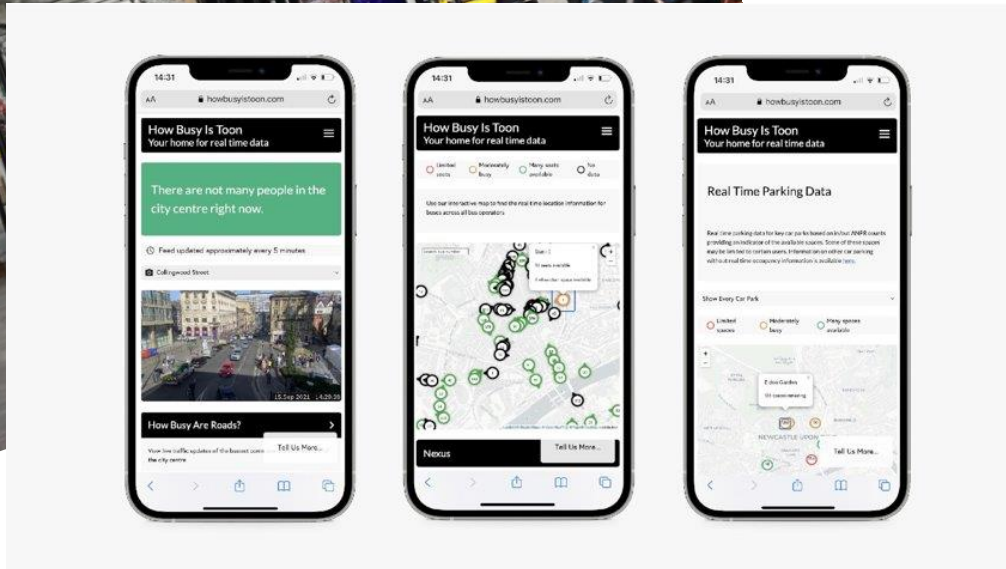
Inakulum



Farrpoint Mobile Coverage



Why? To improve experiences in Newcastle



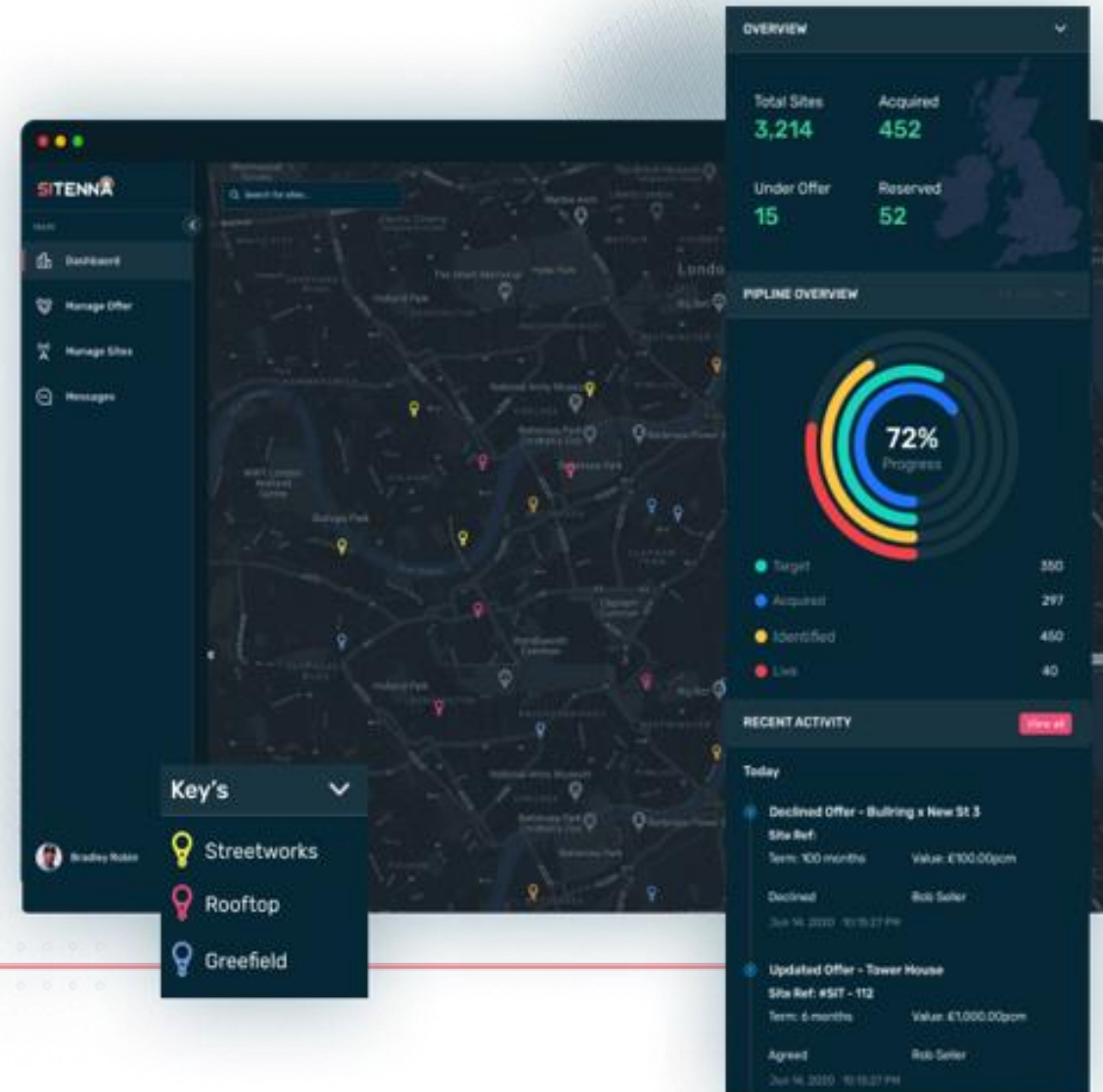
Why? To improve efficiency and service



- Single version of the truth – better decision making
- Improved property, asset and space management and maintenance
- Ensuring H&S
 - Reduced maintenance liabilities
 - Reduced duplication and inefficiency in processing
- Customer service
 - RIPA/BOPS
 - FOIs

Why? To support investment

- Digital Connectivity Infrastructure Accelerator (DCIA) pilot
- North of Tyne CA, Farrpoint, Sitenna, Connected Places
- Removing barriers to 5G deployment



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