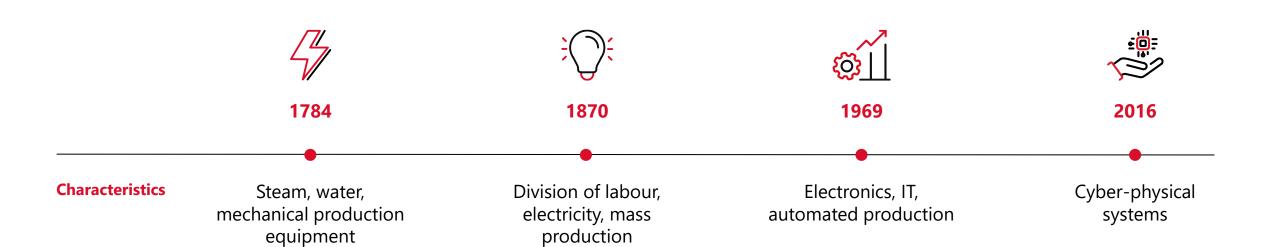


Technology and The Fourth Industrial Revolution



https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond/





From Smart Cities to Smart Places



Global Cities

- Barcelona
- Glasgow
- Singapore
- London





National Cities

- Ø Bristol
- Cardiff
- Aberdeen
- Cambridge
- Oxford
- Girona



Towns

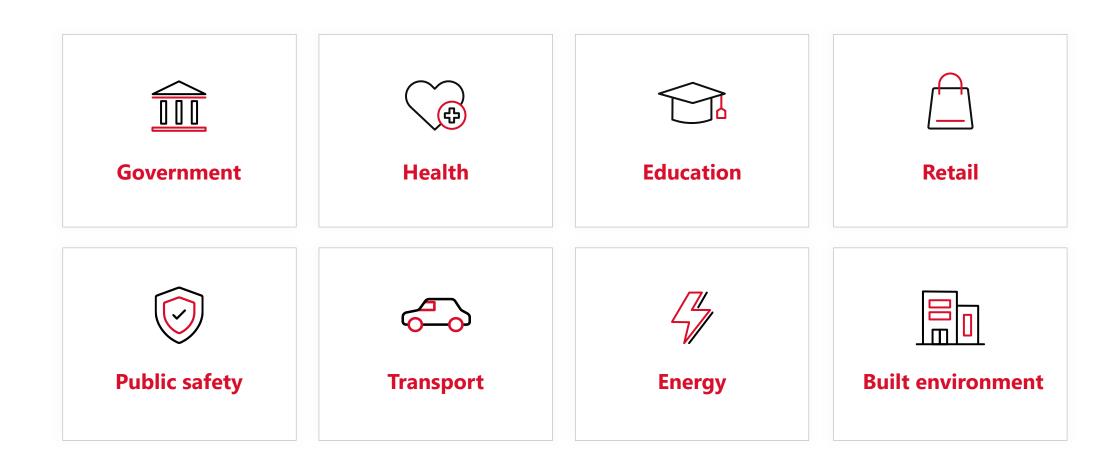
- Bournemouth
- Cardigan
- Herrenberg

Urban Scale

Affordability



Pillars of Smart Cities





City value creation challenge

- Remote Patient Monitoring
- Kerbside Management
- Smart Traffic Signals
- Smart Kiosks
- Digital Signage
- Body Cameras
- Flood Resilience
- EV Charging

- Air Quality
- Buildings
- Smart Water Meters
- Traffic Management
- Smart Streetlights
- Waste Collection & Management
- Security Integration
- Public Safety
- Smart Parking

Spot Solutions







New value bundles and outcomes

Citizen Engagement, City Reputation & **Attraction of New Business**

Operational Efficiency

- Predictive maintenance
- Reliability and resilience
- City worker productivity

Health & Wellness

- ✓ Mortality & morbidity decrease
- Citizen health and well-being
- Citizen engagement
- Pollution reduction

Sustainability

- Water usage efficiency
- Active energy efficiency
- ✓ Litter reduction
- Optimized waste management & recycling services
- Unrecycled waste reduction





Not just about the technology



Tech Enablers

- Connectivity Infrastructure
- Sensors & Gateways
- Internet of Things
- Big Data Analytics
- Artificial Intelligence



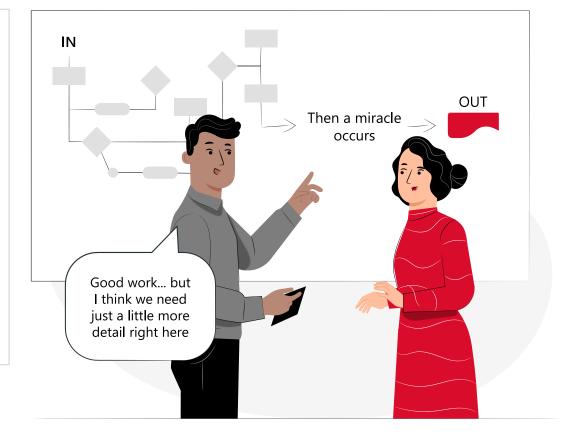
Objective

- A Prosperous South London Partnership (SLP)
- A Resilient SLP
- A More Equal SLP
- A Healthier SLP
- Encouraging Cohesive Communities across the SLP



External Drivers

- COVID-19
- Climate Change
- Ageing Population
- Increasing Social Inequality



SLP Programme







Granted an award of £4 million to run IoT trials over 3.5 years across the 5 council boundaries, to "pilot and research" ways to generate economic growth, support local businesses and help people live better, healthier lives...

The money originates from the retention of business rates, with the City of London acting as the holder of the budget on behalf of London Councils.

SLP's mission:

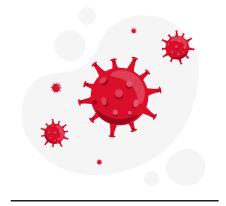
"Bringing together technology and places that address challenges in our communities."

Goals for the Programme

The Memorandum of Understanding states that the projects must be resident focused and support one of the following objectives:



Promoting economic growth within the SLP **Boroughs**



Supporting SLP's response to Covid-19 and Covid-19 recovery



Supporting SLP's response to the **Climate Emergency**

What are the Principles of SLP's Programme?



Citizen Control

By default, we will not store personal data



Build Public Trust

By default, we will work in the open



Secure & **Private**

We will design in security and privacy from the beginning



Sharing Information

By default, we will share data



Data Ownership

We will only engage in solutions where the data captured is publicly owned



Partner Selection

We will only work with partners who will sign up to these principles

www.innovateproject.org/transparency-principles/



This is a Data project not a Technology one

Start with a problem, not a technology



Money was allocated on the basis of use case submissions from the boroughs

Each use case must:

- Have a clear objective that the project will either meet or contribute to
- Have specific questions that the data from the project will answer
- Comply with the principles of the project
- Have internal champions from the services that will benefit from the data

The Outcomes

Numerous positive interventions







Four lives saved

Ambulance staff who attended one scene credited the quick response to the detection of lack of movement with saving the resident's life – the first since the initial sensor implementation.

Tackling air pollution

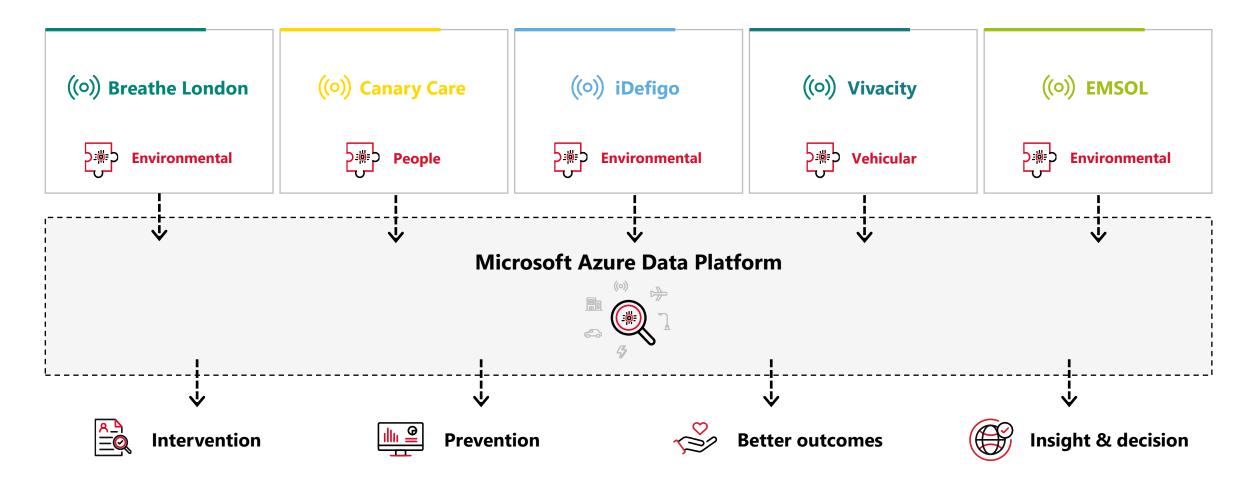
Using three different data sources, air quality can be cross referenced with vehicle traffic levels and MET Office weather conditions.

Flooding prevention

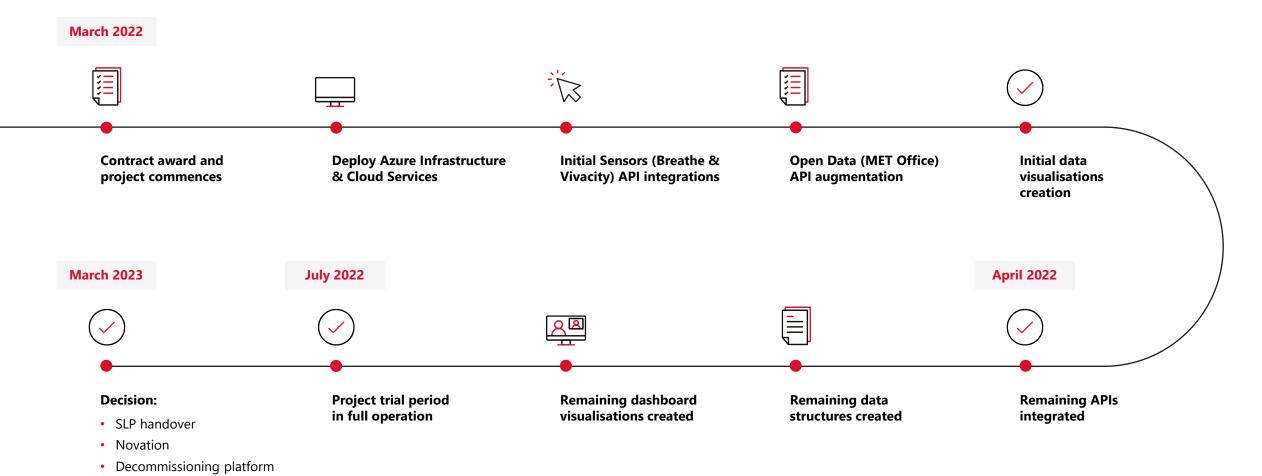
Early warning identification and prediction of flooding from rain and surface water levels.



Delivering SLP's Platform



SLP Project Delivery Timeline





Air Quality & Traffic Insight





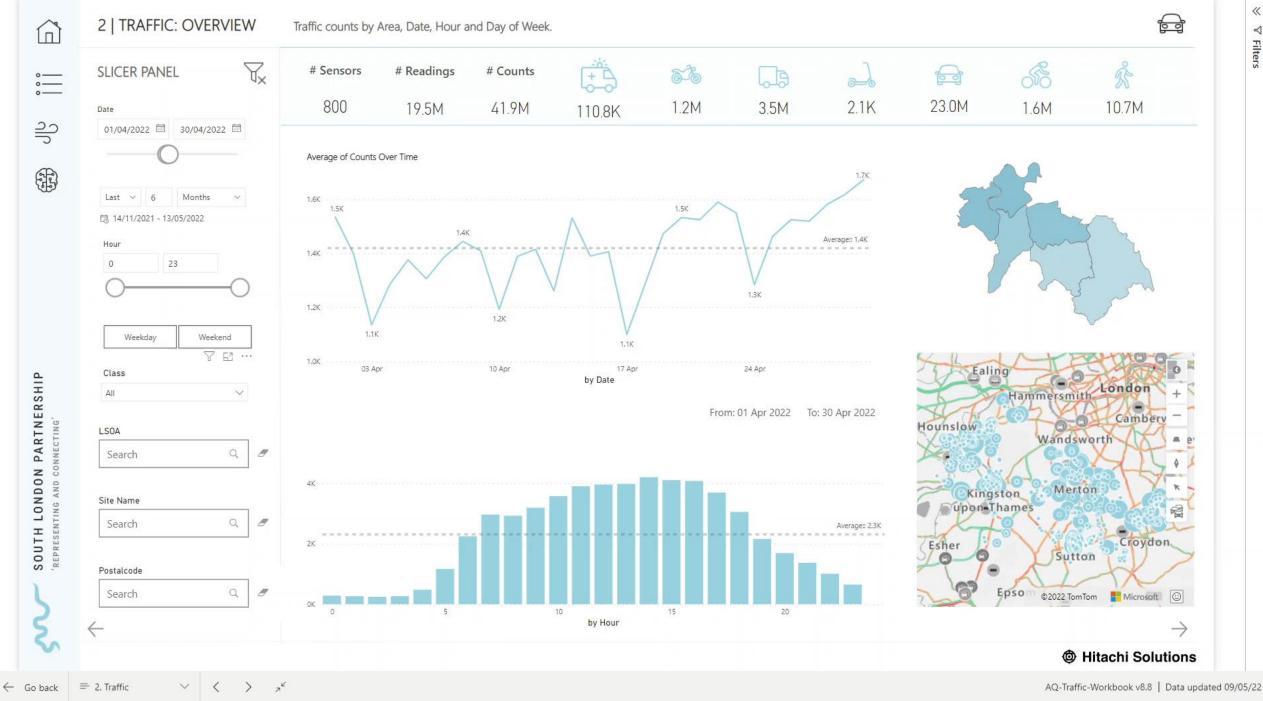




 Hitachi Solutions

Cyclists - Richmond Insight





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+ 112%



Local Digital Declaration



We will go even further to **redesign our services** around the needs of the people using them. This means continuing to prioritise citizen and user needs above professional, organisational and **technological silos**.

We will design **safe**, **secure** and **useful** ways **of sharing information** to build trust among our partners and citizens, to better support the most vulnerable members of our communities, and to **target our resources more effectively.**

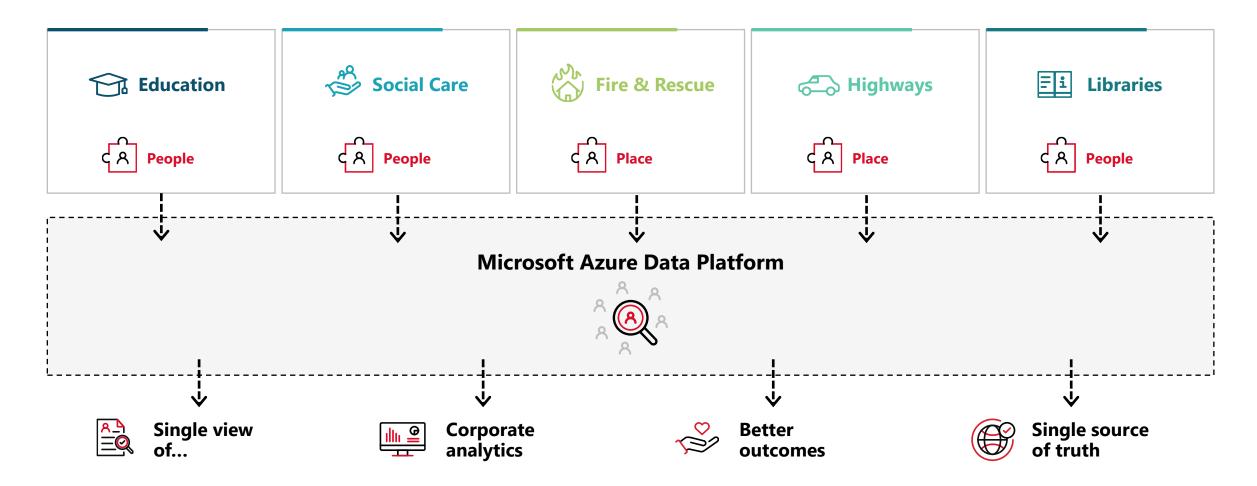
We will **demonstrate digital leadership**, creating the conditions for **genuine organisational transformation** to happen, and **challenging all those we work with** to embrace this Local Digital Declaration.

We will 'fix our plumbing' to break our dependence on inflexible and expensive technology that doesn't join up effectively. This means insisting on modular building blocks for the IT we rely on, and open standards to give a common structure to the data we create.

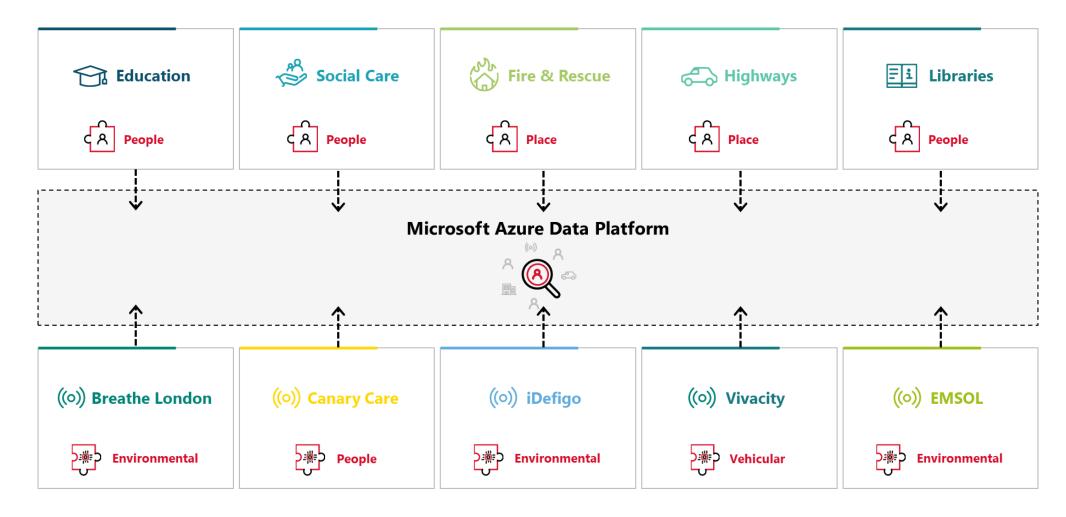
https://localdigital.gov.uk/declaration



Multipurpose Data "Platforms"



Multipurpose "Platforms"



Multipurpose "Platforms"

