

# Collaboration









































### Sustainable solutions

### City as a Platform

Data
Visualisation & Modelling
Analysis
Platform
Standards & Ethics

Sensors Air Quality Mobility sensors

Connectivity
IoT Connectivity

Projects that contribute to improving the management of the city through controlled sharing of data and improving collaboration.

### **Intelligent Mobility**

First/Last Mile
Demand Responsive Transport
Autonomous Vehicles

Network Management Kerbside Management Local/Strategic Network management

Customer Experience
Behaviour change
Mobility as a Service
Ticketing and Payments

Investigating ways that emerging technology can support the city to reduce congestion and improve mobility for residents and visitors.

### **Enhancing Communities**

New Communities
Planning process
Monitor & Measure
Smart Communities

Existing Communities
Smart Market Towns
Connectivity
Delivery of services
Engagement

Engaging with communities to understand local challenges and evaluate how data and technology can offer solutions and enhance the community.



### Cambridge City Council declares climate emergency

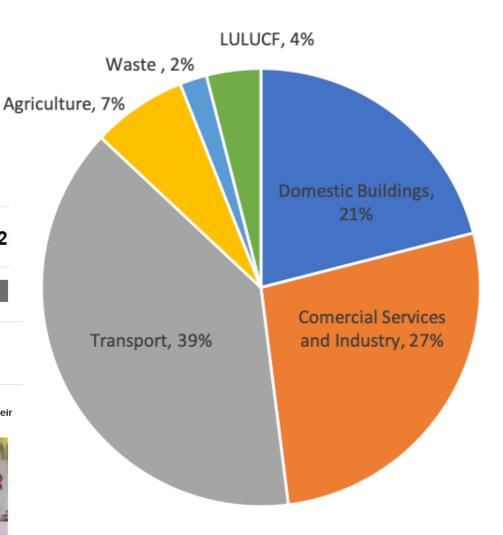
# **Carbon Emissions**



6 December 2018 by Michael Donnelly

Two Cambridgeshire councils have committed to cutting their local carbon emissions to zero by 2050 through their future joint local plan.





# Challenges and



POOR STAFF RECRUITMENT





TRANSPORT





BETTER QUALITY OF LIFE

smart

AND DECREASED STAFF RETENTION





13x



33,500 Build another

RESULT



MORE **AFFORDABLE** HOUSING **OPTIONS** 





NO ACTION



65,000



1:4 out of their cars





LESS STRESS. BETTER HEALTH AND STRONGER **ECONOMY** 

INFRASTRUCTURE UNABLE TO SUPPORT GROWTH



NO ACTION



**ZERO** 



**3X** 





CLEAN ENERGY, **CLEANER AIR** AND A MORE SUSTAINABLE **FUTURE** 

FOSSIL FUEL RELIANCE CONTINUES



NO ACTION



106



REDUCE Decarbonise the ransport system

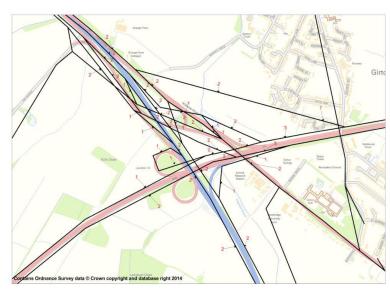


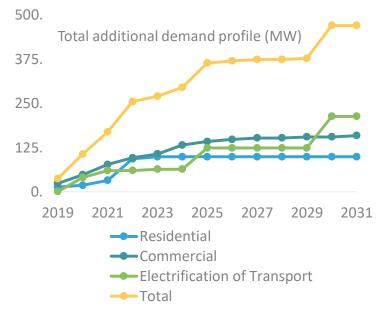


**FEWER DEATHS** AND LESS ILL HEALTH

LONG COMMUTES AND POOR AIR QUALITY IMPACT ON HEALTH AND WELL BEING

# Decision making tools – models





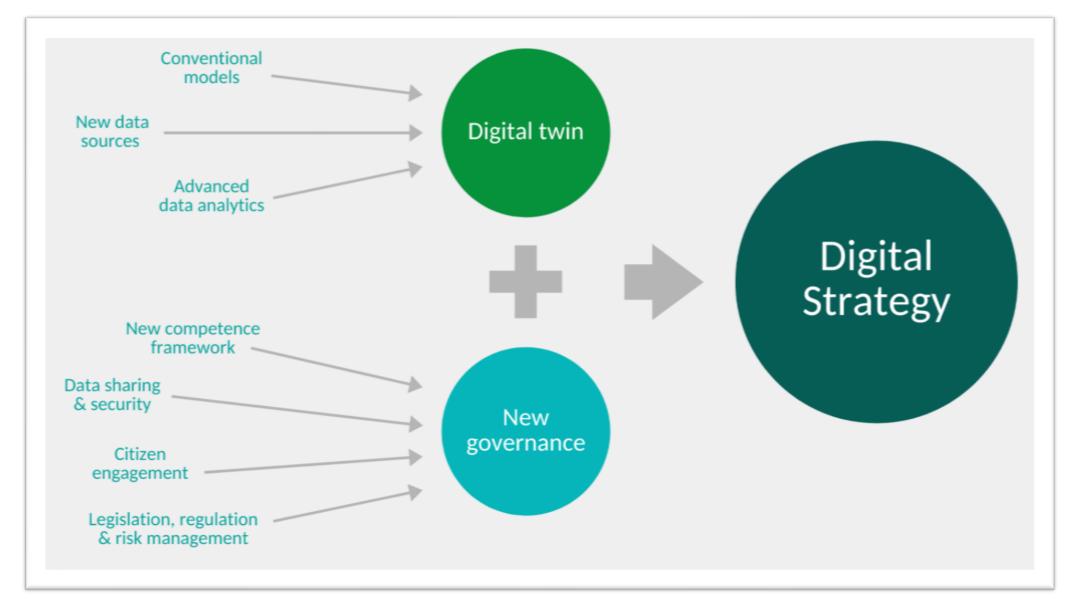


Transport

Energy

Air Quality

# **Digital Twin**

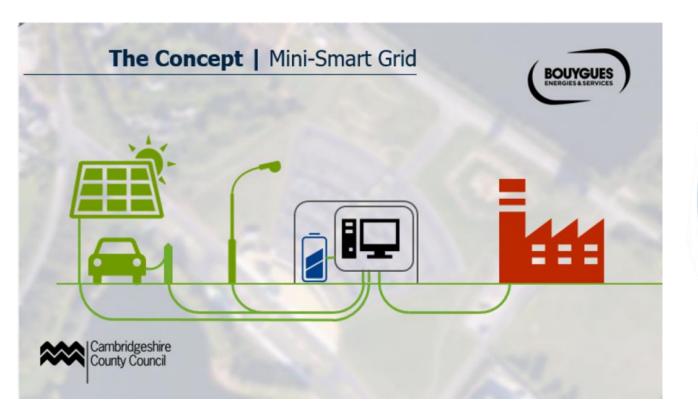


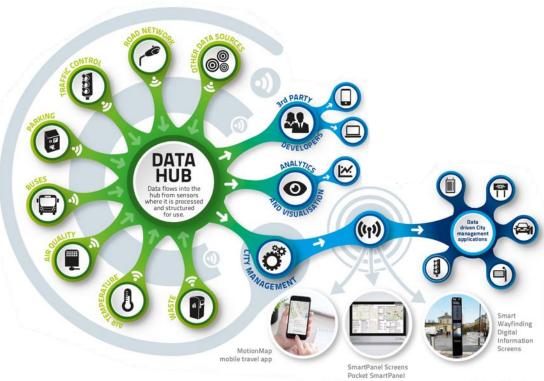


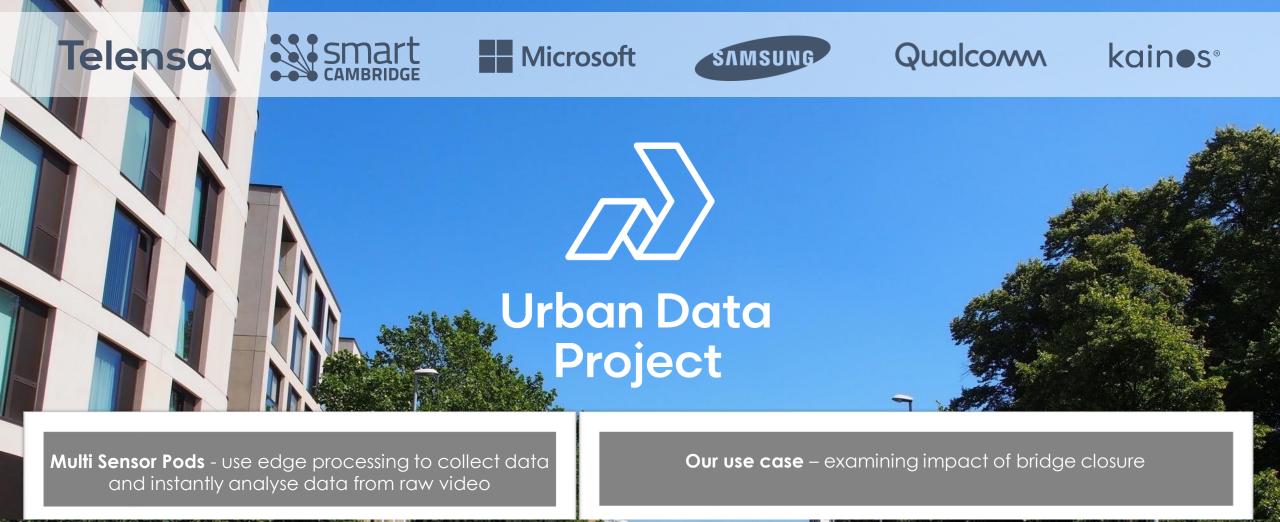
# Monitoring

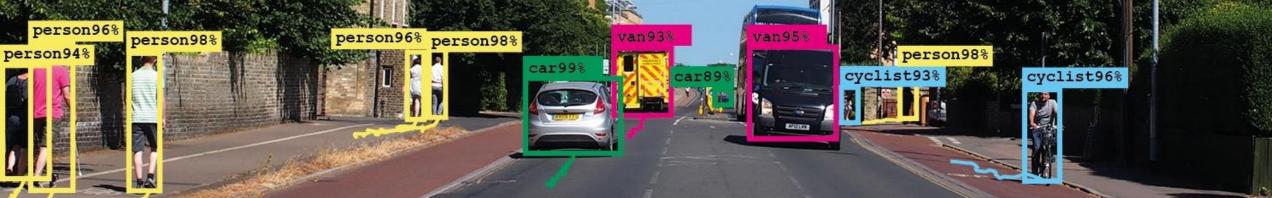


# Delivery











Part 2: Beyond Cambridge

Bill Wilson, Technical Director for IOT and Smart Cities

# We're Kainos

We overcome big challenges for clients across the public sector, using the best in talent and technology.













**Devolved** 

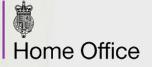






**National** 









Supranational

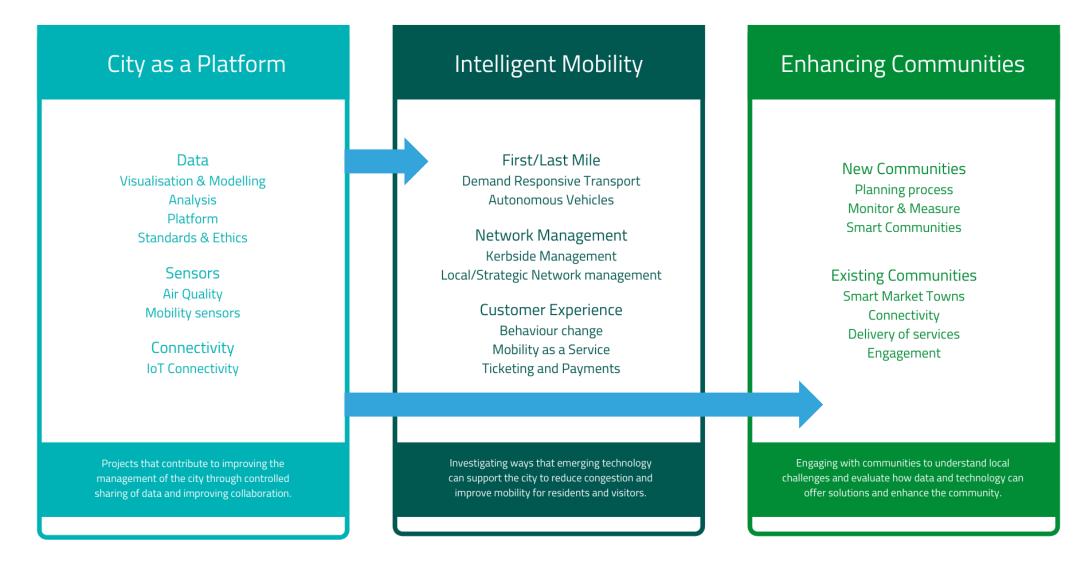






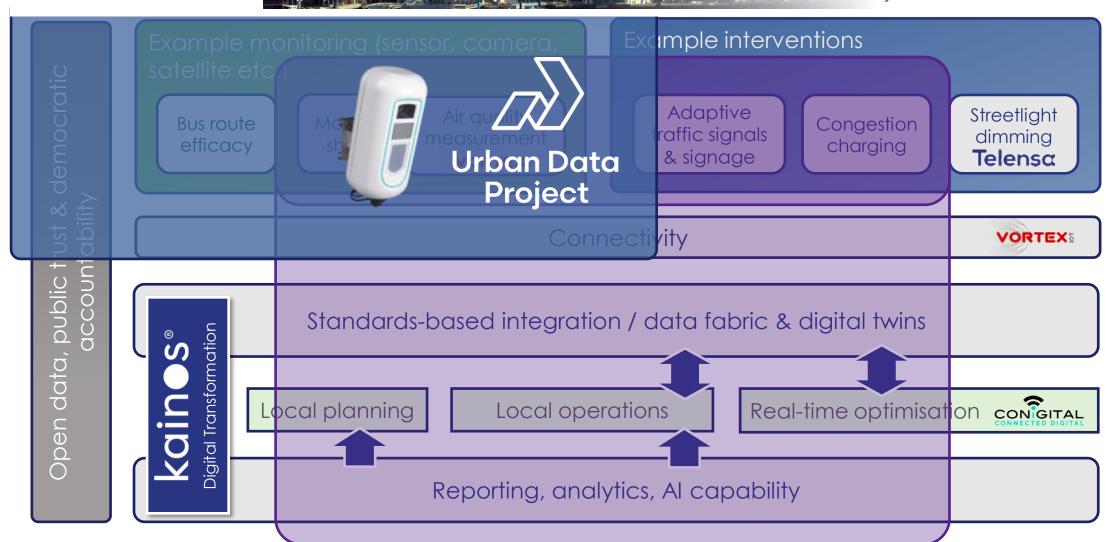


### Sustainable solutions

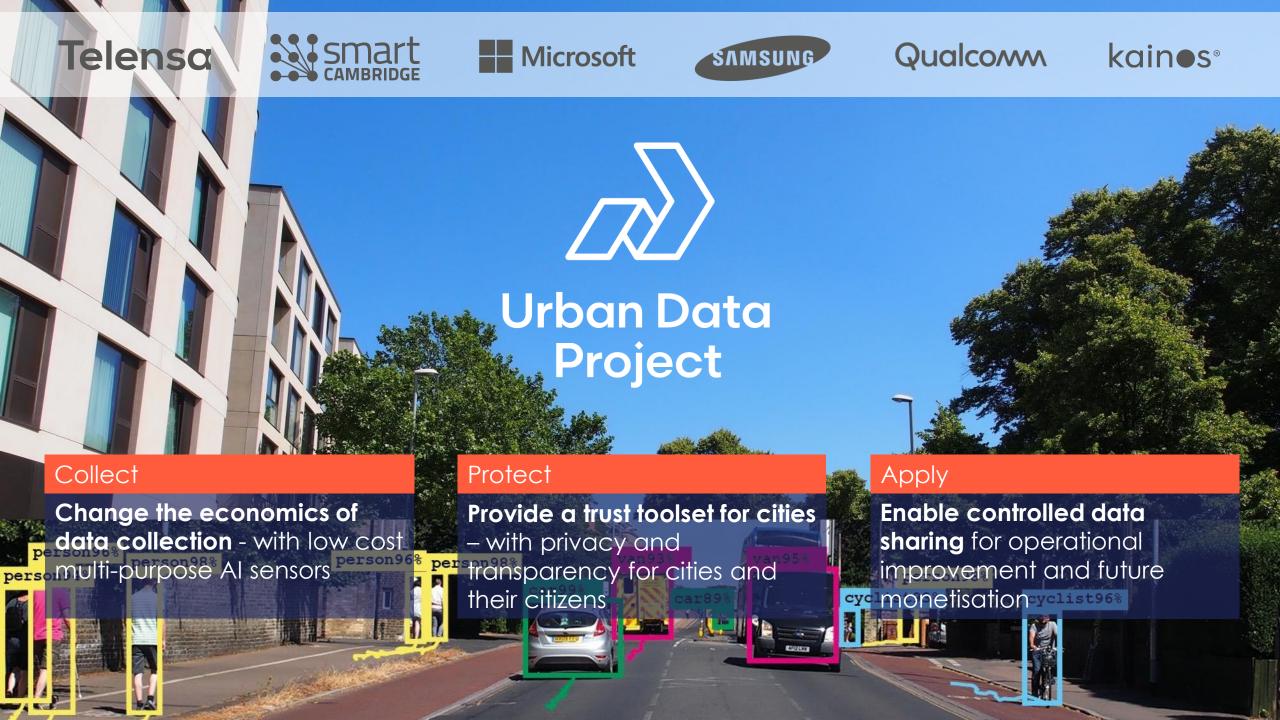








kain<sub>s°</sub>

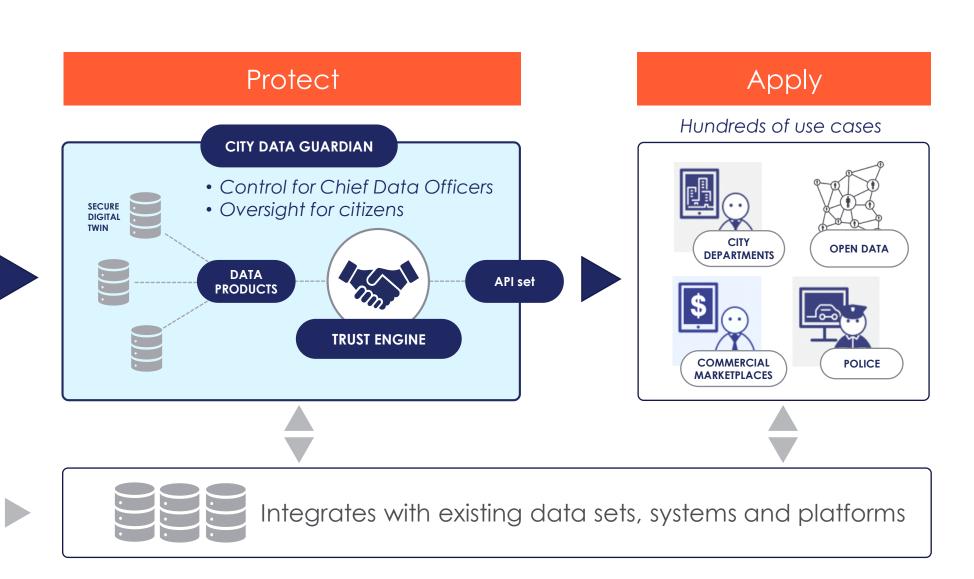


# Flexible trust infrastructure for cities

## Telensa

#### Collect





### Regional partnerships & national directives

### Local sustainability priorities



