Smart lighting, smart cities and urban data

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26th August 2019

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making brighter cities

Telensa at a glance

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#1 in connected street lighting

1.7 million streetlights connected

400 cities

90+ networks built

10 years deployment experience

Strategic Partners:

SONY Microsoft SAMSUNG SAMSUNG SDS Qualcomm

Evolution of smart streetlight infrastructure

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Streetlight application

Lighting department

Single purpose sensor, remote control application

Vertical apps

Many departments

Single purpose sensor data visualised in dashboard

Multi-purpose data

Fabric of the data-driven city

- Array of multi-purpose AI sensors for any application
- Platform to define and protect data products

End-to-end solution

Designed and manufactured by Telensa

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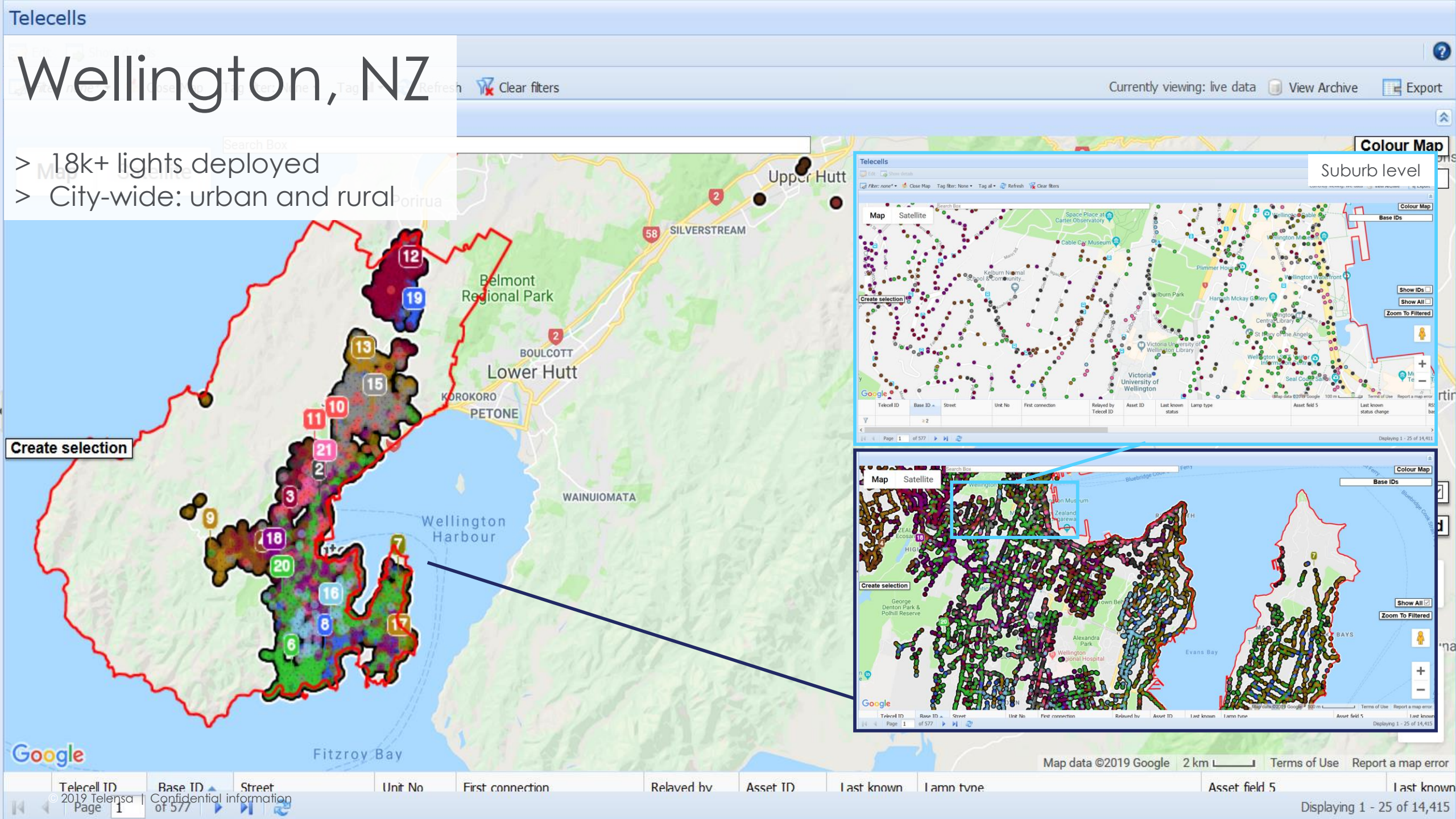
Sensor/control devices

Wide area network

Management application

Wellington, NZ

> 18k+ lights deployed
> City-wide: urban and rural



Street Intelligence

Future-proofing your smart city

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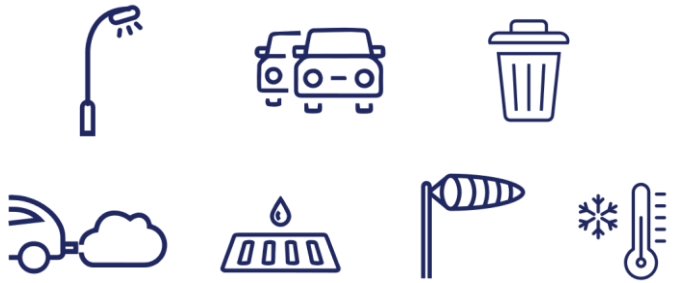

Applications

Sensor Hub

Dashboard

aeroqual · VAISALA · FarSite COMMUNICATIONS · GILL · ((SENSONEO)) · OIZOM REDEFINING RESOURCES · CA Traffic · libelium · intouch smartwater drainage · sensors · management · PREVISICO · EAGL GUNSHOT DETECTION & LOCKDOWN SYSTEM · intellistreets

- Connects any combination of sensors on or near-the-pole
- Uses hybrid networks - lighting and cellular connectivity
- Pre-integrated with a range of leading sensor makers, designed to connect to a wide range of 3rd party sensor

- Complements existing data visualisation projects
- Combines city-wide sensing into one dashboard
- Powered by Microsoft – vast worldwide developer and integrator ecosystem

Harrisburg

Smart city deployment

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Harrisburg deployed over 4,000 connected streetlights spanning the whole city, reducing their utility bill by between 60-70%.

Street lighting

Traffic adaptive lighting

Waste

Air quality

"We live in a data-driven world, but we're not going to monitor stuff just to monitor it - it has to make sense to the city!"

Wayne S. Martin Esq.,
Harrisburg's City Engineer

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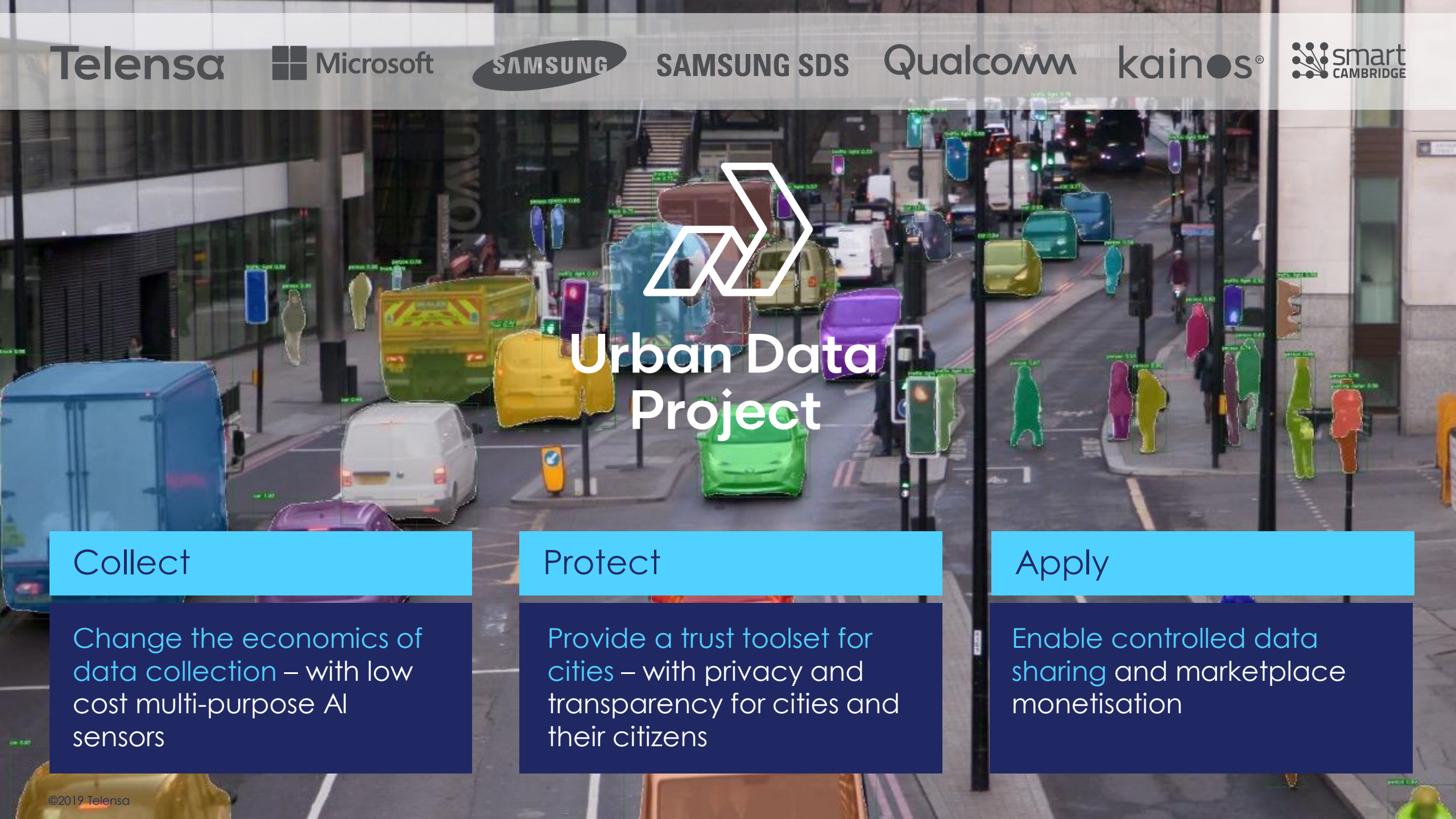

Urban Data Project

Collect

Change the economics of data collection – with low cost multi-purpose AI sensors

Protect

Provide a trust toolset for cities – with privacy and transparency for cities and their citizens

Apply

Enable controlled data sharing and marketplace monetisation

The urban data opportunity

Cities are sitting on a vast untapped data resource

Collect

Most urban data is not collected because it is too costly

Multi-Sensor Pod

Protect

Cities don't have the tools to ensure privacy and transparency.

Apply

Yet urban data infrastructure will soon define a city's success

- More efficient
- Better services
- Engaged citizens
- Data revenues
- Inward investment
- 5G and ITS ready

City Data Guardian

Future-proof cities driven by data intelligence

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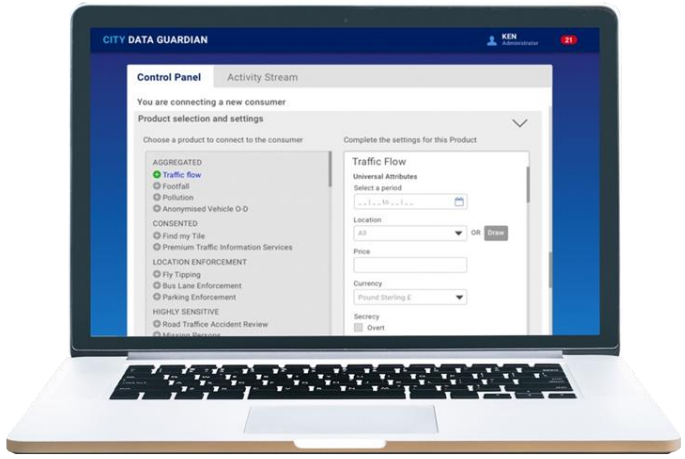

Multi Sensor Pod

Multi Sensor Pod is the foundation device for the Urban Data Project. Equipping streetlights with camera and radar imaging from the automotive industry, combined with Artificial Intelligence (AI) technology from the latest smartphones enabling cities to understand how our streets are really used for the first time.

City Data Guardian

The City Data Guardian is a platform for cities to protect and apply their urban data.
It enables the controlled use and monetisation of urban data, whilst ensuring policies are transparent to citizens.

Cambridge pilot 2019

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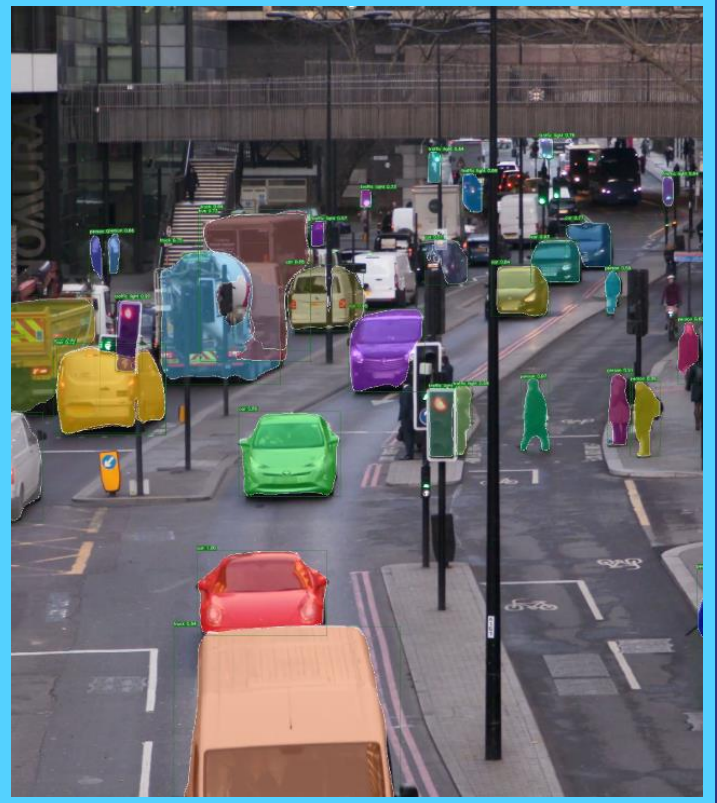
Edge processing from multiple cameras

Delivering real-time insights



Meeting data protection regulations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