




"Thirst of Data"

The future of the Internet of Things

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A photograph of two young students, a girl in the foreground and a boy behind her, both wearing blue school uniforms with white collars. They are sitting at a desk and looking intently at tablets they are holding. The background is a bright, out-of-focus classroom with a window. A white horizontal line is at the top of the page.

There exists a new opportunity to
connect the unconnected.

There exists a new definition of city living
and citizen expectation for technology-rich,
'smarter' solutions



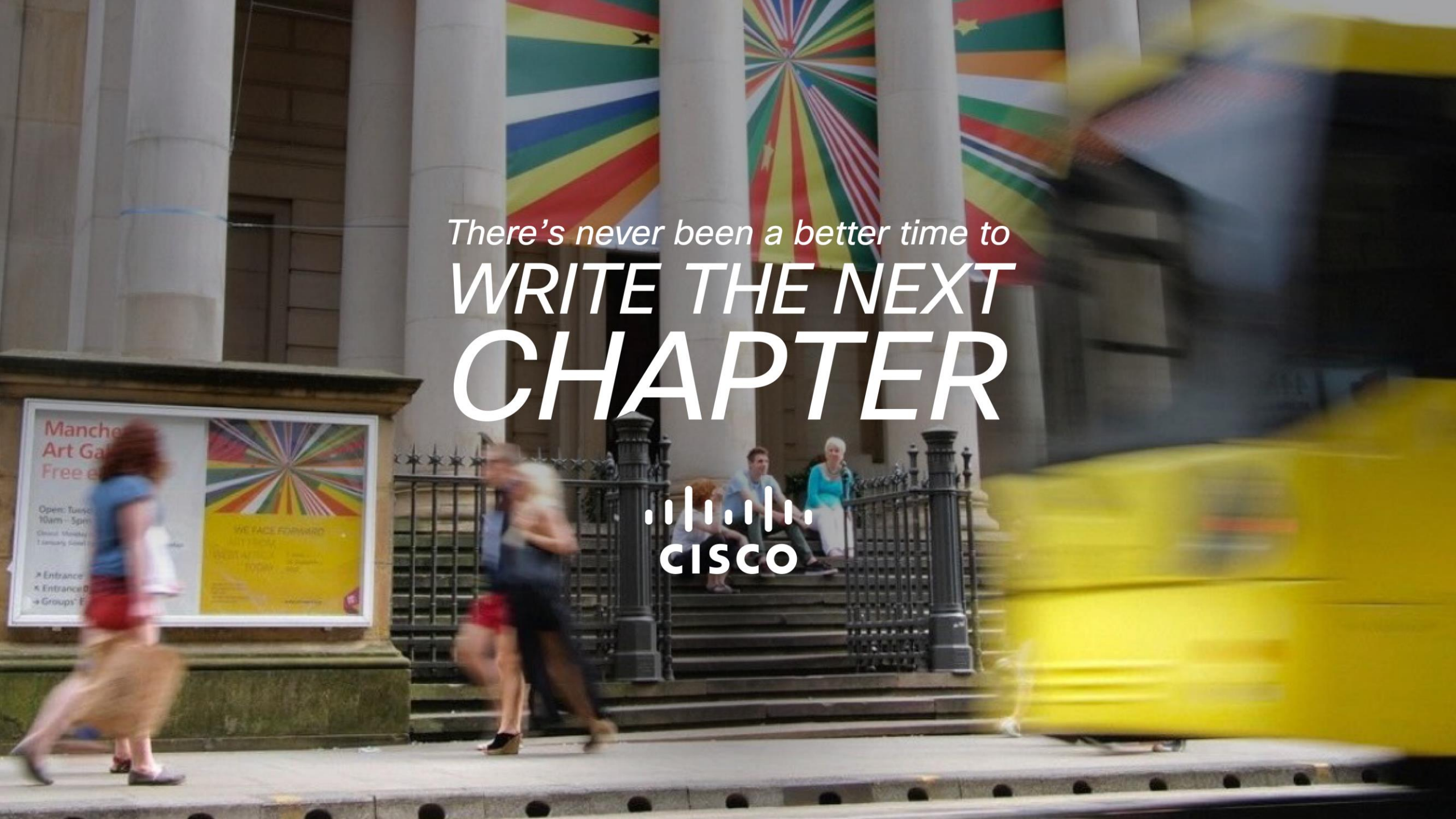


and a 'new world' agenda for those responsible for its delivery.

It's already happening



There's never been a better time to
**WRITE THE NEXT
CHAPTER**



Building this smart city will take prudent planning, trailblazing IoT technologies and a collective desire for ongoing collaboration.

2 km²

Innovation corridor



£16m

IoT investment



21

delivery partners





cityverve



COLLECTIVWORKS

Telensa

SIEMENS
Ingenuity for life



Asset Mapping

satsafe

Republic Of Things

MANCHESTER
1824
The University of Manchester



Transport for
Greater Manchester



Ordnance Survey



Central Manchester
University Hospitals
NHS Foundation Trust

SmartGateways

C+L Clicks+Links





Health & Social Care

Use Case Development & Citizen Engagement

Chronic Condition Management

- Focusing on COPD – the UK's 5th biggest killer Testing the ability of IoT interventions to improve self-care, medication adherence and physical activity
- Providing individualised patient feedback for better care and early warnings detection

Community Wellness

- Sensor networks will support citizens in and outside the home and digitally promote physical activity to tackle heart disease, productivity, mental health and general wellbeing

Neighborhood Team Support

- Improve the efficiency of the existing staff structure
- Enable care at the right time and right place.



Transport & Travel

Use Case Development & Citizen Engagement

Talkative Bus Stops

- To enhance the travel experience by making the use of the Bus stops more interactive and engaging
- Position Bus-stops as places of interest and make public transport enjoyable
- Promote local events, artists and a platform to communicate City initiatives

Road Safety

- Improving road safety amongst high risk groups to maintain a highly mobile economy and inclusive society
- Deploying telematics devices to assess individual drivers and identify opportunity for interventions
- Reducing accidents and environmental emission

City Concierge

- Ease of access to the city to help utilise and promote the use of public transport to travellers.

Sensing Trams, eBike Sharing



Energy & Environment

Use Case Development & Citizen Engagement

Next Generation BMS

Compliance Cost Reduction

Building Retrofit Energy Reduction

- Enhancing energy performance of existing buildings

Smart Place Lighting

Smart Parking

- 30% of all traffic congestion is caused by drivers searching for parking
- Street lighting infrastructure will be leveraged to enable smart parking applications
- Addressing lost revenue and reducing pollution

Air Quality Monitoring

- Air quality is a major issue for cities worldwide
- Modelling, monitoring, analytics and applications will provide a holistic air quality management approach
- This insight will then be fed into other CityVerve themes i.e. travel & transport



Culture & Public Realm

Use Case Development & Citizen Engagement

Community Champions

- Citizens will sit at the heart of CityVerve
- A citizen forum will review use cases, and input to development, usage and refinement
- Designed to simulate citizen-centric innovation and drive community adoption of CityVerve

Social Platform

- For people living, working, studying and visiting the Corridor
- Delivering local content around the interests and activities on the Corridor
- Integrated into the city-wide WiFi network

IoT Art Installation

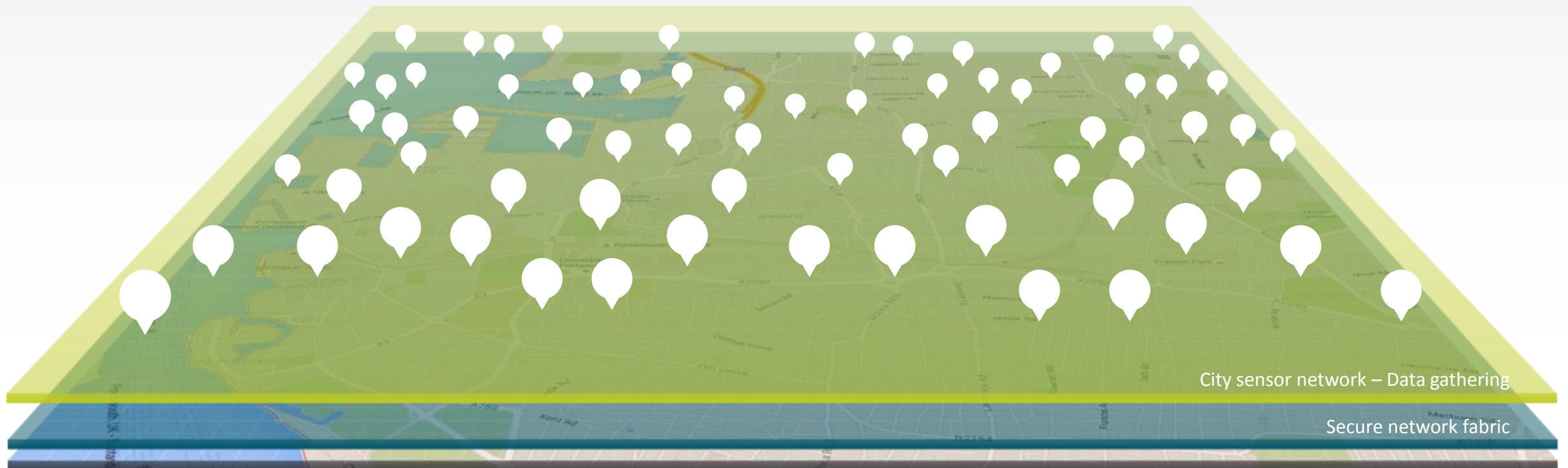
- 2 large scale IoT public realm installations
- Scope for installations to interplay with existing street furniture
- Designed to engage communities in the potential of IoT

Open Innovation

- 12 months, 100s of proposals, 24 new IDEAS

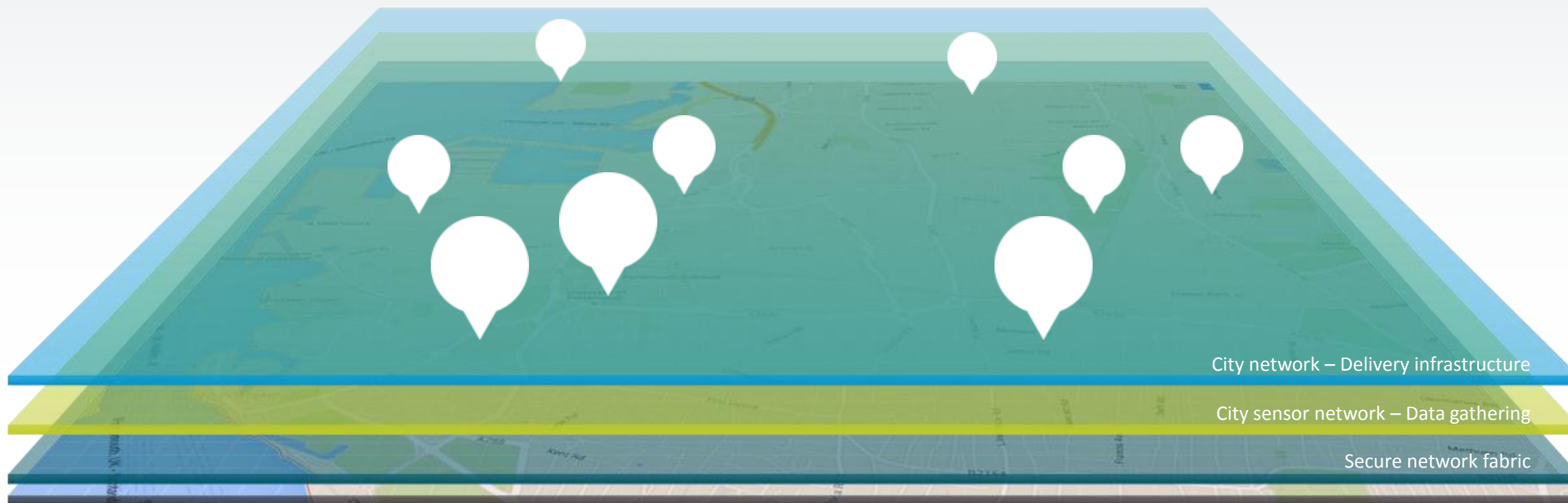
Smarter Cities: City sensor network – Data gathering

- Vehicle sensors
- Building sensors
- Street sensors



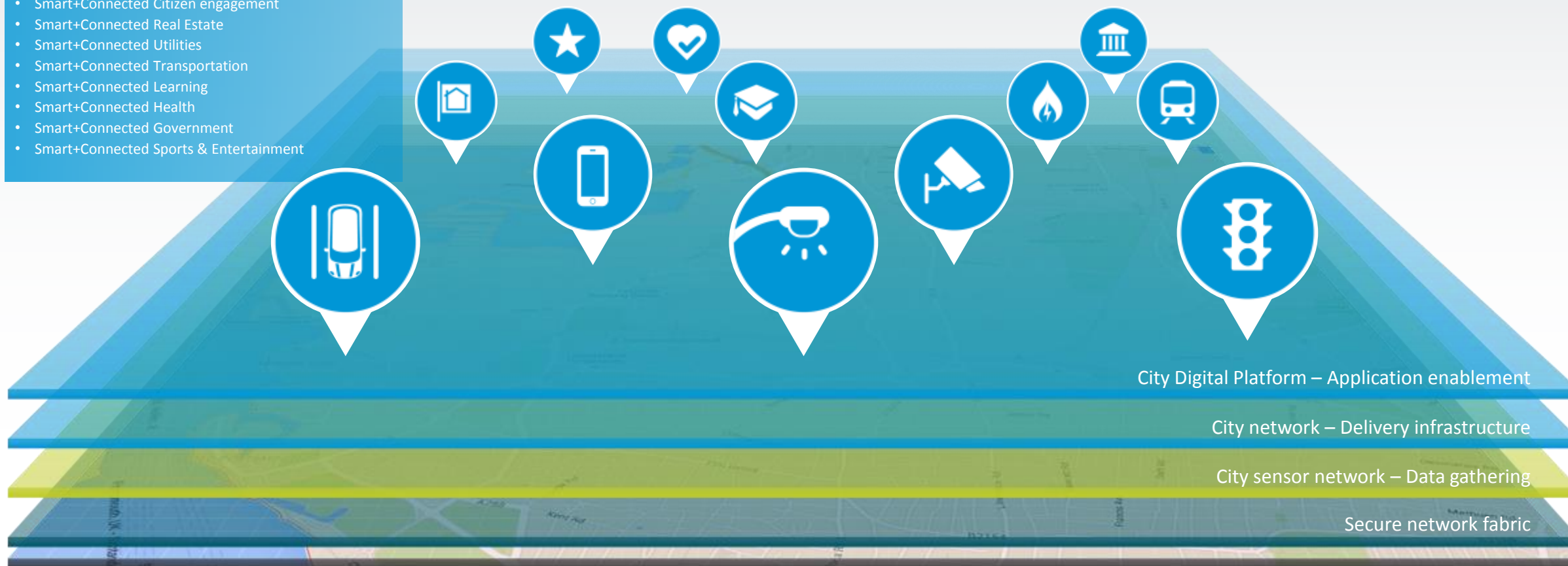
Smarter Cities: City network – Delivery infrastructure

- Health and Social Care
- Transport and Travel
- Culture and Public Realm
- Energy and the Environment



Smarter Cities: City Digital Platform – Application enablement

- Smart+Connected City Parking
- Smart+Connected City Traffic
- Smart+Connected City Lighting
- Smart+Connected City Safety & Security
- Smart+Connected Citizen engagement
- Smart+Connected Real Estate
- Smart+Connected Utilities
- Smart+Connected Transportation
- Smart+Connected Learning
- Smart+Connected Health
- Smart+Connected Government
- Smart+Connected Sports & Entertainment



Thank you

