



Smart places: new needs?

Ben Hawes

Connected Places Catapult

Urban tech and the pandemic

- The way we were
- Responding
- Speculative futures

Ben Hawes

Associate, Connected Places Catapult

Engagement Director, Benchmark Initiative on ethical use of location data

Background in Government technology policy:

- Digital TV Switchover Plan 2006

- Government's Guidance to Ofgem 2009

- Review of Intellectual Property and Growth in the digital age 2011

- Smart cities, national internet of things programme IoTUK 2013-5

- Review of Artificial Intelligence 2017

[Home](#)

[Standards](#)

[Our](#)

[Industry](#)

[About BSI](#)

Smart Cities

Find more information about our strategy

 and current standards portfolio.

UK places were keen to embrace digital services, but

- Skills, capability, competing priorities, restricted resources in local public services
- Lack of proven models for using data in the interests of citizens
- Data privacy and barriers to data sharing
- Atomised market for providers of services
- Gaps between services on offer in the markets and local priorities
- Patchy and incomplete devolution of powers from the centre

What did they mean by “smart”?



Needed to fix the plumbing first... 2018

Local Digital Declaration

Introduction

This declaration affirms our collective ambition for local public services in the internet age, and our commitments to realising it. It commits us working on a new scale to:

- design services that best meet the needs of citizens
- challenge the technology market to offer the flexible tools and services we need
- protect citizens' privacy and security
- deliver better value for money

Smart cities in 2019

- Data-driven management of transport (Transport for London, Citymapper, Uber)
 - Data-driven planning
 - IoT for management and maintenance (bins, potholes, parking)
 - Growing interest in further automation
 - New demand for data-driven local economic planning
 - Social media analysis tracking public sentiment
 - New channels for public engagement around
- Globally, slow development at first, now faster

“Shadow” smart places

- Consumer uptake of location-enabled services: Uber, Deliveroo, navigation apps, geo-tagging on social media
- Growth in geospatial technologies mean we more location-enabled services are in development

2020: PANDEMIC

Things change fast, and we don't know how much more change we will see even this year

Urban tech and the pandemic

- The way we were
- **Responding**
- Speculative futures

New demands

- Crisis management, delivering city services under new constraints
- Integrating data more and faster
- Tracking, predicting and managing infection, with new and different datasets
- Managing public space; tracking movement, travel and compliance with restrictions
- New communications
- Even greater need to protect vulnerable people
- Uplift in contactless transactions, remote service delivery, remote working

Question

- Of all the digital transformations you have achieved locally in the last decade, what paid off most under pressure in the last 4 months?

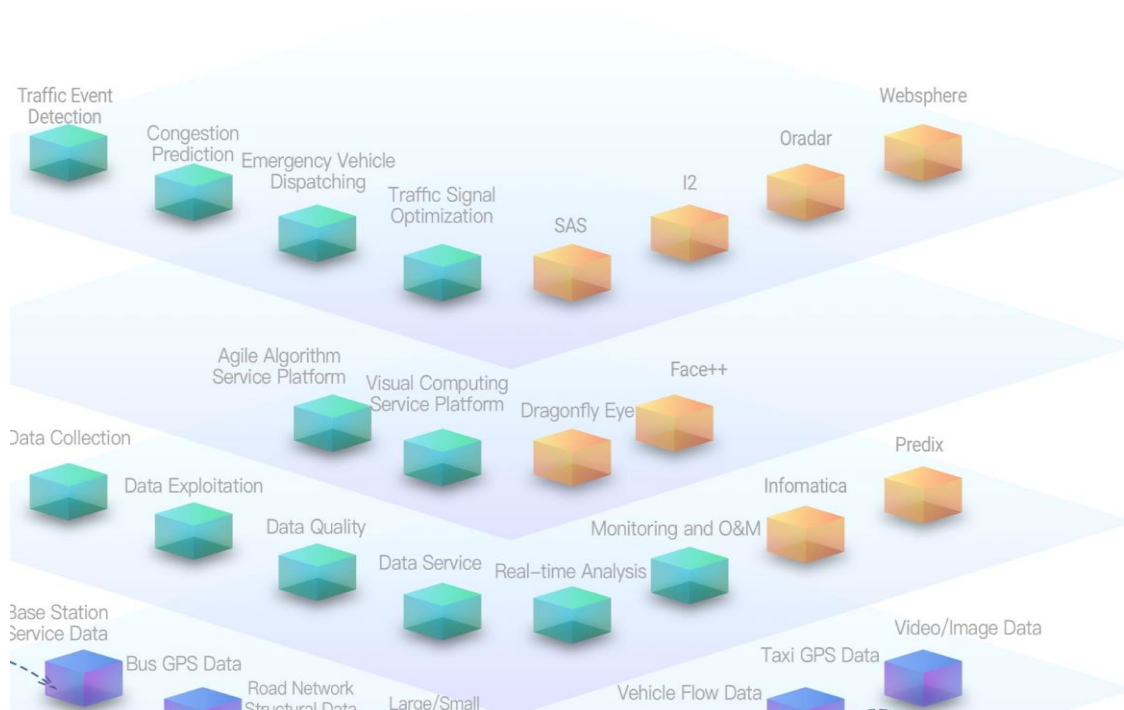
Urban tech and the pandemic

- The way we were
- Responding
- **Speculative futures**

We might see:

- Demand for data integration and presentation
- New demand for managing buildings, movement and public space
- Increased automation of city operations and services
- More surveillance, more fear of surveillance; more opportunities for applications protecting privacy
- More recognition of the power and (contested) value of local data, including local data held by companies
- More investment in data in the local public sector?

City Brain Construction Principles



IT Service Platform

The open IT service platform leads to the prosperity of the industrial ecosystem. It consumes data resources, while conserving natural resources.

AI Service Platform

The open AI service platform uses deep learning technology to mine data resources for valuable information, empowering a city with the ability to think.

Data Resource Platform

Real-time, network-wide data aggregation, turns data into a true resource. The platform ensures data security, improves data quality, and uses data scheduling to realize the value of the data.

Integrated Computing Platform

This platform provides ample computing power

How smart building technology can help offices and retail thrive post-COVID 19

May 11, 2020



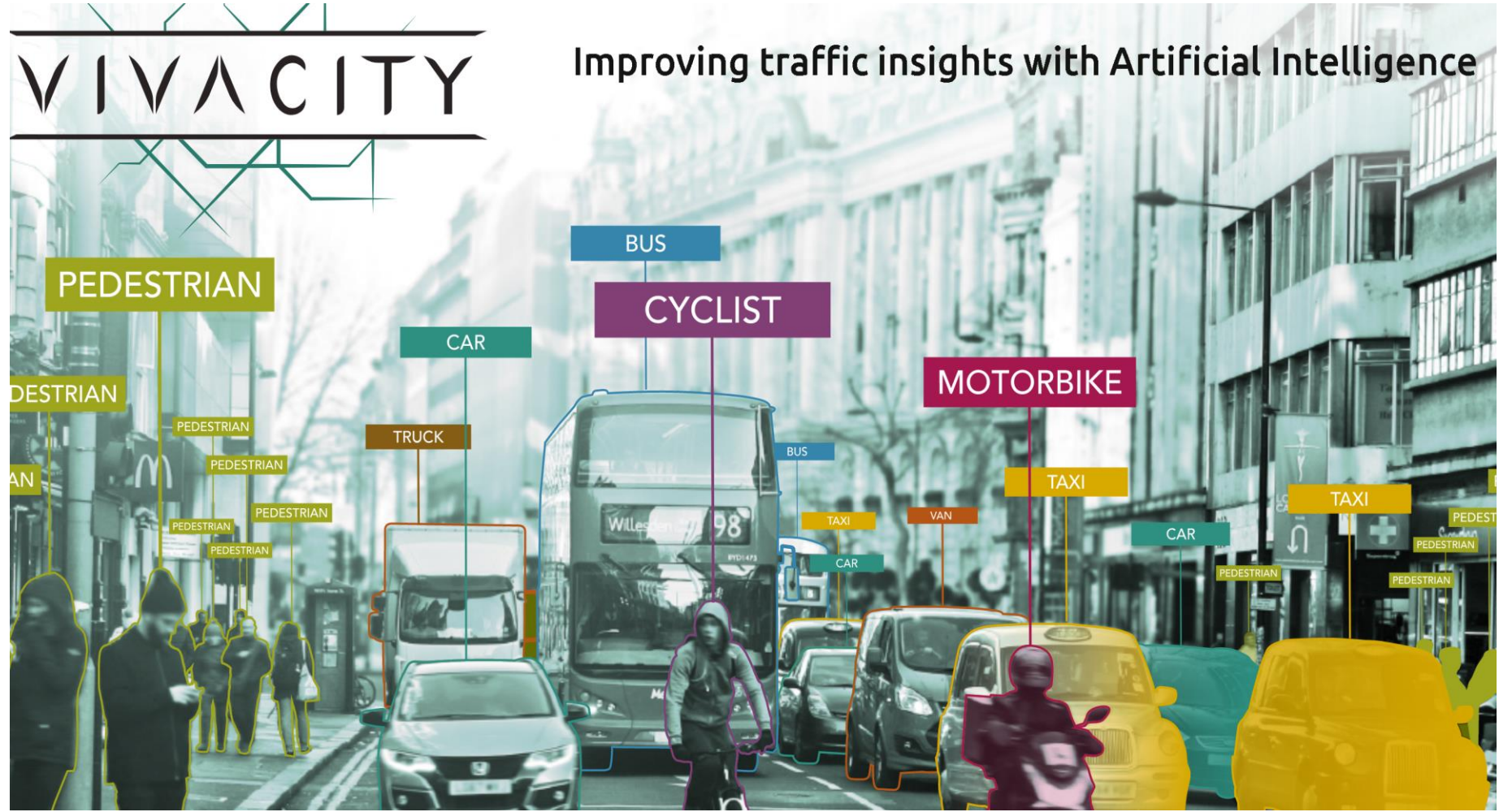
Thomas Barquin

Senior Analyst II, Smart Buildings

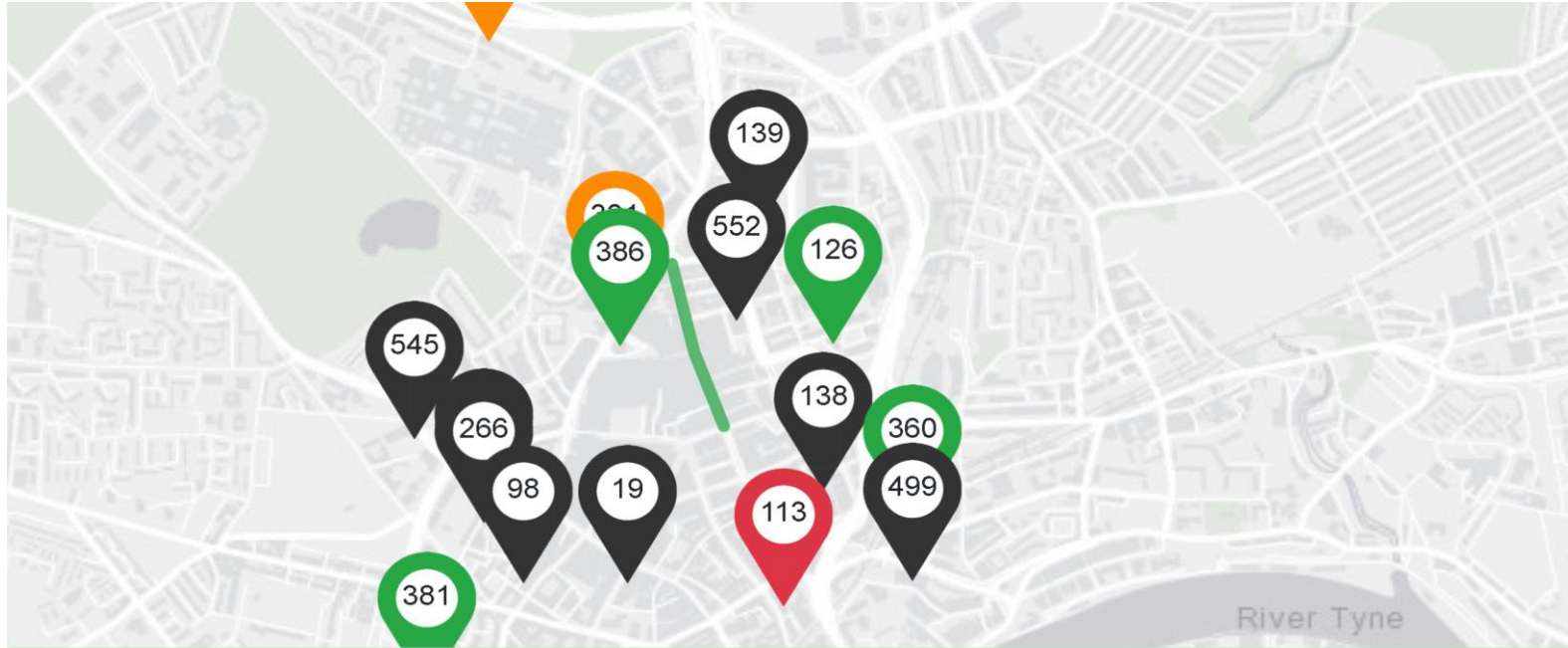
Despite the Covid-19 outbreak, Omdia predicts significant investment in smart building a mean of responding to the sector's challenges. Sales of smart building technologies in 2020 to reach \$685.7 million.

VIVACITY

Improving traffic insights with Artificial Intelligence



Newcastle - Howbusyistoon.com - helping you stay safe in the city centre



✓ Our data shows that footfall is low and there is sufficient space to safely social distance.

The five: robots helping to tackle coronavirus

Automatons have been chipping in with the effort to beat Covid, from disinfecting hospitals to delivering groceries



- Disinfecting and cleaning
- Screening temperature, behaviour, masks
- Deliveries
- Supply chains, nventory
- Assistive applications in care homes
- Communicating about social distancing

More surveillance

“It’s Super Saturday, the pubs are open and it’s a privacy nightmare - The government has asked pubs, restaurants and other businesses to collect customer information for NHS Test and Trace. There's a lot that could go wrong.”

(Matt Burgess, Wired 4 July 2020)

More fear of surveillance

Google Wants Your Data in Exchange for a Coronavirus Test

Public health shouldn't mean surrendering
privacy to Silicon Valley.

Privacy and public interests

Privacy 2020: 10 Privacy Risks and 10 Privacy Enhancing Technologies to Watch in the Next Decade



JANUARY 28, 2020 | MARIANNE VARKIANI



Possible trends

- Analysis of “what worked” in tech responses
- Yet more power to major data-holding companies?
- Growing interest in using new data sources, eg for planning local economic growth
- Sharing best practice between city governments

Coronavirus Speaker Series: Sharing Knowledge to Respond with Resilience



Resilient Cities Network

[Follow](#)

Apr 3 · 4 min read



CITIES on the **FRONTLINE**



WORLD BANK GROUP

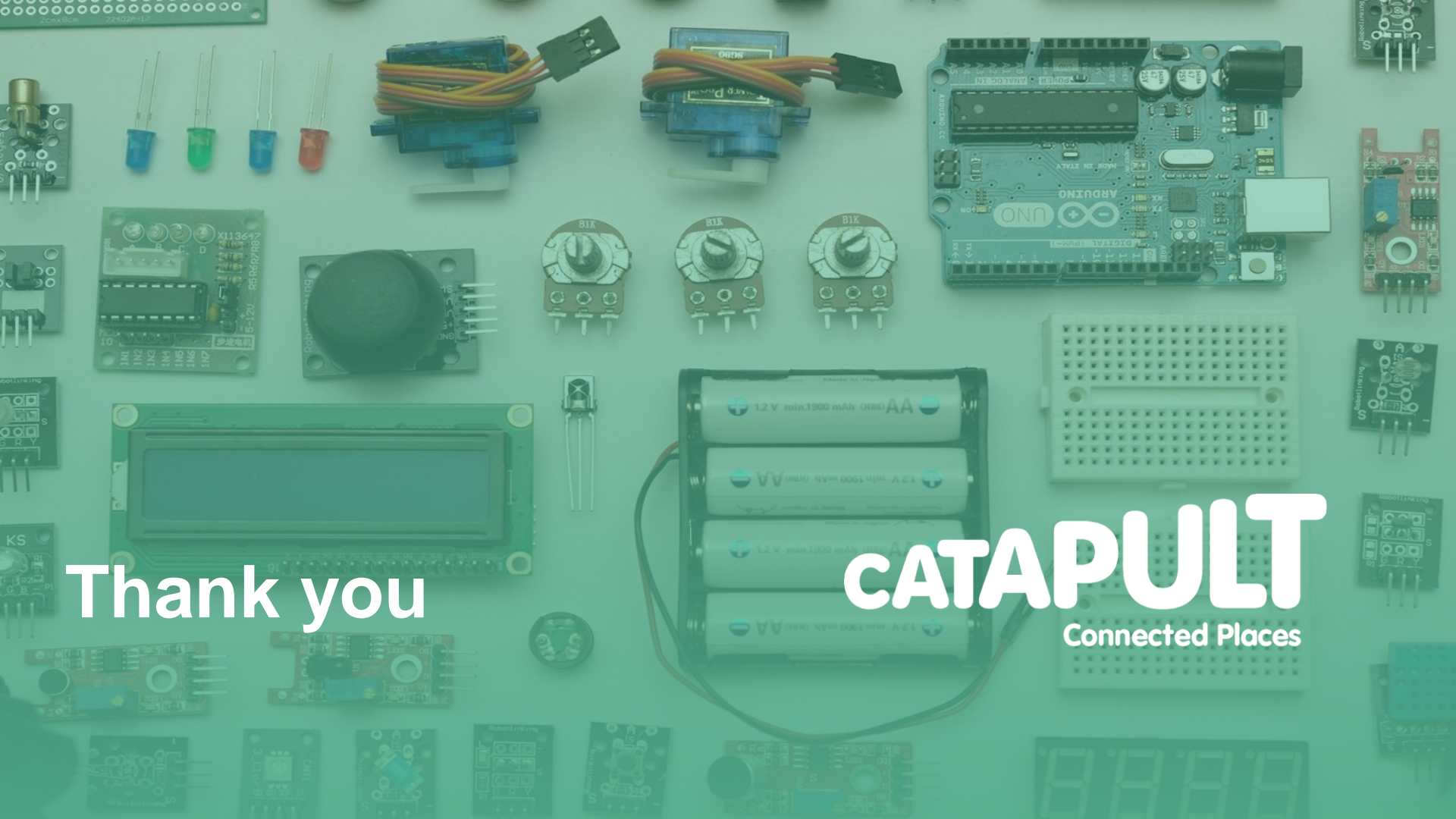


GLOBAL
RESILIENT
CITIES
NETWORK

Coronavirus Speaker Series: Sharing Knowledge to Respond with

Questions

- Which digital services will be more of a priority for you in the future?
- Will response to the pandemic increase recognition of the value of local digital transformation?



Thank you

CATAPULT
Connected Places