

#### Great Britain's national mapping agency



Create geospatial data

We produce location data at levels of detail and accuracy considered to be a global exemplar, using ground based survey and remote imaging



Support government

Our data is trusted to support policy and the delivery of public services at every level of government



International expertise

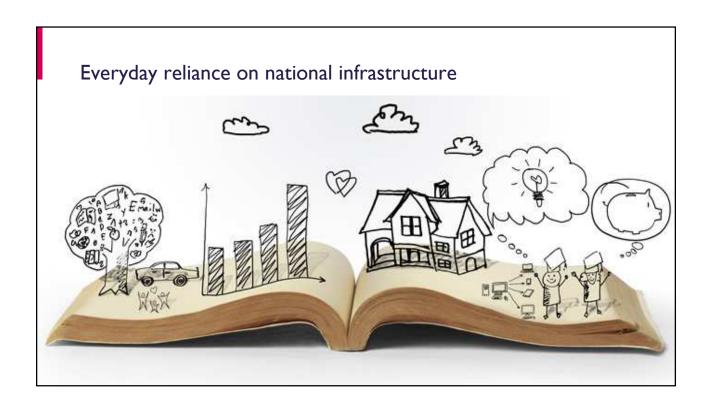
We take our expertise and capability to support sustainable development and deliver efficient public services.

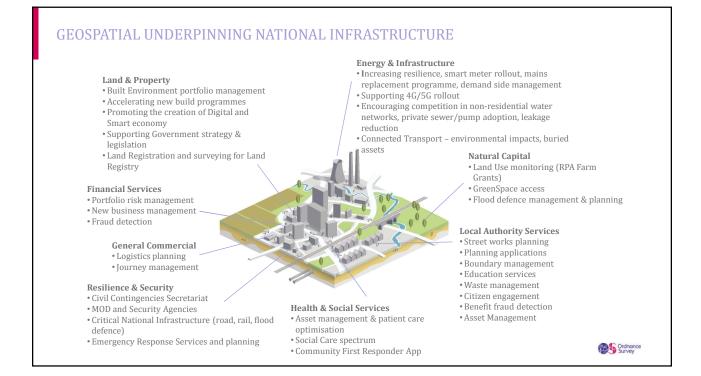


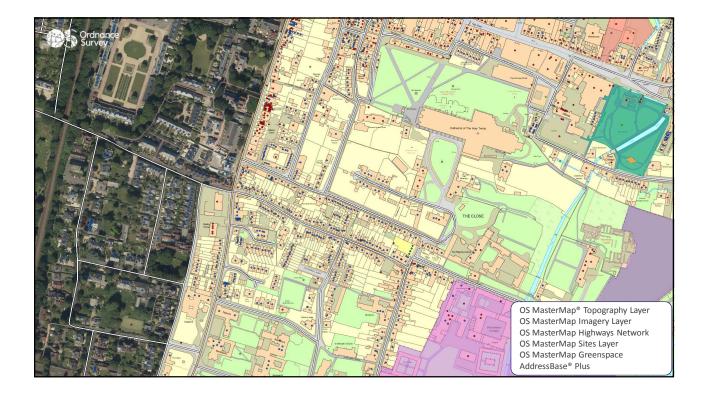
Innovation

We support research and innovation with our Geovation Hub which supports geospatial entrepreneurs.









# But increasingly challenged by themes common to most National Geospatial Organisations

- AI, IoT, automation, big data tech
- Maintenance currency, accuracy, model detail
- Large amounts of raw data are available. Needs to be 'processed/managed' to be actionable - insights
- Pace of change in geospatial technologies
- Competition platforms, crowd, new sensors there is no unsurmountable barrier to entry
- Public task v open data v commercial business
- · Access to political and fiscal investment
- Capacity to change



# CityVerve

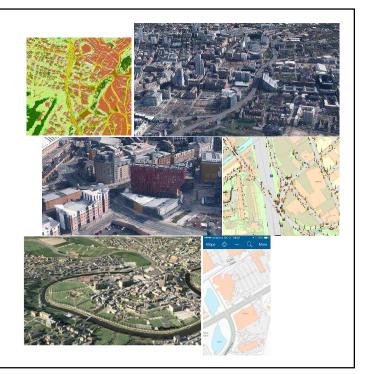
**IoT demonstrator**, Innovate UK part-funded, 20 strong consortium MCC leading 24 months duration, from 1<sup>st</sup> July 2016

Providing the **geospatial glue**Capturing new and **enhancing** existing content

API suite and web services

Research and analysis of content requirements, emerging technologies and

**Geospatial platform** of CityVerve activity, services and assets



# Atlas/E-CAVE

**Connected and Autonomous Vehicles** feasibility study

**Determine** if mapping content is required to support autonomy and if so, the data model

How best will data be **served and shared** Cloud based?

Onboard?

Vehicle to vehicle?

Evaluating the **creation of mapping** from on-board technology



## 5G Planning

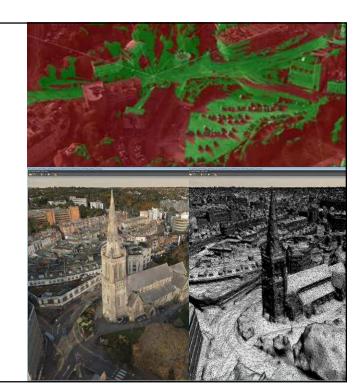
**Planning tool** to aid network operators to plan 5G rollout

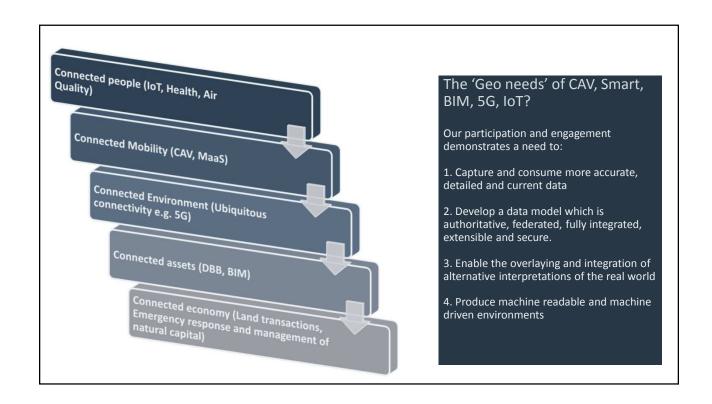
5G is essential to enhance and support a **connected environment** 

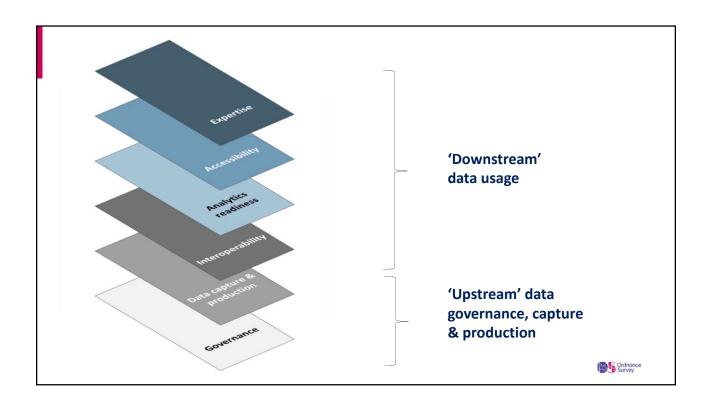
Develop a **3D test bed to** help simulate radio propagation

**High frequency 5G** can be affected by leaves on trees and atmospheric changes **Smart map** of the future

OS data, meteorological data and radio spectrum data will be **interoperable Develop standards** for future network planning









### Thank You!

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