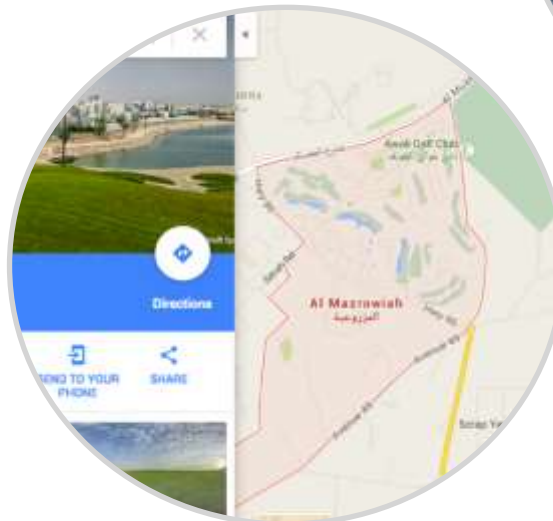


SMART GOVERNMENT= SPATIALY CONNECTED GOVERNMENT

Andy Wilson
Ordnance Survey International
andy.wilson@osi.os.uk

Mapping is everywhere...



Location- the vital component!



Location – a meeting point for information?

Postcode
?

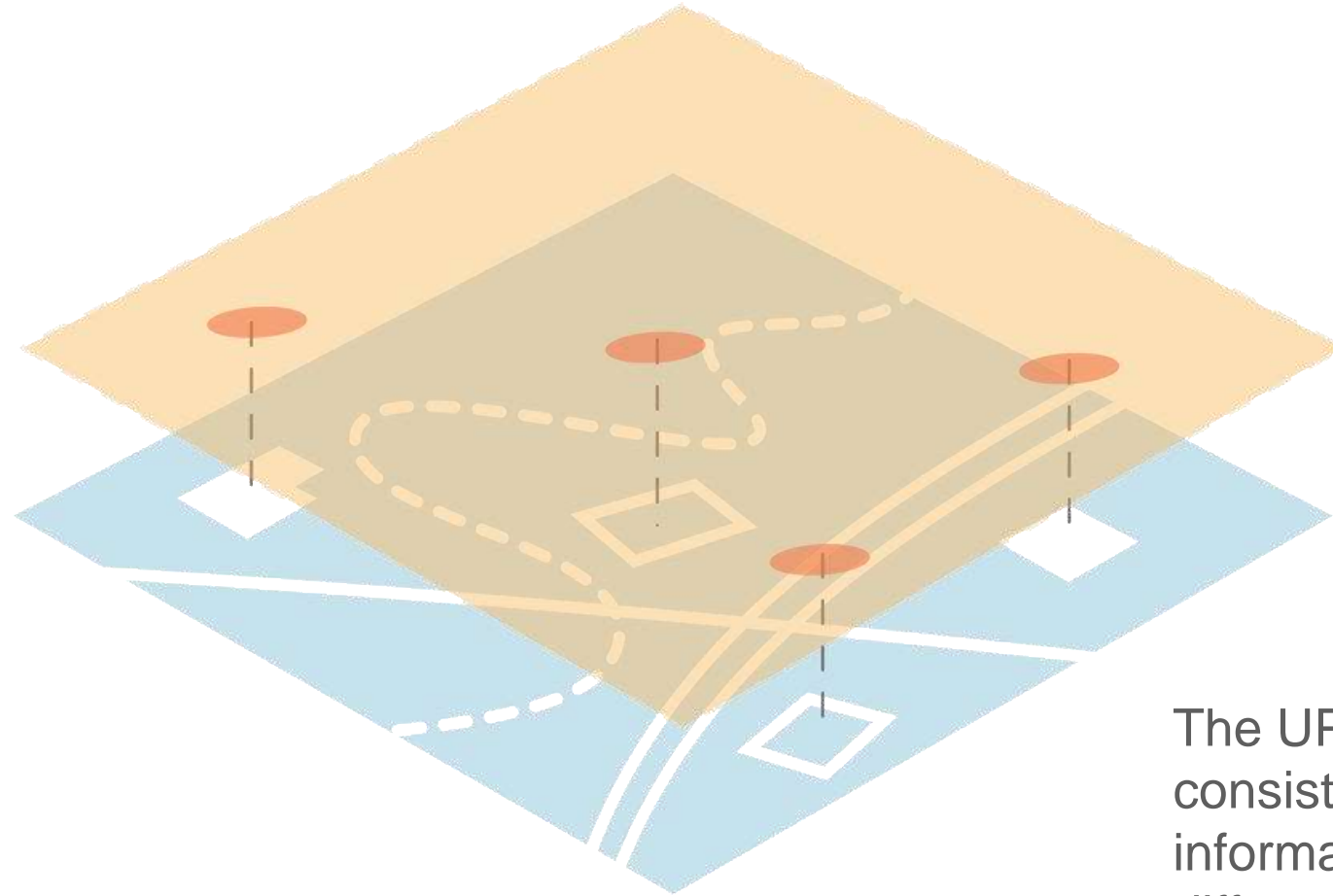
Place
name?

Coordinates
?



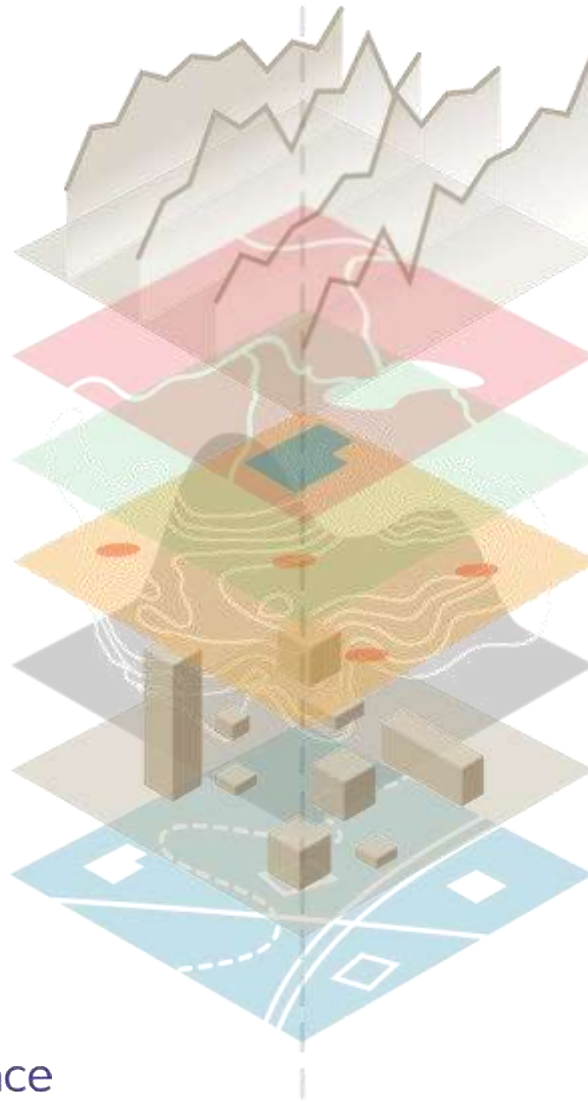
Unique spatial
code for every
real world
object

A Unique Property Reference Number (UPRN)



The UPRN becomes a consistent point to join information from different organisations.

Unique Consistent Reference -Linking all government information

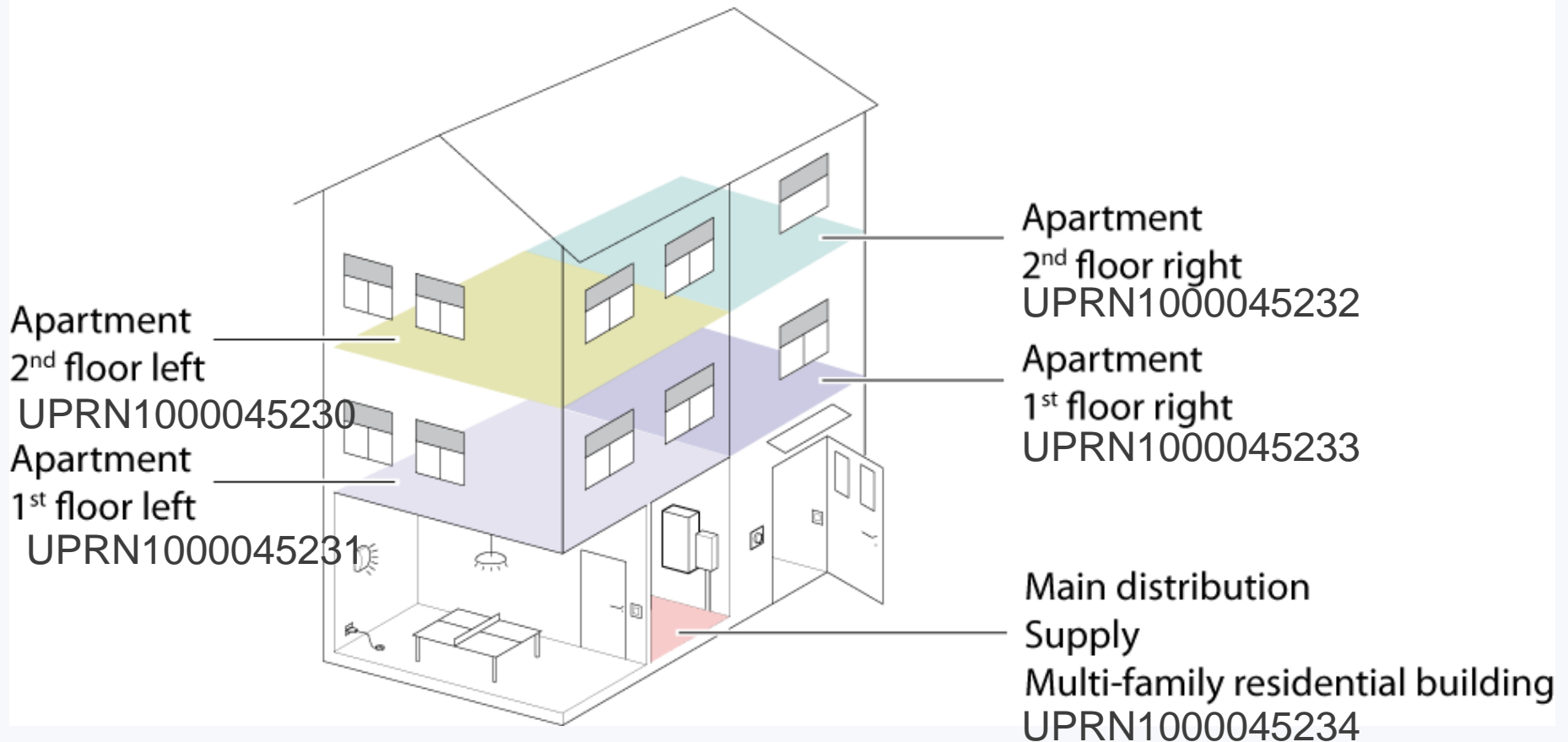


- Health records
- Flood plain
- Land ownership
- Utility supply/smart meters
- Topography
- Height of building? Floor levels?
- Crime, education, vulnerable persons

A managed land and property lifecycle of 40m addresses



UNIQUE IDENTIFIERS FOR EVERY LOCATION/APARTMENT

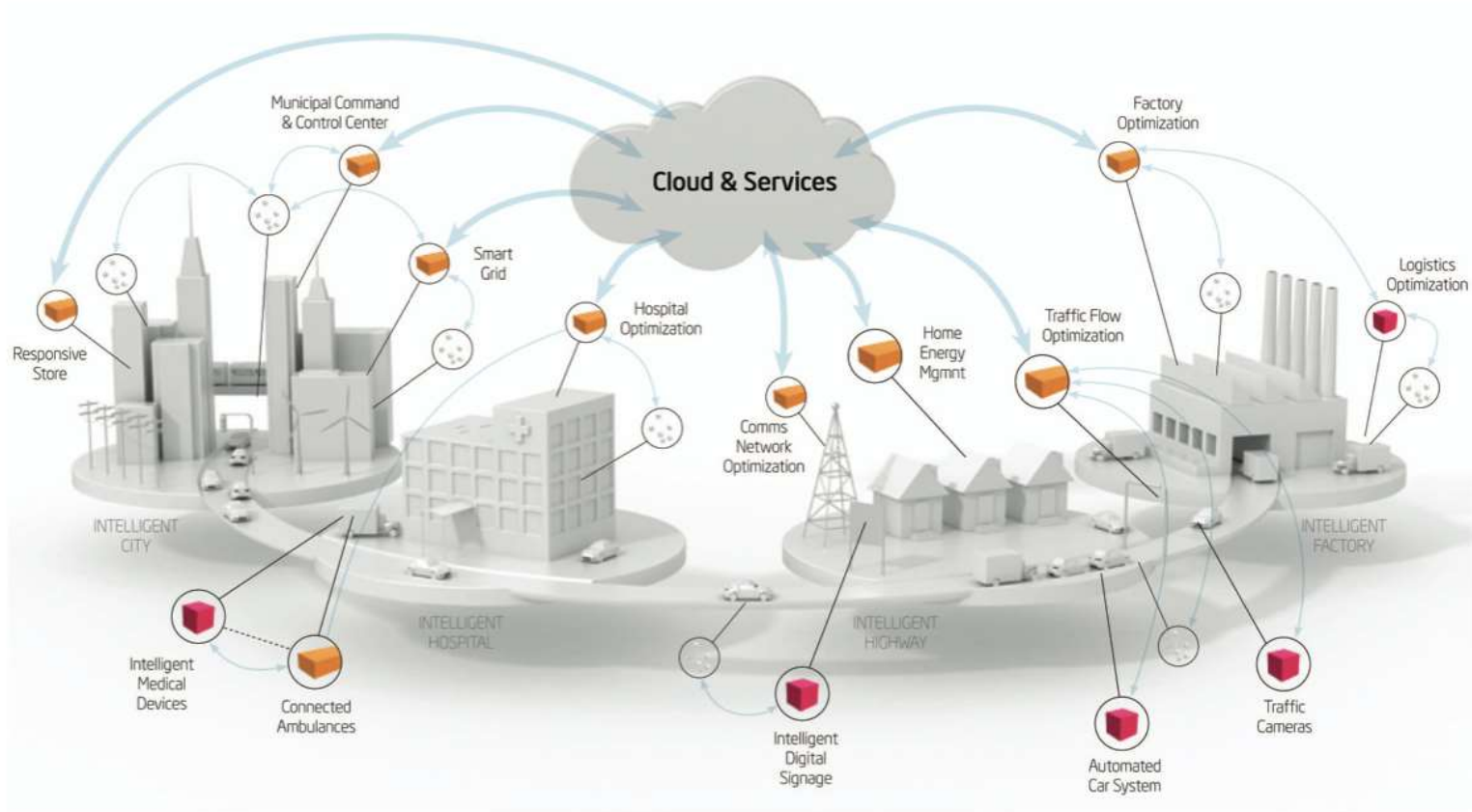




Feature Attributes	
pub_circo_number	
street_description	GERVIS PLACE
town_name	BOURNEMOUTH
postcode_locator	BH1 1LG
descriptiveterm	
featurecode	10021
descriptivegroup	Building
voandattrib	8101000
primary_description	ADVERTISING RIGHT AND PREMISES
fulladdress	OUTSIDE 26 (ADSHL 2201 0444), GERVIS PLACE, BOURNEMOUTH

50 billion Internet-connected things by 2020

Sensors Everywhere **(Things or Devices)**



Cityverve- Manchester



The Corridor



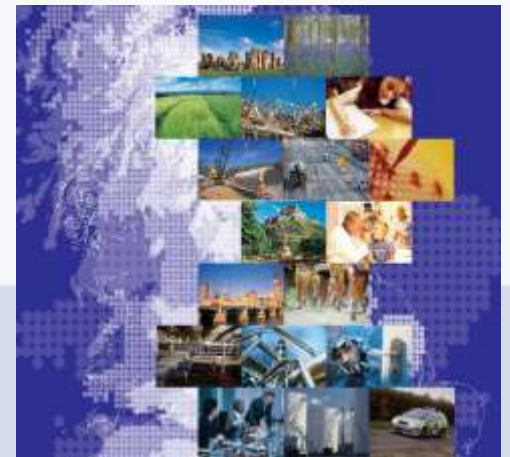
Project Atlas: Navigation for Autonomy

- OS are leading on the UK Government funded Project Atlas.
- identify and define the navigation, communication, processing and mapping requirements for the reliable and safe operation of Autonomous Vehicles anytime, anywhere.



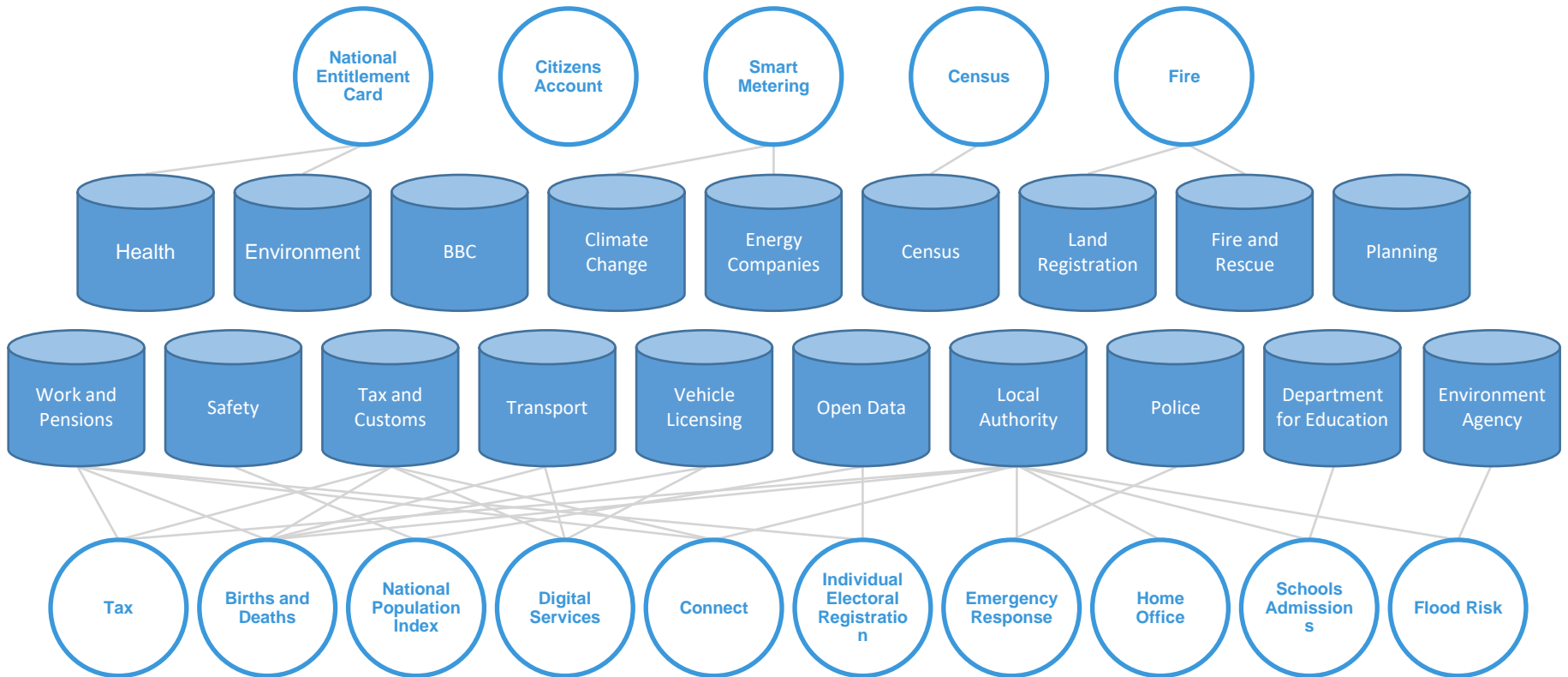
THE UK PUBLIC SECTOR MAPPING AGREEMENT (PSMA)

- A centrally funded single agreement and contract between Government and Ordnance Survey
- Enables Ordnance Survey data to be used by the whole public service in Britain- including Central Government, Municipalities, Emergency Services and Health Bodies
- Provides most of the digital products from Ordnance Survey at national geographic coverage
- A 10 year agreement
- An enabler for more effective joint working between public sector bodies
- A basis for creating a collaborative partnership between public sector users of geographic information and Ordnance Survey



Definitive Spatial Reference

As used by UK government initiatives



UPRN

Allocation of school places



Connection of utility services



Delivery of social care



Streetworks



Register to vote



Collection of waste



Emergency situations



Delivery of packages



Payment of taxes

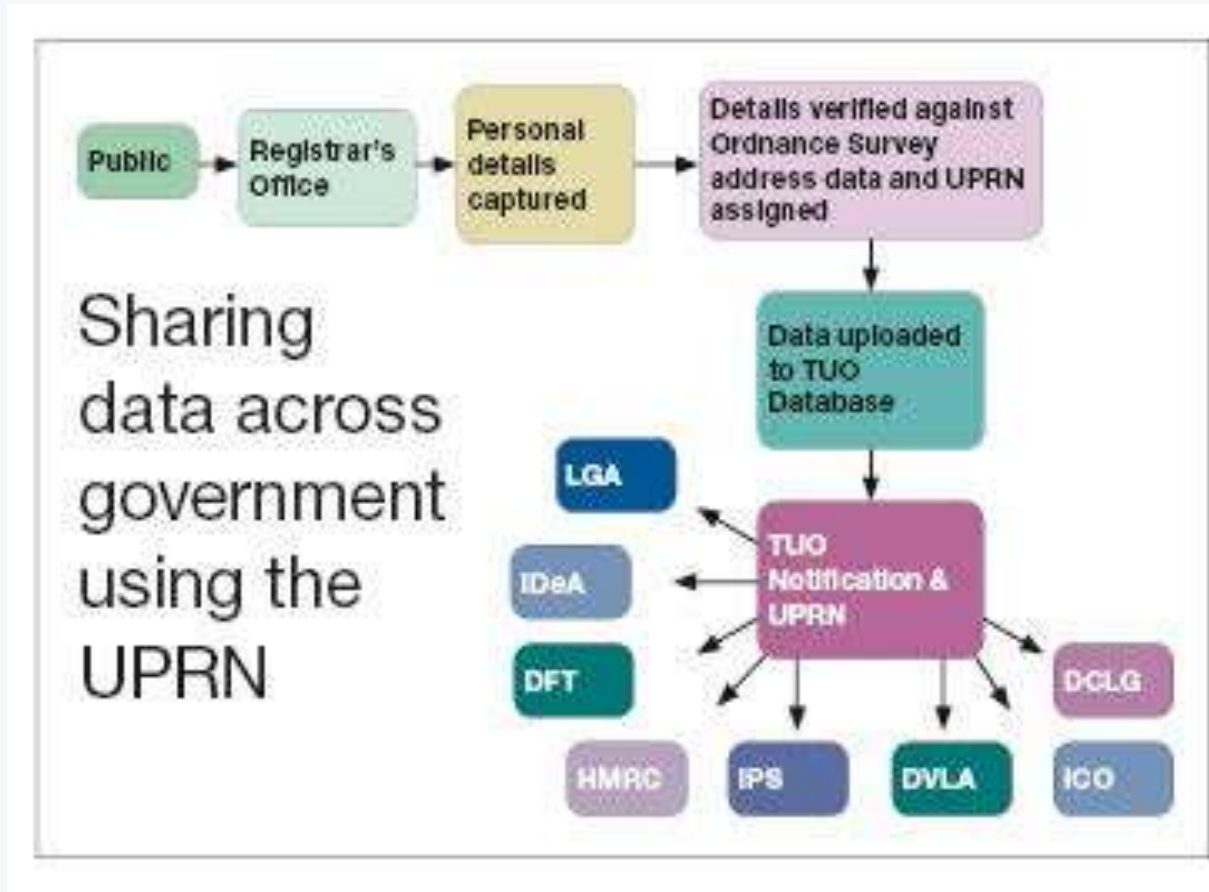


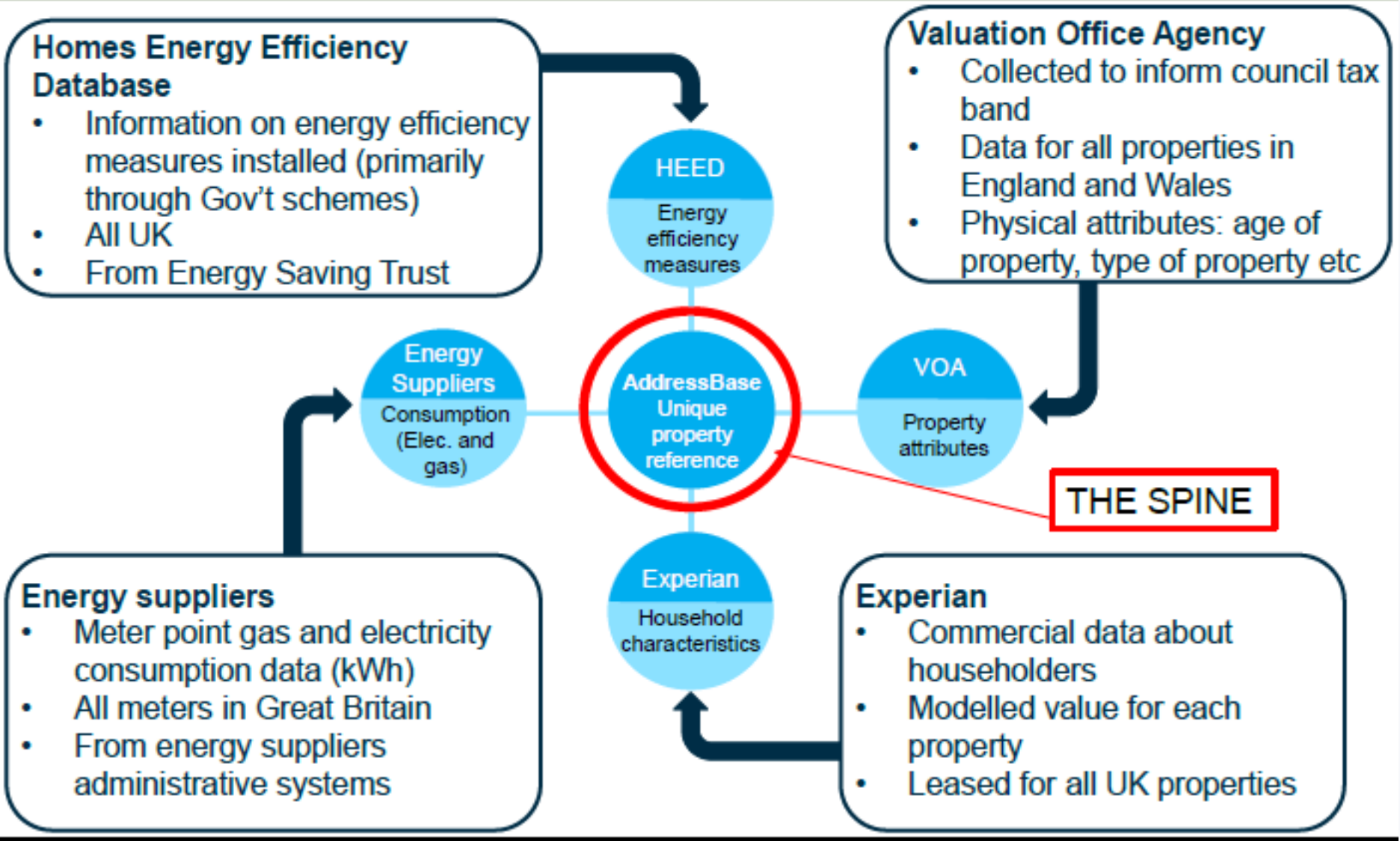
Quotation for insurance

Tell Us Once- UK Department for Works and Pensions

Over 10 years, **\$400 m** in savings is predicted – based on evidence-based pathfinders and trials.

\$100 m of savings for families over the next 10 years, resulting from the money saved on fuel or parking charges.

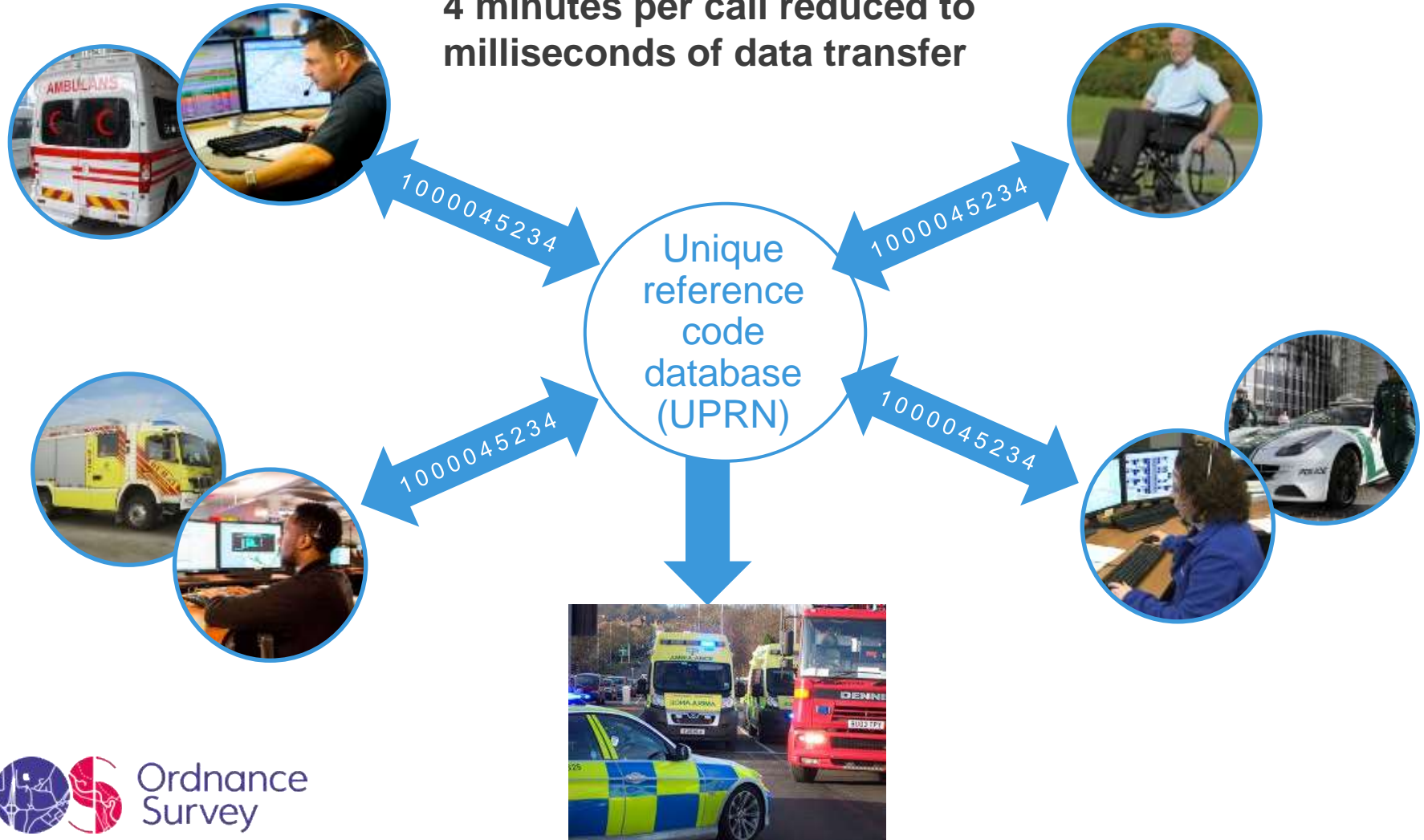




Incident location sharing for Emergency Services

Saving 18,000 hours per annum

**4 minutes per call reduced to
milliseconds of data transfer**

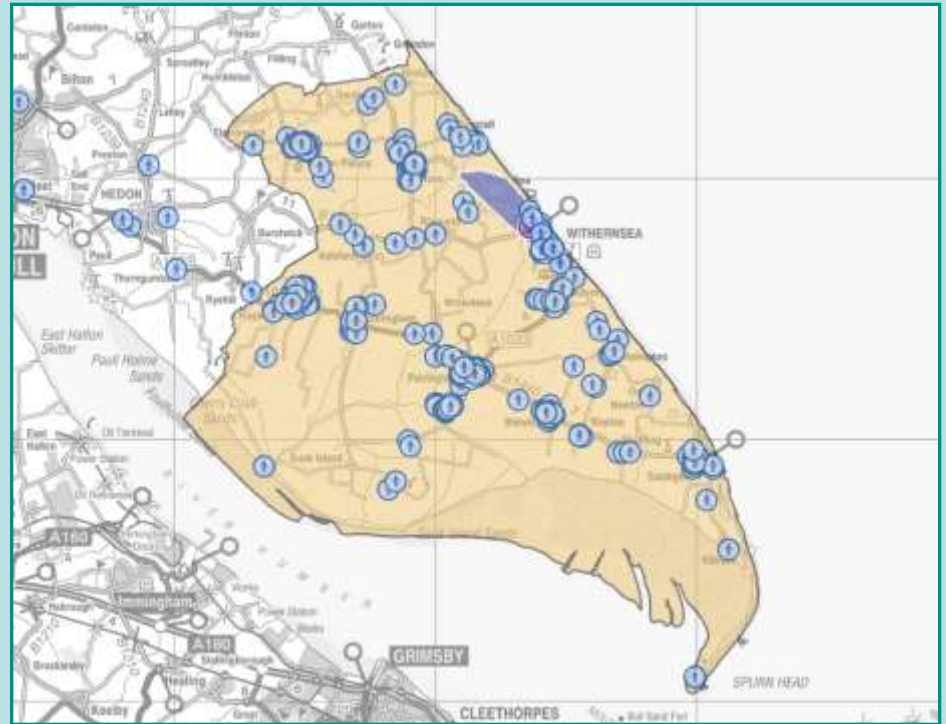


Withernsea School: Before and After

- 550 pupils using 14 school buses

After optimisation?

- **11 buses**
- **Savings of \$1.4m in 3 year contract**
- Reduction in Carbon Footprint by **5.1 tonnes CO₂**



EAST RIDING
OF YORKSHIRE COUNCIL



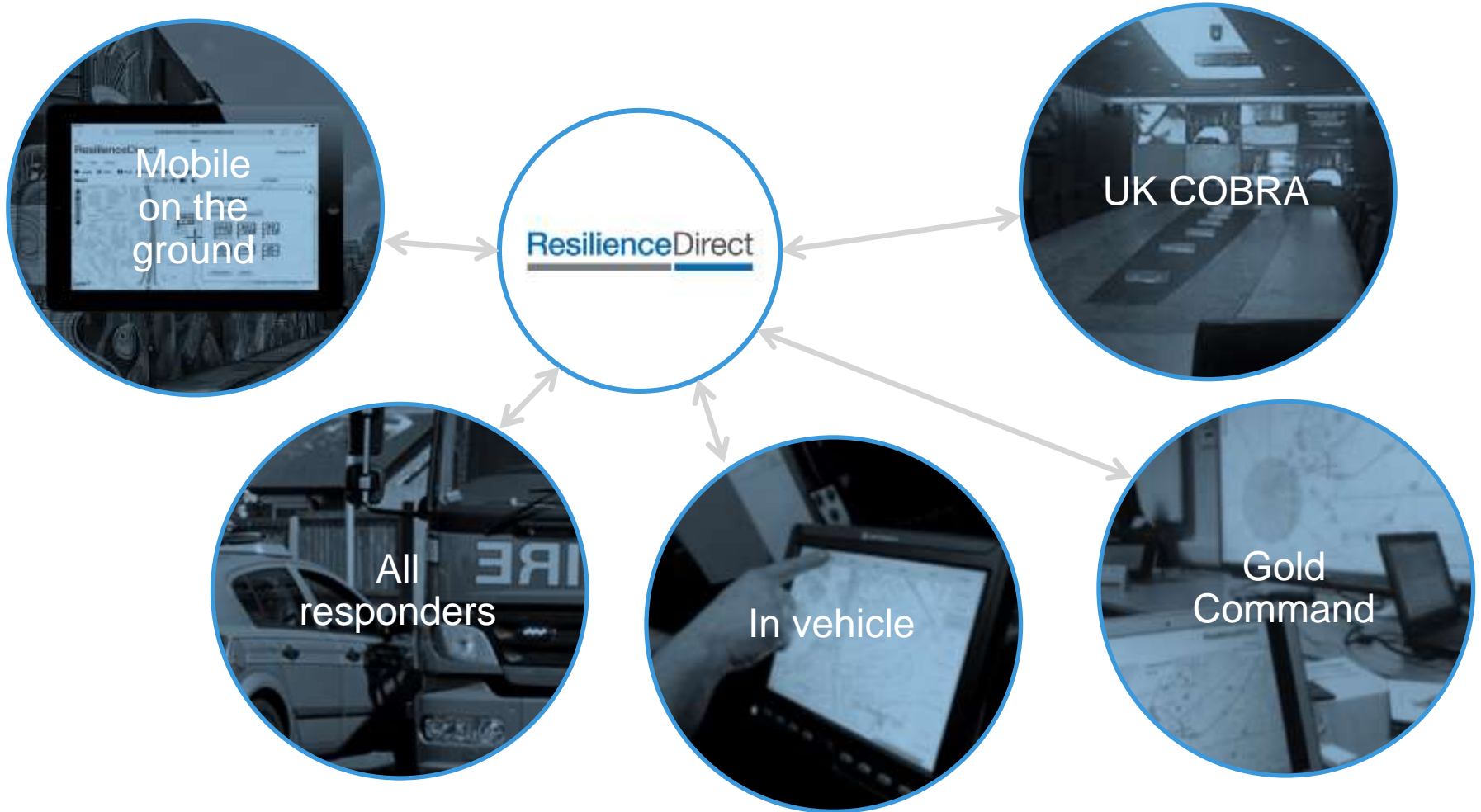
Ordnance
Survey



esri UK

Resilience Direct

Everyone seeing the same information at the same time



Waste management



12 UK Local Authorities achieving cost savings of **\$5.5m** (£3.8m) per year through optimising their waste management processes

- Saving between 50-120 tonnes each of CO₂ per annum
- Cutting fuel consumption by 12-15%
- Some showing a recycling rate doubled to 65%



Ordnance
Survey

Coordination of utility roadworks

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What's on this map

- Live incidents
- Road closures and diversions
- Traffic restrictions
- Roadworks
- Public events

Date filter:

- Today

[Customise my map](#)

Roadworks, delays possible

16 Feb - 24 Feb
A3211 Upper Thames Street, London, City...

Responsibility for these works

UK Power Networks

Information for Road Users

Location: A3211 Upper Thames Street, London, City Of London

Traffic lights, etc: Some carriageway incursion

Information for Operational Teams

Highway Authority: City of London Corporation

Location: A3211

Description: Network Operations

16:41
16/02/2016

Savings made UK public sector using spatial data



Gloucestershire County Council saves \$3m on tendered bus services



East Riding of Yorkshire saves \$1.5m on school transport



Harrow Council's waste project saves \$4.8m over 10 years



Automated bus pass allocation project saves Liverpool \$75k



The Suffolk Waste Partnership saves St. Edmundsbury \$27k



North Somerset District Council saves \$1m on school transport



Lee Valley Regional Park Authority saves \$150k on grounds maintenance



From 2002, London Borough of Sutton saves \$70k yearly on SEN transport

Economic Benefits of Spatially Connected Government

- Ordnance Survey data underpins **\$113bn** of Great Britain's economy
Source- OXERA

- For every **\$1** spent on address and street spatial data **\$4** is saved

Source-

Geoplace

- Across the 15 most commonly built applications using data from the UK single data framework, research shows that UK local authorities, police forces and fire services are already saving over **\$187 million** every year
- If a majority (75%+) of local authorities and emergency services were to implement just these 15 most popular applications, savings would rise to over **\$0.7 billion** each year.
- **0.2 to 0.6 GDP growth** in UK

Source- Mindmetre 2015



Ordnance Survey International

OS International is a wholly-owned subsidiary of Ordnance Survey (OS) Britain's National Mapping Agency- mapping Great Britain since 1791.

Services ranging from strategy formulation to geodesy, geospatial data capture, to product development and data policies and standards.

We are here to assist organisations to benefit from accurate geographic information (GI) and its multi-million pound potential.

Strategic Member of the Open Geospatial Consortium (OGC)

UK Government owned and vendor neutral



Head office,
UK

Registered
office,
Bahrain

Registered
office,
Abu Dhabi

Registered
office,
Dubai

Registered
office,
Singapore

- Abu Dhabi
- Australia
- Bahrain
- Brazil
- Brunei
- Dubai
- Ethiopia
- Hong Kong
- Japan
- Jordan
- Malaysia
- Norway
- Oman
- Philippines
- Rwanda
- Saudi Arabia
- Singapore
- South Africa
- Tanzania
- Thailand
- Vietnam

Ordnance Survey International

Geospatial expertise. Worldwide.



Ordnance
Survey

KEY BENEFITS OF SPATIALLY CONNECTED GOVERNMENT

- Easy exchange of information and open data between organisations and users through single location reference
- Best evidence for best policy creation and optimised (smart) resilience
- Easier interaction with citizens- better public services and happier citizens
- Cost, time and environmental savings

THANK YOU

Please come and meet with us or contact us to find out more about how we could support you?

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twitter [@andydwilson65](https://twitter.com/andydwilson65)



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