THE BEST POLICY (SMART) DECISIONS COME FROM SPATIALLY CONNECTED GOVERNMENT

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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

Apartment
2nd floor left
UPRN1000045230

Apartment
1st floor left
UPRN1000045231

Apartment
2nd floor right
UPRN1000045232

Apartment
1st floor right
UPRN1000045233

Main distribution
Supply
Multi-family residential building
UPRN1000045234
<table>
<thead>
<tr>
<th>Feature Attributes</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>street_description</td>
<td>GERVIS PLACE</td>
</tr>
<tr>
<td>town_name</td>
<td>BOURNEMOUTH</td>
</tr>
<tr>
<td>postcode_locator</td>
<td>BH1 1LG</td>
</tr>
<tr>
<td>descriptiveTerm</td>
<td></td>
</tr>
<tr>
<td>featurecode</td>
<td>10021</td>
</tr>
<tr>
<td>descriptivegroup</td>
<td>Building</td>
</tr>
<tr>
<td>voandattrib</td>
<td>8101000</td>
</tr>
<tr>
<td>primary_description</td>
<td>ADVERTISING RIGHT AND PREMISES</td>
</tr>
<tr>
<td>fulladdress</td>
<td>OUTSIDE 28 (ADSHEL 2201 0444), GERVIS PLACE, BOURNEMOUTH</td>
</tr>
</tbody>
</table>
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

- National Entitlement Card
- Citizens Account
- Smart Metering
- Census
- Fire
- Health
- Environment
- BBC
- Climate Change
- Energy Companies
- Land Registration
- Fire and Rescue
- Planning
- Work and Pensions
- Safety
- Tax and Customs
- Transport
- Vehicle Licensing
- Open Data
- Local Authority
- Police
- Department for Education
- Environment Agency
- Tax
- Births and Deaths
- National Population Index
- Digital Services
- Connect
- Individual Electoral Registration
- Emergency Response
- Home Office
- Schools Admissions
- Flood Risk
Allocation of school places

Connection of utility services

Delivery of social care

Register to vote

Emergency situations

Delivery of packages

Payment of taxes

Quotation for insurance

Collection of waste

Streetworks
Over 10 years, **€360 million** in savings is predicted – based on evidence-based pathfinders and trials.

**€90 million** of savings for families over the next 10 years, resulting from the money saved on fuel or parking charges.
### Homes Energy Efficiency Database
- Information on energy efficiency measures installed (primarily through Gov’t schemes)
- All UK
- From Energy Saving Trust

### Valuation Office Agency
- Collected to inform council tax band
- Data for all properties in England and Wales
- Physical attributes: age of property, type of property etc

### Energy Suppliers
- Meter point gas and electricity consumption data (kWh)
- All meters in Great Britain
- From energy suppliers administrative systems

### HEED
- Energy efficiency measures

### AddressBase
- Unique property reference

### VOA
- Property attributes

### Experian
- Household characteristics

### Experian
- Commercial data about householders
- Modelled value for each property
- Leased for all UK properties

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**THE SPINE**
Wales-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 €1.3m in 3 year contract
• Reduction in Carbon Footprint by 5.1 tonnes CO₂
Resilience Direct

Everyone seeing the same information at the same time
Waste management

- 12 UK Local Authorities achieving cost savings of €5m 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%.
Coordination of utility roadworks

Insert protective marking – see QSP 032
Savings made UK public sector using spatial data

- Gloucestershire County Council saves €2.7m on tendered bus services
- East Riding of Yorkshire saves €1.3m on school transport
- Harrow Council’s waste project saves €4.5m over 10 years
- Automated bus pass allocation project saves Liverpool €70k
- The Suffolk Waste Partnership saves St. Edmundsbury €250k
- North Somerset District Council saves €0.9m on school transport
- Lee Valley Regional Park Authority saves €135k on grounds maintenance
- From 2002, London Borough of Sutton saves €45k yearly on SEN transport

Gloucestershire
East Riding of Yorkshire
Harrow
Liverpool
Automated
Harrow Council's
Waste Project
Harrow Council
Bus Pass
Allocation
Project
The Suffolk Waste Partnership
North Somerset Council
Lee Valley Regional Park Authority
Sutton
London Borough of Sutton
Ordnance Survey
Survey
Gloucestershire
Suffolk
Soke of York
Harrow
Liverpool
Automated
Bus Pass
Allocation
Project
Suffolk
Waste
Partnership
North Somerset
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North Somerset
Lee Valley
Regional Park Authority
Sutton
London Borough of Sutton
Ordnance Survey
Survey
Economic Benefits of Spatially Connected Government

• For every £1 spent on local authority address and street information £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 €170m 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 €0.65 billion each year.

  Source- Mindmetre 2015
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) delivery

• Easier interaction with citizens- better public services and happier citizens

• Cost, time and environmental savings
At OS International we can bring OS expertise and services to International clients.

Ranging from strategy formulation to geospatial data capture, to product development and marketing.

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)
THANK YOU

Please come and see us on STAND NO 10 or contact us to find out more about how we could support you?

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