Everything Happens Somewhere

Address and street data: a common standard for digital transformation

- Harnessing standardised data
- Providing a platform for interoperability
- Reducing fragmentation
- Using data to make savings
- Service redesign and transformation
- Bringing public services together
GeoPlace is a public sector Limited Liability Partnership (LLP) jointly owned by the Local Government Association and Ordnance Survey.
About GeoPlace LLP

Driving improvement, excellence and innovation through data

GeoPlace's role is to maintain the *National Address Gazetteer* and the *National Street Gazetteer* for England and Wales, providing definitive sources of publicly-owned spatial address and street data.

Formed to meet public and private sector user requirements around a single national address and street data infrastructure.

Provides a vehicle for improvement, transformation and efficiency across Government in the use of location data.
benefits of national data infrastructure

- Harnessing standardised data
- Providing a Platform for interoperability
- Reducing fragmentation
- Using data to make savings
- Service redesign
- Bringing public services together
The problem with addressing

Harley Court
49 The Drive
Flat 1

Harley Court
49 The Drive
Flat 2

Harley Court
49 The Drive
Flat 3 - 8

Harley Court
49 The Drive
Hove
BN3 3JE

- Harley Court
- 49 The Drive
- Flat 1 / Basement / Lower Ground
- Flat 3 / Ground Floor / Garden
- Flat 8 / Penthouse
- Etc, etc, etc
80% of services need an address
In order to support a national address infrastructure

- address and street data managed direct from responsible and statutory source
- all data captured and verified to same British Standard
- Unique Property Reference Number allocated to all addresses (not just postal) at start of the property lifecycle
- each address element has its own UPRN (parent:child hierarchies)
- Unique Street Reference Number allocated to each street and used in the coordination of street works
- close working relationship to all local authority and other data custodians
- feedback mechanisms between data creators and users
The previous address lifecycle

Developer
- Planning Application

Local Authority
- Approved decision
- Street Naming & Numbering
- Development Commences
- Building Control
- Other Council Functions

Royal Mail
- Postcode allocated
- Postcode Address File (PAF)

Ordnance Survey
- Co-ordinate allocated
- AddressPoint

Property Owner
- Address change request

Timeline

PAF End User

Ordnance Survey AddressPoint User
The previous address lifecycle #2

Developer
- Planning Application

Property Owner
- Address change request

Local Authority
- Approved decision
- UPRN, USRN, xy, plot & official address allocated
- Development Commences
- Building Control
- Other Council Functions
- Street Naming & Numbering
- Local Land and Property Gazetteer

Royal Mail
- Postcode allocated
- Postcode Address File (PAF)

Ordnance Survey
- Co-ordinate allocated
- Address Layer

Local Gov Hub
- NSG (USRN)
- VOA (UARN)
- OS
- Integrated into NLPG

Timeline
The address lifecycle now

**Developer**
- Planning Application

**Property Owner**
- Address change request

**Local Authority**
- Approved decision
- Street Naming & Numbering
- UPRN, USRN, xy, plot & official address allocated
- Development Commences
- Building Control
- Other Council Functions

**Royal Mail**
- Postcode allocated
- Postcode Address File (PAF)

**GeoPlace**
- NSG (USRN)
- OS (TOID)
- VOA (UARN)
- PAF (UDPRN)

**Ordnance Survey**
- Ordnance Survey AddressBase End User

**Timeline**
The National Address Gazetteer contains over 40 million addresses. During the creation of the AddressBase® products, GeoPlace synchronises 2,599,000 changes and carries out a total of 3,440 data validation checks.
Monitoring & reporting

**Internal Monitoring Dashboard - Submissions**

- **August 2013**
- NSG Submissions per day and number of LSGs who have passed Submission in Month - June, 2013

**Internal Monitoring Dashboard - Improvement Schedule Overall Levels**

- **July 2013**
- Address Improvement Schedule Overall Level - July, 2013
- Street Improvement Schedule Overall Level - July, 2013

**Turnaround of Change Only Updates**

- **Being Investigated:** 2
- **Suspended:** 46
- **6 Days:** 0
- **5 Days:** 1
- **4 Days:** 6
- **3 Days:** 38
- **2 Days:** 126
- **1 Day:** 183
- **within 24 hrs:** 3672
Local Authorities

- Local authorities are the key component to our data supply
- What we do must have relevance to local authorities
  - The type of data collected
  - The processes and services employed
  - The contractual obligations on us and them
  - The resulting AddressBase products
- Supporting and promoting their work secures the data supply chain
- Contractual basis for data supply and usage
  - Data governance
  - Change management
  - Data quality
A public sector shared service

- Data supplied to the whole of the public sector and commercially
- Drives efficiencies in the capture, maintenance and publishing of address and street information across the public sector
- Provides income stream back to public purse
- Stakeholders responsible for creating this data are also users of the data
benefits of national data infrastructure

- Harnessing standardised data
- Providing a Platform for interoperability
- Reducing fragmentation
- Using data to make savings
- Service redesign
- Bringing public services together
Local authorities in Great Britain create local address and local street databases for their administrative areas which are maintained by the authority Address and Street Custodian through local government’s statutory responsibility to name and number streets.

A

Standardised data
Local authority address and street datasets are built and maintained through national standards and conventions, ensuring interoperability and consistency across data

B

Unique identifiers for linking datasets
Standardised identifiers provide a reliable joined-up view of property and can be used to link data of the same property

C

Making data available
The PSMA is a mechanism for ensuring standardised data are freely available across the whole of the public sector
Providing a Platform for interoperability

A  Wychavon District Council
Single address index

B  Wiltshire County Council
Rationalised services by creating a definitive centralised repository of address and property data

C  Wiltshire County Council
Master index enabling customer information from every department to be linked to a property or geographic location

Sharing information, sharing services
Traditionally, councils had little data on places outside their boundaries which creates a serious problem for sharing services or solving strategic cross-boundary issues such as areas of deprivation and school catchment areas. Data is now available through the PSMA
Reducing fragmentation

A | Co-ordinating activity between delivery teams

Barnsley Metropolitan District Council
Troubled Families programme

London Borough of Hillingdon
Managing the commercial premises at Heathrow

B | Joining up partners

Cambridgeshire County
Social housing tenancy fraud

C | Using the UPRN

Emergency Services collaboration
Multi Agency Incident Transfer (MAIT)
Using data to make savings

A | Providing an evidence base for procurement

- London Borough of Bromley
  Street cleansing contract

B | Underpinning service improvements

- London Borough of Harrow
  Waste and recycling

C | Sharing data to discover discrepancies

- Salford City Council
  Council Tax collection
- Leeds City Council
  Council Tax collections
- Huntingdonshire District Council
  PROW and Non-Domestic Rates
Service redesign

A | Devising services for the benefit of the recipient

Colchester City Council
Efficiencies made in waste management

B | From channel shift to digital by demand

Newport City Council
Understanding customer needs and requirements

C | Focussing on the user rather than the technology

Northumberland County Council
Reporting portal for issues relating to street lighting faults; missed bin collections and potholes.

B | From channel shift to digital by demand

South West Region
Place based approach to integrate local public service organisations
Underpinning one customer journey - right across government:

The availability of local government’s address information through the Public Sector Mapping Agreement in the form of the AddressBase range of products provides a platform for identifying people, linking systems across public sector bodies and obtaining even larger transformation benefits.

Office for National Statistics (ONS)
Her Majesty’s Revenue and Customs (HMRC)
Department for Work & Pensions (DWP)
Health and Safety labs (HSL)
The Department for Energy and Climate Change (DECC)
OFCOM
OFGEM
DVLA
HS2
Environment Agency
DEFRA RPA
Emergency Services
Healthcare NHS
Government Investment in the LLPG/LSG over the period 2010-5 has yielded a net benefit of approximately £86m in savings from reduced data duplication and integration, improved tax revenues, channel shift and route optimisation in waste management.

Future net benefits from the same applications are likely to be in the region of £200m over the next 5 years based on the current rates of adoption, this represents a Return on Investment of 4:1 (cost-benefit ratio) after discounting.

The return could be significantly higher if barriers to adoption, particularly access to funds, staff retention and improved national collaboration are reduced. This we estimate could be worth at least £20m over the next 5 years.
Thank you for listening

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