

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

GeoPlace is a public sector Limited Liability Partnership (LLP) jointly owned by the Local Government Association and Ordnance Survey



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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

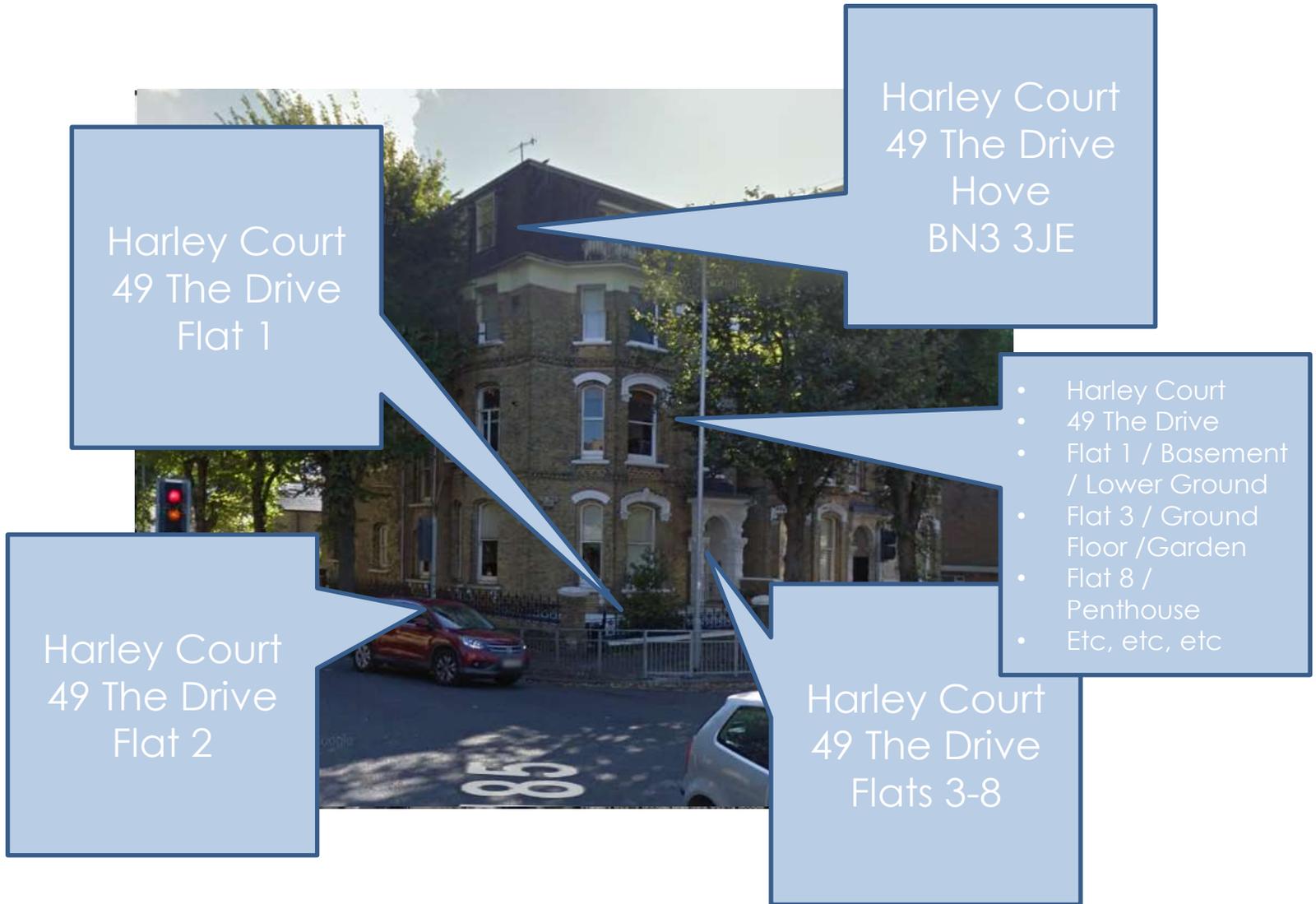


Service redesign



Bringing public services together

The problem with addressing



80% of services need an address

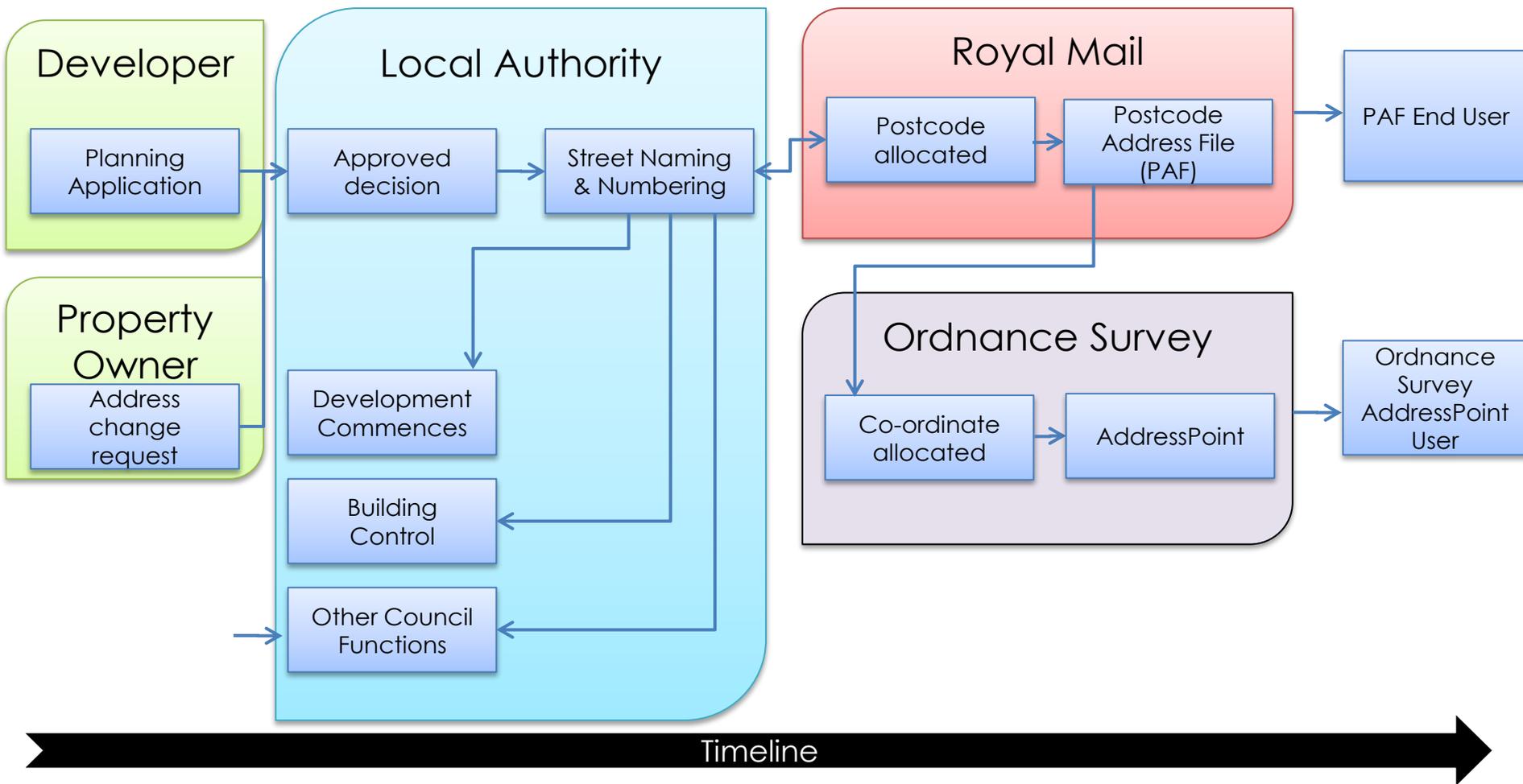


Getting the process right

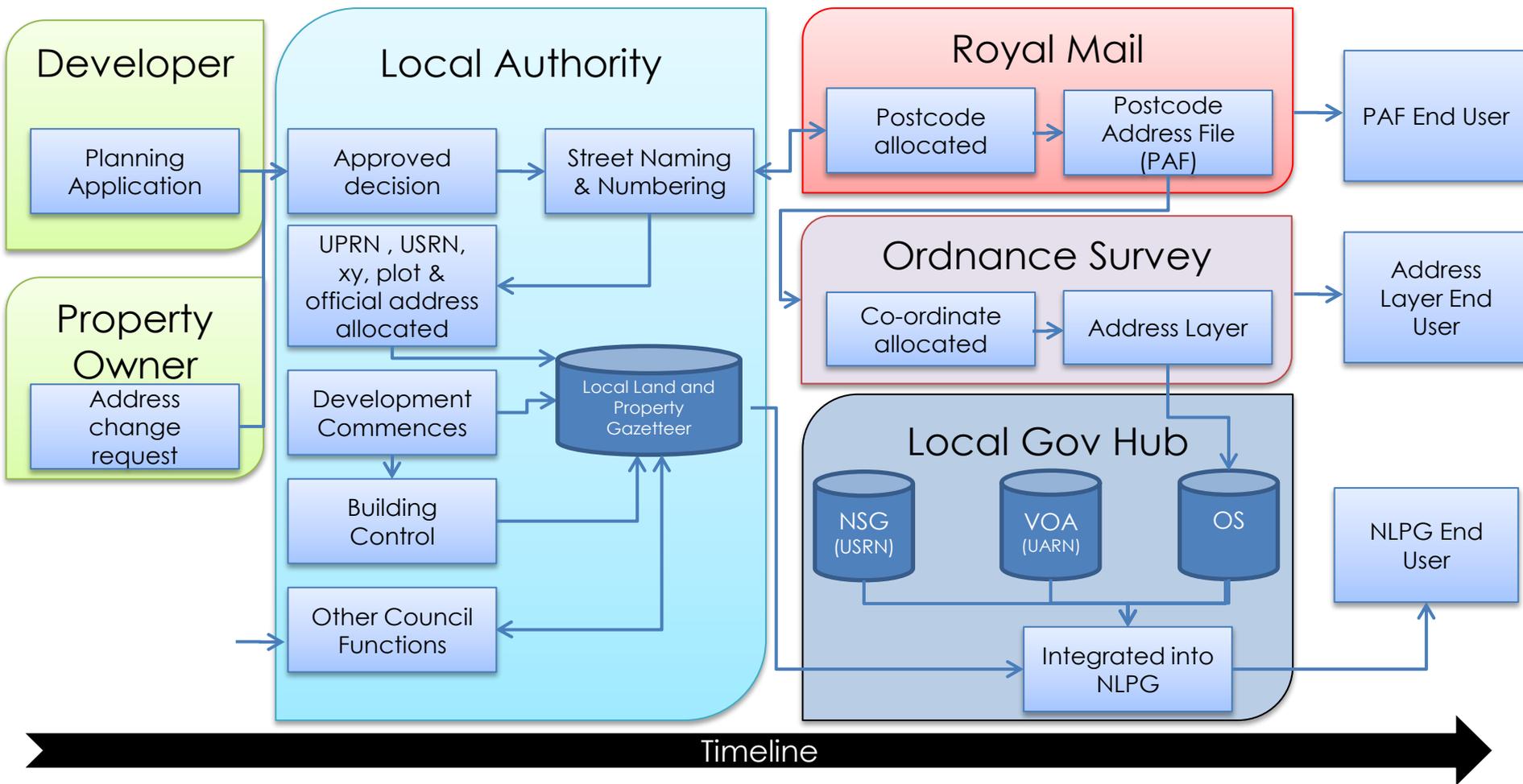
In order to support a national address infrastructure

- 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

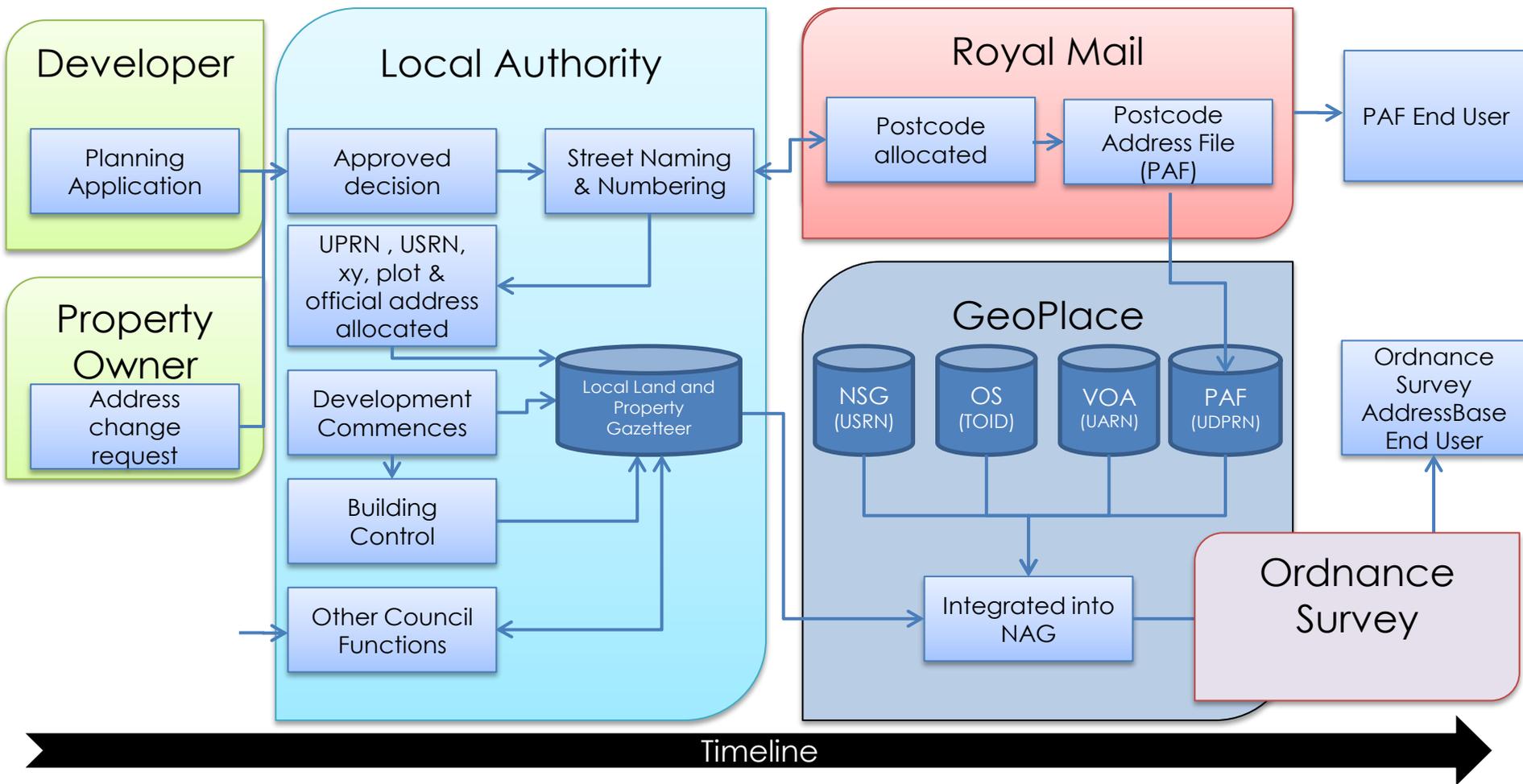
The previous address lifecycle



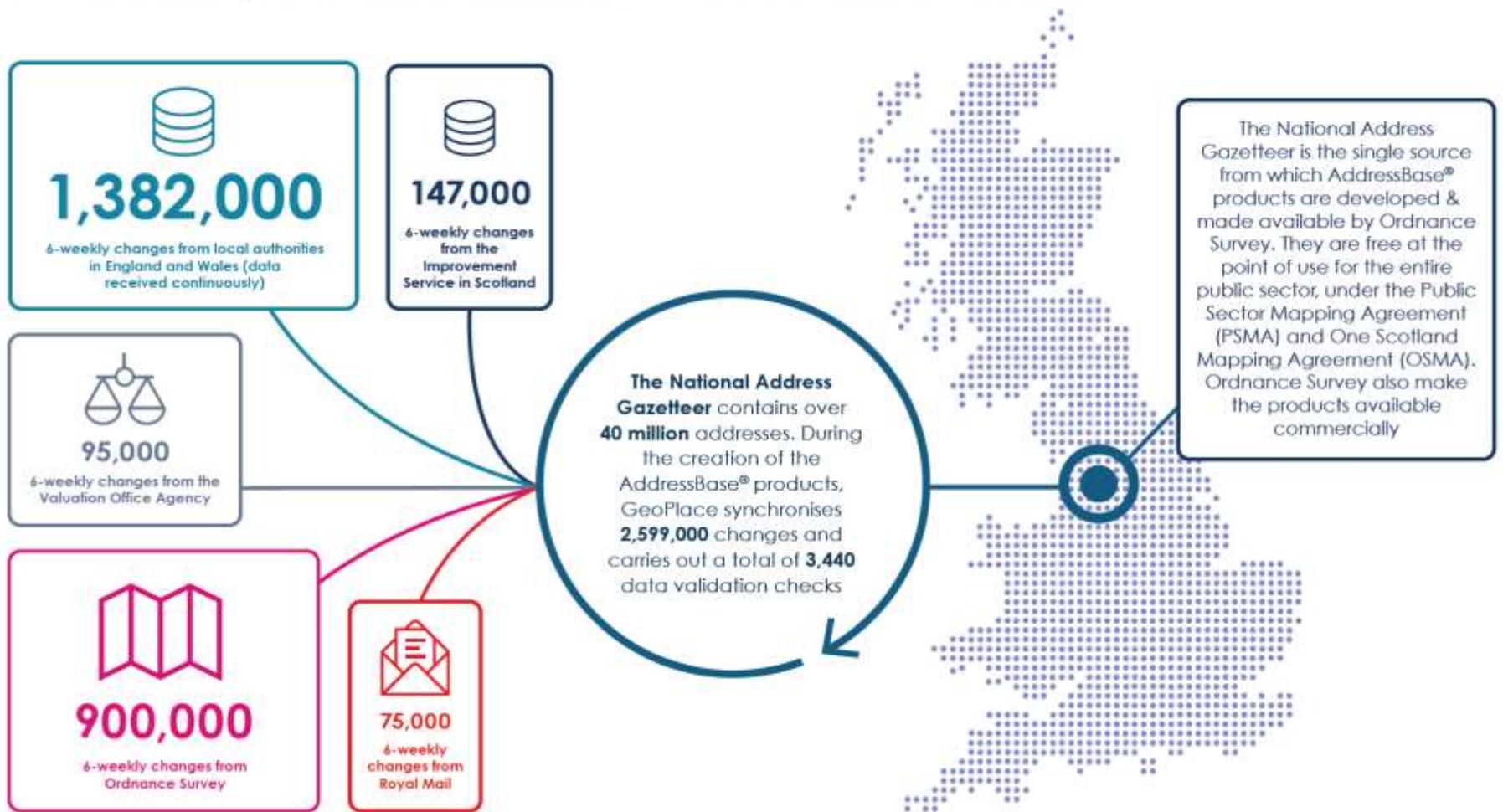
The previous address lifecycle #2



The address lifecycle now



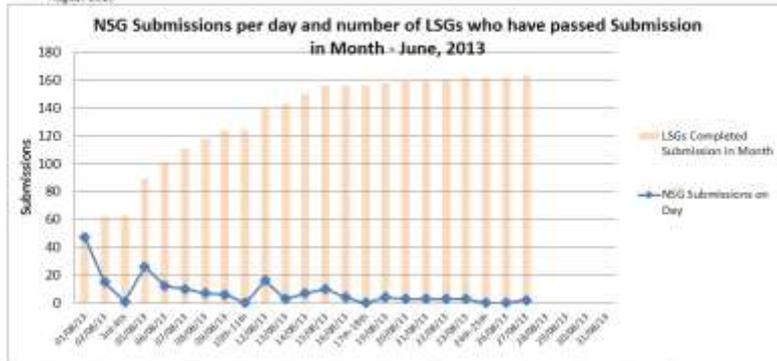
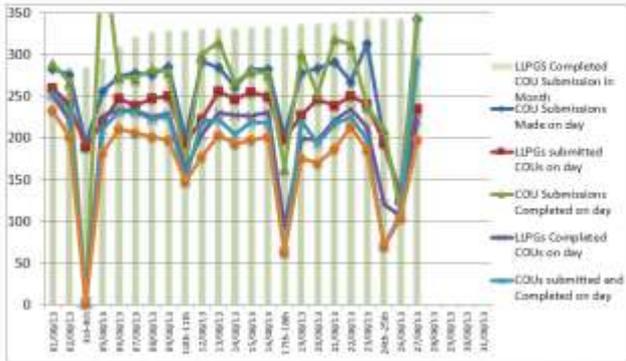
The scale of the operation



Monitoring & reporting

Internal Monitoring Dashboard - Submissions

August 2013



	08/01/12	02/01/13	04/01/13	06/01/13	08/01/13	10/01/13	12/01/13	02/01/14	04/01/14	06/01/14	08/01/14	10/01/14	12/01/14	02/01/15	04/01/15	06/01/15	08/01/15	10/01/15	12/01/15	02/01/16	04/01/16	06/01/16	08/01/16	10/01/16	12/01/16	02/01/17	04/01/17	06/01/17	08/01/17	10/01/17	12/01/17	02/01/18	04/01/18	06/01/18	08/01/18	10/01/18	12/01/18	02/01/19	04/01/19	06/01/19	08/01/19	10/01/19	12/01/19	02/01/20	04/01/20	06/01/20	08/01/20	10/01/20	12/01/20	02/01/21	04/01/21	06/01/21	08/01/21	10/01/21	12/01/21	02/01/22	04/01/22	06/01/22	08/01/22	10/01/22	12/01/22	02/01/23	04/01/23	06/01/23	08/01/23	10/01/23	12/01/23	02/01/24	04/01/24	06/01/24	08/01/24	10/01/24	12/01/24	02/01/25	04/01/25	06/01/25	08/01/25	10/01/25	12/01/25	02/01/26	04/01/26	06/01/26	08/01/26	10/01/26	12/01/26	02/01/27	04/01/27	06/01/27	08/01/27	10/01/27	12/01/27	02/01/28	04/01/28	06/01/28	08/01/28	10/01/28	12/01/28	02/01/29	04/01/29	06/01/29	08/01/29	10/01/29	12/01/29	02/01/30	04/01/30	06/01/30	08/01/30	10/01/30	12/01/30	02/01/31	04/01/31	06/01/31	08/01/31	10/01/31	12/01/31	02/01/32	04/01/32	06/01/32	08/01/32	10/01/32	12/01/32	02/01/33	04/01/33	06/01/33	08/01/33	10/01/33	12/01/33	02/01/34	04/01/34	06/01/34	08/01/34	10/01/34	12/01/34	02/01/35	04/01/35	06/01/35	08/01/35	10/01/35	12/01/35	02/01/36	04/01/36	06/01/36	08/01/36	10/01/36	12/01/36	02/01/37	04/01/37	06/01/37	08/01/37	10/01/37	12/01/37	02/01/38	04/01/38	06/01/38	08/01/38	10/01/38	12/01/38	02/01/39	04/01/39	06/01/39	08/01/39	10/01/39	12/01/39	02/01/40	04/01/40	06/01/40	08/01/40	10/01/40	12/01/40	02/01/41	04/01/41	06/01/41	08/01/41	10/01/41	12/01/41	02/01/42	04/01/42	06/01/42	08/01/42	10/01/42	12/01/42	02/01/43	04/01/43	06/01/43	08/01/43	10/01/43	12/01/43	02/01/44	04/01/44	06/01/44	08/01/44	10/01/44	12/01/44	02/01/45	04/01/45	06/01/45	08/01/45	10/01/45	12/01/45	02/01/46	04/01/46	06/01/46	08/01/46	10/01/46	12/01/46	02/01/47	04/01/47	06/01/47	08/01/47	10/01/47	12/01/47	02/01/48	04/01/48	06/01/48	08/01/48	10/01/48	12/01/48	02/01/49	04/01/49	06/01/49	08/01/49	10/01/49	12/01/49	02/01/50	04/01/50	06/01/50	08/01/50	10/01/50	12/01/50	02/01/51	04/01/51	06/01/51	08/01/51	10/01/51	12/01/51	02/01/52	04/01/52	06/01/52	08/01/52	10/01/52	12/01/52	02/01/53	04/01/53	06/01/53	08/01/53	10/01/53	12/01/53	02/01/54	04/01/54	06/01/54	08/01/54	10/01/54	12/01/54	02/01/55	04/01/55	06/01/55	08/01/55	10/01/55	12/01/55	02/01/56	04/01/56	06/01/56	08/01/56	10/01/56	12/01/56	02/01/57	04/01/57	06/01/57	08/01/57	10/01/57	12/01/57	02/01/58	04/01/58	06/01/58	08/01/58	10/01/58	12/01/58	02/01/59	04/01/59	06/01/59	08/01/59	10/01/59	12/01/59	02/01/60	04/01/60	06/01/60	08/01/60	10/01/60	12/01/60	02/01/61	04/01/61	06/01/61	08/01/61	10/01/61	12/01/61	02/01/62	04/01/62	06/01/62	08/01/62	10/01/62	12/01/62	02/01/63	04/01/63	06/01/63	08/01/63	10/01/63	12/01/63	02/01/64	04/01/64	06/01/64	08/01/64	10/01/64	12/01/64	02/01/65	04/01/65	06/01/65	08/01/65	10/01/65	12/01/65	02/01/66	04/01/66	06/01/66	08/01/66	10/01/66	12/01/66	02/01/67	04/01/67	06/01/67	08/01/67	10/01/67	12/01/67	02/01/68	04/01/68	06/01/68	08/01/68	10/01/68	12/01/68	02/01/69	04/01/69	06/01/69	08/01/69	10/01/69	12/01/69	02/01/70	04/01/70	06/01/70	08/01/70	10/01/70	12/01/70	02/01/71	04/01/71	06/01/71	08/01/71	10/01/71	12/01/71	02/01/72	04/01/72	06/01/72	08/01/72	10/01/72	12/01/72	02/01/73	04/01/73	06/01/73	08/01/73	10/01/73	12/01/73	02/01/74	04/01/74	06/01/74	08/01/74	10/01/74	12/01/74	02/01/75	04/01/75	06/01/75	08/01/75	10/01/75	12/01/75	02/01/76	04/01/76	06/01/76	08/01/76	10/01/76	12/01/76	02/01/77	04/01/77	06/01/77	08/01/77	10/01/77	12/01/77	02/01/78	04/01/78	06/01/78	08/01/78	10/01/78	12/01/78	02/01/79	04/01/79	06/01/79	08/01/79	10/01/79	12/01/79	02/01/80	04/01/80	06/01/80	08/01/80	10/01/80	12/01/80	02/01/81	04/01/81	06/01/81	08/01/81	10/01/81	12/01/81	02/01/82	04/01/82	06/01/82	08/01/82	10/01/82	12/01/82	02/01/83	04/01/83	06/01/83	08/01/83	10/01/83	12/01/83	02/01/84	04/01/84	06/01/84	08/01/84	10/01/84	12/01/84	02/01/85	04/01/85	06/01/85	08/01/85	10/01/85	12/01/85	02/01/86	04/01/86	06/01/86	08/01/86	10/01/86	12/01/86	02/01/87	04/01/87	06/01/87	08/01/87	10/01/87	12/01/87	02/01/88	04/01/88	06/01/88	08/01/88	10/01/88	12/01/88	02/01/89	04/01/89	06/01/89	08/01/89	10/01/89	12/01/89	02/01/90	04/01/90	06/01/90	08/01/90	10/01/90	12/01/90	02/01/91	04/01/91	06/01/91	08/01/91	10/01/91	12/01/91	02/01/92	04/01/92	06/01/92	08/01/92	10/01/92	12/01/92	02/01/93	04/01/93	06/01/93	08/01/93	10/01/93	12/01/93	02/01/94	04/01/94	06/01/94	08/01/94	10/01/94	12/01/94	02/01/95	04/01/95	06/01/95	08/01/95	10/01/95	12/01/95	02/01/96	04/01/96	06/01/96	08/01/96	10/01/96	12/01/96	02/01/97	04/01/97	06/01/97	08/01/97	10/01/97	12/01/97	02/01/98	04/01/98	06/01/98	08/01/98	10/01/98	12/01/98	02/01/99	04/01/99	06/01/99	08/01/99	10/01/99	12/01/99	02/01/100	04/01/100	06/01/100	08/01/100	10/01/100	12/01/100	02/01/101	04/01/101	06/01/101	08/01/101	10/01/101	12/01/101	02/01/102	04/01/102	06/01/102	08/01/102	10/01/102	12/01/102	02/01/103	04/01/103	06/01/103	08/01/103	10/01/103	12/01/103	02/01/104	04/01/104	06/01/104	08/01/104	10/01/104	12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Our relationship with data providers

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



Harnessing standardised data

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

D

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

Huntingdonshire District Council
PROW and Non-Domestic Rates

Leeds City Council
Council Tax collections

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

Local benefits of national data infrastructure

Cost benefit study conducted by Consulting Where with input from Alan Smart

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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