

Address data essentials: Why UPRNs matter

(Unique Property Reference Numbers)

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GeoPlace

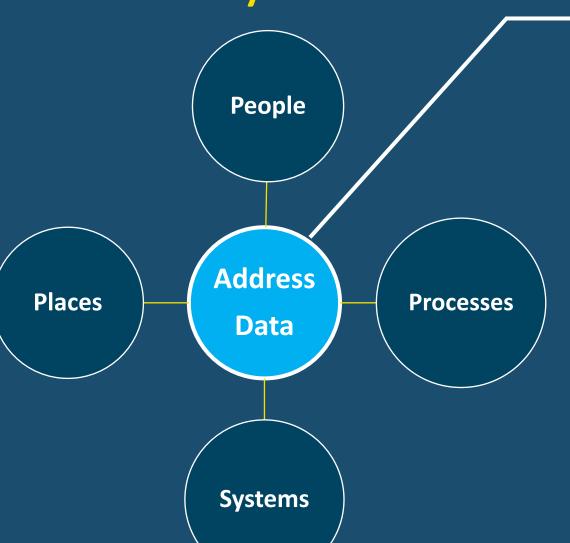
The misconception



57 Pennine Avenue Hill Street Alfreton DE55 4AE



The reality



"Everything happens somewhere"

Location is ubiquitous



"Precise location information is essential for councils to deliver services to the residents they serve."

"The Unique Property Reference Number — the unique identifier for every addressable location — is key to almost everything that's delivered or achieved by councils."



47,701,684

Addressable locations in GB

Underpin

>800

Local government services



Who are Compare and verify source data. OS MasterMap OS Surveyors Change intelligence Care Quality Commission and Care Inspectorate Wales GeoPlace? NAPTAN **EDUBASE** Link and synchronise HM Land Registry Price Paid Data with AddressBase Energy Performance of Buildings Data England & Wales EPC Data General Pharmaceutical Register Roval Mail Department of Work and Pensions 32,142,833 records, Food Standards Agency 99.12% of PAF linked to UPRNs Student Source Limited VOA Data from various Gaming Commission is. 27,262,967 CTax records, sources in different HM Prison and Probation Service 99.91% & 2,124,069 & NDR formats and frequencies. linked and x-ref 96.38% NHS Digital Analyse Link Load GeoPlace Northern Ireland loaded every week Northern Ireland loaded every week Over the last 12 months there were 80,284 updates 47,701,684 Isle of Man: loaded every week Over the last 12 months there were 3,243 updates 88 UPRNs in AddressBase Premium and Islands 900 1 Channel Islands: loaded every day. Over the last 12 months there were 25,598 updates Streets and USRNs in OS MasterMap Highways Network

1,703,161

1,703,161

A street and USRNs in OS MasterMap Highways Network

1,703,161

A street and USRNs in OS MasterMap And Street And PNF - Daily thangefile, average 3,500 updates -**Validate** Enrich & **Publish** Transform Checks run on source AddressBase® Valuation Office Agency data, transformed data Address Base® Core Use source data validated on export. AddressBase® Plus attributes to enhance product quality AddressBase® Premium Address Data AddressBase® Islands 364 checks on each file received Coordinates from OS from a local authority Address Base Incremental Change Supply (ABICS) Streets Data Postcodes from Royal Mail 824 checks on each submission NSG publication 6.992 million OS MasterMap NAG Data Classifications from VOA Highways Network 1857 assurance checks on 3.82 million product before delivery to OS OS Open UPRN OS Open USRN OS NGD OS APIs, including OS Places





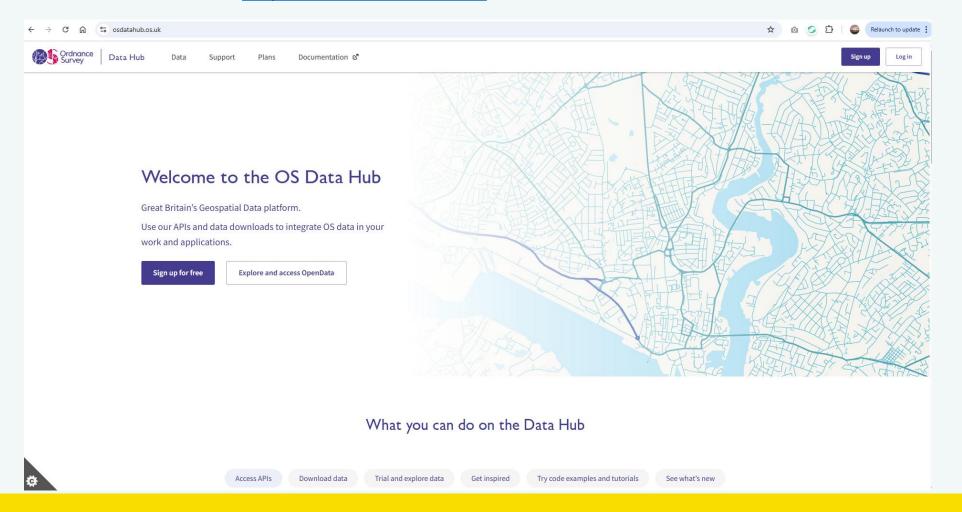
You already have it

Public Sector organisations have full access under the PSGA

(Public Sector Geospatial Agreement)

The PSGA: A gateway to a wealth of data...Address Data!

OS DataHub: https://osdatahub.os.uk/





OS Address data products

- NGD Address
- OS Places API
- AddressBase Premium
- AddressBase Plus
- AddressBase Core
- AddressBase

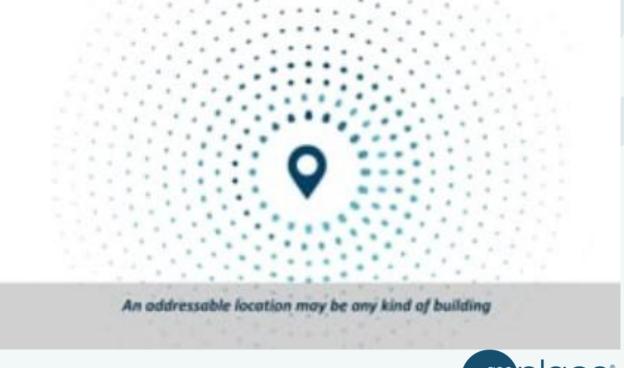
Click for OS Addressing portfolio



The Unique Property Reference Number

e.g. 10033625525 (or even 104)

- Unique identifier
- Represents the building or property
- Persistent throughout the whole lifecycle
- Well managed
- Openly available
- Mandated by government





When should you use UPRNs?

Anywhere an address is used



Opportunity to use the UPRN*



Better outcomes



Why UPRNs matter?

Proven ability to deliver better outcomes:

- 1 Accuracy: in recording & communicating property information
- 2 Understanding: of properties & where they are located
- 3 Insights: through connectivity

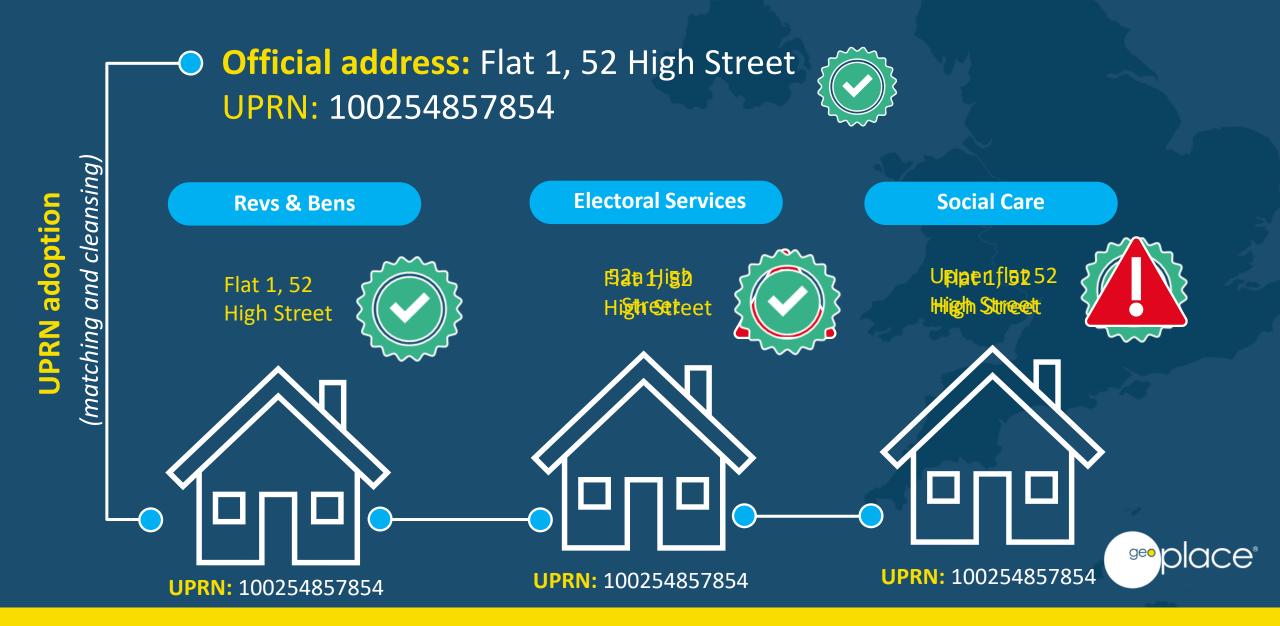


1 Accuracy: In recording & communicating property information



Accuracy you can rely upon **Accuracy Definitive sources Street Naming &** Numbering, Governance People Consistency VOA, PAF **Elected LG BS7666** Representatives Data Entry Conventions **Address** (DEC) **Address** Technology Systems Data Data **Currency Validity** Daily updates Over 1800+ Inserts, Updates validation checks Deletes **Uniqueness Processes Unique Property** Reference Number **UPRN** geo place https://www.ibm.com/topics/data-reliability

Rapid communication and identification of properties



2 Understanding: of properties & where they are located



Rich attribution

Authority

Birmingham



Coordinates

404175, 282227

USRN

37010558

Lifecycle

Pre-construction / Under construction / Complete / Unoccupiable / unusable derelict / No longer existing

UPRN

100070466080

Address

22 Oak Tree Lane Selly Oak Birmingham B29 6HX

Alternative Name

Forest Lodge

Classification (579)

Residential, Dwelling,
Detached house (RD02)

Organisation Name Null

Start Date

2024/03/12



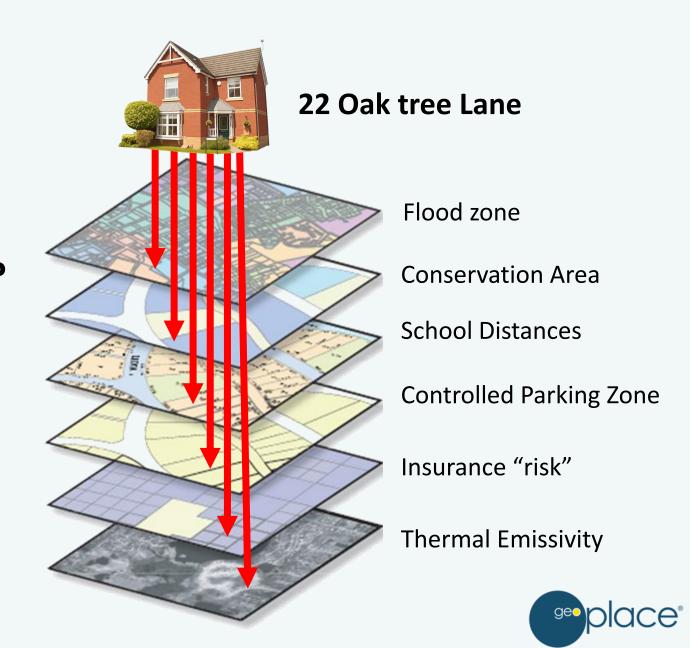
Location intelligence

Where is..?

What is the nearest / How far..?

Is it within..?

How do I get there..?



UPRN Linked data OS National Geographic Database



https://www.ordnancesurvey.co.uk/products/os-ngd

- Basement Presence
- Basement Presence Self Contained
- Building Access Location
- Building Age Period
- Building Age Year
- Building Height
- Construction Material
- Description
- •Green Roof Presence
- Number of Floors
- Physical State
- •Roof Aspect
- Roof Material
- •Roof Shape
- Solar Panel Presence
- Third Party Provenance



3 Insights: through connectivity





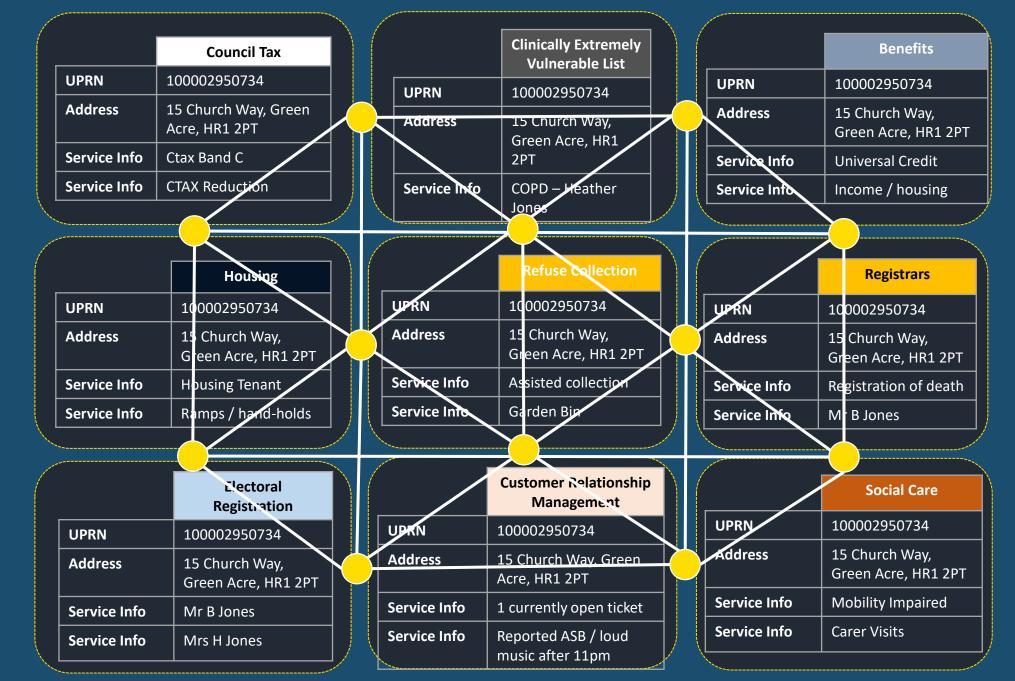
The UPRN is the **most** effective tool for gaining insights across the public sector

Show me everything we know in the organisation about

UPRN 10033625525 15 Church Way, Green Acre HR1 2PT



Linking with the UPRN creates intelligence

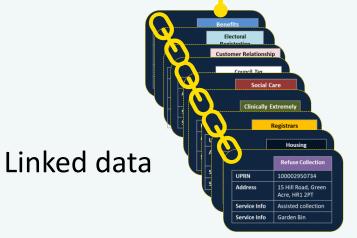


Creating a foundation for data-driven decision making

15 Church Way, Green Acre HR1 2PT

UPRN: 10033625525





Centralised service information

Mr B Jones & Mrs H Jones

Mobility Impaired & Carers required

COPD – Mrs H Jones

Housing tenant – Ramps / hand holds

CTAX Reduction, Ctax Band C

Universal Credit (Income / Housing)

Assisted bin collection

Reported ASB in vicinity

Registration of Death (Mr B Jones)

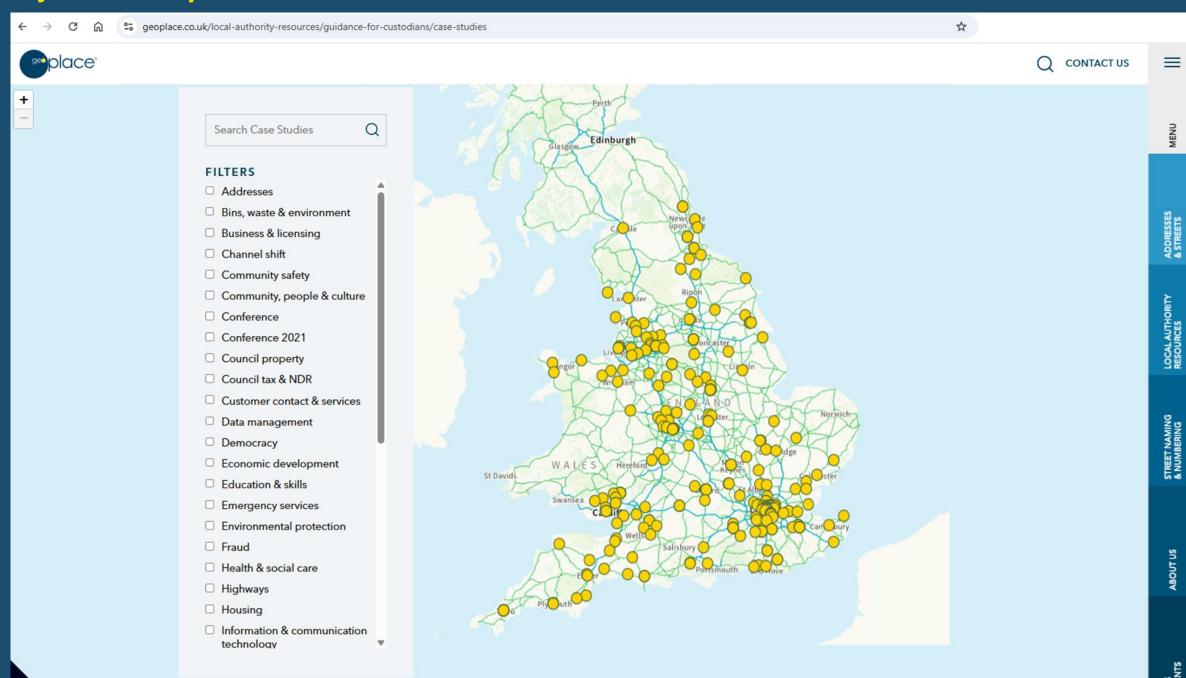


Empirical evidence base

- Risk
- Fraud
- Intelligence



Don't just take my word for it on the better outcomes.....



Return on Investment



Adoption and further utilisation of Address and Street data:

Up to £384m savings between 2022-2026

- Waste Management
- Highways Asset Management
- Adult social care
- Education
- Planning
- Environmental Health

https://www.geoplace.co.uk/local-authority-resources/guidance-for-custodians/roi-analysis-2022



How to adopt a "UPRN first" approach





People — Awareness, benefits and buy-in

Individual report on how well an authority is using address

data and its UPRN

- Breaks usage down across **12 Key service areas**:
 - Building control
 - Council tax
 - CRM
 - Education management Refuse collection
 - Electoral registration Social care (Adult)
 - Environmental health

- Housing
- Land charges
- Planning

- Social care (Children's)
- Highlights case studies and benefits for each
- Emphasis on how to improve and resources

Communications@geoplace.co.uk



Your service scorecard - Performance

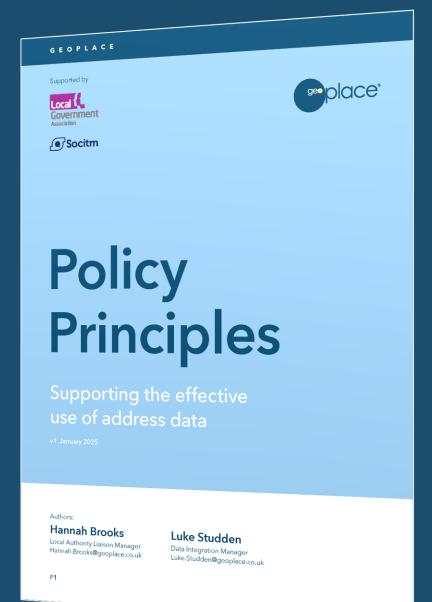


Looking at each service area individually

- 5 services are below the national average and are not utilising address data in an effective way. The below services require attention to ensure you are obtaining the full benefits as

	INTEGRATION MEASURES				
SERVICE AREA	RELIANCE on the UPRN	CURRENCY of Address Data	METHOD of Update	INTEGRATION SCORE (Max 10)	COMPARED TO SERVICE'S NATIONAL AVERAGE
CRM	0	5	0	1.7/10	Below (7.3)
Housing	0	5	0	1.7/10	A Below (5.4)
Environmental health	0	8	9	5.7/ 10	A Below (7.8)
Social care (children's)	0	3	9	4 /10	Below (5.2)
Social care (adult)	0	3	9	4 /10	A Below (5.2)
Refuse collection	10	9	5	8 /10	Above (7.6)
Education management	5	8	9	7.3/ <mark>10</mark>	Ø Above (5.9)
Planning	10	10	10	10 /10	Above (8.5)
Land charges	10	10	10	10 / <mark>10</mark>	Above (8.3)
Building control	10	10	10	10 / <mark>10</mark>	Above (8.2)
Electoral registration	10	9	9	9.3/ <mark>10</mark>	Above (6.7)
Council tax	10	9	5	8 / 10	Above (4.2)
			- 5 -		

Processes – Policy as a tool for adoption













https://www.geoplace.co.uk/local-authority-resources/how-to/policy-principles



Systems – Establishing what is possible



No.	Question
1	What address data products can the system work with? For example Local Land & Property Gazetteer (LLPG), OS AddressBase products or the OS National Geographic Database (NGD) Address theme?
2	Instead of using file-based datasets mentioned above, can the system utilise an API such as the <u>Ordnance Survey Places API</u> to consume address data?
3	If file-based sources can only be used, does the system have an import utility to load the data?
3a	(If yes to Q3) Is this import utility included as standard or would it need to be purchased?
4	What is the highest frequency address data can be loaded e.g. daily, weekly?
5	Can address updates be scheduled to run automatically or is it a manual process?

6	Does the system allow users to manually enter in an address if they cannot find it in the address lookup?
6a	(if Yes to Q6) For an address which has been manually entered, is it possible to retrospectively update this with its actual UPRN if one is assigned?
6b	(if Yes to Q6) If the above is possible, is this an automated update process or is this manually done by the user on a case-by-case basis?
6c	(if Yes to Q6) If a property has been manually entered but is subsequently loaded and appears in the address lookup, is there a process to de-duplicate
	or merge these entries to avoid duplication and incorrect logging by users?
7	

Key points

1. Discover more www.geoplace.co.uk

2. UPRNs matter because they can improve:

1 Accuracy

2 Understanding

3 Insights

Better outcomes

3. We are here to help: support@geoplace.co.uk



"UPRNs in practice - access, use and apply address data"

Thursday 4th December 09:15-10:30



Sign up here





Thank you

Questions

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