Data linking and connectivity across the public sector

The value of Unique Property Reference Numbers (UPRNs) in data linking and connectivity

Nick Chapallaz, Managing Director, GeoPlace LLP March 2022



Objectives

- To demonstrate and explore value of UPRNs and associated address reference data as
 - Essential enablers
 - Core to data improvement, accuracy and consistency
 - A common language for linking
- Connecting disparate processes and datasets to provide insights and support analysis and increase efficiency
- Grow knowledge, stimulate ideas and share



GeoPlace – Agenda

- Nick Chapallaz, Managing Director, GeoPlace LLP
- Luke Studden, Data Integration and Development Manager, GeoPlace LLP
- Riley Marsden, Business Intelligence Technical Solutions Lead, Mark D Wood, Business Intelligence Technical Advisor, Barnsley Metropolitan Borough Council
- Tony Bracey, Head of Programmes, Community Safety Division, Welsh Government
- Marc Adams, Senior Analyst, National Audit Office
- Jonathan Simmons, Head of Data Management and Data Science, Ordnance Survey
- Open Q&A panel 15 mins



UPRN (and USRN) definition

The **Unique Property Reference Number (UPRN)** is the unique identifier for every addressable entity in the UK

The **Unique Street Reference Number (USRN)** is the unique identifier for every street in the UK

- Unambiguous and persistent
- The means to link, share and locate land and property with accuracy and confidence
- Compare Bank Account number, National Insurance Number, Telephone number
- Machine readable

Key milestones in 2020

- UPRN and USRN and related geometry became Open
- Open Standards Board board via Government Digital Service mandated use of UPRN and USRN by government
- Public Sector Geospatial Agreement (PSGA) included AddressBase and OS Places API



GeoPlace vision

A world in which everyone benefits from the power of location data

GeoPlace mission

To excel in delivering street and addressing data that inspires innovation and transforms people's lives.





GeoPlace data workflow – the 'engine room' of UPRNs and USRNs

Authoritative named and numbered street and address data with UPRN/USRN and location UK local authorities.

A workforce of over 600 data experts.

Compare and verify source data. OS MasterMap OS Surveyors Change intelligence Care Quality Commission and Care Inspectorate Wales NAPTAN Link and synchronise with **HM Land Registry** Data from various AddressBase, and with data Price Paid Data sources in different from Royal Mail, the Valuation **Energy Performance of Buildings** formats and frequencies. Office Agency and others. Data England & Wales EPC Data 1.5m USRNs Link Analyse Load GeoPlace 42.8m Northern Ireland: 11 files/week, c.2,275 updates 888 Isle of Man: One file each quarter with c.1,150 updates Streets in OS MM Highways Network annel Islands: Two files every 6 week 38.7m UPRNs 1.3m 0 Validate Enrich & Publish Transform Checks run on source AddressBase® data, transformed data AddressBase® 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 Match co-ordinates AddressBase Incremental Streets Data to MasterMap TOIDs Change Supply (ABICS) 550 checks on each submission Average 20,000 every 6 weeks NSG publication NAG Data Postcodes from PAF OS MasterMap 1480 assurance checks Average 5.6 Million Highways Network Validate lifecycle OS Open UPRN and classifications OS Open USRN

Ordnance Survey

Enrichment - 36 additional third party data providers added during 20/21

528 data providers

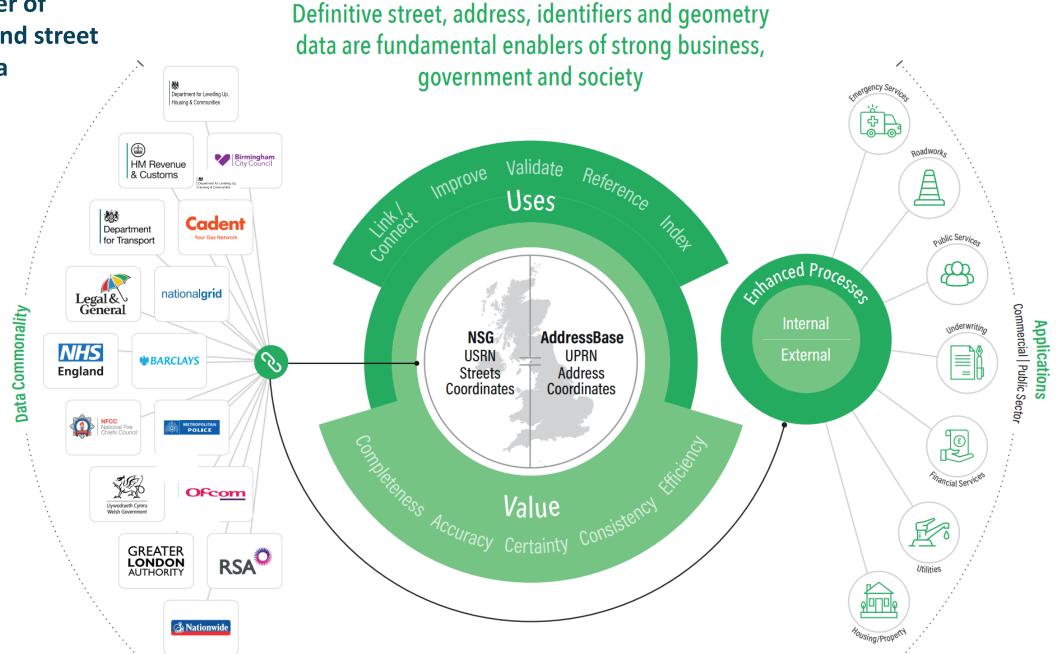
GeoPlace Core business processes

Product output



The linking power of UPRNs, USRNs and street

and address data





Society, business and government rely on what we do







































































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Adoption of our data is growing across government and other sectors all the time

























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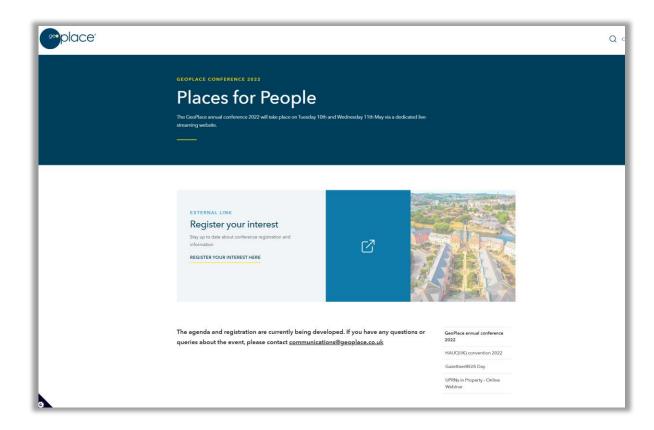
Government







GeoPlace Conference – 10th and 11th May 2022



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- https://www.geoplace.co.uk/news-events/events/conference
- Confirmed speakers from:

























