



Overview

- Discuss scope of infrastructure
- Make the case for investment in data quality
- A bit about why what we do and our experiences is relevant
- Open UPRN, USRN and announcement
- COVID responses
- Relate our knowledge of managing data and improving quality

Defining (organisational) infrastructure

Systems, protocols, and processes that give an organisation structure, support its key functions, embed consistent practices and enable it to deliver its aims and objectives.

Aims and objectives

- Clarity Contractual, legislative, stakeholders inc. community
- Scale Task project organisation



Context of objectives

Everything happens somewhere

Local government is defined by geography - the populations, services, networks, economy, environment and processes within it.

Streets and addresses are foundation infrastructure.

Infrastructure – Digital scope

- **Processes** operations to deliver objectives / outcomes
- Data to match processes and arguably our most valuable asset
- Software to most effectively operate processes and manage data
- Technology infrastructure to reliably run and scale operations to meet changing needs
- **People** skills, capacity and commitment / attitudes

"In God we trust; all others must bring data." - Prof. Williams Edward Denning 1900-93



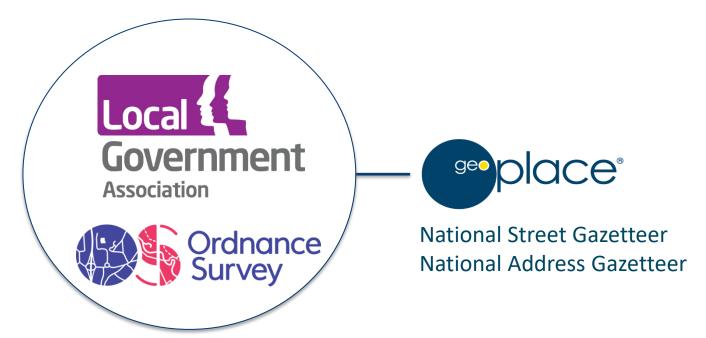
The origins of GeoPlace – a Joint Venture partnership Regarded as national infrastructure

Parliamentary Under-Secretary of State for Communities and Local Government (Robert Neill)

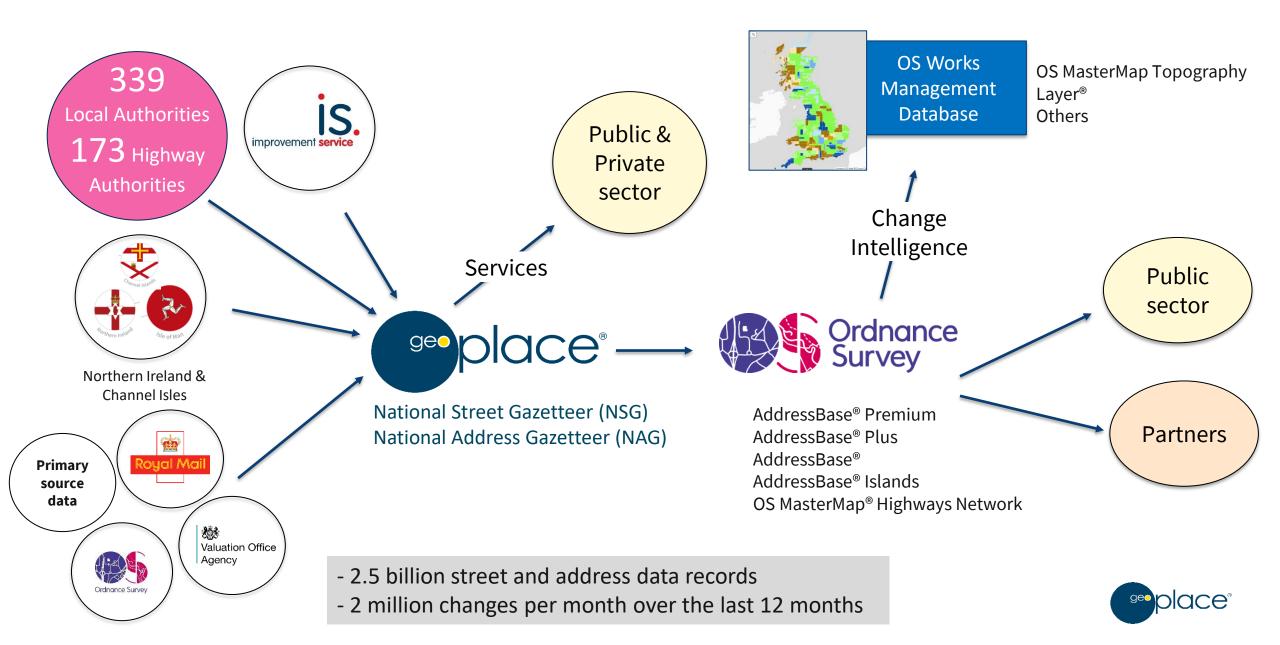
...Government are today announcing they will bring together publicly owned address information for England and Wales from Ordnance Survey and local authorities to create a "national address gazetteer database", providing one definitive source of accurate spatial address data.

To deliver this, an agreement has been reached to set up a joint venture between Ordnance Survey and the local government group to create a single source of address data. Having just **one database will remove duplication and inefficient processes** in the public sector and will provide a **better quality of information for all users**.

UK Parliament 2nd December 2010



Trusted, established and successful street and address data flow



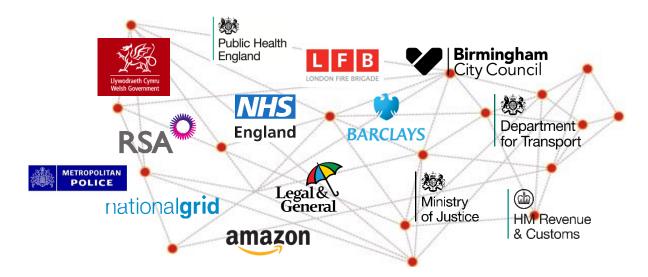
Unique referencing provides a 'golden thread' to connect organisations, decisions and processes

The **Unique Property Reference Number (UPRN)** is the unique identifier for every location with an address in the UK

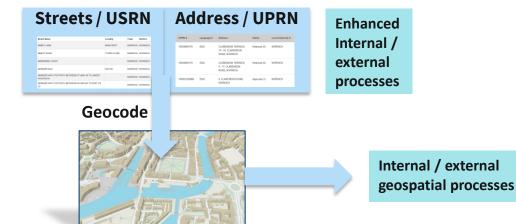
The **Unique Street Reference Number (USRN)** is the unique identifier for every street in the UK

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

Streets, addresses, identifiers and geometry – are fundamental enablers of strong business, government and society



Enhanced Internal / external processes



Value

Accuracy

Consistency

Certainty

Coverage

Efficiency

Common Uses

• Improve

Validate

Link

Reference

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UPRN and USRN and geometry become open from 1st July 2020





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Press release

Geospatial Commission to release core identifiers under Open Government Licence

Unique Property and Street Reference Numbers to become the standard way of referencing and sharing address information about properties and streets across government, helping to transform public services and boost our economy

- UPRN, USRN with X,Y coordinates datasets under Open Government License (OGL)
- Government Digital Service (GDS)
 mandate for use of the UPRN and USRN
 by government

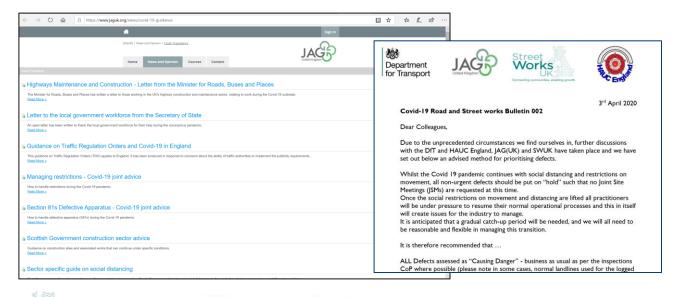
Published 2 April 2020

From: Cabinet Office and Geospatial Commission

















Geospatial Commission

Street Manager Permit Schemes

TROs

PROW

Street works Management

NSG

TROs

Permit Schemes

PROW

Street works
Underground
Assets

OS MM Highways Open policies
Underground assets
Asset management
Fibre to the premise (DCMS)



COVID 19 – local services, vulnerable people, essential supplies, business rates relief

Councils we have heard from:









Confirmed coronavirus cases

Number of cases per 10,000 people

15 - 19 20 or more

London in detail

lote: Isles of Scilly cases combined with Cornwall

urce: UK's national public health agencies, Updated: 26 Apr 16:30 BST





























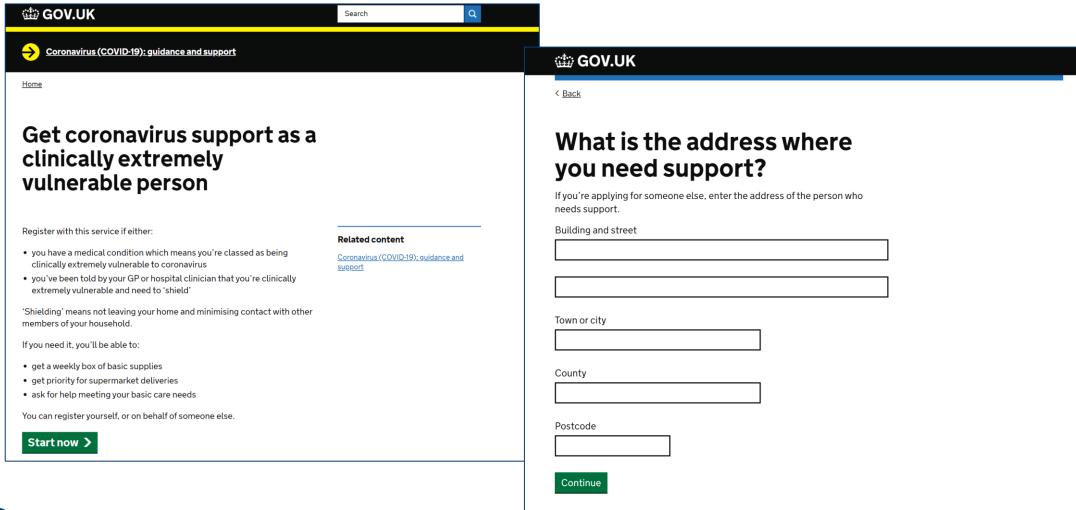








COVID 19 – vulnerable person register, address data management and data quality





COVID 19 – GeoPlace direct engagements

Working hard to ensure UPRNs and USRNs are applied across government





























Example street and address data requests

Definitive lists from originating sources, addresses, UPRNs and coordinates

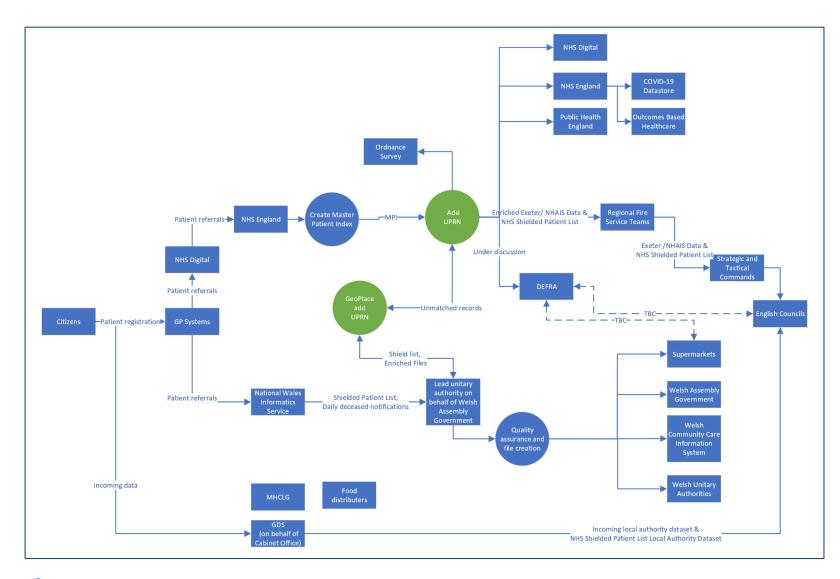
Purpose: Quality improvement through matching for accuracy, completeness, validation, linking/sharing,

- GP surgeries
- Pharmacies
- Hospitals
- Care Homes
- Hospices

- Supermarkets
- Emergency Services
- Utility infrastructure assets
- Mortuaries / Funeral Directors
- Schools



COVID 19 - Observed data flows and dependencies



Emerging lessons learned

- Single actions from central government
- Data management practises
- Inconsistent adoption of definitive data
- Local government the lead role
- Data sharing contracts and technical infrastructure



Trusted data powers successful digital public services

Consequences of poor quality data



INEFFICIENCIES



POOR OR WRONG DECISIONS



MISTRUST AND LOW CONFIDENCE

Foundations of data quality



Our lessons for success

- Invest and continue to invest
- Cooperation and commitment
- Trust, openness, listening
- Standards
- Guidelines

In summary – infrastructure needs and emergency responses

- Scope of infrastructure objectives, processes, data, software, technology infrastructure, people
- Data quality a fundamental in building trust for data sharing and use brought into focus at a time of crisis
- UPRN, USRN open and mandate from 1st July ubiquitous take-up
- COVID 19 has brought data quality, data management and sharing into focus –
 particularly connectivity between central and local government

