

# UPRNs and USRNs: an open standard for public sector location data. What you need to know to best support your customers

Steve Brandwood – GeoPlace

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# Our Vision and Mission

Our vision is a world where everyone benefits from the power of location data

Our mission is to excel in delivering street and addressing data that inspires innovation and transforms lives

**Our strategic objectives are:**

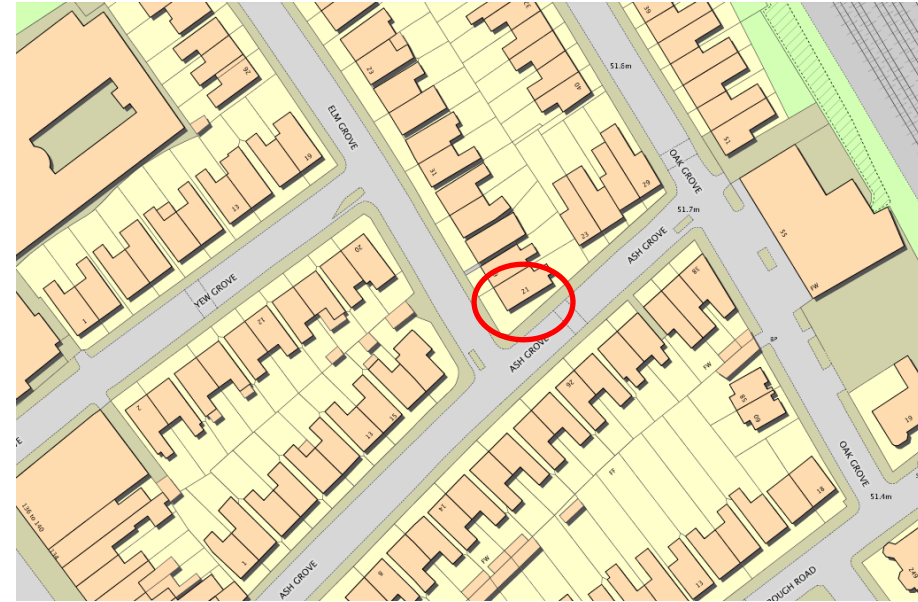
**To deliver national benefit from the use of spatial addressing and streets data**

**To create efficiencies and improvements in the Public Sector**



# Common referencing is key

- Flat 1, 21 Ash Grove London NW2 3LN
- Ground Floor Flat, 21 Ash Grove London
- 21A Ash Grove London NW2
- Flat 1, 21 Ash Gr. London NW2 3LM
- 21A Ash Grove, Cricklewood
- Ground Floor Flat, Cnr Elm Grove & Ash Grove
- FL 1 21 Ashgrove

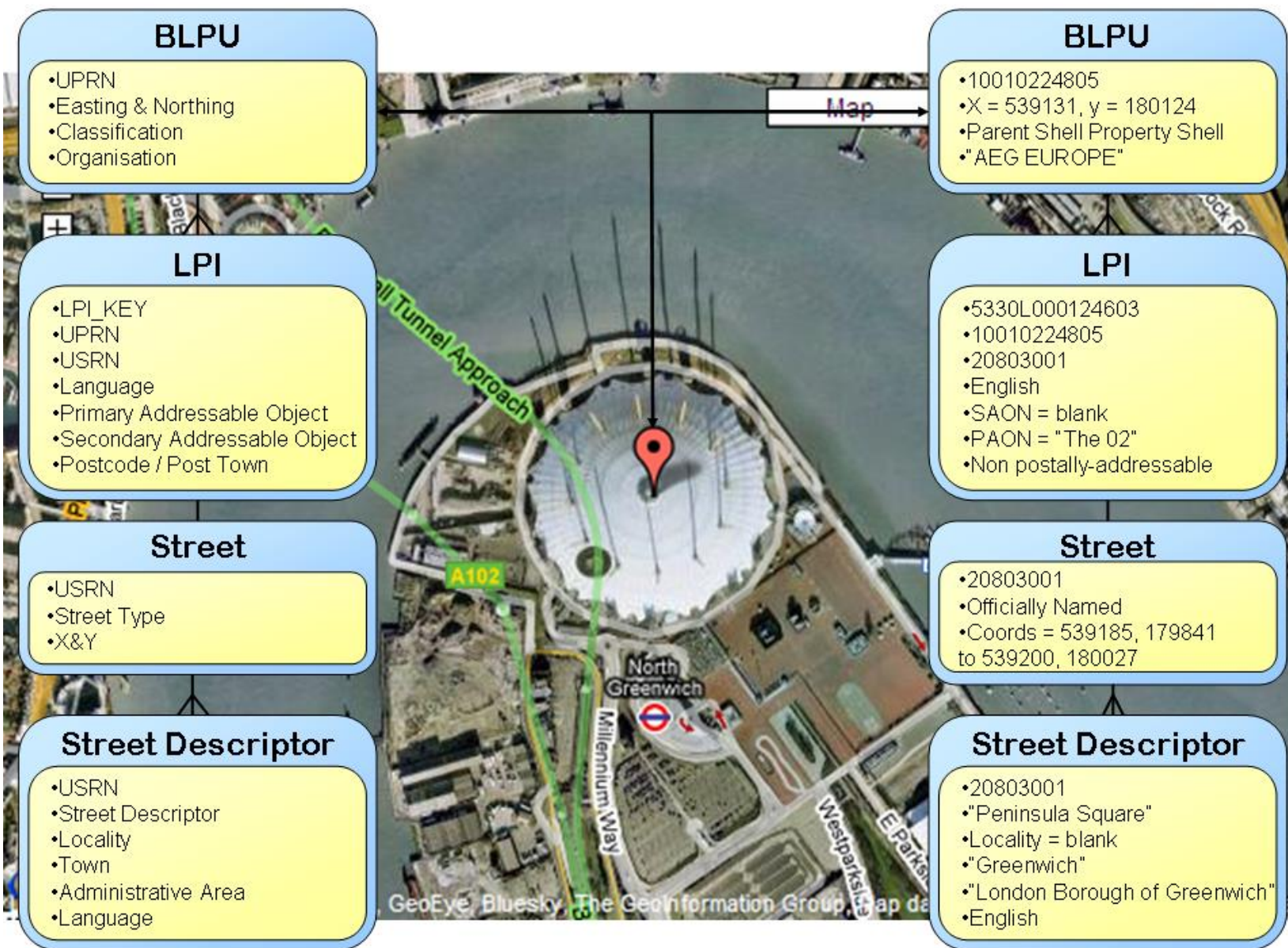


UPRN = 200004525

Parent UPRN = 200219244



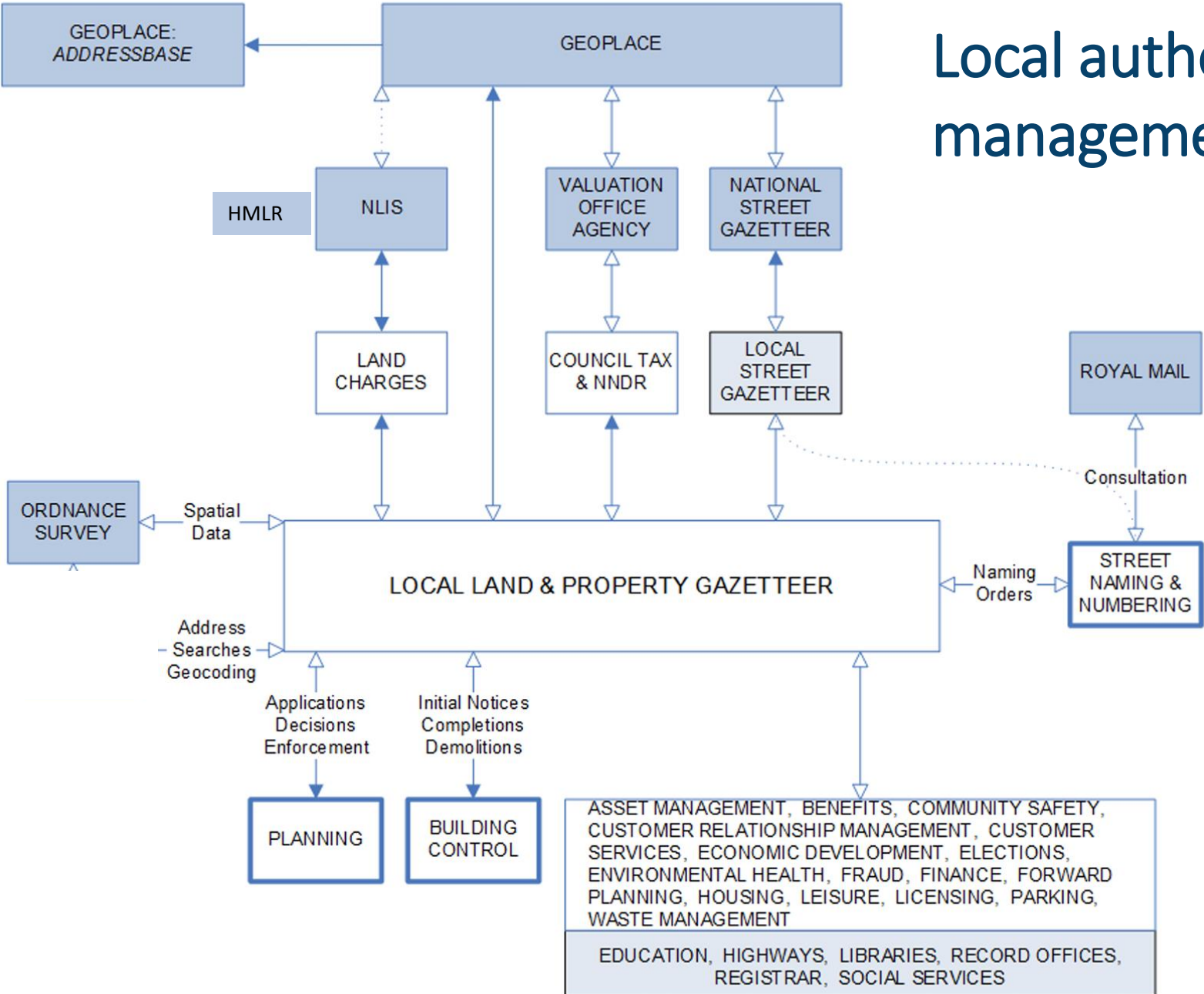
# Address data standards, UPRNs, X&Ys, hierarchical data model, application cross references



# Local government role in property lifecycle management



# Local authority address management



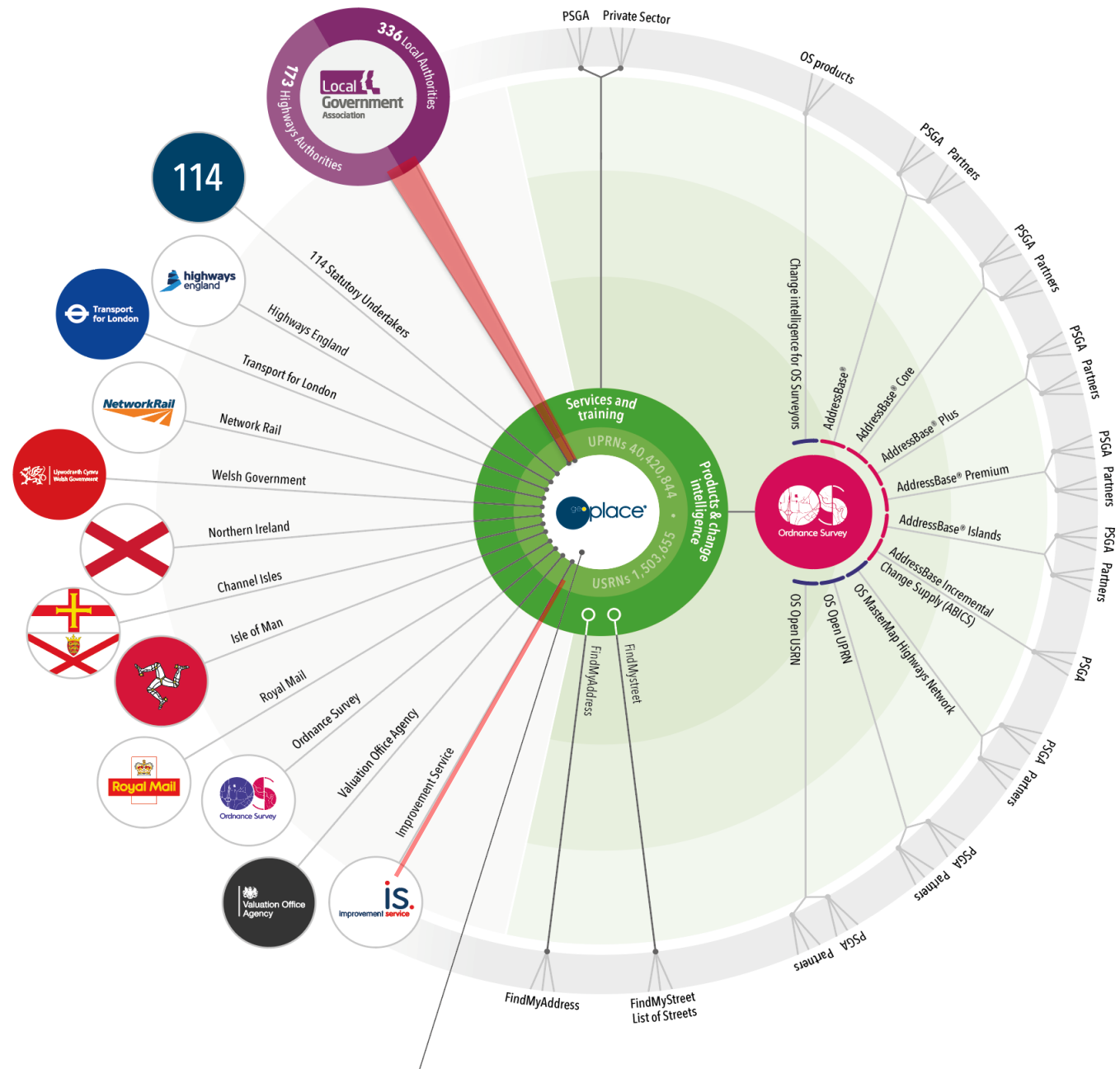
Local authorities  
have been setting  
the example



6:1

<https://www.geoplace.co.uk/press/2022/report-shows-that-authorities-can-derive-61-roi-on-their-own-data>

# GeoPlace operations overview



2.5 billion street and address data items held  
2.5 million changes per month over the last year



# Location ID Mandate for government

<https://www.gov.uk/government/publications/open-standards-for-government/identifying-property-and-street-information>

The screenshot shows the GOV.UK website header with navigation links for 'Topics' and 'Government activity'. The breadcrumb trail reads: Home > Government > Government efficiency, transparency and accountability > Open standards for government. Logos for the Cabinet Office and Central Digital & Data Office are visible. The main content area features a blue banner with the title 'Guidance Identifying property and street information' and a sub-header 'Updated 9 August 2022'. Below this is a 'Contents' section with three items: '1. Summary of the standards' use for government', '2. How these standards meet user needs', and '3. How to use these standards'. A 'Print this page' button is located at the bottom left. A callout box states: 'Use the [Unique Property Reference Number \(UPRN\)](#) and the [Unique Street Reference Number \(USRN\)](#) standards to identify geographic locations.'

## 1. Summary of the standards' use for government

# Availability of Open IDs

<https://www.data.gov.uk/dataset/c4f80d19-8cfa-4bf6-a283-83183842f876/os-open-uprn>

The screenshot shows the data.gov.uk website header with navigation links for 'Publish your data', 'Documentation', and 'Support'. A 'BETA' badge is present with the text: 'This is a new service – your [feedback](#) will help us to improve it'. The breadcrumb trail reads: Home > Ordnance Survey > OS Open UPRN. The main content area features a section titled 'OS Open UPRN' with a metadata table:

<b>Published by:</b>	Ordnance Survey
<b>Last updated:</b>	02 December 2022
<b>Topic:</b>	Not added
<b>Licence:</b>	Other Licence <a href="#">View licence information</a>

Below the table is a 'Summary' section with the text: 'A Unique Property Reference Number (UPRN) is a unique numeric identifier for every addressable location in Great Britain, found in OS's AddressBase products. An addressable location may be any kind of building, residential or commercial, or it may be an object that might not have a 'postal ' address – such as a bus shelter.' Below this is the text: 'Ordnance Survey's Open Unique Property Reference Product will [View full summary](#).' To the right of the main content is a 'More from this publisher' section with links: 'All datasets from Ordnance Survey', 'Related datasets' (OS Open USRN, OS Open Linked Identifiers, OS Open TOID, Local Land and Property Gazetteer), and a 'Search' input field with a search icon.

# Society, business and government rely on what we all do



# Growing reliance and value from our collective data for government processes and infrastructure

National Underground Asset Register

HM Land Registry

Department for Levelling Up, Housing & Communities

Building Digital UK

Department for Business, Energy & Industrial Strategy

Department for Work & Pensions

census 2021

Cabinet Office

national highways

NHS

NAO National Audit Office

Department for Transport

HSE Health & Safety Executive

HM Revenue & Customs

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**Register to Vote**

GOV.UK

→ Coronavirus (COVID-19) | Rules, guidance and support

Home > Citizenship and living in the UK > Voting

**Register to vote**

You can use this service to:

**National Fraud Initiative**

Home > Government > Government efficiency, transparency and accountability

Collection

**National Fraud Initiative**

Reports, guidance and case studies for the National Initiative (NFI), a data matching exercise that helps to detect and prevent fraud.

From: Cabinet Office  
Published 20 March 2015  
Last updated 21 April 2022 — See all updates

Contents

- Working with the National Fraud Initiative
- Public sector
- Private sector
- About the National Fraud Initiative
- National Fraud Initiative reports
- Press releases

The National Fraud Initiative (NFI) is an exercise that matches electronic data within and between public and private sector bodies to prevent and detect fraud.

**Order Covid19 test packs**

GOV.UK

Get a coronavirus test pack

ALPHA This is a new service – your feedback will help us to improve it.

← Back

**Order summary**

Home address 37 CLARENDON ROAD  
NORWICH  
nr2 2pn

Delivery address Same as home address

**Disclaimer**

By ordering a pack of 7 rapid lateral flow home test kits, you agree to the following terms and conditions:

**DVLA – all core services**

GOV.UK

Search on GOV.UK

→ Coronavirus (COVID-19) | Rules, guidance and support

Home > Driving and transport > Number plates, vehicle registration and log books

**Get a vehicle log book (V5C)**

Contents

- Get a duplicate log book
- If you cannot get a log book online

**If you cannot get a log book online**

There are other ways to get a new log book if:

- your name or address has changed
- you've sold, transferred or bought a vehicle

You should apply by post if you need to change the vehicle details.

You should usually receive your log book within 6 weeks if you apply by post.

**EPC listings**

Energy Performance Certificate HM Government

Dwelling type: Semi-detached house Reference number: RTSAP, existing dwelling  
Date of assessment: 30 September 2016 Type of assessment: RTSAP, existing dwelling  
Date of certificate: 01 October 2016 Total floor area: 136 m<sup>2</sup>

Use this document to:

- Compare current ratings of properties to see which properties are more energy efficient
- Find out how you can save energy and money by installing improvement measures

Estimated energy costs of dwelling for 3 years: £ 11,010  
Over 3 years you could save: £ 6,012

Estimated energy costs of this home

	Current costs	Potential costs	Potential future savings
Lighting	£ 420 over 3 years	£ 252 over 3 years	You could save £ 6,012 over 3 years
Heating	£ 6,840 over 3 years	£ 4,004 over 3 years	
Hot Water	£ 747 over 3 years	£ 342 over 3 years	
<b>Totals</b>	<b>£ 11,010</b>	<b>£ 4,998</b>	

These figures show how much the average household would spend in this property for heating, lighting and hot water and is not based on energy used by individual households. This excludes energy use for running appliances like TVs, computers and cookers, and electricity generated by micro-generation.

**Energy Efficiency Rating**

The graph shows the current energy efficiency of your home. The higher the rating the lower your fuel bills are likely to be. The potential rating shows the effect of undertaking the recommendations on page 3. The average energy efficiency rating for a dwelling in England and Wales is band D (rating 60). The EPC rating shown here is based on standard assumptions about occupancy and energy use and may not reflect how energy is consumed by individual occupants.

Top actions you can take to save money and make your home more efficient











Recommended measures	Indicative cost	Typical savings over 3 years
1 Flat roof or sloping ceiling insulation	£ 800 - £1,500	£ 756
2 Cavity wall insulation	£ 500 - £1,500	£ 2,178
3 Floor insulation (suspended floor)	£ 800 - £1,200	£ 249

See page 3 for a full list of recommendations for this property. To find out more about the recommended measures and other actions you could take today to save money, visit [www.gov.uk/energy-advice](#) or call 0800 529 1234 (landline national rate). The Green Deal may enable you to make your home warmer and cheaper to run.

# Society, business and government rely on what we do



# Examples of Public Sector services requirements seeding Commercial markets adoption

Theme	Public Sector	Initiative	Sectors impacted	Example AddressBase / Highways / NSG users and prospects adoption to date
Property		<ul style="list-style-type: none"> <li>Landlord Register</li> <li>Leasehold register</li> <li>Tall Buildings Register</li> <li>Gas Safety</li> <li>Energy Performance Certificate</li> <li>Digital Planning</li> <li>Planning Reform</li> </ul>	<ul style="list-style-type: none"> <li>Private rented sector</li> <li>Commercial Property agents</li> <li>Health &amp; Safety Sector</li> <li>Property search agency transaction</li> <li>Property risk sector</li> <li>Property research and climate monitoring sector</li> </ul>	
Highways & Transport		<ul style="list-style-type: none"> <li>Street Manager</li> <li>Traffic Regulation Orders</li> <li>Trunk Road Network</li> <li>EV Charge point legislation</li> <li>Active Travel</li> </ul>	<ul style="list-style-type: none"> <li>Statutory Undertakers</li> <li>EV Charge point operators / providers</li> <li>Engineering Consultants</li> <li>Transport &amp; Logistics</li> <li>Traffic &amp; Travel</li> </ul>	
Digital Economy		<ul style="list-style-type: none"> <li>Project gigabit</li> <li>Broadband roll-out</li> <li>Regulation</li> <li>Interoperability</li> </ul>	<ul style="list-style-type: none"> <li>National gigabit roll-out</li> <li>UK Fibre network provider market</li> <li>Local / rural broadband roll-out</li> </ul>	
Taxation and Fraud		<ul style="list-style-type: none"> <li>Taxation management</li> <li>Universal Credit</li> <li>Transaction Hub</li> <li>National Fraud Initiative</li> <li>Business Registration</li> </ul>	<ul style="list-style-type: none"> <li>Property sector</li> <li>Finance &amp; accounting</li> <li>Credit Reference Agencies</li> </ul>	
Climate and Energy		<ul style="list-style-type: none"> <li>NEED initiative</li> <li>Home Upgrade Grant</li> <li>Energy use</li> <li>Faster Switching</li> <li>Climate change stress tests</li> </ul>	<ul style="list-style-type: none"> <li>Banks / Lenders</li> <li>Insurers</li> <li>Electricity Providers</li> <li>Gas Providers</li> <li>Credit Reference</li> <li>Debt Collection</li> </ul>	

# Thank you for listening

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