

Ordnance Survey HM Land Registry

Remaining Relevant in the Digital Age

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HM Land Registry

HM Land Registry

- Founded in 1862
- Self-financing UK government department
- 4,400 staff (4,035 FTE)
- £297 million turnover
- 24+ million registered titles
- 87% geographical coverage of England & Wales
- Underpins £4 trillion property
- State monopoly

www.landregistry.gov.uk

Land Registry

Who we are and what we do

Timeline

1862 Land Registry and Land Register created

1899 Compulsory registration introduced into first areas

1930 Official searches introduced

1950 One million titles in the Land Register

1956 Computerised application processing begins

1990 Last areas brought into compulsory registration; Land Register opened to public inspection

1997 Website goes live

2002 Legislation sets framework for electronic services

2008 Twenty-two million titles in the Land Register

2012 Land Registry is 150 years old

2014 Twenty-four million titles in the Land Register

1862 150 years of Land Registry 2012

STANBILL'S HOUSES

Action pack

Land Registry

Cadastre in England and Wales

Cadastre

Land Registry

- Evidence of ownership of registered titles
- Define ownership extents
- Provide data for INSPIRE Cadastral Parcel theme for England and Wales approx. 22 million land parcels

Ordnance Survey

- Topographic map - OS MasterMap
- Feature based model containing over 4 billion data items
- Addresses – OS AddressBase

Cadastre

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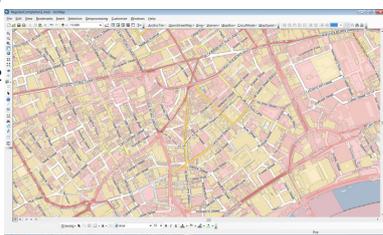
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Cadastre Supporting the UK Economy

e-Government 

Changes – both technological and legislative present opportunities:

Digital Single market
 EU Action plan
 Traditional Government services
 Documents to data
 Government Digital Service
 EU Initiatives like INSPIRE


Mobility


Social


Cloud

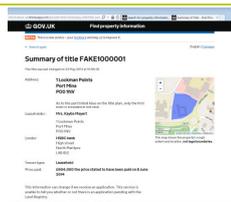

Big Data


Security

e-Government – LR Examples 

Find Property Information service

- To help citizens easily find the land and property information
- Customer demand for sub-set of full register
- Delivered through gov.uk



MapSearch

- Web based
- B2B
- Self-serve
- Free to use



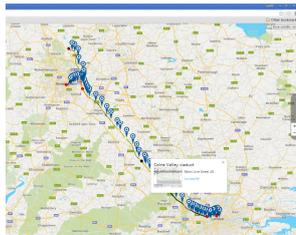
Economy 

High Speed 2 is a major infrastructure investment in the UK rail network

Ordnance Survey data heavily used in the planning of the route and drawing up the detailed plan and profile maps

Land Registry data used to inform developer of ownership issues along the route

Authoritative data crucial for the effective, efficient delivery of major projects



Environment 

Flood Defences Cost Money, No Flood Defences Cost More: An economic case for the Humber and United Kingdom
Prepared on behalf of the Humber Parliamentarians, Local Authorities and the Humber Local Enterprise Partnership

Hull and Holderness flood alleviation scheme

- £80 million package to improve flood defences in the Humber region
- Includes £27 million for the Hull and Holderness Flood Alleviation scheme
- Developers and planners rely on authoritative data from Ordnance Survey and Land Registry data to identify and plan activity



A CHANGING RECOGNITION OF VALUE IN AUTHORITATIVE DATA

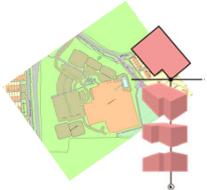


INFORMATION NOT MAPPING

MAPS

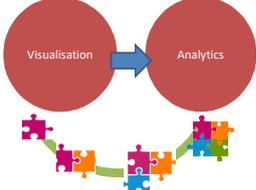
DATA

SMART OBJECTS



Visualisation

Analytics



- A **plan** view is but one view of the world ... we need to:
- Understand complex spatial relationships such as the inside and outside, and the above ground and underground.
- Allow for an extensible **information** model to which others can contribute



A GREATER DEMAND FOR ANSWERS

- How big is the house?
- What's the height of the roof?
- What's the value of this address?
- How good is the nearest school?
- What's the risk of being burgled?
- How close is the nearest railway?
- When was it built?
- Where's the nearest Starbucks?
- What's the risk of it flooding?
- How close is the motorway?
- How big is the back garden?









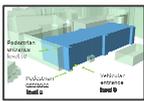

DEMAND FOR GEOSPATIAL CONTENT TODAY

- Main concepts for uses of geospatial data. Traditional does (on the whole) well in today's applications:
- Search**, e.g.:
 - Retrieve asset data
 - Call centre (life threatening emergency and non)
 - Consumer
 - Web forms
- Analyse**, e.g.:
 - Risk analysis
 - Provision of service
 - Find my nearest
- Navigate**, e.g.:
 - Deliveries
 - Emergency response
 - Resilience
 - End to End

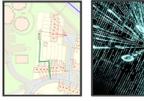


DEMAND FOR GEOSPATIAL CONTENT TOMORROW

- New opportunities and new use cases present a different demand:
 - Real time
 - Real world
 - Machine to machine
 - High volume
 - Predictive modelling
 - Cognitive thinking
 - Big data











A REVERSAL IN THE DIRECTION OF INFLUENCE

It used to be government and business first, dictating what technology got invested in and what society could expect...

Now consumers drive technology and business and society demands openness and transparency from government and commercial organisations alike



GEOVATION: Inspire -> Incubate -> Accelerate

The **Challenge** invites the geospatial community to develop innovative solutions to the world's most pressing issues

The **Hub** is an incubator space designed to support **individuals, SMEs and corporate innovators**

The **Programme** is a funded accelerator that supports and rewards **entrepreneurship, innovation and creativity**

