



AGI Scotland



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# Value of Geospatial Data in Local Services

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EES/AGIScotland 27-09-2013



# The challenge



- **Local Government:** 32 local authorities representing 5.1 million people in Scotland and spend over £ 11 billion a year to deliver a wide range of local public services. (400 LAs rest of GB at a spending of £ 113 billion at 2012)
  - **Place matters:** a localism agenda that responds to diversity and delivers services according to the needs of citizen and businesses at a local level – a shift from central to local control
  - **Austerity and spending cuts:** unprecedented spending cuts leads to rethink how to deliver services, reduce costs and increase productivity
  - **Information economy:** ‘data transparency’ and need for data literacy which demands open data for reuse, interoperability through the use of standards etc
  - **The Civil Society:** local government increasingly an enabler and less a ‘doer’, citizen to self serve (social growth)
  - **Demographic shift:** aging population profile: growing health and care needs
  - **Environmental Change:** low carbon economy, energy efficiency, flood risk etc.
-

# The response

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- **Operational efficiency:** Over the last four years, councils have made substantial efficiency savings through smarter working, use of technology, transformation of services
  - **Self regulation and assessment:** meaningful and comparable data to help benchmarking against other services to improve productivity
  - **Partnerships:** e.g. Shared services and properties, joint procurement: South East councils saving 3.5% (£146m);
  - **Self service:** Channel shift move from face to face to online and tele-services
  - **Innovation and improvement:** through creative councils and cross research / business partnerships
-

# GI can add value to

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- **Improving Services:** customer insight reflects local demography, social conditions and local needs to better target and tailor service and investment in local health, education, social care and job and economic initiatives
  - **Emergency planning:** e.g. linking flood risk assessment to those most vulnerable (e.g. the elderly, the disabled etc):
  - **Cutting Carbon emission:** through targeting energy efficiencies of homes buildings, reduction in fuel use
  - **Sustainable environmental management:** protection and conservation of the environment, better planning of infrastructure projects
  - **And much more.....**
-

# Examples of energy efficiency

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- **Energy efficiency:**
- local authorities have a key role to meet CO2 reduction targets: renewable energies and fuel poverty,
- **Transport:**
  - online publishing of location of roadworks to reduce congestion and CO2 emission
  - Optimising transport and waste management services
  - Reduction in mileage/CO2 emission through better use of transport



# Waste Collection

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- Daventry: Use of GI to optimise refuse waste collection routes
  - Reduction from 18 to 16 collection rounds and to 4 days working week with cashable annual savings of £153,000 per annum
  - Mileage reduction of 12-13 per cent
  - Employee overtime will be virtually eliminated,
  - Reduction in vehicle fleet
- LB Harrow: Savings of up to £ 3.1 million over ten years through the use of GI in waste management and better targeting of customers.
  - Green savings included 15% reduction in fuel
  - 18.8% reduction in waste sent to landfill,
  - reductions in CO2 emissions and 40kg reduction per annum of waste paper recycling from Council offices.



# Use of location information in crime analysis

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- Use of detailed location information in crime analysis and sharing of data through intranet web services
- South Yorkshire Police intranet-based police intelligence solution leads to £ 1 million in annual savings.
  - Basic Analysis of potential crime location:  
Demographic Analysis:
  - 80 Briefings per day for response teams and management.
- Use of CCTV footage, high resolution aerial photos and better sharing of intelligent data within police forces is estimated to save £ 4 million per year across police forces in England and Wales



# Sharing address gazetteers



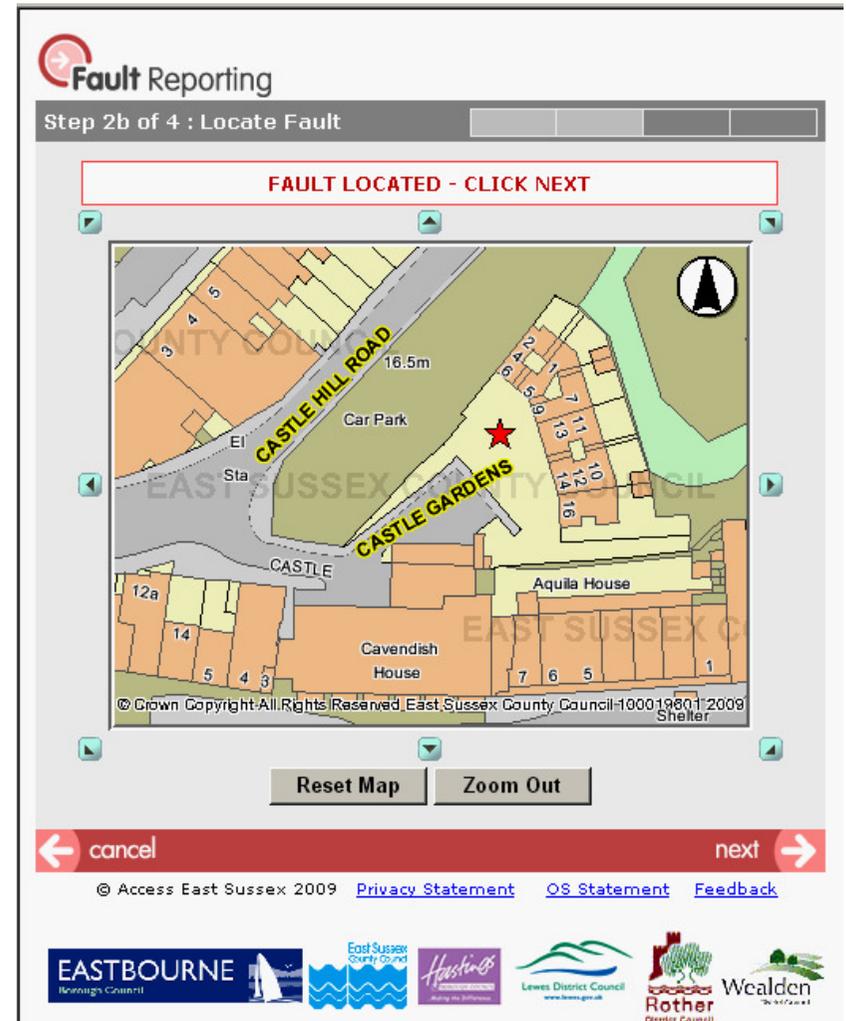
The National  
Land & Property Gazetteer

- Rationalising addresses held by Councils using the Local Land and Property Gazetteer (LLPG) as the master source of address information reduces duplication and joins up services for the citizen
- Newport City Council: Estimated cost savings of £57,000 per annum as the approximately 2300 address updates and changes are only carried out once instead of applying it to 17 separate systems
- BlackPool savings of £ 750,000 through the use of the address gazetteer in Customer Services.
- Use in emergency services in Hull as citizen in need can be easily identified through the use of the address gazetteer linked to social care, transport and other systems.
- Estimated efficiency savings in Welsh local authorities alone through the use of one gazetteer of up to £ 3 million
- Sharing of the National Land and Property Gazetteer (NLPG) created by local authorities as part of the street naming and numbering function leads to cost savings of £15 to £ 24 million in local authorities over 5 years



# East Sussex online incidence reporting

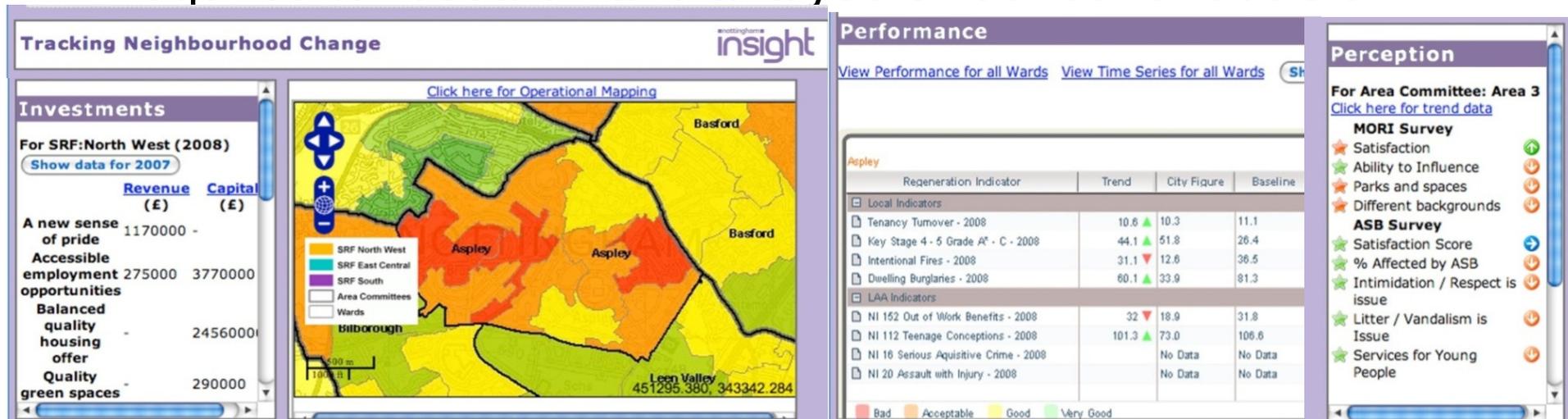
- Set-up of online fault reporting within East Sussex partnership with districts and police
- Use of interactive web mapping to identify fault location
- The information is automatically routed to one of the 8 partnership agencies responsible for the service
- The key benefits to the participating local service providers are:
  - More cost effective contact and feedback from citizen
  - Reduction in service costs, with 18,800 fault incidents logged over 5 years with an approximate net saving of £60,000
  - Cost of remedial action reduced by more accurate location



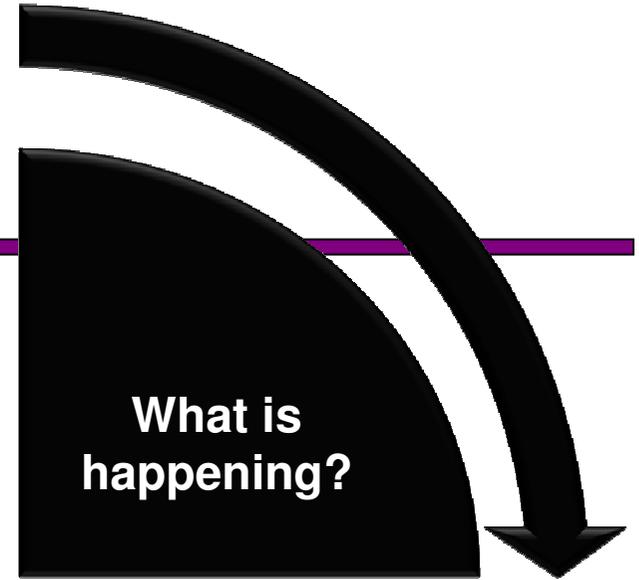
# Nottingham City Insight

Nottingham City Council, working with the local NHS, police, districts and the county council, created an online geo-enabled Local Information System:

- providing access to comprehensive, up-to-date information to neighbourhood level to staff both inside and outside the participating organisations and community groups to quickly find information they require
- Demonstrable savings from reductions in the time required to research and analyse evidence for decision

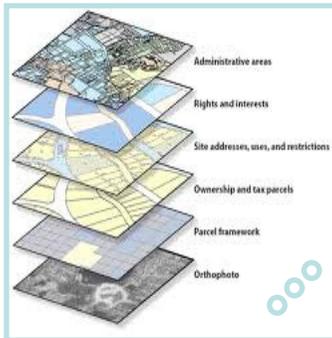
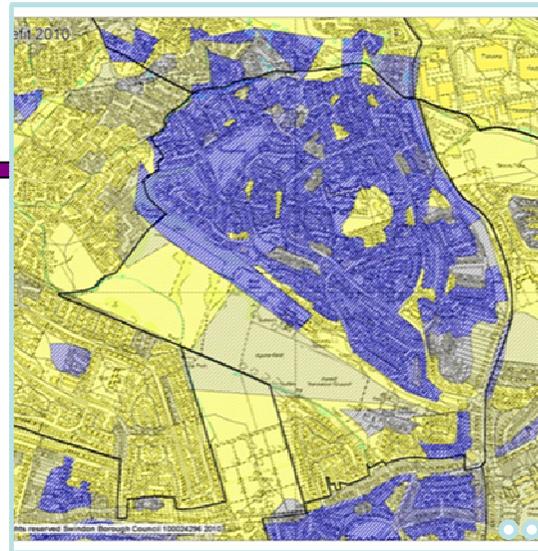
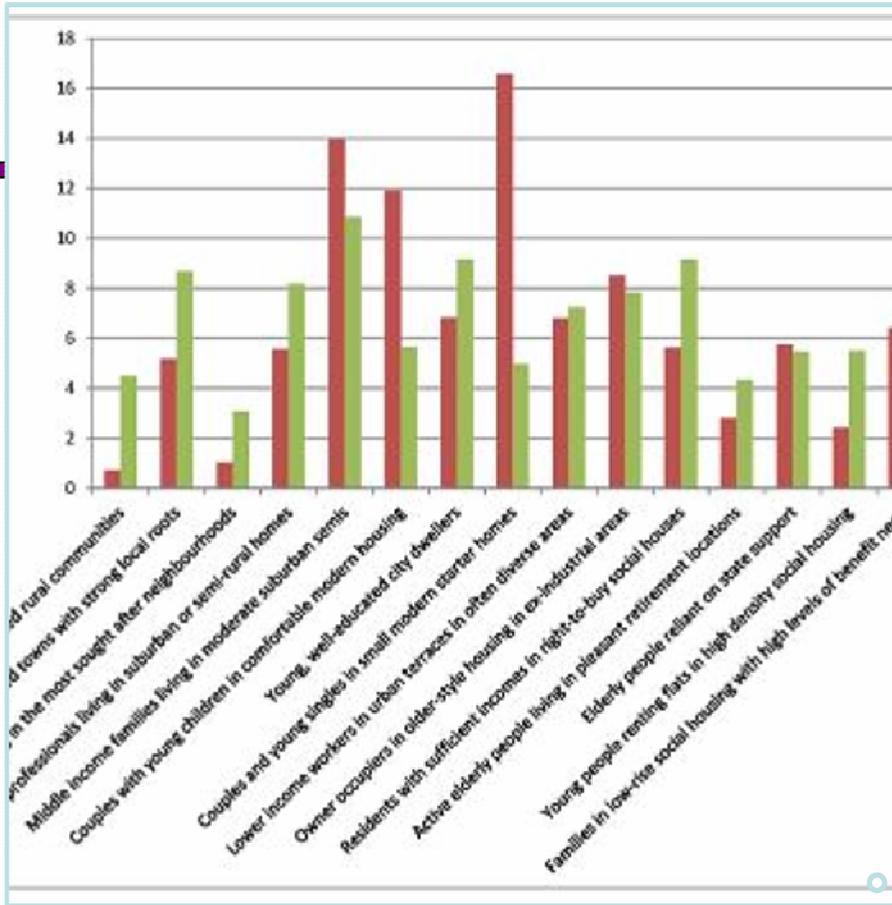


# Swindon Borough Council

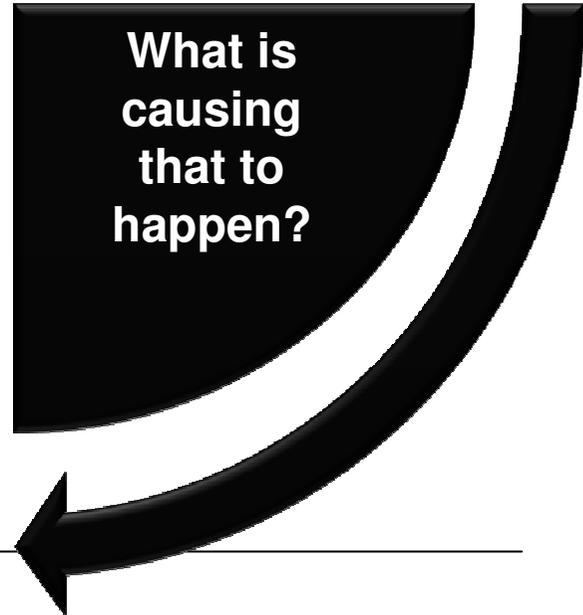


**What is  
happening?**

**The maps  
and raw data  
are the  
beginning of  
our journey**

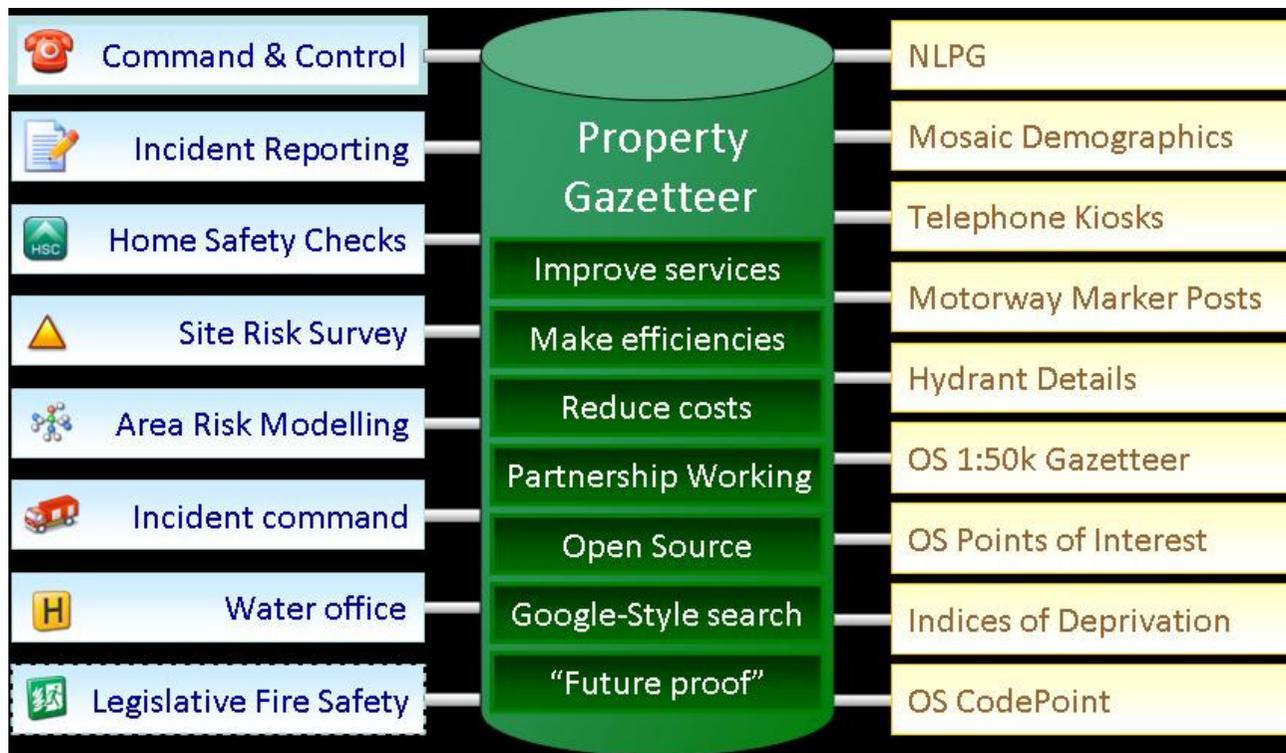
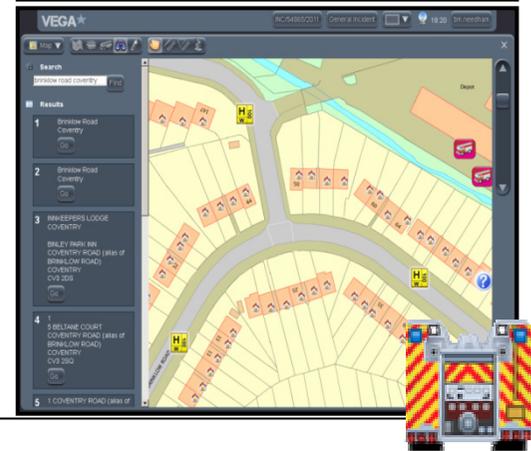
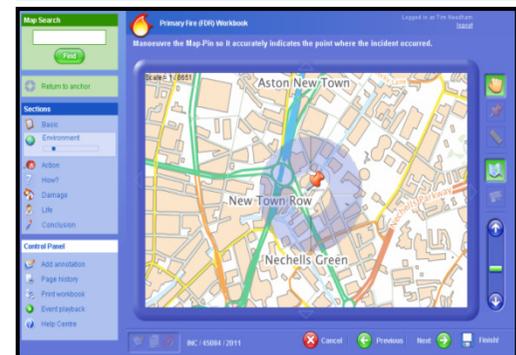
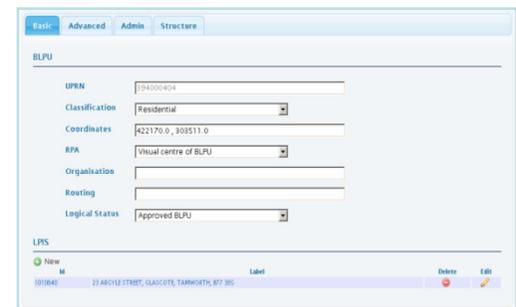


**Patterns  
Trends  
Anomalies...**



# Integrated data and services: West Midlands Fire Service Chimps

- Link of property gazetteer with command and control and other data sources and services using Open source.
- Considerable data management efficiencies by managing all external data from a single point.



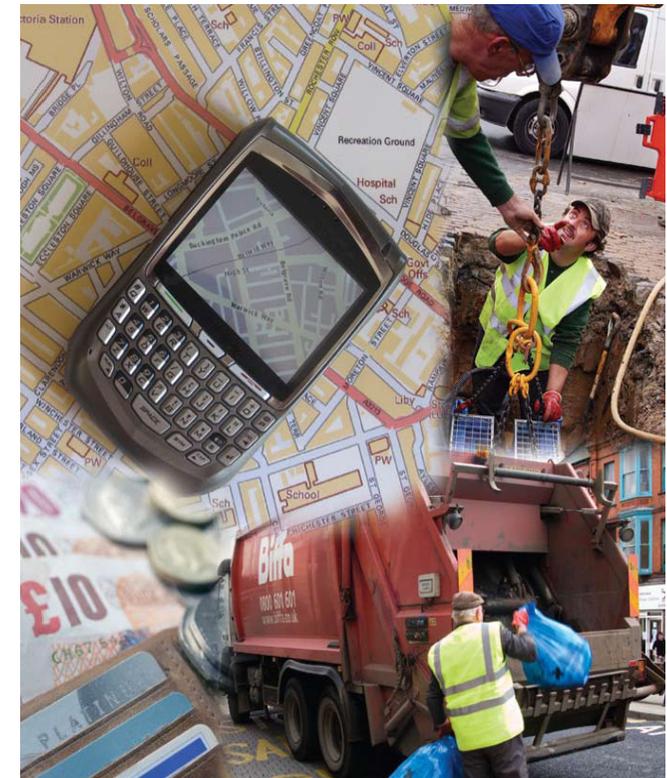
# Benefits from case studies

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- **Channel shift** – use of transactional web mapping systems reduces the need for face to face contact.
  - **Improved transport efficiency** – by wide application of route optimisation and better streetworks management.
  - **Better decision making** – using geospatially-enabled local information systems to gather intelligence about a place.
  - **Reduced data duplication** – using master datasets such as the NLPG as a shared data source.
  - **Empowering frontline workers** – by speeding up analysis and enhancing mobile working.
  - **Helping identify social deprivation** – through data integration and analysis.
  - **Broader citizen engagement** in local decision making and taking part in democracy at the local level through wider access and use of geospatial information.
-

# Value of geographic Information

- Productivity improvements through better data management,
  - use of metadata to reduce duplication,
  - direct access and sharing of standardised data across partnerships,
  - greater reusability of open data from other sources
- Investment in GI over the last 5 years (up to 2011) in local government increased productivity by **£ 230 million**
- Gross Domestic Products (GDP) for England and Wales was over **£320 million** higher over the last 5 years using GI
- Savings of up to £ 24 million by sharing address data locally
- £ 17 million savings by collating local data into national datasets and making them INSPIRE compliant at national instead of local level



[http://www.local.gov.uk/local-government-intelligence-/journal\\_content/56/10180/2834452/ARTICLE](http://www.local.gov.uk/local-government-intelligence-/journal_content/56/10180/2834452/ARTICLE)

# Policies and Drivers



## UK Location Strategy (2008)

Place Matters - delivering better public services using location



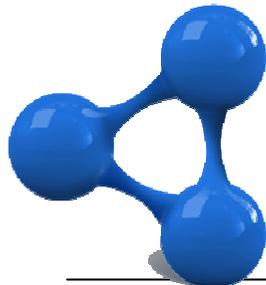
## Public Sector Mapping/One Scotland Agreement



## OS Open Data



**INSPIRE** (EU 2007 Reg.; UK 2009 Reg.)  
Access and sharing of spatial data



## Transparency & Open Data

National Information Infrastructure



**CabinetOffice**



# INSPIRE regulation

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- Publish spatial datasets that are within scope of 34 legally defined themes
- Provide catalogues that allow users to identify what information is available (2011/13)
- Provide online services - discovery, view, download and transform (to enable data interoperability) (2012/13)
- Comply with data specifications - (2015/2020)
- Have licensing arrangements that allow information to be shared
- Set up e-commerce arrangements where charging is applicable
- <http://data.gov.uk/location/inspire>



### Search Datasets

14244

Results

Search

### Tags

View all

child transparency population Spending Da  
Environment local-government disclosure health scho  
children NERC\_DDC care spend-transactions fir  
Health communities health-well-being-and-care educatic

## Data Search

1247

Results

location  Search

Sort by: Relevance



Show only...

- Published datasets (1131)
- Unpublished datasets (116)



### Location of pharmacies

Publisher: Office for National Statistics

Updated: 17 Jun 2010

# Location



## Conservation Areas

View Resources (2) History

### Description

Defined Conservation Areas in Barrow Borough Council, the limit of each Conservation Area is recorded as a polygon.



### Data Resources (2)

- BBC:CONSERVATIONAREAS Details Download
- Barrow Borough Council Open Source Web Mapping Details Download



Preview on Map

Add to Preview List

**Extent:** Latitude: 54.21841° to 54.03964°  
Longitude: -3.32482° to -3.12439°

Contains Ordnance Survey data (c) Crown copyright and database right [2012]. Contains Royal Mail data (c) Royal Mail copyright and database right [2012]. Contains bathymetry data by GEBCO (c) Copyright [2012]. Contains data by Land &

### Licence

- » Public Sector INSPIRE WMS End User Licence", "http://www.bit.ly/wmseul
- » http://www.bit.ly/wmseul

### Contact

Enquiries:  
» Email: [gis@barrowbc.gov.uk](mailto:gis@barrowbc.gov.uk)

### Tags

Conservation areas

### Social

Tell the world about this dataset!  
0 0 Google +10

### Developer tools

JSON, API and URI for this dataset record

### Do more with this data

- » Share your app
- » Share an idea
- » Request new data

### Publisher

**Map based search - U**  
With over 1,000 location data  
Based Search makes it easi

## UK Location Infrastruct

- » **Discovery Metadata Serv**  
Getting Started Guide for di  
Operational Guide for meta  
Find out more about Map B
- » **View Service explained**  
Getting Started Guide for vi  
Operational Guide for view s  
Find out more about Preview
- » **What's coming up next**



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Conservation areas

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0 0 Google +10

### Developer tools

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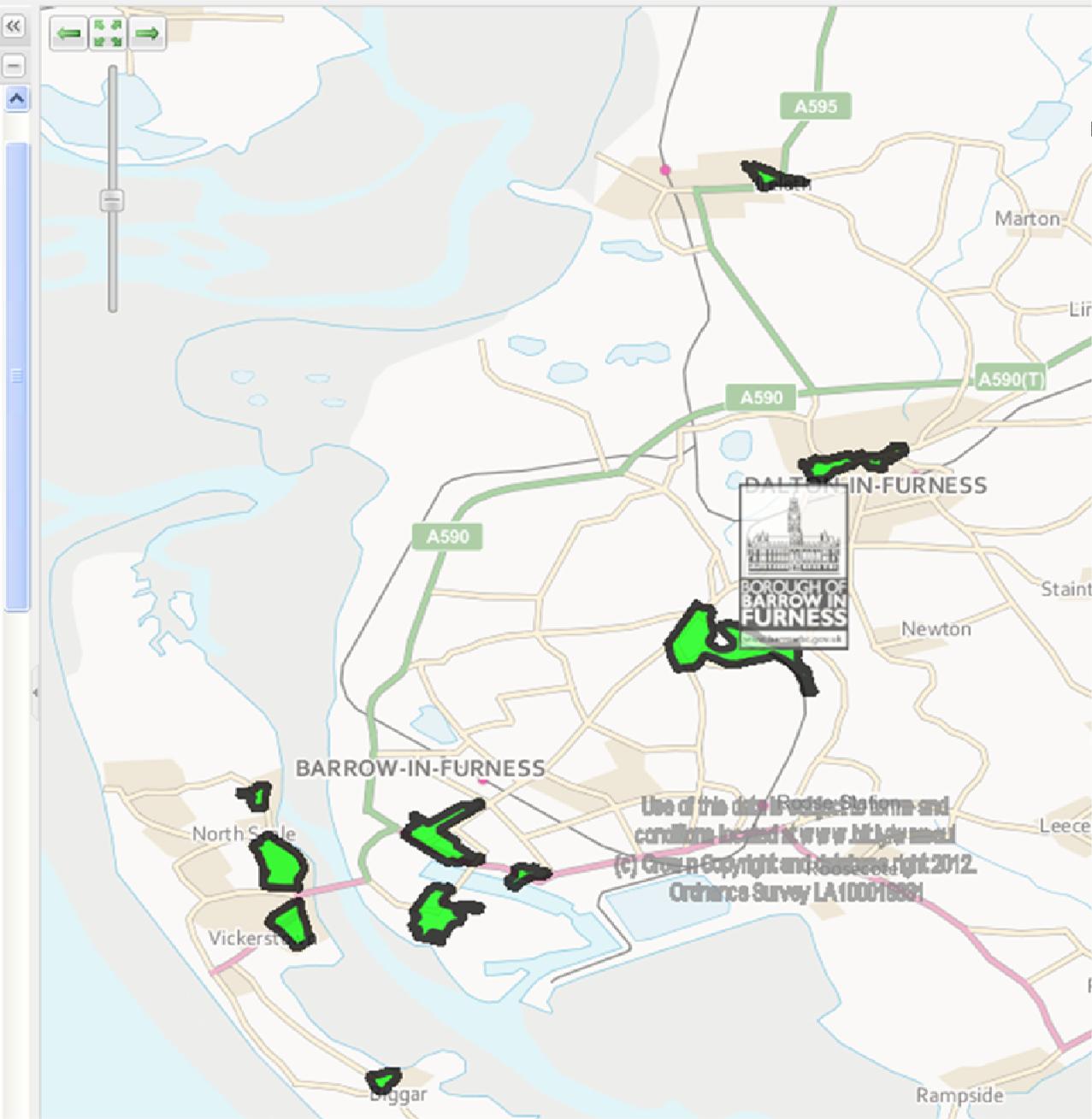
### Do more with this data

- >> Share your app
- >> Share an idea
- >> Request new data

### Publisher

Layers

- Backdrop Map
- <http://webgis1.barrowbc.gov.uk/inspire/wms?>
- Barrow Borough Councils On Demand WMS
  - ADVERTCONTROLAR
  - ARTICLE4
  - BCPATCHAREAS
  - BPAAP2010\_BP11
  - BPAAP2010\_BP16
  - BPAAP2010\_BP17
  - BPAAP2010\_BP18
  - BPAAP2010\_BP19
  - BPAAP2010\_BP20
  - BPAAP2010\_BP21
  - BPAAP2010\_BP22
  - BPAAP2010\_BP23
  - BPAAP2010\_BP24
  - BPAAP2010\_BP8
  - BPAAP2010\_BPSV2
  - BPAAPBOUNDARY
  - CARPARKPOINTS\_Type
  - CEMETERYPLOTS
  - CHEMISTPOINTS
  - COMMUNITYCENTRESPOINTS
  - CONSERVATIONAREAS
  - COUNCILLALLOTMENTGARAGES
  - COUNCILLALLOTMENTPLOTS
  - COUNCILLALLOTMENTS
  - COUNCILBUSSTOPS
  - CURRENTCOUNCILLORS
  - CURRENTPOLLINGDISTRICTS
  - DENTISTPOINTS
  - DOCTORSSURGERIESPOINTS
  - FLAREPPERIMITS
  - GREENWASTECOLLECTIONDAY
  - HOUSINGAREAS



Find a place in:  Powered by GeoName



Active Layers: 0

INSPIRE Metadata CLOSE THIS WINDOW

Translate this page    
 Microsoft<sup>®</sup> Translator



 (UK) - Conservation Areas

Spatial data set

<p><b>Metadata Language</b> English</p> <p><b>Resource Language</b> English</p> <p><b>Metadata Date</b> 2012-05-14T16:46:53</p> <p><b>Metadata Point Of Contact</b>                  Barrow Borough Council, <i>E-mail:</i>  <a href="mailto:gis@barrowbc.gov.uk">gis@barrowbc.gov.uk</a></p> <p><b>Responsible Party</b>  <i>Distributor:</i> Barrow Borough Council, <i>E-mail:</i>  <a href="mailto:gis@barrowbc.gov.uk">gis@barrowbc.gov.uk</a></p>	<p><b>Conditions Applying To Access And Use</b>                  Public Sector INSPIREWMS End User Licence  <a href="http://www.bit.ly/wmseul">http://www.bit.ly/wmseul</a></p> <p><b>Limitations On Public Access</b>  <a href="http://www.bit.ly/wmseul">http://www.bit.ly/wmseul</a></p> <p><input type="button" value="Get Map"/></p>
---	---

<p><b>Resource Title</b>                  Conservation Areas</p> 	<p><b>Spatial Data Theme</b>                  Topic Category                  Boundaries</p>
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# INSPIRE and Open data: From discovery to mapping to reuse



data.gov.uk BETA  
Opening up government

Home Data Apps Ideas Forum Wiki Blogs Link

## Conservation Areas

Posted by Barrow Borough Council on 11/05/2011 | 0 comments | ★★★★★

Defined Conservation Areas in Barrow Borough Council, the limit of each Conservation Area is recorded as a polygon.

### Meta data

Title: Conservation Areas  
Abstract: Defined Conservation Areas in Barrow Borough Council, the limit of each Conservation Area is recorded as a polygon.  
Unique resource identifier: \_\_\_\_\_  
Identifier: \_\_\_\_\_

Barrow Borough Council using INSPIRE compliant Open Source Web Mapping Service:

Discovered on data.gov.uk, mapped on Barrow WMS

Savings of £ 26,000

Case Study:

[http://www.local.gov.uk/local-government-intelligence-/journal\\_content/56/10180/2896238/ARTICLE](http://www.local.gov.uk/local-government-intelligence-/journal_content/56/10180/2896238/ARTICLE)

### Barrow Borough Council Web Mapping V2.40

Search for Address... Search

My Mapping Find Help

Map Map Tools Scale Use Advanced Mode

Layers (Hide)

- Community - 16 (0)
- Crime and Safety - 4 (0)
- Development Plan - Proposals Map - 46 (0)
- Equalities - 19 (0)
- NHS Choices Data - 0
- North West Evening Mail - 2 (0)
- Parks and Streets - 7 (0)
- Planning - 13 (1)**
  - Advert Control Area
  - Ancient Monuments
  - Article 4 Areas
  - Conservation Areas
  - Hazardous Consents
  - Listed Buildings
  - Listed Buildings (De-Listed)
  - Pending Planning Applications
  - Planning Appeals
  - Planning decisions within last 3 months
  - SHLAA 2011 Desktop Review Sites
  - Section 106 Agreements
  - Tree Preservation Orders
- Statistics - 13 (0)
- Tourist information - 3 (0)
- Transport - 3 (0)
- Waste and Recycling - 5 (0)

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© Crown Copyright and Database right 2012. Ordnance Survey 100016331. @Barrow Borough Council

# Efficiencies through INSPIRE

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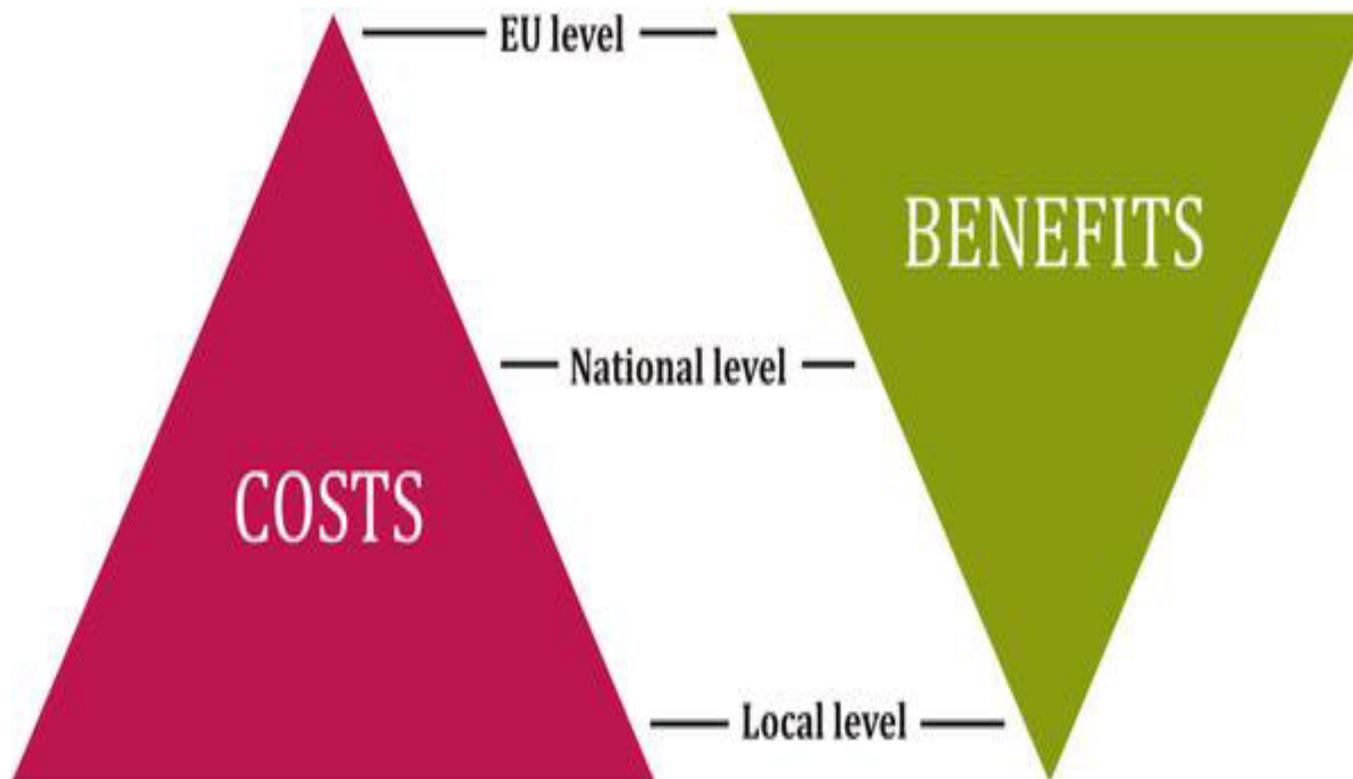


- Estimated efficiency savings of 15% at local level (Craglia 2011)
- Makes it easier to find data on data.gov.uk, avoids duplication
- Data as a service reduces need to create and store data that already exists
- Linkable data makes it easier to share, combine and compare data
- Implementation of INSPIRE fosters good data management and improves the quality of data
- Increases the profile of location data and widens take up
- Improves transparency and uses across local partners
- Reduces data requests (FOI)

# Value of INSPIRE

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- Cost versus benefits (Bregt 2012)



# What matters?

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Location: Where are .....  
Mobile Phone Apps



Access to data  
(Openness!)

Usability of data (Standards and interoperability)

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# Other technical drivers

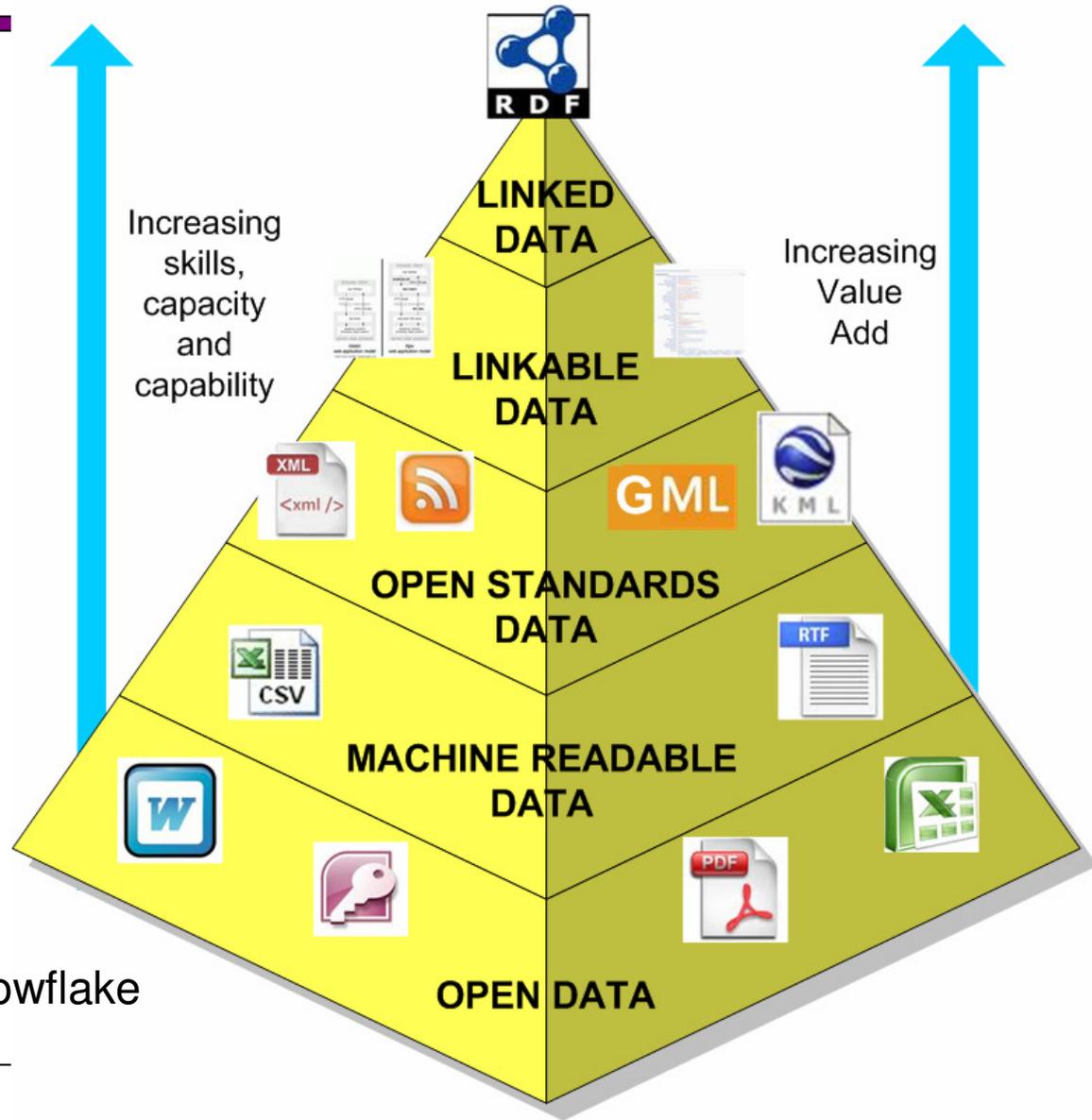
---

- Broadband extension
  - Digital transformation
  - Online services, data as a service
  - GCloud
  - Mobile services/smart phones
  - Shared services/shared data (one Scotland agreement)
  - Standards (INSPIRE)
  - Open Data/Big Data
-

# Open to Linked Data



A Journey  
from Open to Linked Data



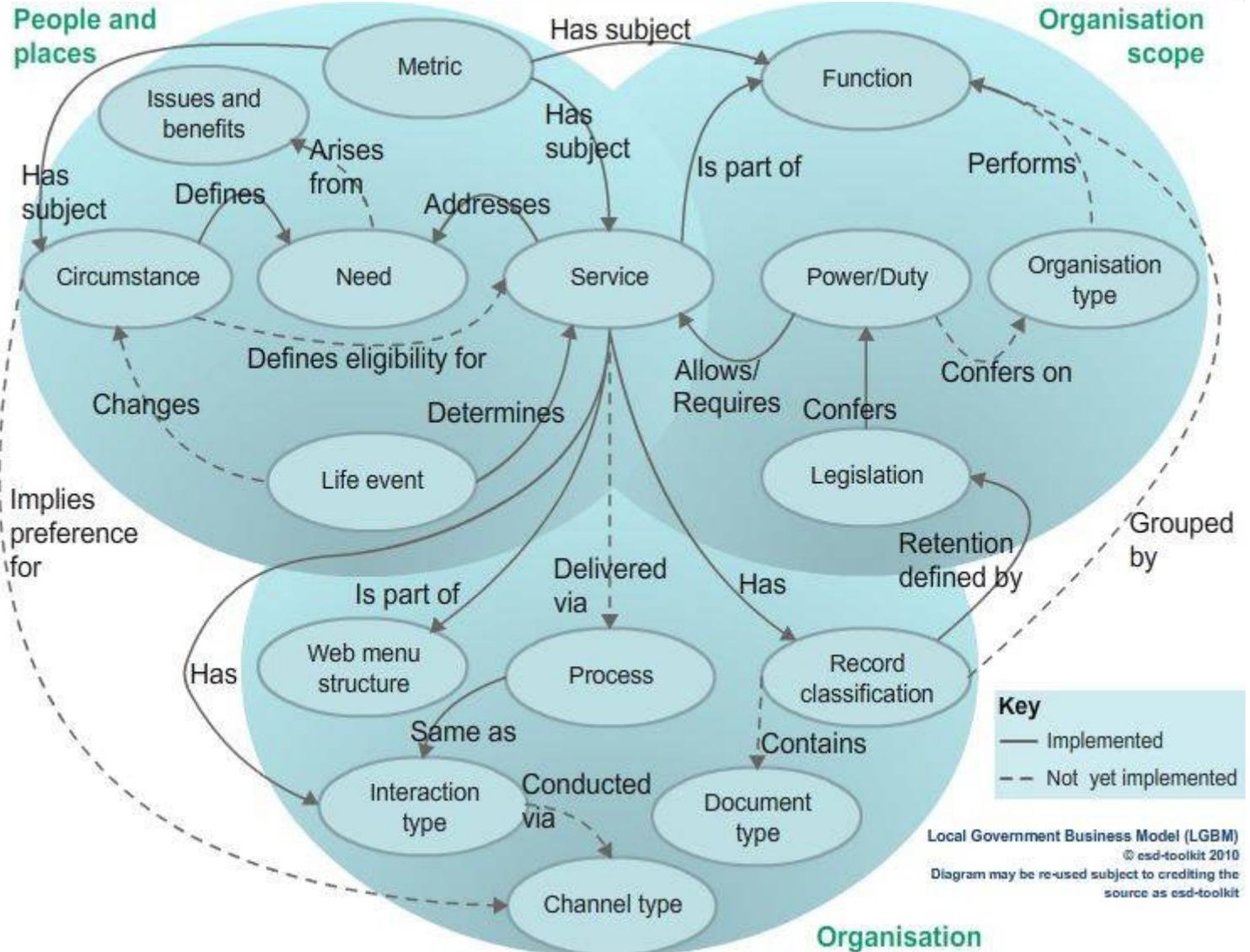
Adapted from Ian Painter Snowflake  
by Local Government Group

Local Government Service List

[ search ]

Local Government Service List

- 16 to 19 bursary fund (1614)
- Abandoned shopping trolleys (1152)
- Abandoned vehicles (372)
- Abnormal load notification (785)
- Accessibility - local facilities (1466)





# Open Data User Group (ODUG)

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- exists to help government understand the requirements of people who are using, or could use, the datasets it collects.
  - Advises Data Strategy Board on key dataset requests
    - Develops business cases for key data requests submitted on [data.gov.uk](http://data.gov.uk)
    - Benefits cases submitted to DSB include:
      - Historical UKMO observation data
      - Open VAT Register
      - National Address Data
      - UK Land Registry Price Paid Historical Data
      - Derived data licensing: easing third party restrictions on onward data use
      - River Network Centreline
      - Rights of Way dataset
  - [Data.gov.uk/odug](http://Data.gov.uk/odug)
-

# Open Location Data Requests

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- Address data
  - Public Rights of Ways
  - Road network
  - River network centreline
  - Flood data
  - Greenbelt
  - Listed buildings
  - Bicycle Accidents
  - Gridded roads
  - Planning Constraints
  - Cycling Routes
  - Council Assets
  - Bus stops
  - Railway stations and network
  - Taxi ranks
  - Parking bays
  - Polling stations
  - Air quality management areas
  - School Catchment areas
  - Cadastre and land ownership data
  - Land Supply Data
-



**OpenStreetMap**  
The Free Wiki World Map

Search bar

examples: 'Alkmaar', 'Regent Street, Cambridge', 'CB2 5AQ', or 'post offices near Lünen' more examples... Where am I?

OpenStreetMap is a free worldwide map, created by people like you.

The data is free to download and use under its open license. Create a user account to improve the map.

**Help**

- [Help Centre](#)
- [Documentation](#)

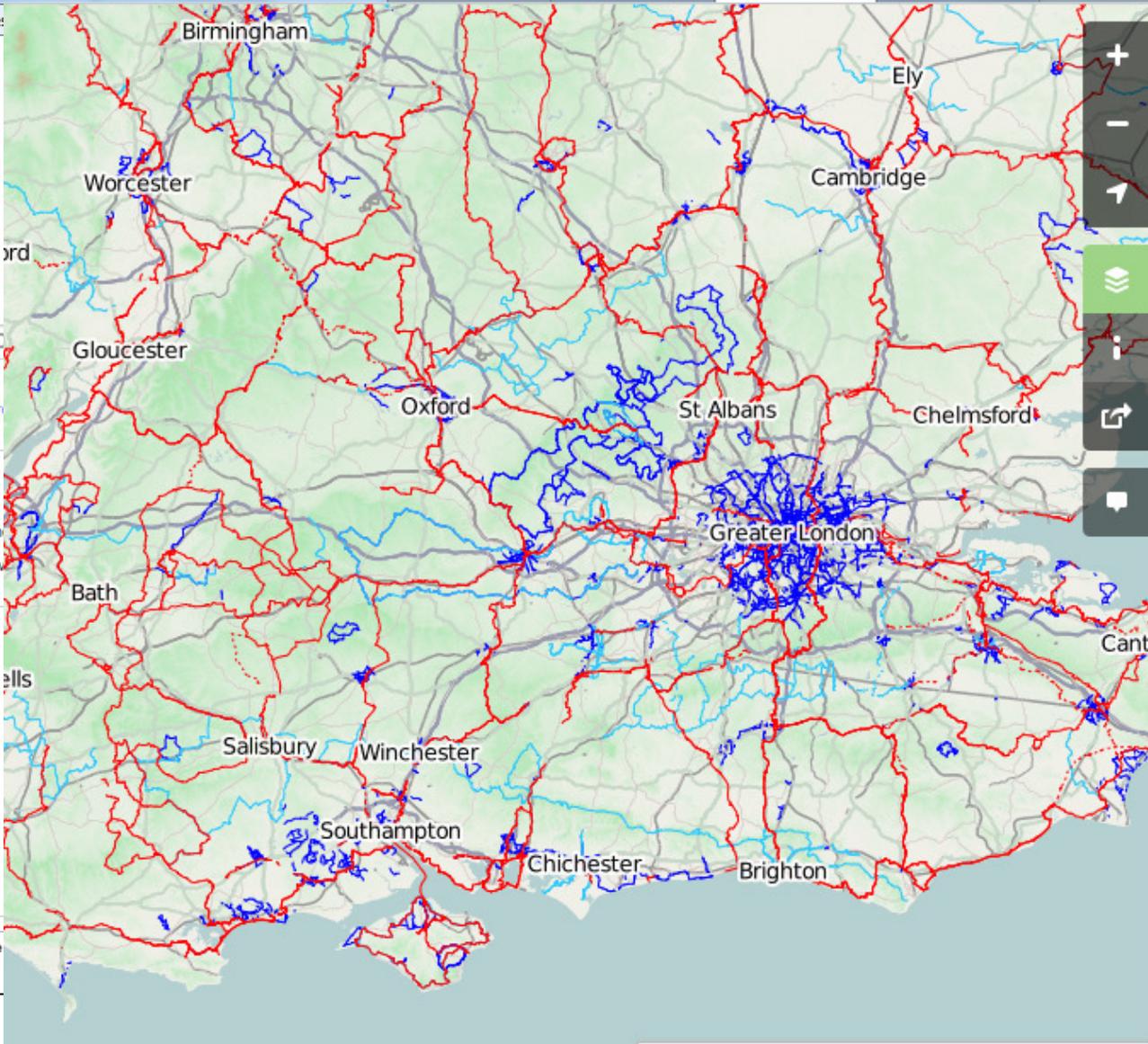
**Community**

- [Community Blogs](#)
- [Foundation](#)
- [User Diaries](#)

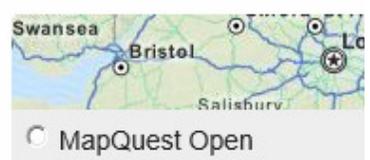
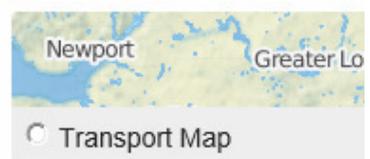
**Data**

- [Copyright & License](#)
- [Export Data](#)
- [GPS Traces](#)

State of the Map 2012



**Map Layers**



Enable overlays for troubleshooting the map

- Map Notes
- Map Data

# Examples: Use of Open data

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- Mapping of England riots against poverty indicator (deprivation index):



Guardian data blog, Simon Rogers: <http://www.guardian.co.uk/news/datablog/2011/aug>



Eating out? Getting food in?  
**Check the hygiene rating**



### Quick search

Please enter the details you would like to search for. For example, a business name, town or postcode.

lichfield city

Search

[Advanced search](#)  
[Find your area](#)

Show results on map

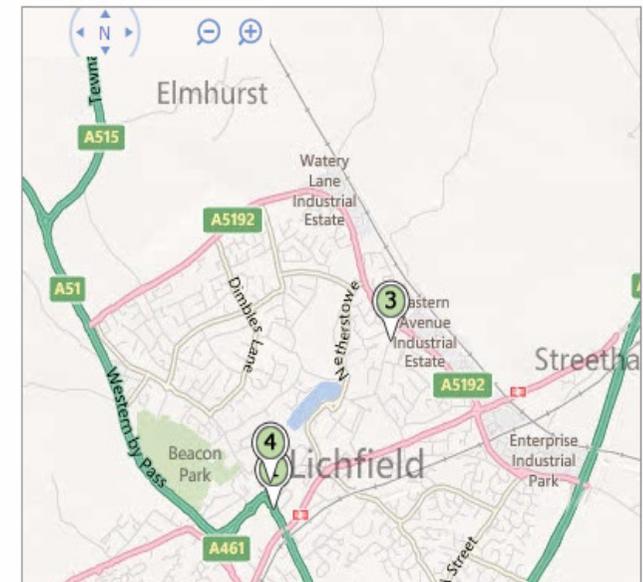
The search took 0.6994 seconds and returned 4 items.

### Results

Sort search results by: Name A to Z (ascending)

Name and address	Rating
<p><b>1</b> Beatrice Court Nursing Home &amp; Citygate Lodge Care Centre 30-36 St John Street Lichfield WS13 6PB</p>	<p>FOOD HYGIENE RATING</p> <p>0 1 2 3 <b>4</b> 5</p> <p>GOOD</p>
<p>Debbies Delights Trading at City Plumbing Birmingham Road Lichfield</p>	<p>FOOD HYGIENE RATING</p> <p>0 1 2 3 4 <b>5</b></p> <p>VERY GOOD</p>
<p><b>3</b> Lichfield City Football Club Social Club Brownsfield Road Lichfield WS13 6BX</p>	<p>FOOD HYGIENE RATING</p> <p>0 1 2 3 4 <b>5</b></p> <p>VERY GOOD</p>
<p><b>4</b> Prince Of India City Balti 9a Bore Street Lichfield WS13 6LY</p>	<p>FOOD HYGIENE RATING</p> <p>0 1 2 3 4 <b>5</b></p> <p>VERY GOOD</p>

### Map



## Food Safety Inspe

View Resources

	A	B	C	
1	id	Name	Url	Ad
2	3021	Haunton H	http://www	Ha
3	1101	Horse & Jc	http://www	Tar
4	1520	The Olive T	http://www	34
5	36650	Shell Lond	http://www	Lor
6	1835	Drayton M	http://www	Dr
7	4113	C.L Cateri	http://www	Litt
8	2008	Little Asto	http://www	Ro
9	18494	Simply Sn	http://www	Ru
10	2815	St Michael	http://www	St
11	18498	Wade Stre	http://www	Frc



# Surrey Heath

Great Place · Great Community · Great Future

I'm looking for...

Home Contact Us A-Z A

You are here: Home > Cou

- Home
- Council & Democracy



http://isharemaps.surreyheath.gov.uk/ishare42/getdata.aspx?Type=D

Google Maps

Get directions My places



You are here: Home > Planning and Building > Planning Policy > Area Action Plan Interactive Map

## Area Action Plan Interactive Map

- Home
- Planning and Building
  - Advice, Forms and Duty Officer
  - Building Control
  - Development Control
  - Historic Environment
  - Links
  - My Surrey Heath
  - Planning Appeals
  - Planning Applications
  - Planning Policy
    - Affordable Housing Guidance
    - Camberley Town Centre Area Action Plan
    - Core Strategy and Development Management Policies
    - Fees and Charges
    - Housing Market Partnership (HMP)
    - Local Development Framework (LDF)
    - Local Plan 2000
    - Local Plan 2000 Map
    - Site Allocations Development Plan Document

Comments Basemap Aerial

**London Road Block Opportunity Areas**  
[London Road Information](#)

**Sue Knight 05/04/2012**  
 “Redeveloping the A30 frontage will smarten up the town and show Camberley at its best.”

**Sue Knight 05/04/2012**  
 “Redeveloping the A30 frontage will smarten up the town and show Camberley at its best.”

**Debbie bradley 15/03/2012**  
 “I think it would be better to develop Camberley as a niche retail centre of some kind. At the moment I can't think of any reason why people would...”

# LAMBETH IN NUMBERS BETA



- Home
- Map comparisons
- Add my data
- Forums
- Account Settings

**1** Choose base layer...

Child Obesity prevalence (2008/09 to 2010/11) by MSOA ^

Reception (age 4-5 years) % obese ^

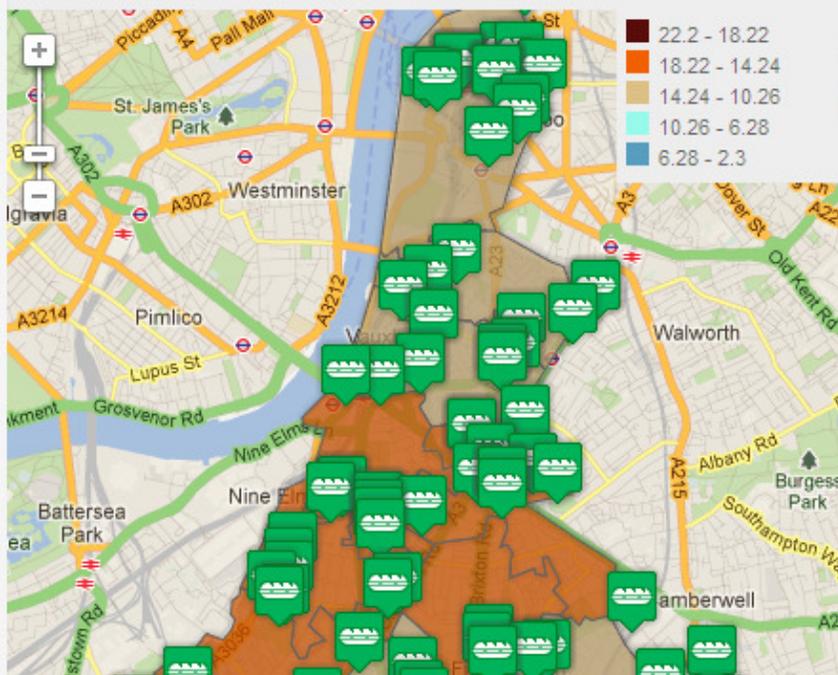
**2** Choose markers... Include user submitted data

Takeaway ^

Take-away food  Super market  Bakers - retail

Mobile Shop - Fish & Chips

*Layers: Obesity prevalence by school year and MSOA of child residence. The lower percentage the lower the prevalence of obesity.*



**1** Choose base layer...

Child Obesity prevalence (2008/09 to 2010/11) by MSOA ^

Year 6 (age 10-11) % obese ^

**2** Choose markers... Include user submitted data

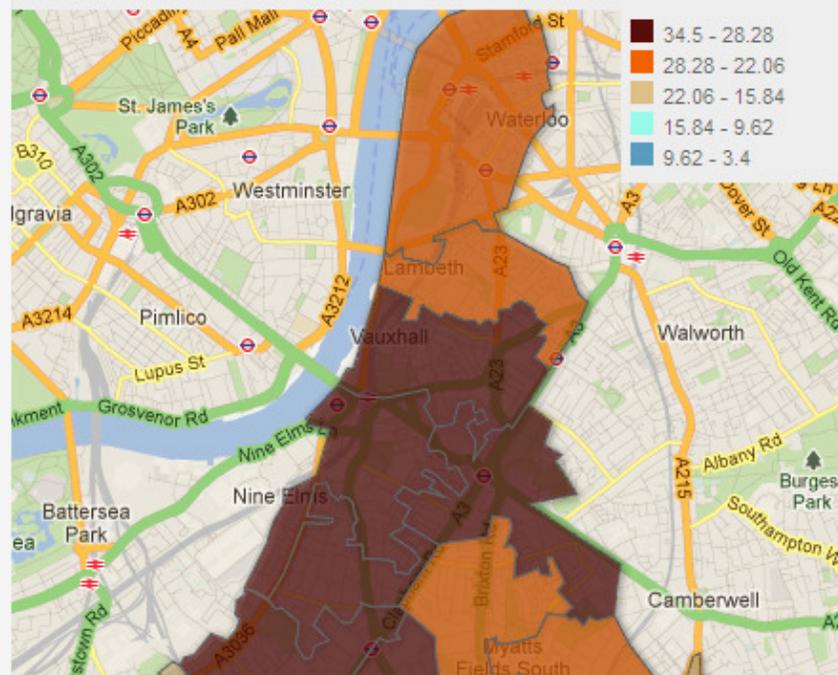
Food trade ^

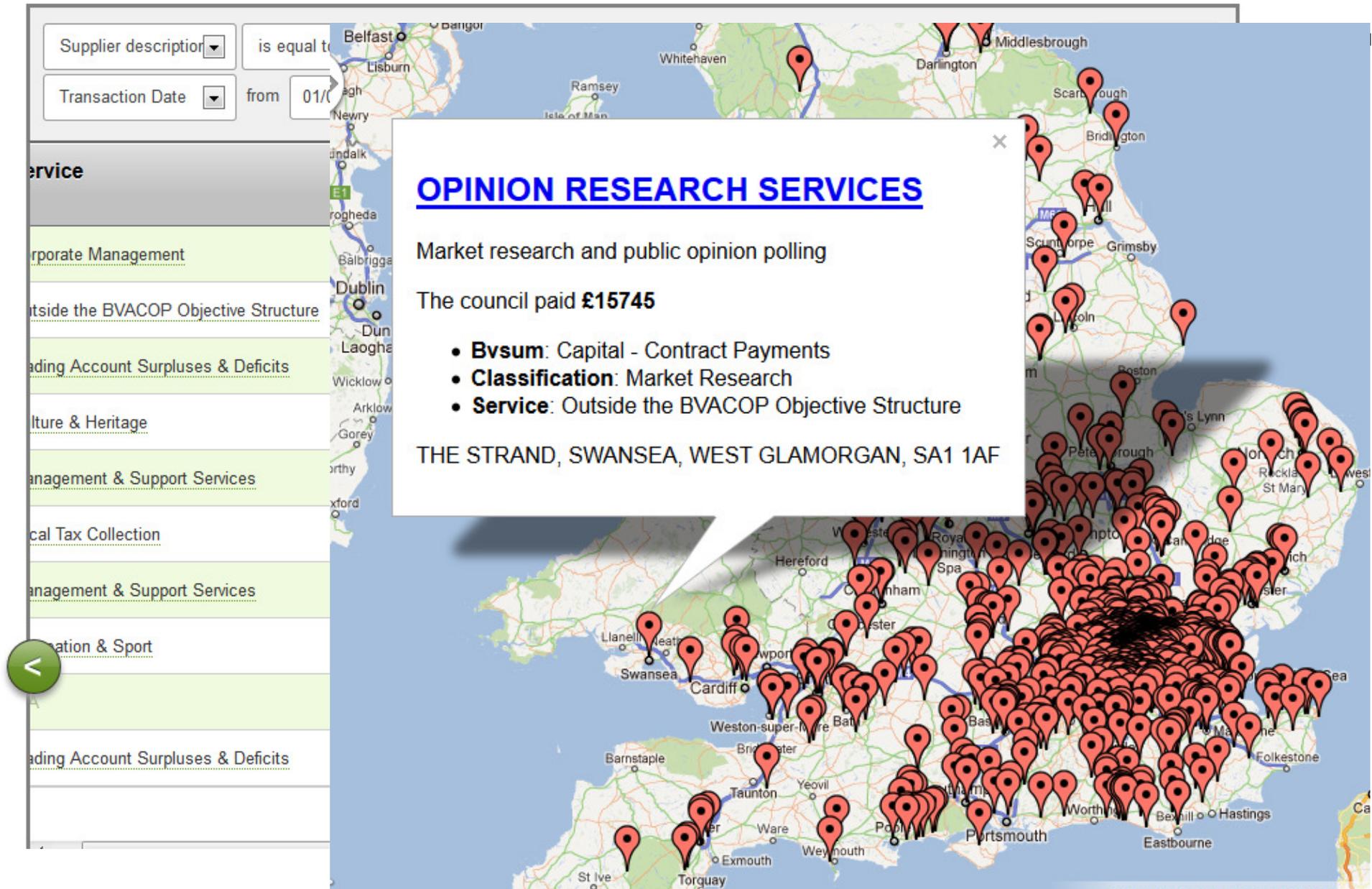
Food Manufacturers  Catering Company  Other - Food Premises

Bakehouse  Food importer  Wholesale Food Premises

Warehouse - Food  Dairy

*Layers: Obesity prevalence by school year and MSOA of child residence. The lower percentage the lower the prevalence of obesity.*





# Bristol: Use of open data

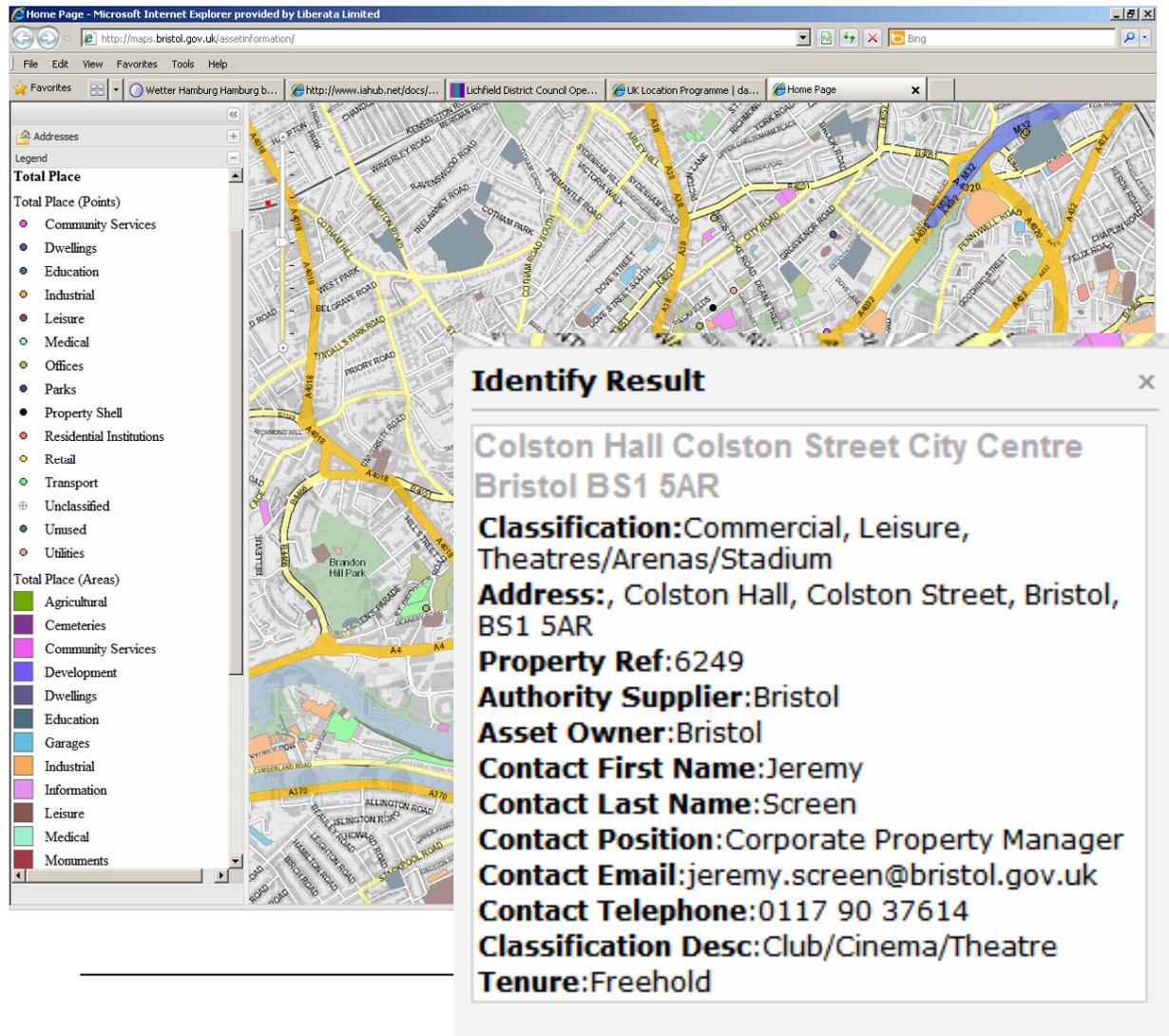
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**Hills are Evil:** Identifies areas where wheelchair users can easily get around in Bristol.

Mobile Bristol in collaboration between Bristol City Council, Media Sandbox and University of Bristol

# Asset Mapping: Bristol City Council



**Identify Result**

Colston Hall Colston Street City Centre  
Bristol BS1 5AR

**Classification:** Commercial, Leisure, Theatres/Arenas/Stadium

**Address:** , Colston Hall, Colston Street, Bristol, BS1 5AR

**Property Ref:**6249

**Authority Supplier:**Bristol

**Asset Owner:**Bristol

**Contact First Name:**Jeremy

**Contact Last Name:**Screen

**Contact Position:**Corporate Property Manager

**Contact Email:**jeremy.screen@bristol.gov.uk

**Contact Telephone:**0117 90 37614

**Classification Desc:**Club/Cinema/Theatre

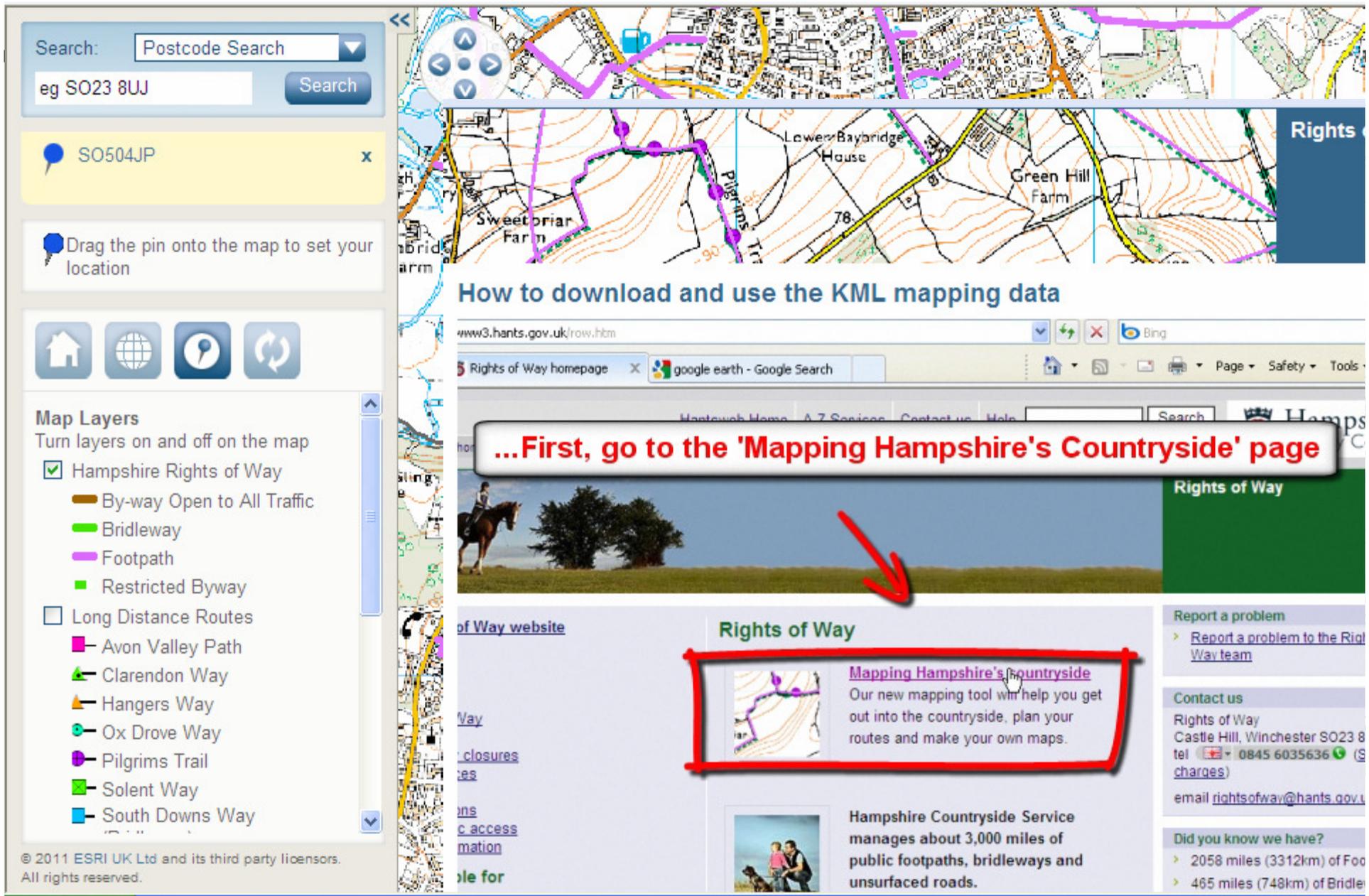
**Tenure:**Freehold

Mapping of land and property assets owned by partner organisations in the wider Bristol Area and their respective service requirements.

To be shared between partners and the public for better use

•Potential savings from sharing assets of between 1.5 million per annum or 10.5 m over 10 years.

# Public Rights of Ways



Search:

eg SO23 8UJ

SO504JP

Drag the pin onto the map to set your location

### Map Layers

Turn layers on and off on the map

- Hampshire Rights of Way
  - By-way Open to All Traffic
  - Bridleway
  - Footpath
  - Restricted Byway
- Long Distance Routes
  - Avon Valley Path
  - Clarendon Way
  - Hangers Way
  - Ox Drove Way
  - Pilgrims Trail
  - Solent Way
  - South Downs Way

## How to download and use the KML mapping data

www3.hants.gov.uk/row.htm

...First, go to the 'Mapping Hampshire's Countryside' page

**Mapping Hampshire's Countryside**

Our new mapping tool will help you get out into the countryside, plan your routes and make your own maps.

Hampshire Countryside Service manages about 3,000 miles of public footpaths, bridleways and unsurfaced roads.

Report a problem

Report a problem to the Rights of Way team

Contact us

Rights of Way  
Castle Hill, Winchester SO23 8...  
tel 0845 6035636  
email [rightsofway@hants.gov.uk](mailto:rightsofway@hants.gov.uk)

Did you know we have?

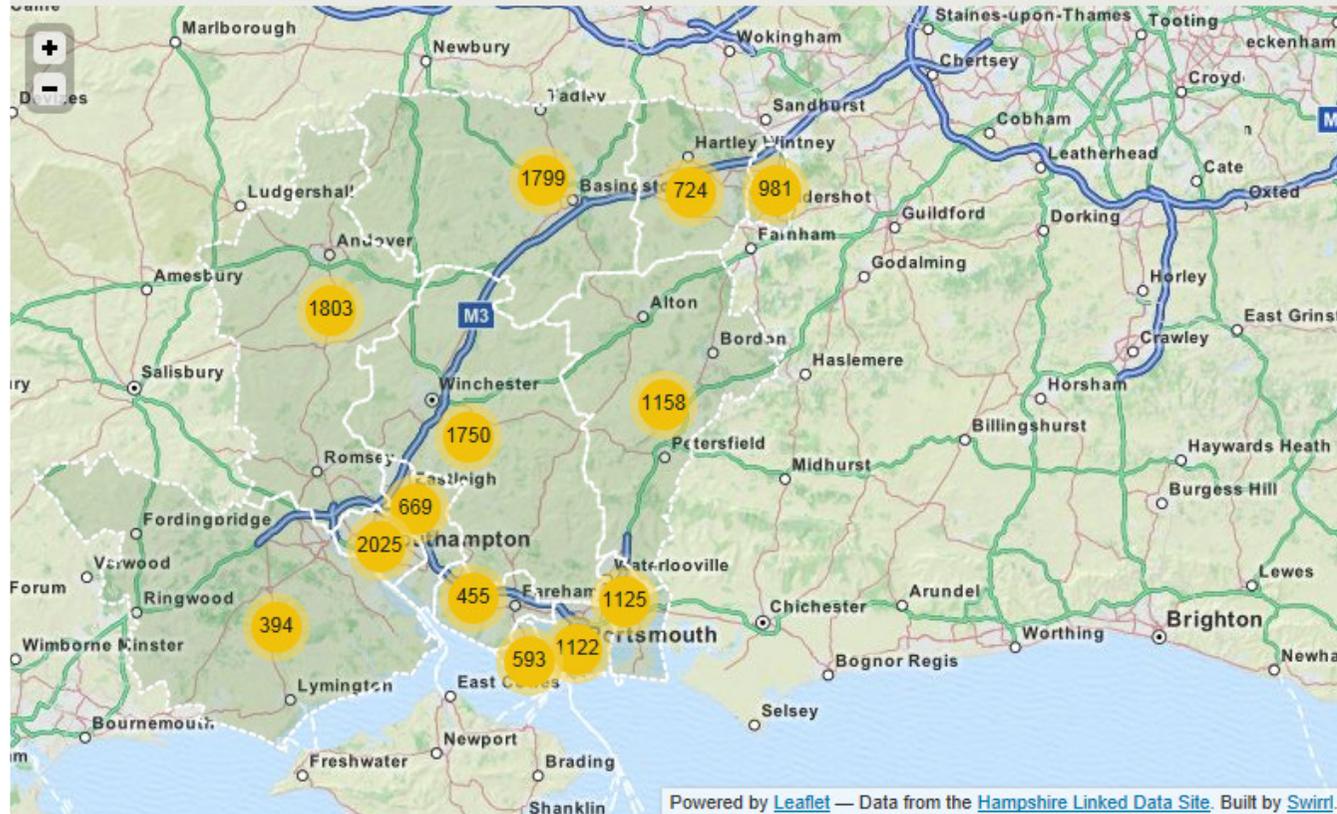
- 2058 miles (3312km) of Footpaths
- 465 miles (748km) of Bridleways



# Hampshire Land Supply Browser

Key to graphics:

- 38 The net change in dwellings for a group of nearby sites.
- 38 The net change in dwellings at a single site.
- 1 Negative changes are highlighted in red.



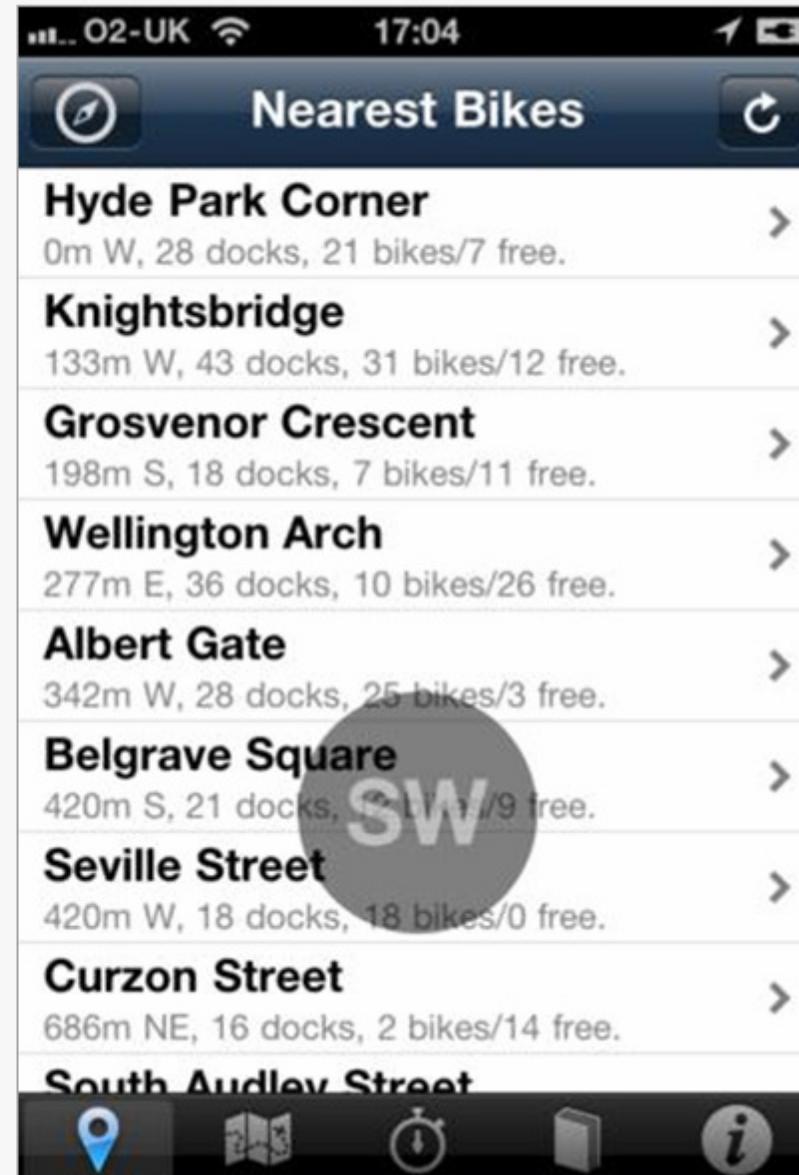
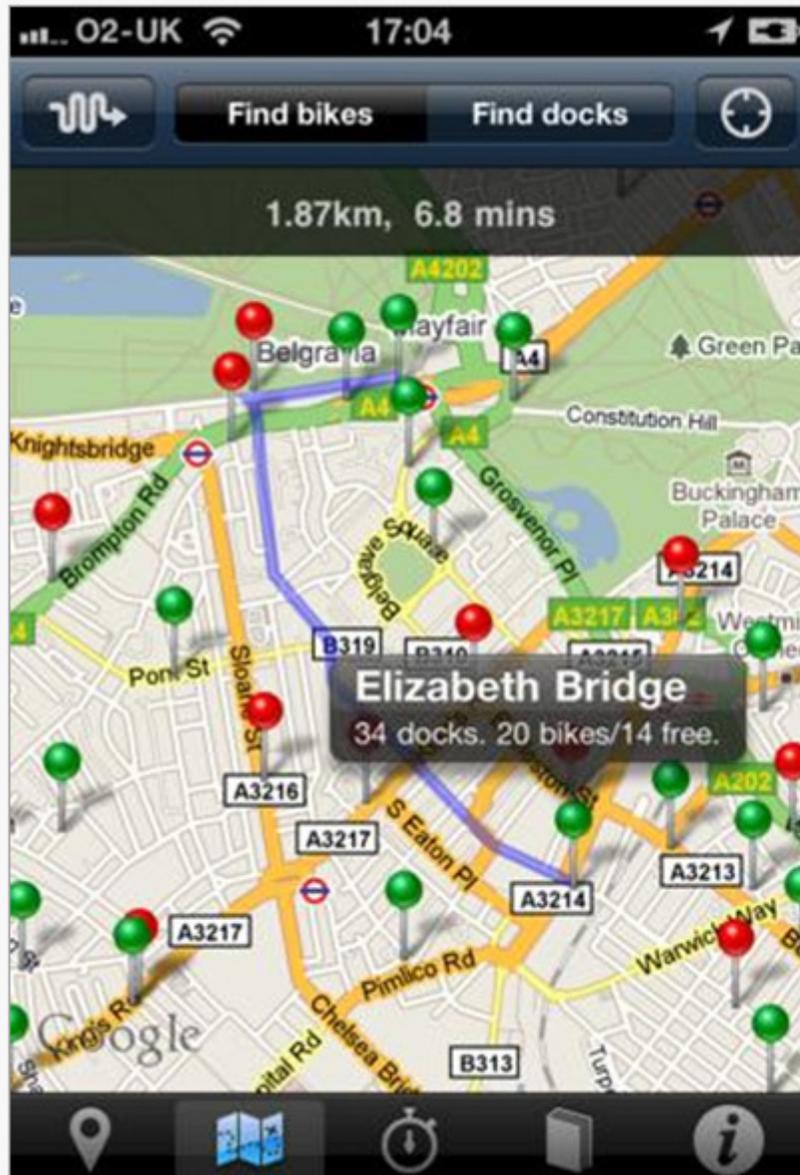
Predicted changes in dwellings between 2014-2015 and 2017-2018

Try dragging the ends of the slider.

23 sites selected in Havant, with a predicted total net new dwellings.

Net change	Site
300	<a href="#">0274: WOODCROFT FARM WOODCRO WECOCK WATERLOOVILLE</a>
165	<a href="#">0236: HAMPSHIRE FARM REDLANDS L EMSWORTH</a>
144	<a href="#">0233B: GRAINGER DEVELOPMENT SITE ROAD WATERLOOVILLE</a>
93	<a href="#">0233A: OLD PARK FARM WATERLOOV</a>
92	<a href="#">0231: PURBROOK PARK SCHOOL PLAY ROAD PURBROOK</a>
84	<a href="#">0197: PADNELL GRANGE PADNELL RC WATERLOOVILLE</a>

# London Bike App



## Realtime travel & weather

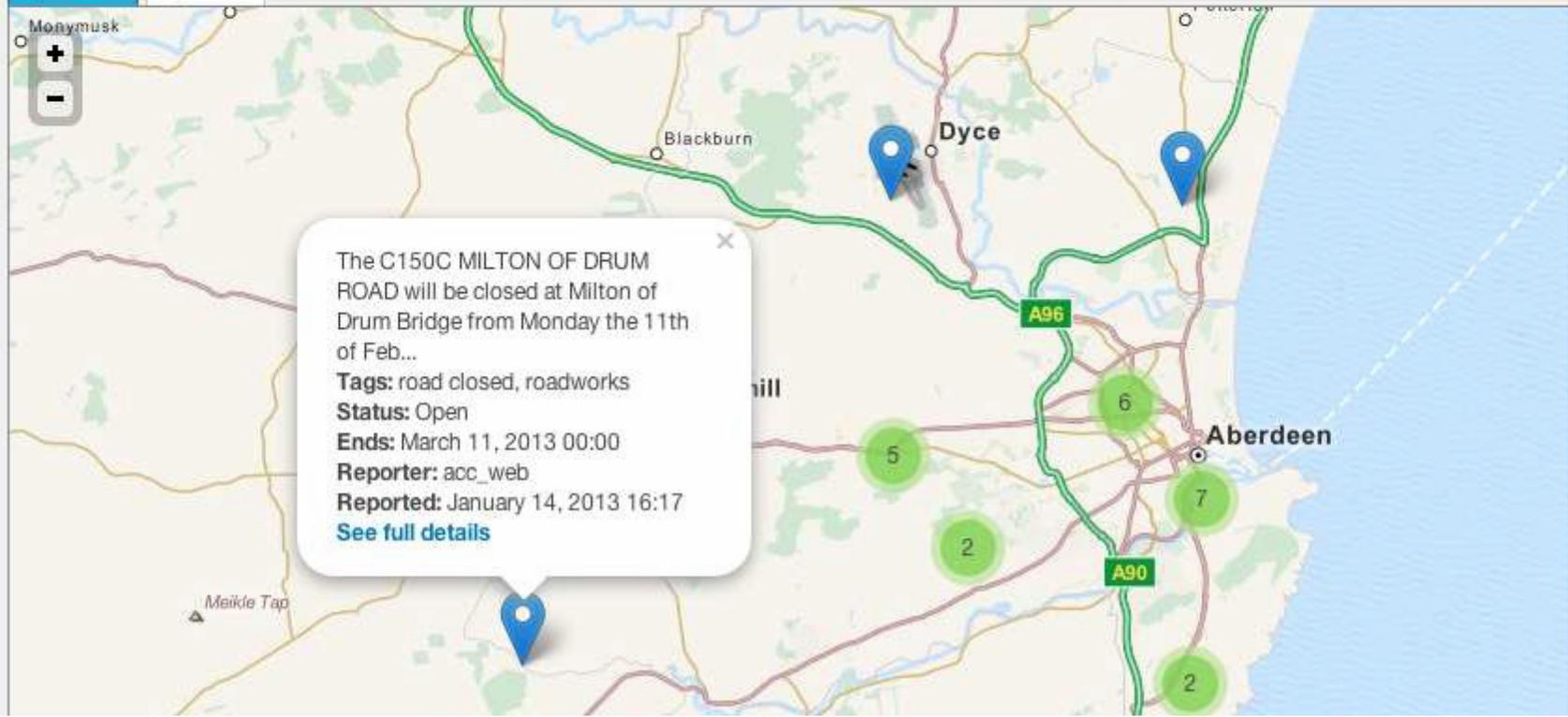
for Aberdeen and Aberdeenshire

16:46 Showing 25 open issues  
03 Mar [change filters](#)

Sign up for email alerts

Report

Map List



The C150C MILTON OF DRUM ROAD will be closed at Milton of Drum Bridge from Monday the 11th of Feb...

**Tags:** road closed, roadworks

**Status:** Open

**Ends:** March 11, 2013 00:00

**Reporter:** acc\_web

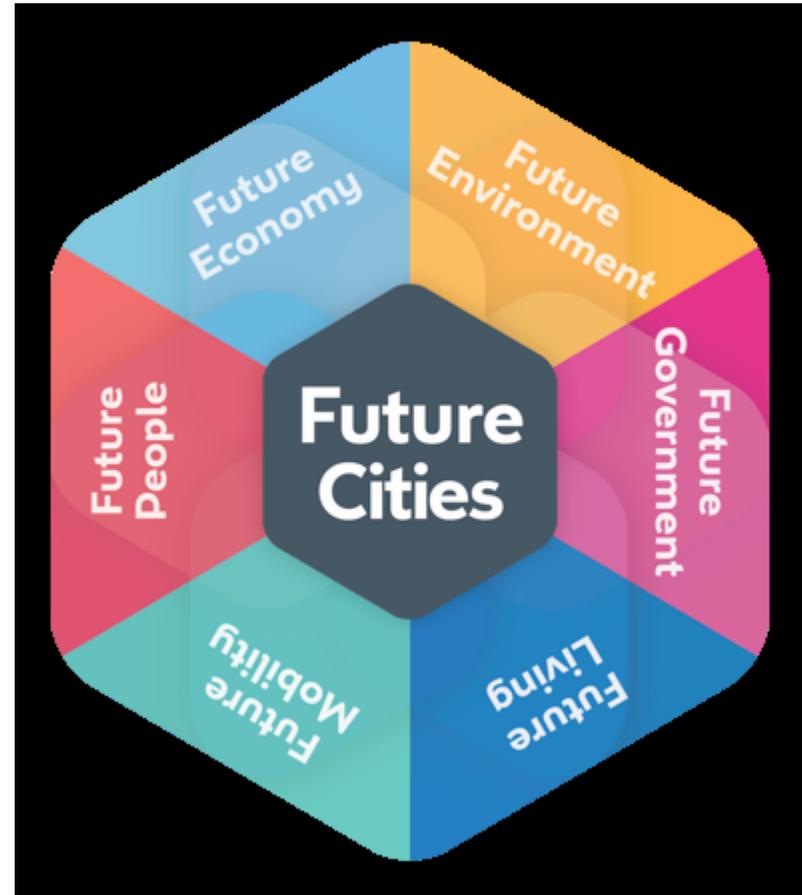
**Reported:** January 14, 2013 16:17

[See full details](#)

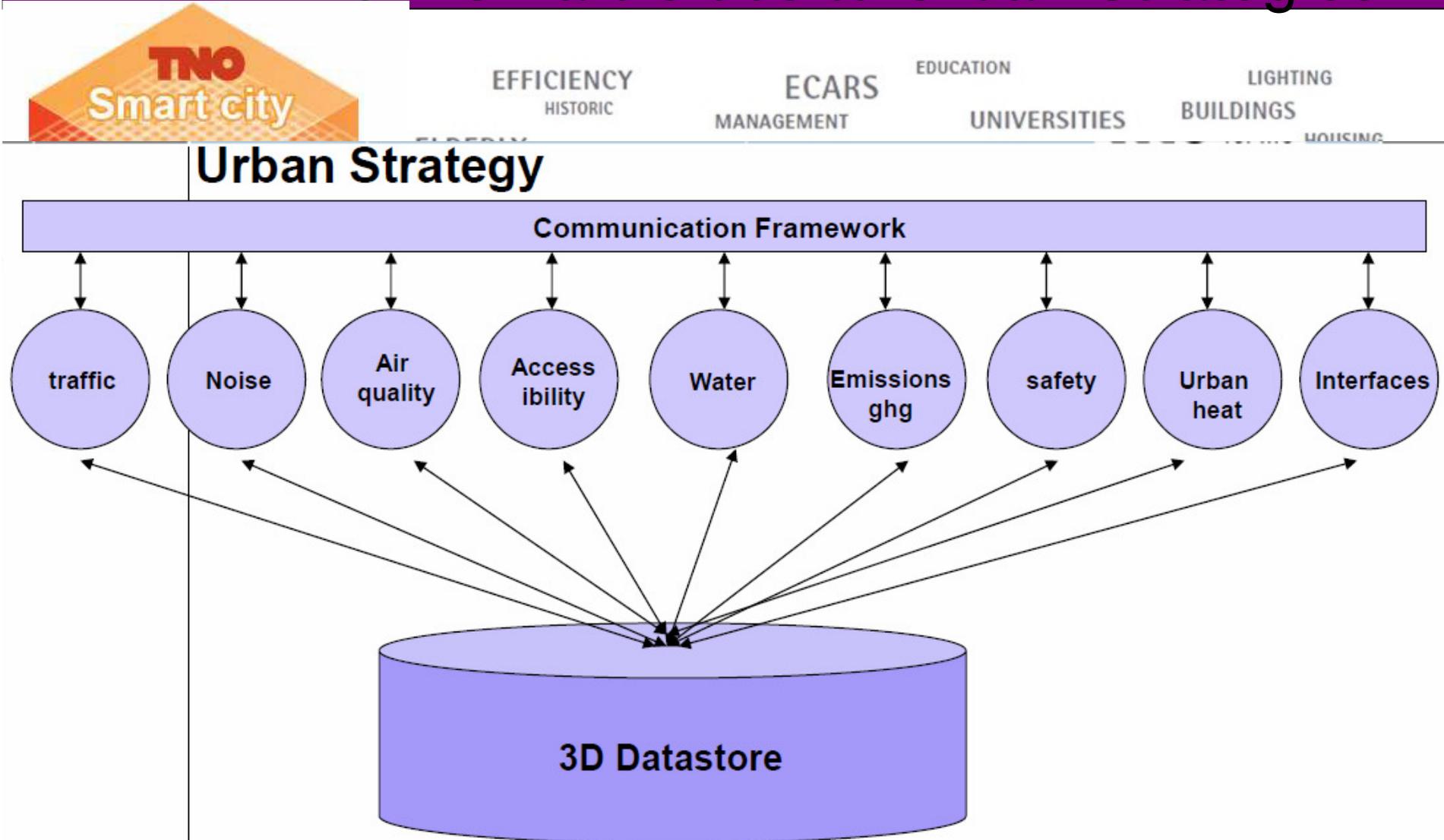
# Glasgow future cities

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- The Smart Cities programme is promoting the use of common standards for the intelligent use of data for operating city environments more effectively and efficiently.
- 4 Themes: Health, energy, travel, public safety
- Open, intelligent operations, real time
- Central map portal, data into maps



# From Smart Cities to Urban Strategies



Urban Strategy integrates environmental modeling in spatial planning

# The future of Geospatial Services

## Today:

- Supply-oriented data provision
- System/organisation centric
- Local or regional data stores,
- Local standards
- Limited use of data services
- Public Domain

## Tomorrow:

- Demand and user-driven
- More user-centric applications
- Open data platforms
- Common standards, linkable
- Seamless services, open data
- Increased business and civic society ownership

Can this be monetised!





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**Questions?**

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# References:

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- Uk government data portal: Data.gov.uk
  - Location information: Data.gov.uk/location
  - Open Data User Group (England only):  
data.gov.uk/odug
  - Open Data request:  
<http://data.gov.uk/odug-roadmap>
  - GI in local government:  
[http://www.local.gov.uk/research-geographic-information.](http://www.local.gov.uk/research-geographic-information)
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