

Open Data: Powering the Information Age

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Electronics and Computer Science
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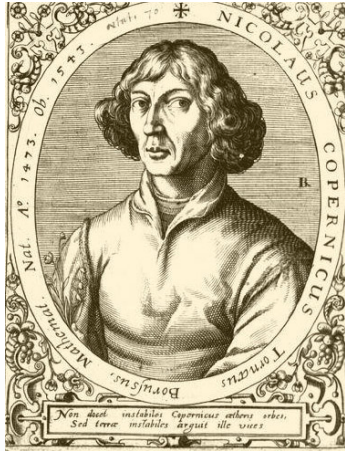
Open Data: Powering the Information Age

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28th March 2012



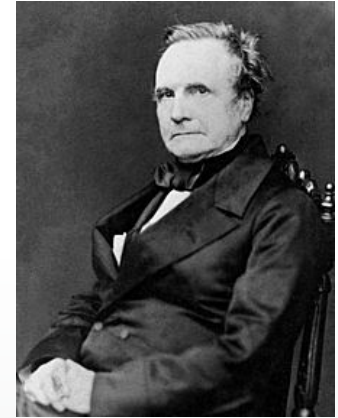
Data and the rise of science...



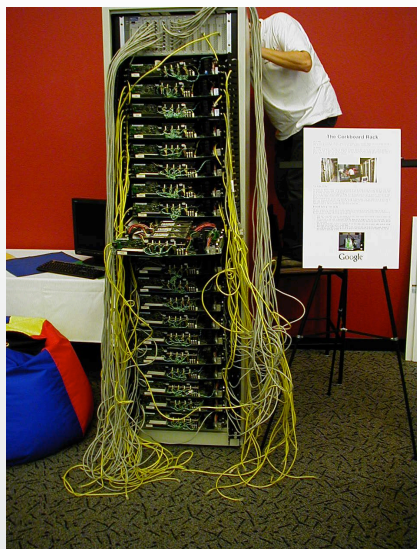
- Copernicus researching from 1497 - 1543
- De revolutionibus orbium coelestium
- Theoretical and empirical reformulation of planetary motion

Capitulum	Propositio	Lemma	Corollarium	Propositio	Lemma	Corollarium
1	10764	148	10	10764	148	10
2	11051	148	10	11051	148	10
3	11322	148	10	11322	148	10
4	11504	148	10	11504	148	10
5	11698	148	10	11698	148	10
6	11897	148	10	11897	148	10
7	12102	148	10	12102	148	10
8	12314	148	10	12314	148	10
9	12532	148	10	12532	148	10
10	12756	148	10	12756	148	10
11	12986	148	10	12986	148	10
12	13222	148	10	13222	148	10
13	13464	148	10	13464	148	10
14	13712	148	10	13712	148	10
15	13966	148	10	13966	148	10
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17	14492	148	10	14492	148	10
18	14764	148	10	14764	148	10
19	15042	148	10	15042	148	10
20	15326	148	10	15326	148	10
21	15616	148	10	15616	148	10
22	15912	148	10	15912	148	10
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25	16836	148	10	16836	148	10
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54	28552	148	10	28552	148	10
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67	35442	148	10	35442	148	10
68	36014	148	10	36014	148	10
69	36592	148	10	36592	148	10
70	37176	148	10	37176	148	10
71	37766	148	10	37766	148	10
72	38362	148	10	38362	148	10
73	38964	148	10	38964	148	10
74	39572	148	10	39572	148	10
75	40186	148	10	40186	148	10
76	40806	148	10	40806	148	10
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84	45982	148	10	45982	148	10
85	46656	148	10	46656	148	10
86	47336	148	10	47336	148	10
87	48022	148	10	48022	148	10
88	48714	148	10	48714	148	10
89	49412	148	10	49412	148	10
90	50116	148	10	50116	148	10
91	50826	148	10	50826	148	10
92	51542	148	10	51542	148	10
93	52264	148	10	52264	148	10
94	52992	148	10	52992	148	10
95	53726	148	10	53726	148	10
96	54466	148	10	54466	148	10
97	55212	148	10	55212	148	10
98	55964	148	10	55964	148	10
99	56722	148	10	56722	148	10
100	57486	148	10	57486	148	10

Data and the ascent of engineering...



The Science and Engineering of Data...



$$I^0 = c_1v_1 + c_2v_2 + \dots + c_nv_n$$

$$I^1 = SI^0 = c_1\lambda_1v_1 + c_2\lambda_2v_2 + \dots + c_n\lambda_nv_n$$

$$I^2 = SI^1 = c_1\lambda_1^2v_1 + c_2\lambda_2^2v_2 + \dots + c_n\lambda_n^2v_n$$

\vdots

$$I^k = SI^{k-1} = c_1\lambda_1^k v_1 + c_2\lambda_2^k v_2 + \dots + c_n\lambda_n^k v_n$$

$$GI^k = \alpha HI^k + \alpha AI^k + \frac{1-\alpha}{n} \mathbf{1}I^k$$

The Power of Data...

- Halevy et al Intelligent Systems March/April 2009 (vol. 24 no. 2) pp. 8-12
- Large scale, comprehensive data
- New forms of research alliance
- New forms of direct data access

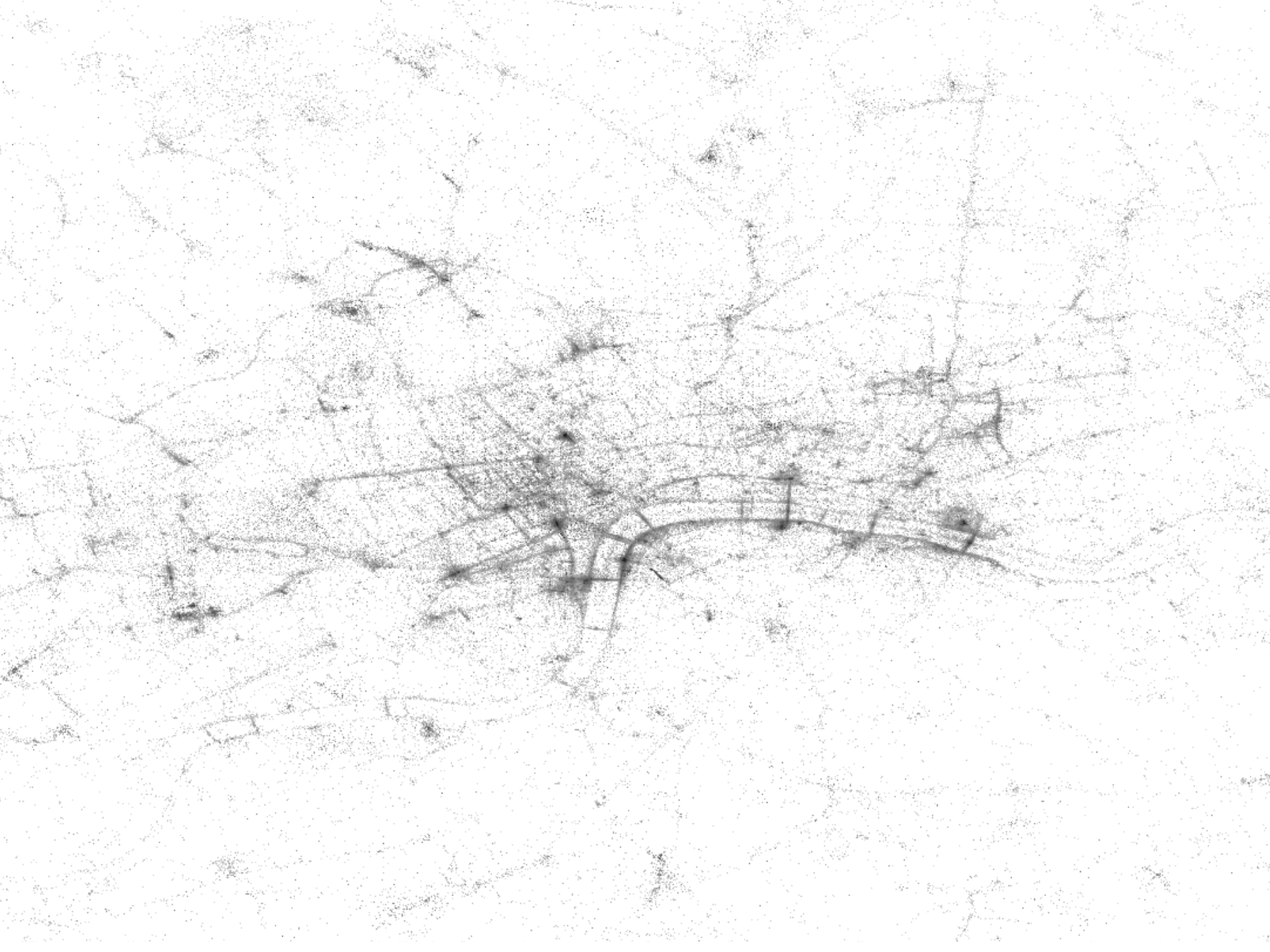
Annual U.S. Flu Activity - Mid-Atlantic Region



Search query topic	Top 45 queries		Next 55 queries	
	n	Weighted	n	Weighted
Influenza complication	11	18.15	5	3.40
Cold/flu remedy	8	5.05	6	5.03
General influenza symptoms	5	2.60	1	0.07
Term for influenza	4	3.74	6	0.30
Specific influenza symptom	4	2.54	6	3.74
Symptoms of an influenza complication	4	2.21	2	0.92
Antibiotic medication	3	6.23	3	3.17
General influenza remedies	2	0.18	1	0.32
Symptoms of a related disease	2	1.66	2	0.77
Antiviral medication	1	0.39	1	0.74
Related disease	1	6.66	3	3.77
Unrelated to influenza	0	0.00	19	28.37
Total	45	49.40	55	50.60

The top 45 queries were used in our final model; the next 55 queries are presented for comparison purposes. The number of queries in each topic is indicated, as well as query-volume-weighted counts, reflecting the relative frequency of queries in each topic.





London, via Flickr (Crandall et al 2009)



The Power of People



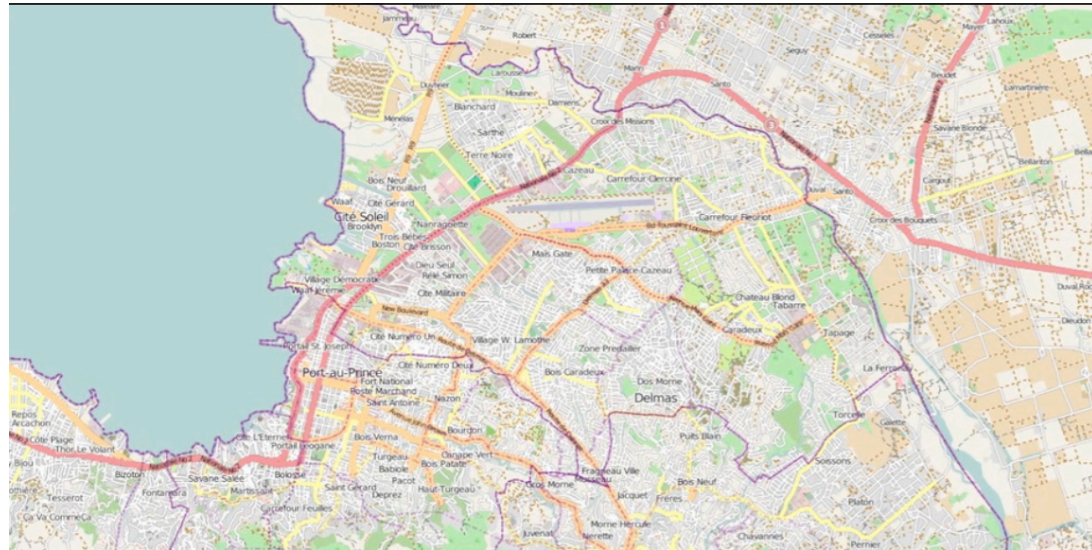
The Power of Open

- Open Standards
- Open Licences
- Open Data
- Open Source

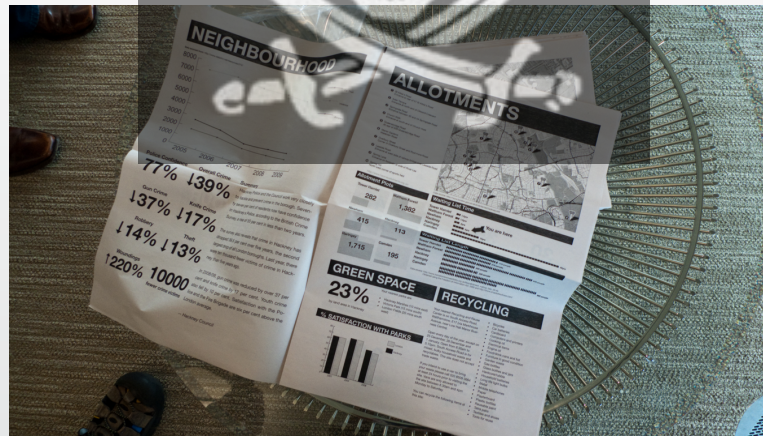


The Power of Open

- Open Standards
- Open Licences
- Open Data
- Open Source



From this....



to this in three months

The screenshot shows the data.gov.uk website. At the top left is the HM Government logo, and at the top right is the URL 'data.gov.uk'. A navigation bar contains links for Home, Blog, Data, SPARQL, Apps, Ideas, Forum, Wiki, Resources, and About. Below the navigation bar is a main banner with the text 'Unlocking innovation' and 'Working with UK Public Sector information and data', accompanied by a blue molecular structure graphic. To the right of the banner are three buttons: 'Subscribe by RSS', 'Community Log in / Sign up', and 'Local Data Panel'. The main content area features a paragraph about government data reuse, a 'Latest news' section with three bullet points, and two columns: 'Search Data' with a search box and 'Browse for Data' with links to datasets and tags. Below these are 'Most Recent Apps' including SaferMK, EnAKTing UK Public Sector Information Data Mashup, and OpenGeoscience. On the right sidebar, there is a 'What is the Semantic Web?' section, a 'Digital Engagement Twitter stream' with a tweet from @stephencimms, and a 'Tell us your idea' button.

HM Government data.gov.uk

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Unlocking innovation
Working with UK Public Sector information and data

Subscribe by RSS

Community
Log in / Sign up

Local Data Panel

What is the Semantic Web?
Combining different data sources has never been easy but the Semantic Web will enable data to be joined easily across boundaries.
Read more

Digital Engagement
Twitter stream

RT
@stephencimms: #digitalbritain Announced in House today establishment of Broadband Delivery UK, chief executive Adrian Kamellard
Follow us on Twitter

Tell us your idea

Advised by Sir Tim Berners-Lee and Professor Nigel Shadbolt and others, government is opening up data for reuse. This site seeks to give a way into the wealth of government data and is under constant development. We want to work with you to make it better.

We're very aware that there are more people like you outside of government who have the skills and abilities to make wonderful things out of public data. These are our first steps in building a collaborative relationship with you.

Latest news:

- Read about our latest site changes
- information about the Local Data Panel
- applications in the news

Search Data

Enter keyword(s) Search

e.g. education, NHS, crime, transport, environment

Powered by: CKAN

Browse for Data

List all datasets

By Public Body

Common tags

Most Recent Apps View all apps +

SaferMK
This is a crime reduction application that has two key functions: 1. simple-
traces interface

EnAKTing UK Public Sector Information Data Mashup
Map application that using OpenSpace

OpenGeoscience
Discover if you live on rocks from an extinct volcano, in the middle of an ancient river or
near water

to this in 24 months...

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Opening up government

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Enter your postcode to find tools and information about your local area using government data


Who does what in Whitehall?




How your money is spent




Government contracts in full




Who ministers are meeting



Business plans



Applications

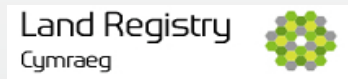


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Beginnings in UK



University of Southampton project to show how open data could deliver services across Government (2005-06)



Reported to UK Parliament

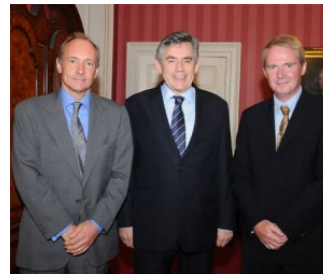
The United Kingdom Implementation of the European Directive on the Re-use of Public Sector Information

- the first two years

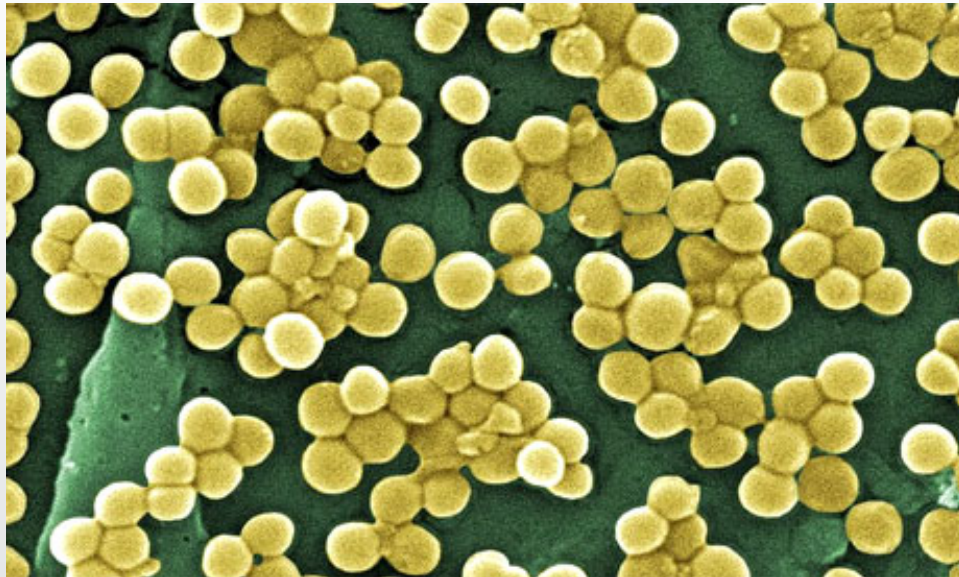
AKTive PSI: Leading by Example

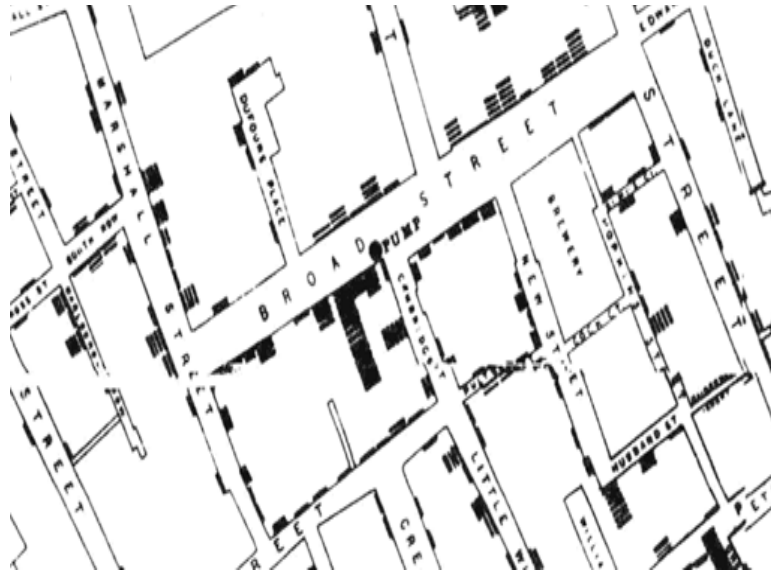
- 4.20 The UK public sector is a source of rich, high quality and sought after data. While much of this information is published and available for re-use by others, it is often trapped by poor data structures, locked up in legacy data formats or in fragmented databases.
- 4.21 To explore the issues more fully, in 2005-6, OPSI worked with Advanced Knowledge Technologies (AKT),³⁶ an inter-disciplinary research project led by the University of Southampton. OPSI's work with AKT, in a research project called AKTive PSI, had two aims:
- to raise awareness about and disseminate the capabilities of semantic web technologies amongst government departments, agencies and local authorities;
 - to show what is possible using this technology.
- 4.22 OPSI brought together a diverse collection of public sector information assets to experiment with. A number of public sector organisations were involved in the project, including Ordnance Survey, the Met Office, the Department for Communities and Local Government, the Office for National Statistics, the Department for Environment, Food and Rural Affairs, the Environment Agency and the London Boroughs of Camden and Lewisham. The project underlined the potential for the use of semantic web technology in large scale integration of public sector information and the benefits such aggregation would bring. Semantic Web technology provides the best model for a range of interoperability issues. If widely adopted it would do much to harness the re-use of public sector information.
- 4.23 AKTive PSI has spawned further work in government using Semantic Web technology³⁷. OPSI is using this technology in the following ways:

The Power of People



COURTESY: EUROPEAN COMMISSION





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DATA BLOG

Facts are sacred

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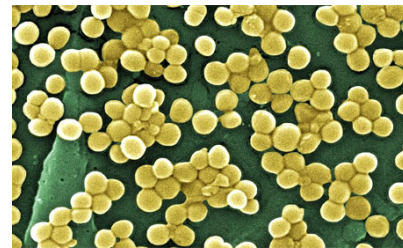
[Blog home](#)

Data in full: government publishes NHS MRSA and C.Diff infection rates

• [Get the data](#)

Open Government Data – reasons

- Transparency
- Accountability
- Efficiency
- Public Service Delivery
- Engagement
- Data Improvement
- Society value
- Economic value



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News / Society / MRSA and superbugs

DATABLOG

Facts are sacred

Previous Blog home

Data in full: government publishes NHS MRSA and C.Diff infection rates

• Get the data

Crime and ASB in this area

Streets-level crime and ASB in December 2019

All crime and ASB: 671

Crime type	Count
Burglary	52
Anti-social behaviour	248
Rubbish	2
Vehicle crime	12
Violent crime	1
Other crime	192

Powered by Spikes Cavell

spotlightsonspend
Transparency. Delivered

Overview of the spend for Royal Borough of Windsor & Maidenhead

	Actual Spend	Compared to English Unity Authority Average
Total Spend	£72,820,736	-36%
Spend / Public Employees	£44,161	+134%
Spend with SMEs	46%	-8.8%
Spend Locally	15%	-7.0%
Spend / Households	£1,296	-16%
Spend / Working Adults	£828	-12%
Spend / Persons of Pensionable Age	£2,783	-8%
Spend / Children	£2,540	-23%

Eric Pickles
Secretary of State
Communities and Local Government

open the data...

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- View spend in summary
- View spend by category
- View carbon emissions
- Key people & facts
- Freedom of Information
- About the data
- Tell me more

I'm really excited about the opportunities of transparency and it's something the government is utterly committed to. spotlightsonspend demonstrates that, when innovative businesses work with far-sighted public bodies, we can inform the public, reduce costs and improve delivery both locally and nationally.

Eric Pickles
Secretary of State
Communities and Local Government

POLICE.UK Greenwich, London SE10 9JW, UK Search

Overview Crime maps Meet the team Get Involved Information and advice Help Feedback Data Police apps

Crime and ASB in this area

Crime types Streets Neighbourhood

Street-level crime and ASB in December 2010
Grouped by crime types. To protect privacy, individual addresses are not pinpointed on the map. Crimes are mapped to an anonymous point on or near the road where they occurred.

All crime and ASB 671

To show crimes of a specific type click on the links below. To view details of individual crimes click the markers on the map.

- Burglary 50
- Anti-social behaviour 260
- Robbery 21
- Vehicle crime 57
- Violent crime 91
- Other crime 192

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- OS Street View @
- Boundary-Line™
- OS VectorMap™ District - New

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- Enhance online projects
- Put Ordnance Survey maps on your website

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supply

Order OS OpenData on hard media or download direct to your PC, Mac or laptop (please note - you may need specialist GIS data software to view and use this data...)

about

View, download and order OS OpenData or use OS OpenSpace to enhance your own application.

You can also experiment with OS OpenData in RSC format.

If OS OpenData doesn't meet your needs, why not try:

- The Ordnance Survey Map Shop for paper maps.
- The Explorer portal for routes, photos and blogs.
- Ordnance Survey mapping for business or education.

help

See our FAQ page to find answers to any questions you might have about OS OpenData, get more technical help with the map viewer or downloads.

Or you can email or call us on 0845 408 1895 (8.30am - 5.30pm, Monday to Friday):

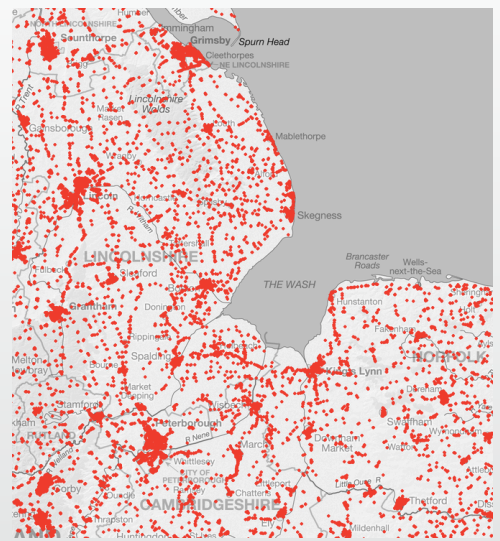
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- All Smartphones: To install the Bus Guru mobile app open the following link in your phone's browser: <http://m.busguru.co.uk> (the web app can usually be saved on your phone from the browser).

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- **LIVE JOURNEY PLANNER:** Compare the quickest routes AND live bus times using Bus Guru's Journey Planner integrated with live bus times. So you can find the fastest bus AND which bus is leaving first. (We have combined two very complex systems so please email support@busguru.co.uk if you find any blips and we will update the app).
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Inside Government Data

Who's who in Government and where does the money go? Follow these links to find the data that opens it all up.

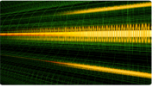
- Government spend over £25,000, by department
- Who does what in Whitehall - and how much are they paid?
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Facts, figures, apps and more


Data

Looking for something specific, or just want to know more about how Government spends your money? You'll find 4,600 datasets to help you get answers.




Apps

Want your phone to wake you when you get to your train station? Discover over 100 apps harnessing public data to make your life easier.




Ideas

Does Britain need a map showing which roads have been gritted when it snows? Read and rate over 300 bright ideas about how the data on this website could be used.




Apps

Does data matter? Why should it be open to everyone? Head to the blogs to find out more from the team behind this website and add your own thoughts.



Resources

Here's where you can access tools to help you analyse, adapt and share the data. You'll also find video interviews and other features to help you get more out of this data.




Latest from the forum

Application submission
by one-app 12/04/2010 - 19:22

Editing/updating a dataset
by rnhblackpool 16/11/2010 - 09:51

View all forum posts

Why publish our data?



Nigel Shadbolt
click to watch
image: CC-BY - Eion University


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Home Office and Ministry of Justice Hack Day

Digital Engagement Blog

CKAN Technology

Read more about the CKAN technology behind data.gov.uk



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- Latest Suggestions
- API Beta



A first step towards freeing London's data

Visualization by [TLC 2009](#) using London Transport data

Welcome to the London Datatore

The London Datatore has been created by the Greater London Authority (GLA) as an innovation towards freeing London's data. We want citizens to be able access the data that the GLA and other public sector organisations hold, and to use that data however they see fit – free of charge. The GLA is committed to influencing and enabling other public sector organisations into releasing their data here too.

Releasing data though is just half the battle. Raw data often doesn't tell you anything until it has been presented in a meaningful way. We want to encourage the masses of technical talent that we have in London to transform rows of text and numbers into apps, websites or mobile products which people can actually find useful.

Join the conversation via [Google](#), [Twitter](#) or [email](#) and give us your thoughts and feedback - we want to make this site work for you!

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8/09/10

27th OCTOBER 2010

Yesterday City Hall hosted a

Twitter

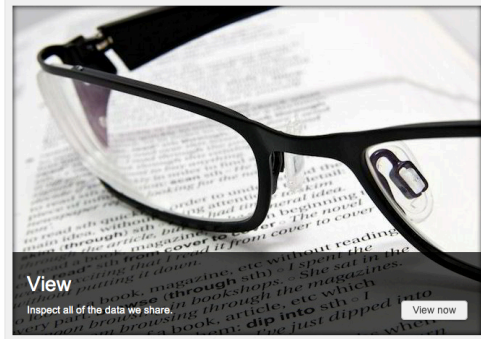
[@londondatastore](#)

LEGGI dataset of energy consumption within the Greater London area available at [http://bit.ly/9nH4K6](#) about 6 hours ago

open data movement hits dublin with the help of @ScraperWiki [http://data.fingal.ie/3](#) 4 days ago

New dataset showing low carbon generators installed on GLA properties, starting with fire stations [http://bit.ly/6V1N17](#) 3 days ago

DataShare
Our Data. Free for all.




View
Take a look at all of the data we share.

Download
Get the data we share for your own use.


About
Find out about the data we share. Licenses, usage, it's all here.

Featured data




Senior staff salaries
Salary details of Redbridge's senior officers.

[View now](#)



Website usage
Visits to Redbridge |

[View now](#)



Payments over £500
Payments made to suppliers where the invoice total amounts to over £500.

[View now](#)

Developer?

Take a look at our Developer section for API details etc.

Contact us

Tell us what you'd like added or explained

Open Government Data: around the world...

HM Government Log in or sign up

data.gov.uk
Opening up government

What are you looking for?

Home Data Apps Ideas Forum Wiki Blogs Linked Data Resources About

Wind, hydro, wave, biomass – what's renewable where you are?



Over 4,600 datasets to view

Inside Government Data

- Who's who in Government and where does the money go? Follow these links to find out the data that opens it all up.
- Government spend over £25,000, by department
- Who does what? What's hot - and how much are they paid?
- Hospitality, gifts and expenses

Share this

Facts, figures, apps and more

Data
Looking for something specific, or just want to know more about how Government spends your money? You'll find 4,600 datasets to help you get answers.

Apps
Want your phone to wake you when you get to your train station? Discover over 100 apps harnessing public data to make your life easier.

Ideas
Does Britain need a map showing which roads have been gritted when it snows? Read and rate over 300 bright ideas about how the data on this website could be used.

Bloggs
Does data matter? Why should it be open to everyone? Read the blog to find out more from the team behind this website and add your own thoughts.

Resources
Here's where you can go to analyse, adapt and add your own thoughts. You'll also find video and features to help you get started.

Tags
Can't decide where to start? You can browse the data by clicking on popular topics. Try one of the tags here to find what you're most interested in.

health (1,500) | health-and-social-care (946) | care (926) | population (326) | health-well-being-and-care (744) | child (842) | children (612) | economy (610)

Latest from the forum

Application submission
by one-app 12/04/2010 - 19:22

Editing/Updating a dataset
by mshackpool 16/11/2010 - 09:51

Who publishes our data?

Home Office and Ministry of Justice Hack Day

Nigel Shadbolt
click to watch

Gobierno de Chile

Bienvenido al portal de datos públicos del Gobierno de Chile

Accede a datos públicos generados tanto por el gobierno como por otros organismos del Estado.

Catálogo de datos - recientes

<p>12 de noviembre del 2010 a las 12:30</p> <p>Nivel Rendimiento 2006 al 2010</p> <p>Fuente: Subsecretaría de Educación</p> <p>Categorías: Educación</p> <p>Formatos:  </p>	<p>26 de noviembre del 2010 a las 12:30</p> <p>Nivel Matriculación 2006 al 2010</p> <p>Fuente: Subsecretaría de Educación</p> <p>Categorías: Educación</p> <p>Formatos:  </p>	<p>26 de noviembre del 2010 a las 12:30</p> <p>Nivel Calificaciones 2006 al 2010</p> <p>Fuente: Subsecretaría de Educación</p> <p>Categorías: Educación</p> <p>Formatos:  </p>
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¿En qué consiste la liberación de datos públicos?

Ejemplos de utilización de datos públicos

data.australia.gov.au
your connection with government

HOME CATALOGUE OTHER CATALOGUES

Welcome

data.australia.gov.au is the home of Australian government public information datasets. We encourage you to make government information even more useful by making-up the data to create something new and exciting! Make sure you pay attention to the licence attached to the datasets you are interested in using. Each licence should make clear what you can and can't do with the data. If you're unsure, please contact the contributing agency.

Start browsing the collection.

Browse Data by Category **Recently-Added Datasets**

DATA.gov
An Official Web Site of the United States Government

HOME DATA + TOOLS COMMUNITY METRICS DIALOGUE GALLERY WHAT'S NEW

PUBLIC ELEMENTARY AND SECONDARY EDUCATION SCHOOL DATA

Most Popular Datasets

- U.S. Overseas Loans and Grants (Greenbook)
- Workshide M+ Earthquakes, Part 7 Days
- Food and Drug Administration-Recalls
- Climate Reference Network Hourly Product
- TSCA Inventory

COMMUNITY

Data.gov is leading the way in democratizing public sector data and driving innovation. The data is being surfaced from many locations making the Government data stores available to researchers to perform their own analysis. Developers are finding good uses for the datasets, providing interesting and useful applications that allow for new views and public analysis. This is a work in progress, but this movement is spreading to cities, states, and other countries. After just one year a community is born around open government data.

Just look at the numbers:

- 7 Other nations establishing open data 16 States now offering data sites
- 9 Cities in America with open data 233 Data contacts in Federal Agencies
- 305,692 Datasets available on Data.gov

date.gov.md
Portalul datelor deschise

CASA DATE APLICATII INDICATORI NOUȚĂȚI IMPLICĂȚE

REGISTRUL DE STAT AL ACTELOR JURIDICE
de Republica Moldova

registru de Stat al Actelor Juridice ale Republicii Moldova

Vrei un guvern deschis și transparent?

Este în vînt pe portalul guvernamental al datelor deschise. Ai poți data, deschide și reutilizează datele guvernamentale deschise pentru a spori transparența, performanța și responsabilitatea instituțiilor publice. Datele deschise sunt datele oferite de autoritățile publice în format procesabil electronic, în cel mai descriptiv nivel. Totodată, accesul nu conține informații în caracter personal, secrete comerciale și secrete de stat.

Identificarea și publicarea seturilor de date de interes pentru cetățeni și medii de afaceri este una din atribuțiile autorităților publice. Această practică va spori transparența, performanța și responsabilitatea sectorului public. Data.gov.md încurajează participarea activă a cetățenilor. Tu și țoți cetățenii pot promova și beneficia de deschiderea datelor.

La moment sunt publicate 166 seturi de date. Fă cunoștință cu datele!

TOP MINISTERE

- 1 Ministerul Afacerilor Interne
- 2 Ministerul Educației
- 3 Ministerul Tehnologiei Informa...
- 4 Ministerul Sănătății
- 5 Ministerul Finanțelor

TOP SĂPTĂMÎNĂ

- 1 Cheltuieli bugetului d... (30)
- 2 Lista programelor/proiec... (23)
- 3 Actiuni consulare: viz... (17)
- 4 Statistica persoanelor m... (13)
- 5 Informația cu privire l... (12)

TAGURI POPULARE

registru de Stat al Actelor Juridice ale Republicii Moldova

personale economice

KENYA openData

Home About Kenya Open Data Data Catalogue Suggest a Dataset Community Apps Help Sign Up Sign In

Open Government Partnership

Kenya has stated its intention to participate in the global Open Government Partnership - a global movement of Countries that seek to empower their citizens to be involved in and hold their governments, engaging Kenyans in the development of their Communities.

Open Government Partnership

Latest Datasets and Views

- Poverty Rate, by District
- County Expenditures by Administration 2009 to 2009-9
- Kenya Primary Schools, 2007
- Health Facilities
- County Urbanization 2009

Kenya County Fact Sheets Dec 2011

Seven years after the next Gen! Kenyan citizens will reform the Provincial and Local Government administration systems, which were created at independence.

Budget 2010 to 2011 recurrent plus development

Chairperson vice expenditure by administrative level. Size of base shows how large the vote is in the budget. Color shows changes from last year.

Quarterly GDP 2000 - 2011 Chart

KBIS: Quarterly Gross Domestic Product by Economic Sector. 2000 - 2011 - KShn Million at Constant 2011 prices

Counties

Information on the 47 Counties can be found here. Early Find data sets relating to a specific County.

Developer? Check here!

Find out about our powerful developer APIs and tools.

data.govt.nz

Search New Zealand Government data

Home Catalogue Add Dataset Discussion Contact Us

Government datasets online

data.govt.nz is a directory of publicly available, non-personal New Zealand government datasets. This site does not host data, instead it links to datasets held on other government websites. For more info, see about this site.

Take the data.govt.nz user survey.

Departments to provide information for government, businesses and the public. New Zealand's site, StatSphere, website. Here are official statistics.

Caută în:

RECOMANDAREA ZILEI

Cheltuieli bugetului de stat, p...

SETURI DE DATE NOI

- 1 Indic statistice privind...
- 2 Date statistice despre pe...
- 3 Date statistice despre pe...
- 4 Informația cu privire la...
- 5 Date privind prestația me...

Financial Statements of the
of 30 June 2010 The Treasury

Join the open data discussion

Tell us about:

- your priorities: which unreleased government datasets you'd most like to see made available.
- this site: suggest a feature or enhancement

Have your say

Other open data sources

- StatSphere
- DigitalNZ
- National Broadband Map
- Open Data Catalogue
- Koordinates

REGISTRUL DE STAT AL ACTELOR JURIDICE
de Republica Moldova

registru de Stat al Actelor Juridice ale Republicii Moldova

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- Koordinates

Open Data achievements

- National, Regional and City portals launched
- Significant data sets released
- Public Data Principles
- Open Licences
- Developer communities
- Reviews and consultation
- International collaboration

The screenshot displays the data.gov.uk website interface. At the top, there is a navigation bar with the HM Government logo and a search bar. Below the search bar, a menu includes links for Data, Apps, Ideas, Forum, Blogs, Consultation, Linked Data, Resources, and About. A search input field is present with a 'Go' button. Below the search bar, there are several featured data sets with images and titles: 'Who does what in Whitehall?', 'How your money is spent', 'Government contracts in full', 'Who ministers are meeting', 'Business plans', and 'Applications'. The DataShare logo is visible, along with the Redbridge logo. Below these, there are sections for 'View' and 'Download' data. The main content area features a large image of glasses on a document, with a 'View' button and the text 'Inspect all of the data we share.' Below this, there is a 'Featured data' section with a card for 'Senior staff salaries' and a 'View now' button. The bottom section includes a 'Developer?' link and a 'Datastore' section with a search bar and a 'View' button. The right sidebar contains social media links for Facebook, Twitter, and LinkedIn, and a 'Latest blog entry' section with a link to 'A first step towards freeing London's data'.

Location, location, location...

www.ordnancesurvey.co.uk/opendata

home view develop supply help

OS Ordnance Survey **OS OpenData**

Mapping data and geographic information from Ordnance Survey

Create and support innovative, exciting ideas and applications using Ordnance Survey mapping. With OS OpenData you can access a selection of the most detailed mapping datasets available for Great Britain.

Now available - OS VectorMap™ District - a new mid-scale vector and raster dataset (alpha version).

view

- Outline of Great Britain
- Overview of Great Britain
- MiniScale ©
- 1:250 000 Scale Colour Raster
- OS Street View ©
- Boundary-Line™
- OS VectorMap™ District - **New**

develop

- Create amazing web applications
- Enhance online projects
- Put Ordnance Survey maps on your website

Our API uses JavaScript to make web pages more interactive, anyone can create an application by following simple code and tutorials.

supply

Order OS OpenData on hard media or download direct to your PC, Mac or laptop (please note - **you may need specialist GI data software to view and use this data...**)

about

View, download and order OS OpenData or use OS OpenSpace to enhance your own application.

You can also experiment with OS OpenData in RDF format.

If OS OpenData doesn't meet your needs, why not try:

- The Ordnance Survey [Map Shop](#) for paper maps.
- The [Explore portal](#) for routes, photos and blogs.
- Ordnance Survey mapping for [business](#) or [education](#).

help

See our [FAQ](#) page to find answers to any questions you might have about OS OpenData, get more [technical help](#) with the map viewer or downloads.

Or you can [email](#) or call us on **0845 408 1895** (8.30am - 5.30pm, Monday to Friday).

- [OS OpenData Licence](#)
- [Privacy policy](#)
- [Website terms and conditions](#)

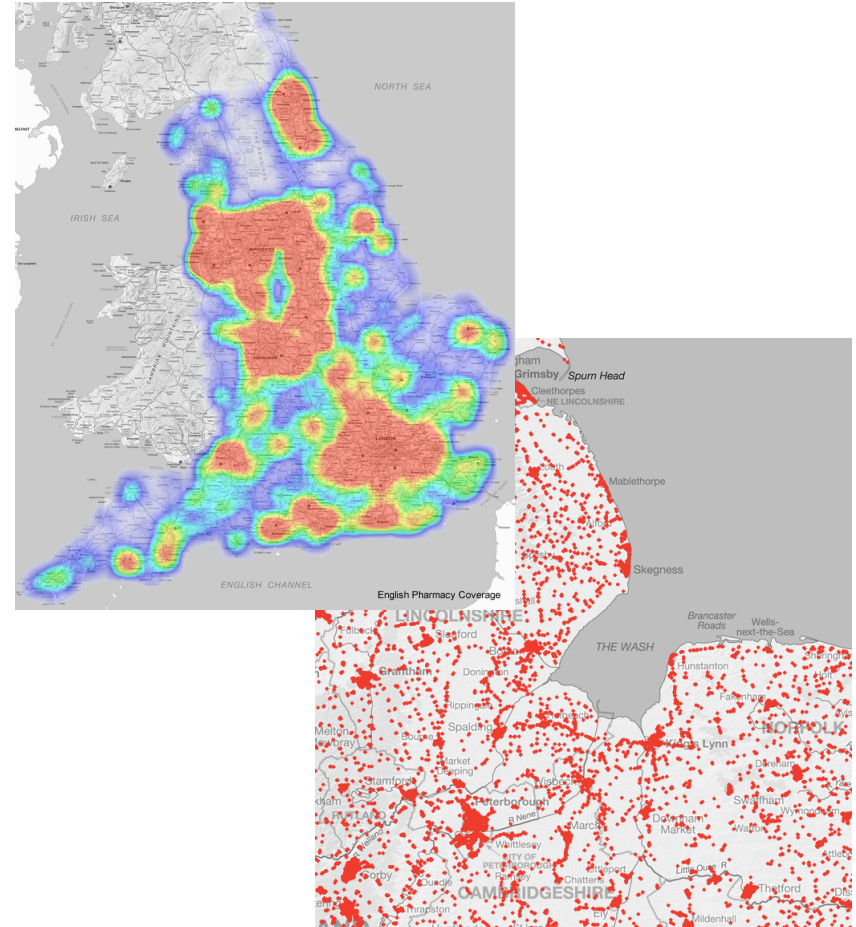
keep in touch

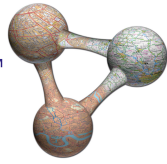
Follow us on Twitter, Facebook or YouTube.

[YouTube](#) [t](#) [facebook](#) [Blog](#)

Featured blogs:

- [Ordnance Survey Blog, Sir Tim Berners-Lee, Professor Nigel Shadbolt, Digital Engagement](#)





<p>MiniScale® Format: TIFF (LZW) GB Set: 300 Mb</p>	<p>1:250 000 Scale Colour Raster Format: TIFF (LZW) GB Set: 112 Mb</p>	<p>OS Street View® Format: TIFF (LZW) GB Set: 22 Gb England: 14 Gb Scotland: 6 Gb Wales: 2 Gb</p>	<p>OS Locator™ Format: CSV GB Set: 35 Mb</p> <p>Bridgewater Road Locality: Castle County: Cumbria LA: Carlisle District</p>
<p>1:50 000 Scale Gazetteer Format: CSV GB Set: 20 Mb</p>	<p>Boundary-Line™ Format: ESRI® Shapefile GB Set: 20 Mb</p> <p>St Aiden's Ward Carlisle District Cumbria County</p>	<p>Land-Form PANORAMA® Format: DXF™ Contours ASCII Grid DTM GB Set: 530 Mb</p>	<p>Code-Point® Open Format: CSV GB Set: 20 Mb</p> <p>CA3 8XB</p>
<p>Strategi® Format: ESRI Shapefile/DXF GB Set: 52 Mb/52 Mb</p>	<p>Meridian™ 2 Format: ESRI Shapefile/DXF GB Set: 200 Mb/150 Mb</p>	<p>OS VectorMap™ District Format: ESRI Shapefile/TIFF (LZW) GB Set: 6 Gb/4.5 Gb</p>	<p>OS OpenData™</p> <p>Ordnance Survey is Great Britain's national mapping agency, providing the most accurate and up-to-date geographic data, relied on by government, business and individuals. OS OpenData is the opening up of Ordnance Survey data as part of the drive to increase innovation and support the 'Making Public Data Public' initiative.</p> <p>w: www.ordnancesurvey.co.uk/opendata e: opendata@ordnancesurvey.co.uk</p>

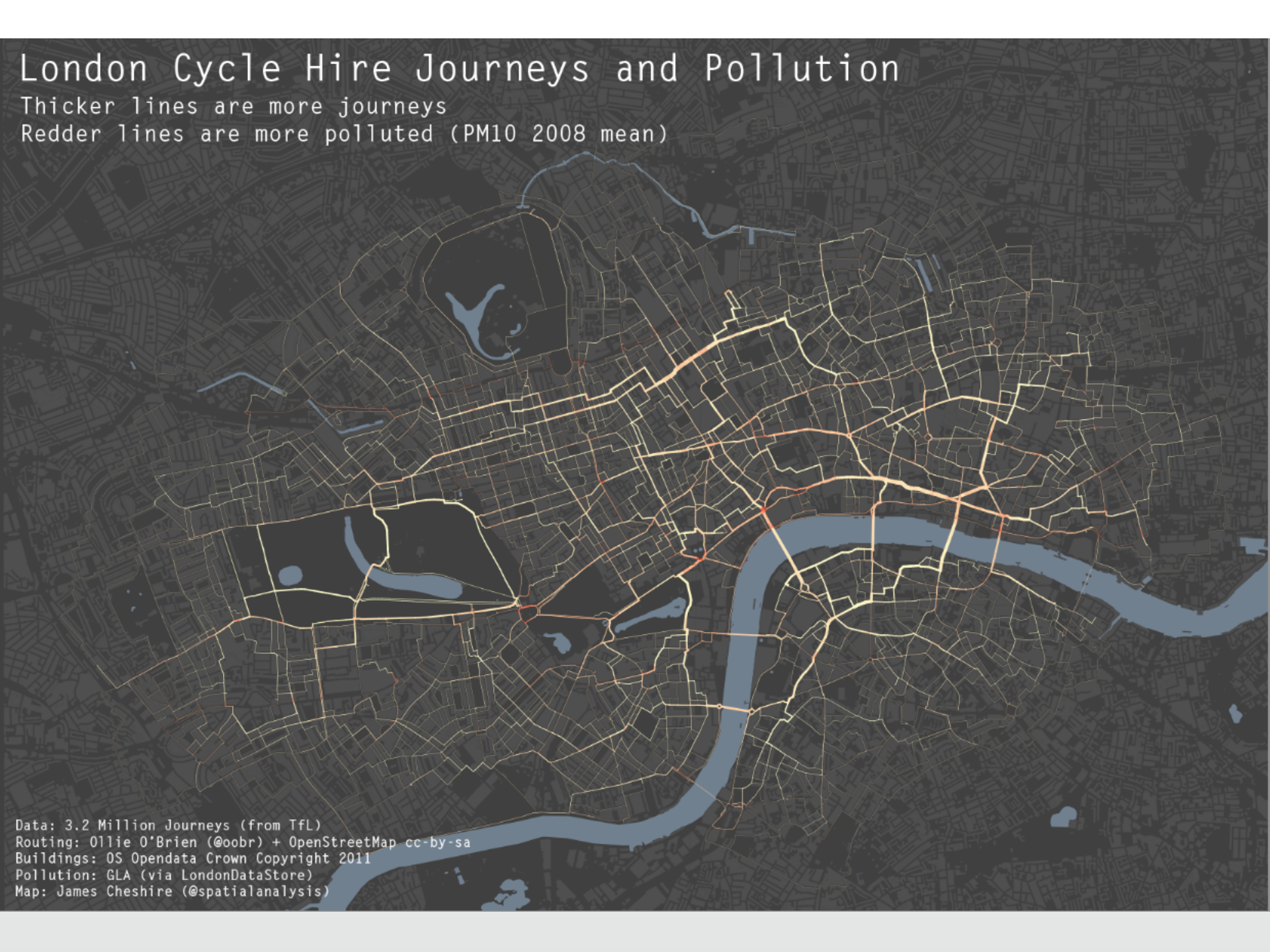
See also: Linked data <http://www.ordnancesurvey.co.uk/opendata/linkeddata.html>

London Cycle Hire Journeys and Pollution

Thicker lines are more journeys

Redder lines are more polluted (PM10 2008 mean)

Data: 3.2 Million Journeys (from TfL)
Routing: Ollie O'Brien (@oobr) + OpenStreetMap cc-by-sa
Buildings: OS Opendata Crown Copyright 2011
Pollution: GLA (via LondonDataStore)
Map: James Cheshire (@spatialanalysis)

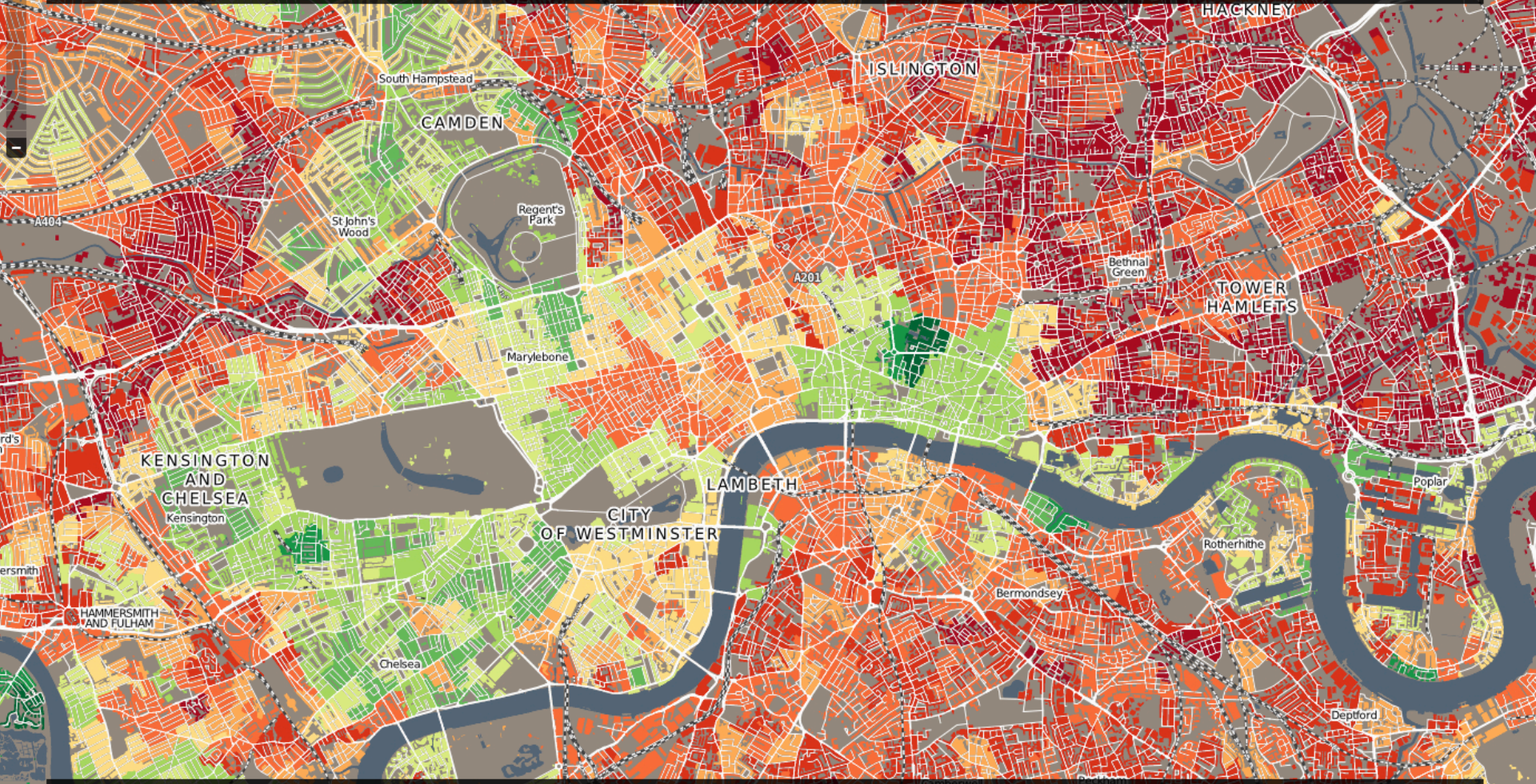


GEODEMOGRAPHICS OF HOUSING IN GREAT BRITAIN

A NEW VISUALISATION IN THE STYLE OF CHARLES BOOTH'S MAP

CREATED BY **OLIVER O'BRIEN (@OOBR)**, **UCL CASA** - [MORE INFORMATION](#)

Like Tweet 280 44



SHOWING THE **INDEX OF MULTIPLE DEPRIVATION (2010)**

MOST DEPRIVED DECILE 2ND 3RD 4TH 5TH 6TH 7TH 8TH 9TH LEAST DEPRIVED DECILE

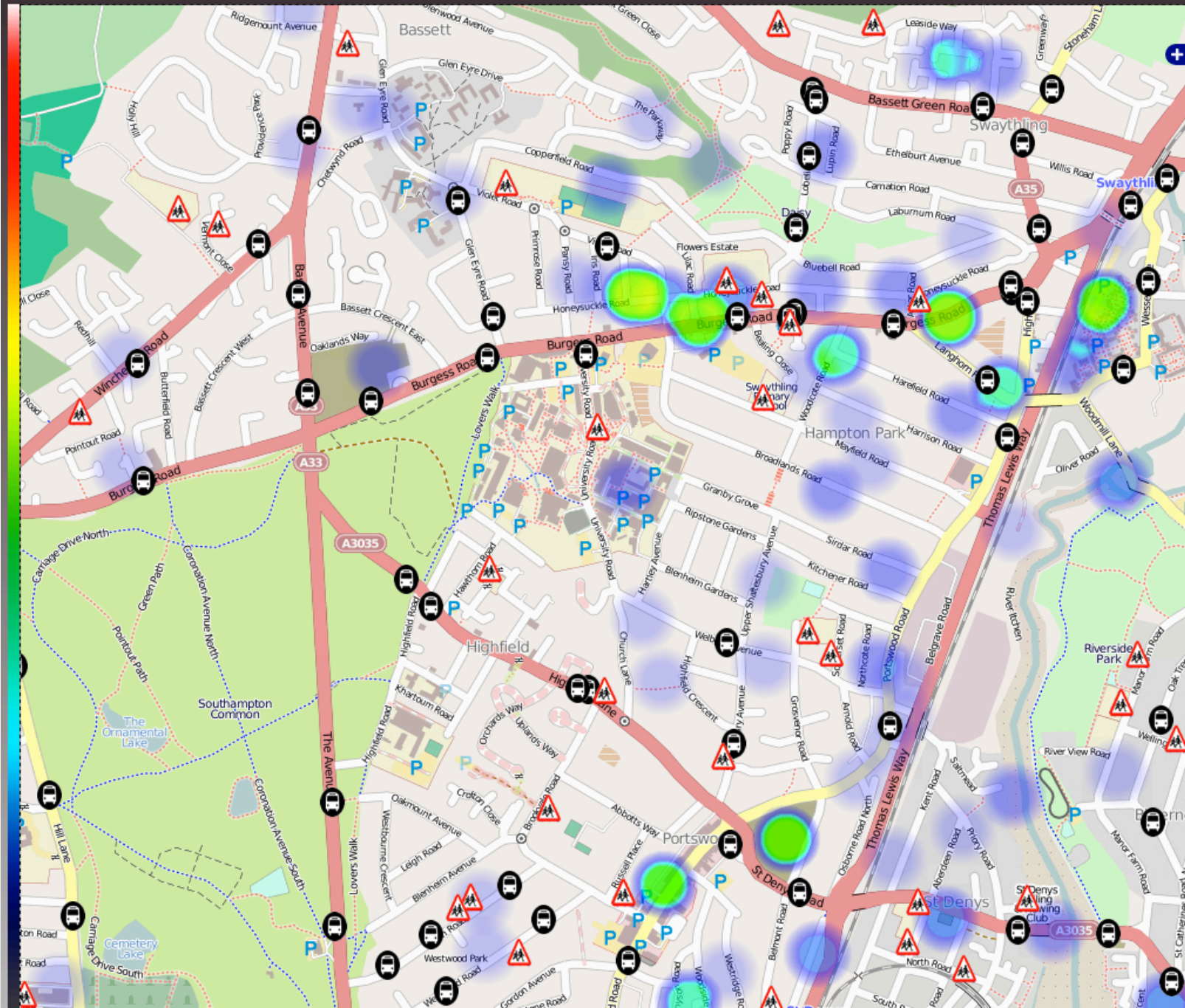
ONLY SHOWN FOR ENGLAND.

SWITCH TO THE OUTPUT AREA CLASSIFICATION

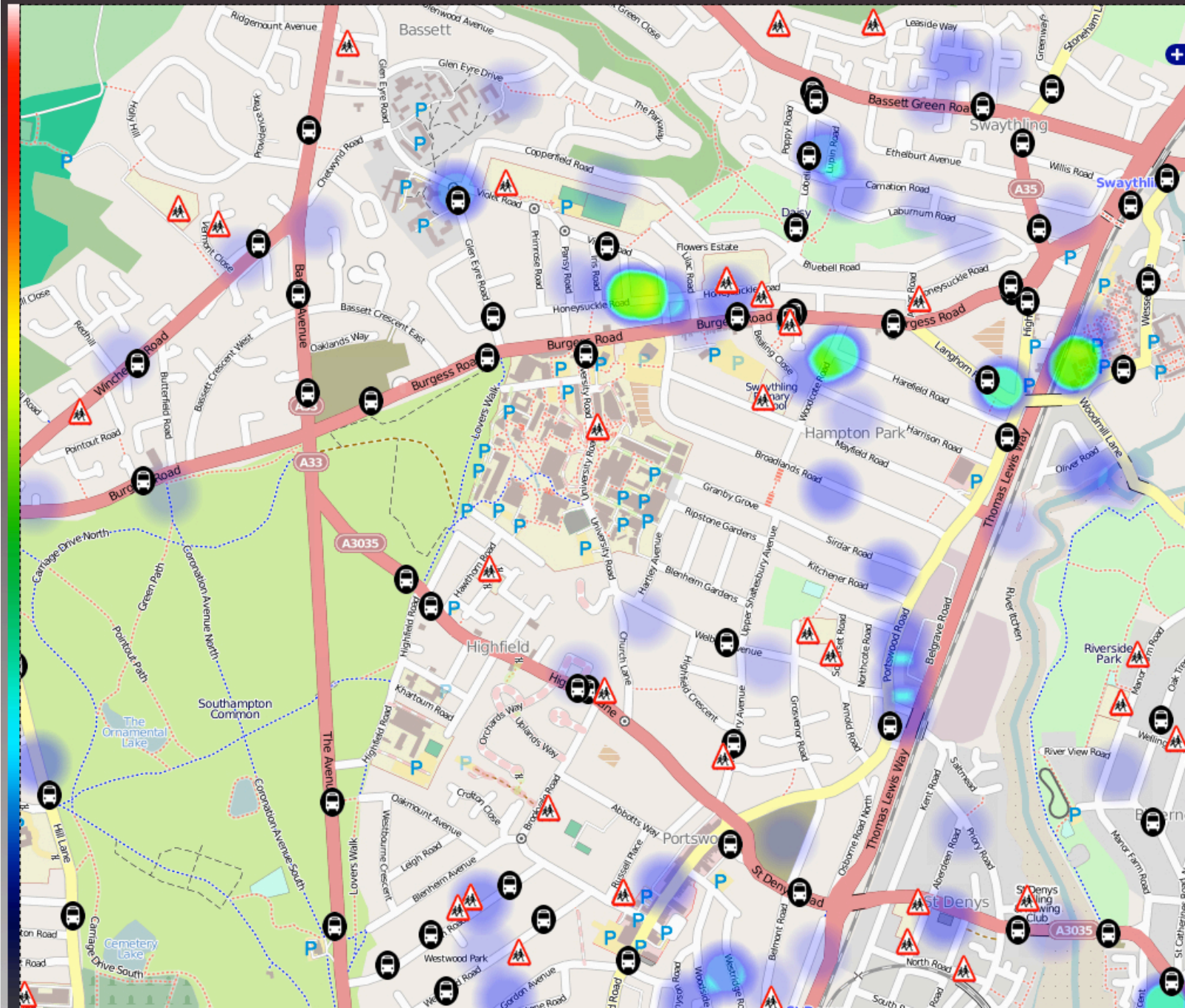
[LINK TO THE CURRENT VIEW \(BOOKMARK THIS PLACE\)](#)

Placenames & geographical features: Contains Ordnance Survey data © Crown copyright and database right 2011. The colours shown are only applicable to residential buildings, but all types of buildings, regardless of type, are shown on the map. **IMPORTANT NOTE:** Classifications are an average across the local Output Area or LSOA, rather than distinguishing between single houses (or even streets), therefore the colour coding on an individual house is not necessarily accurate.

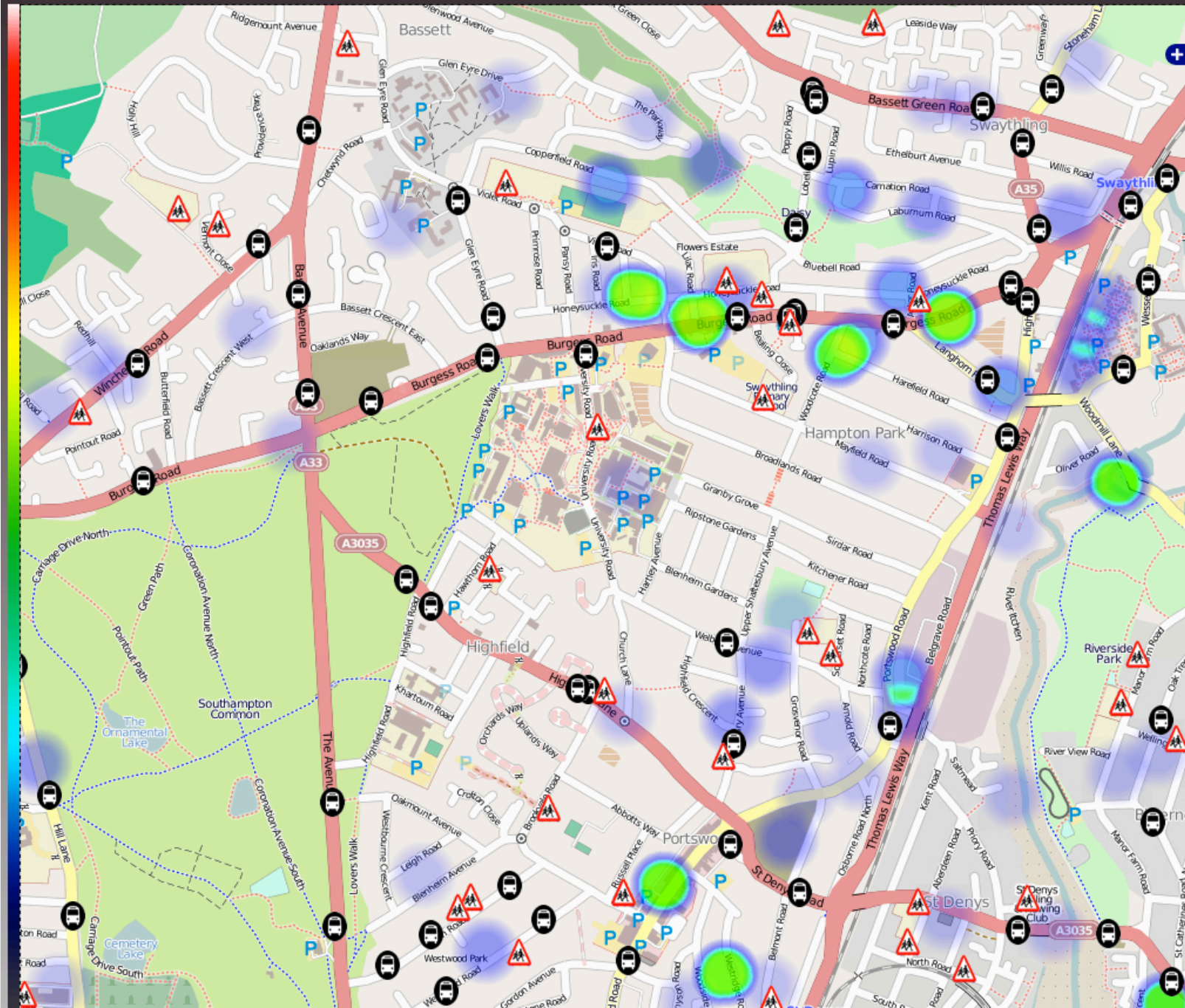
UK Crime Heatmap for SO17 1BJ



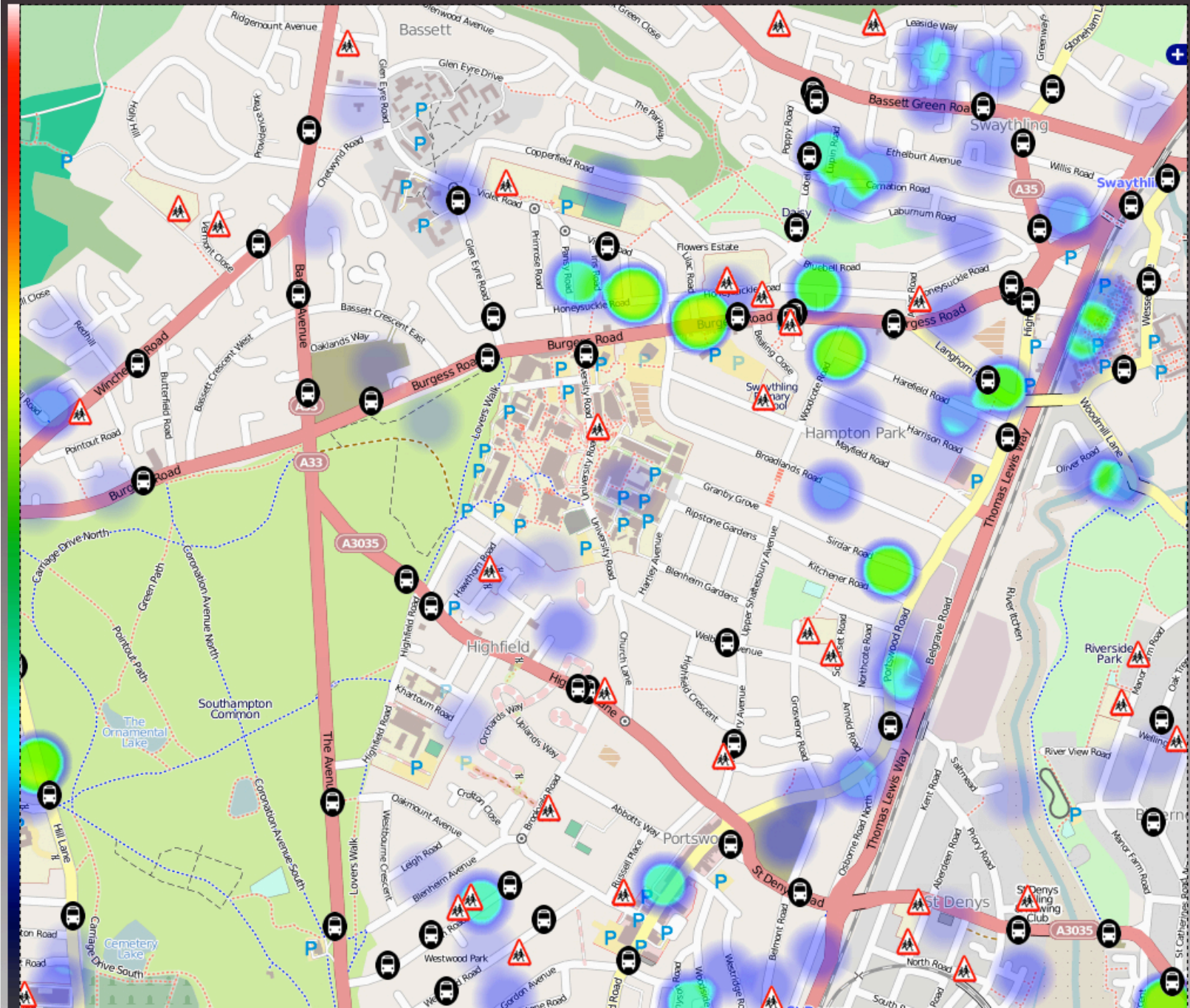
UK Crime Heatmap for SO17 1BJ



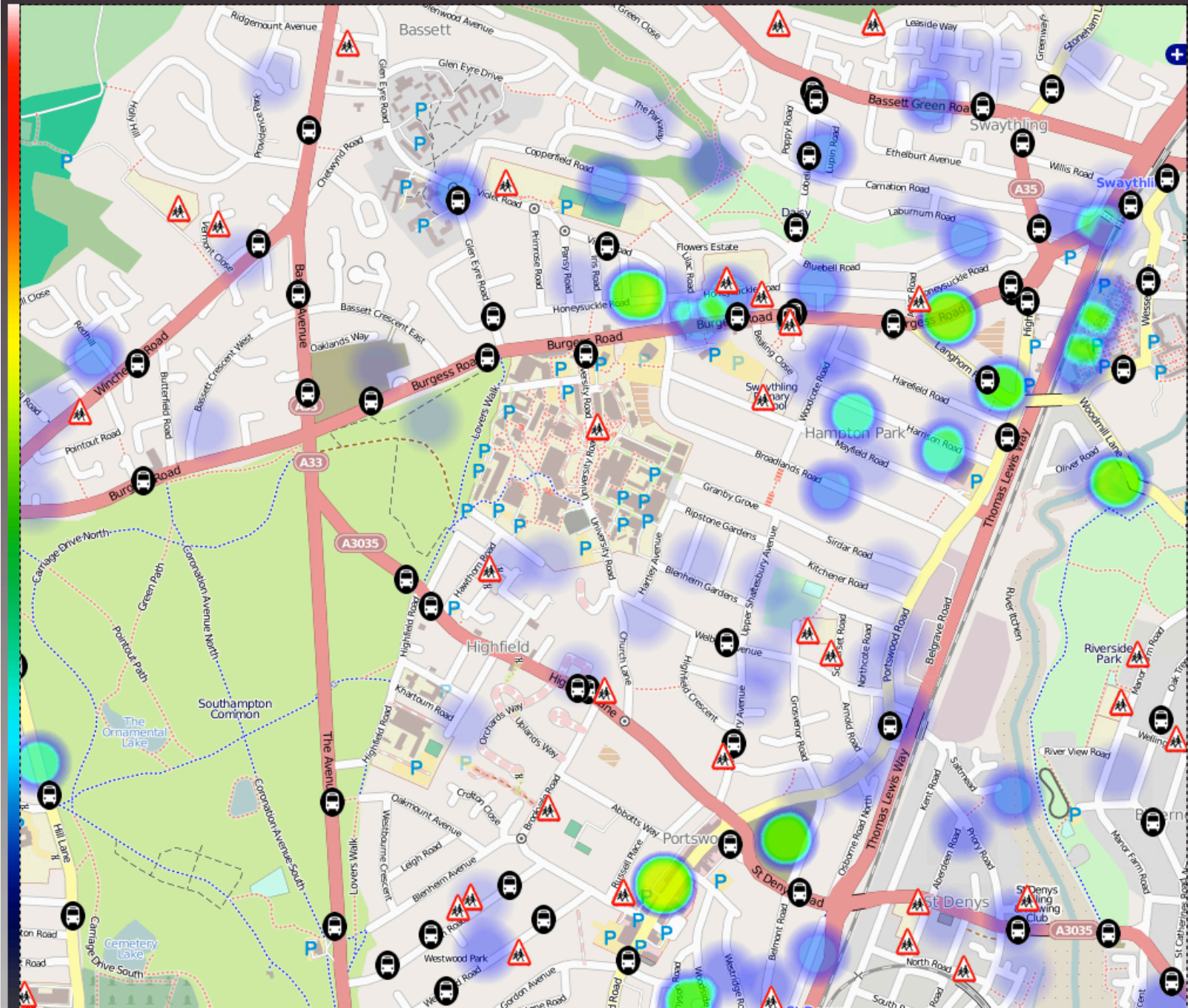
UK Crime Heatmap for SO17 1BJ



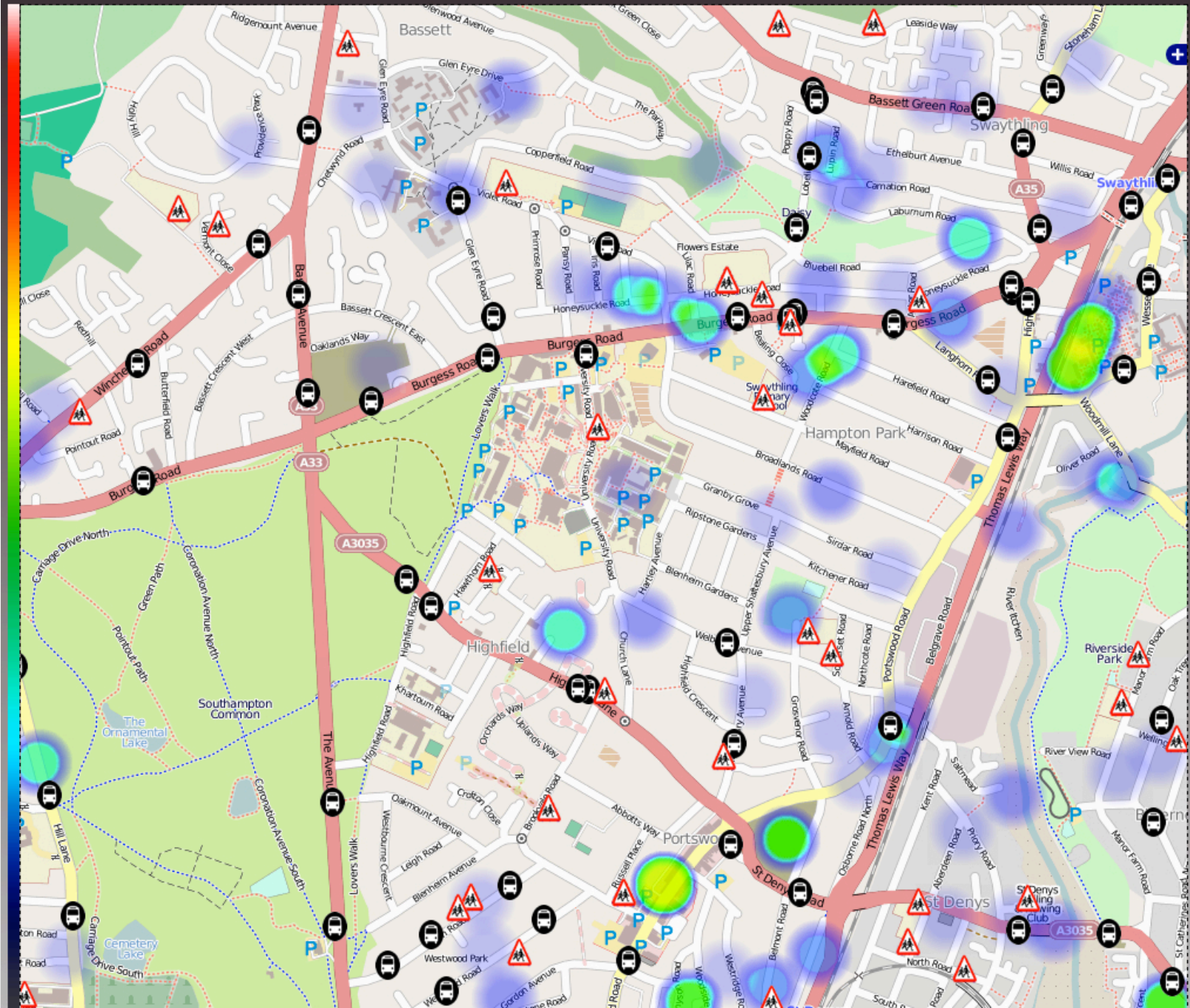
UK Crime Heatmap for SO17 1BJ



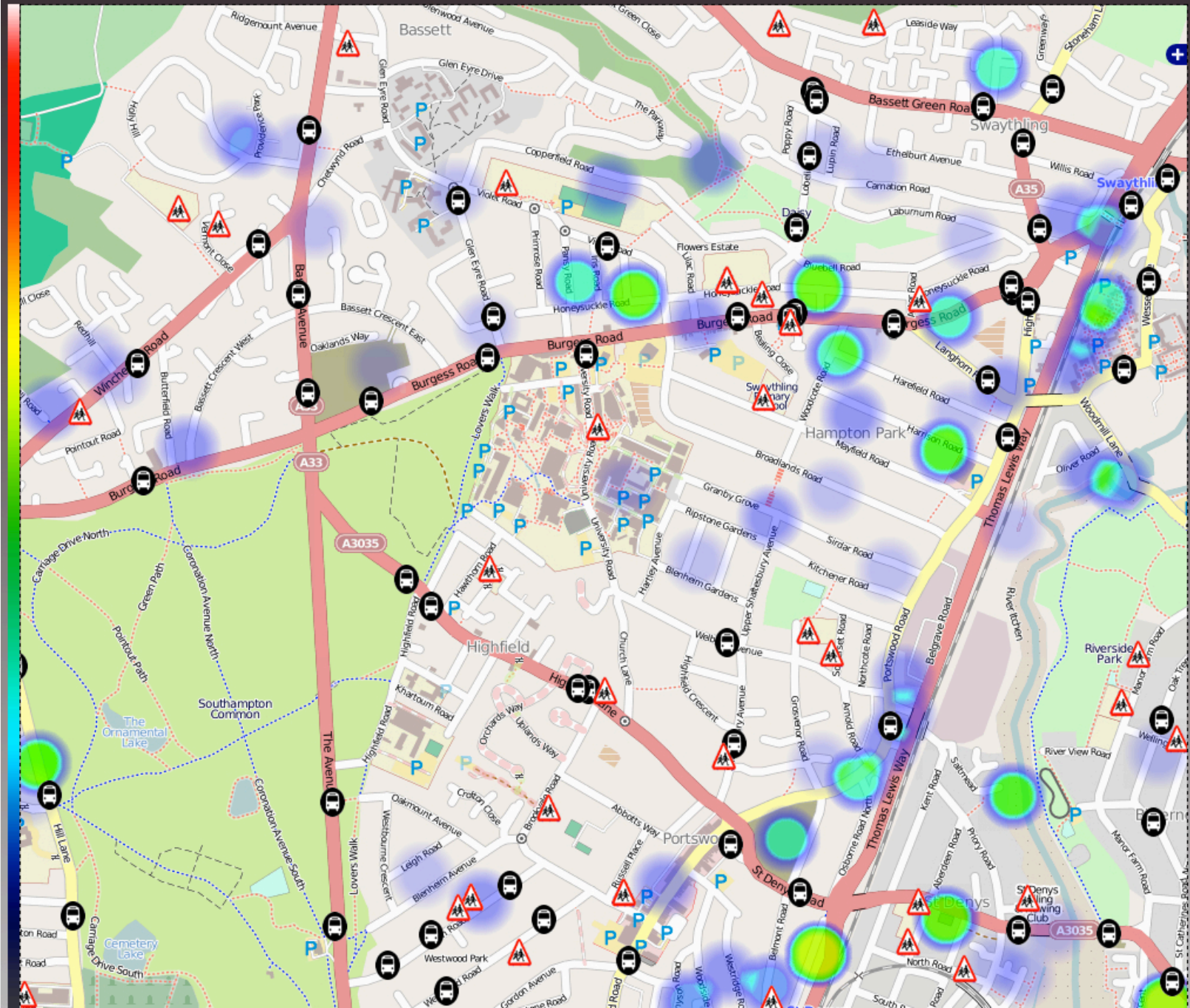
UK Crime Heatmap for SO17 1BJ



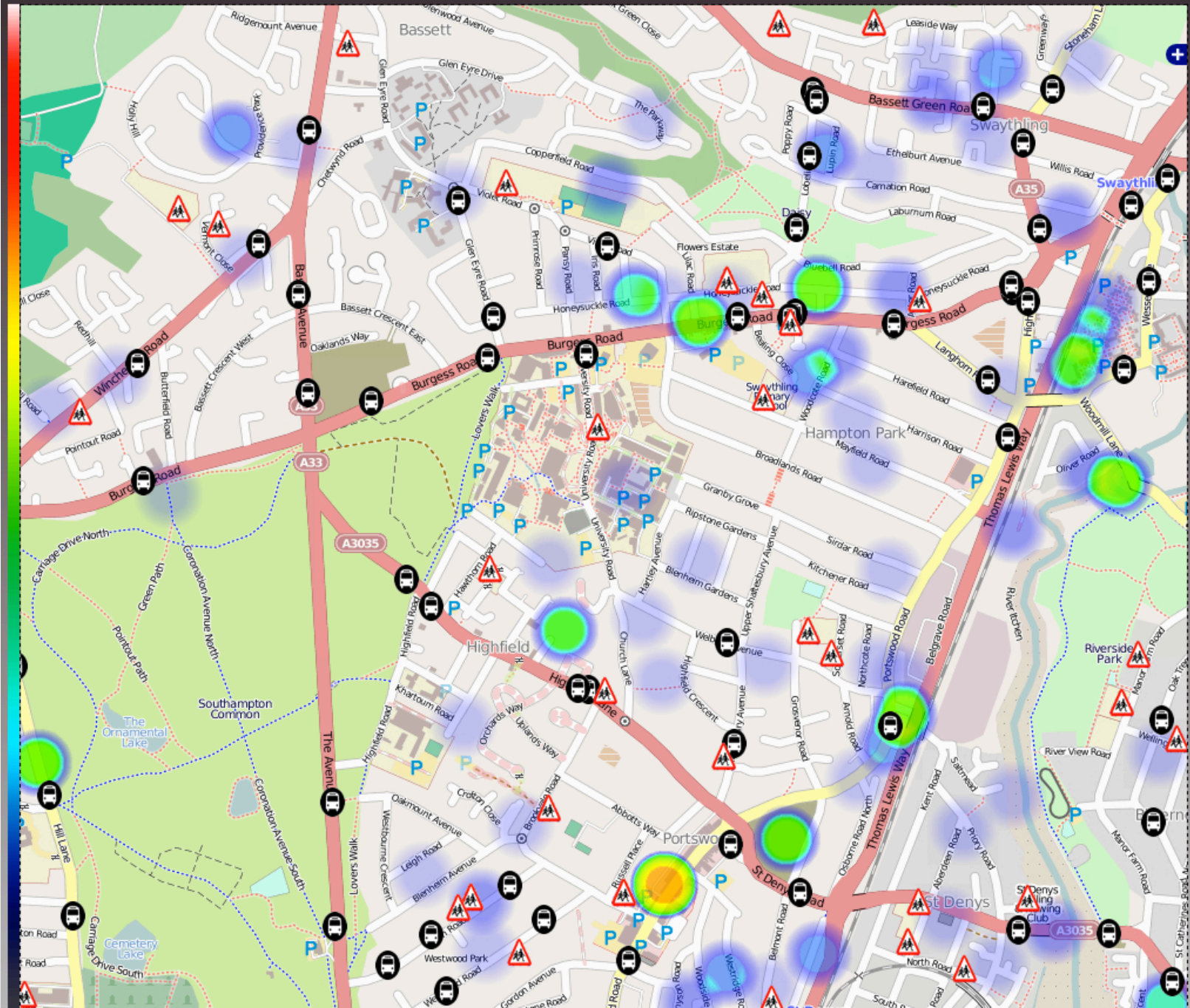
UK Crime Heatmap for SO17 1BJ



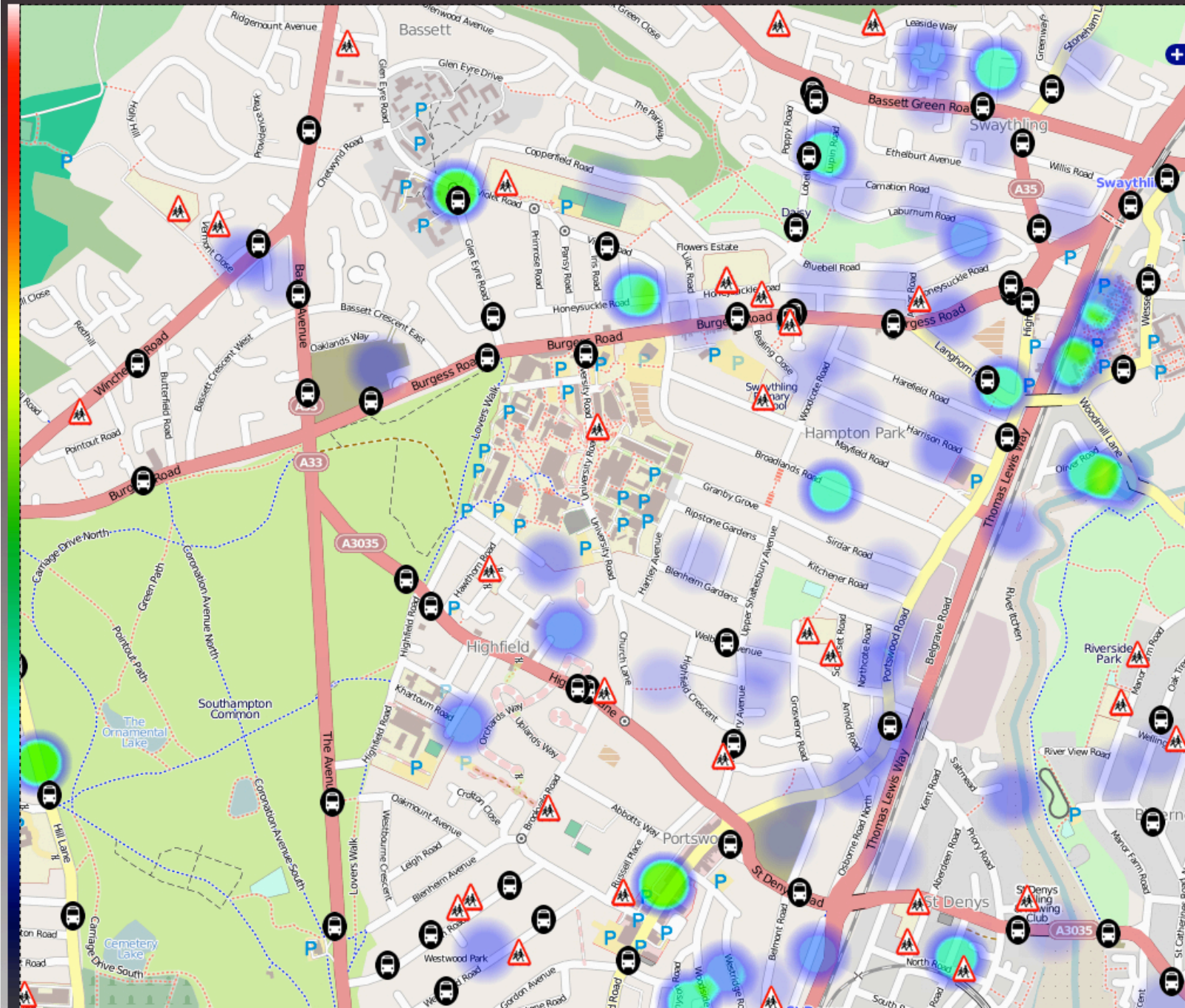
UK Crime Heatmap for SO17 1BJ



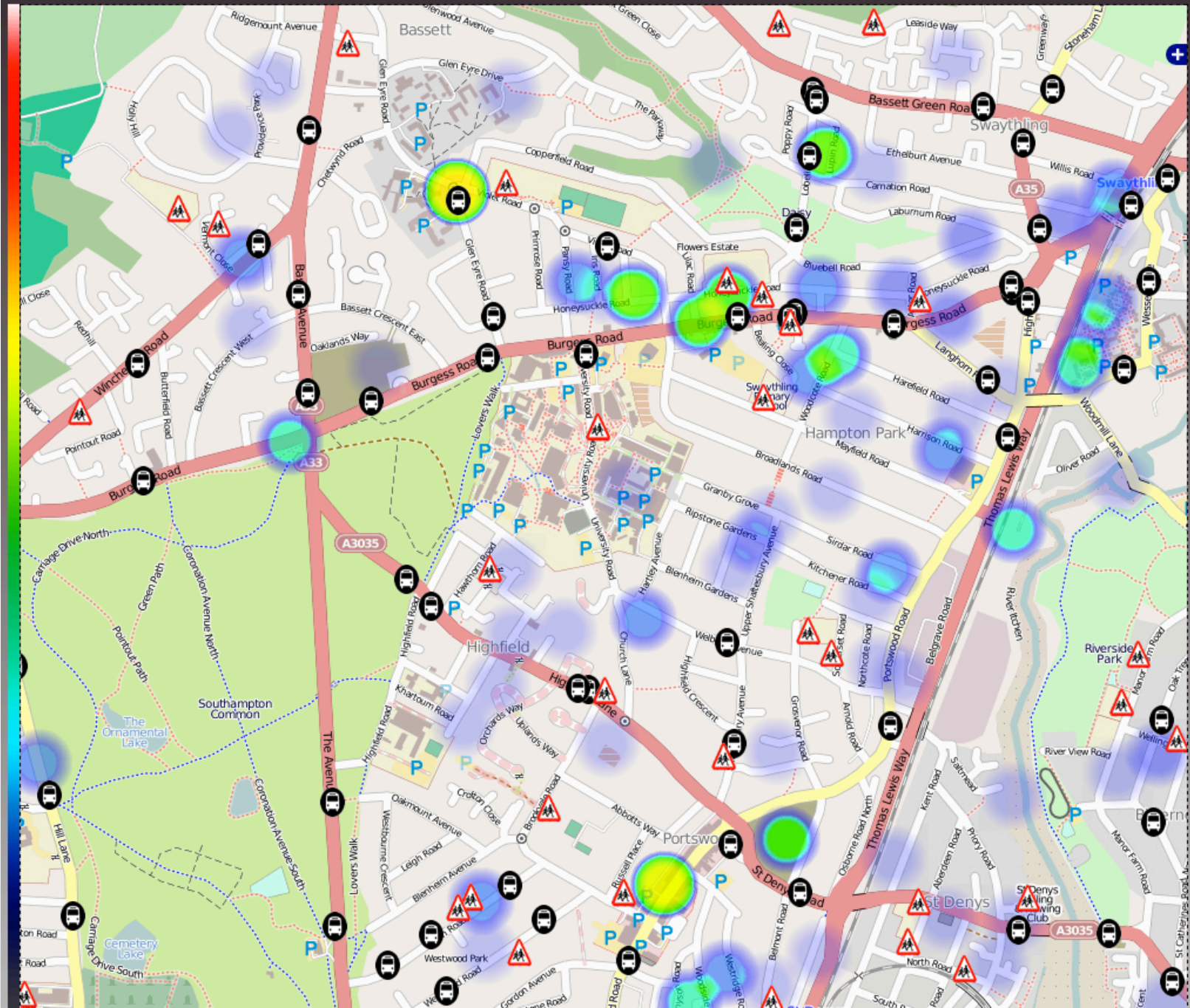
UK Crime Heatmap for SO17 1BJ



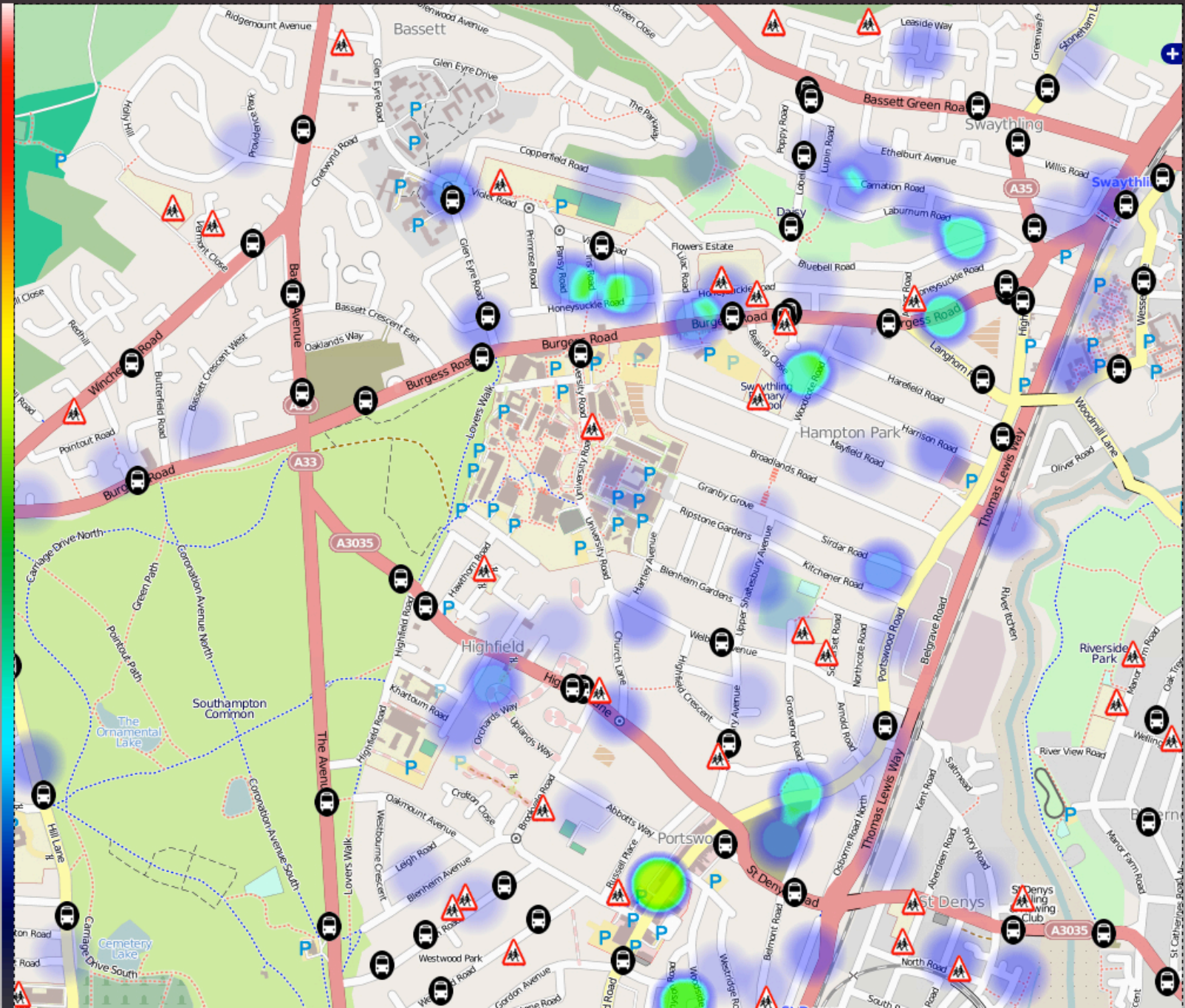
UK Crime Heatmap for SO17 1BJ



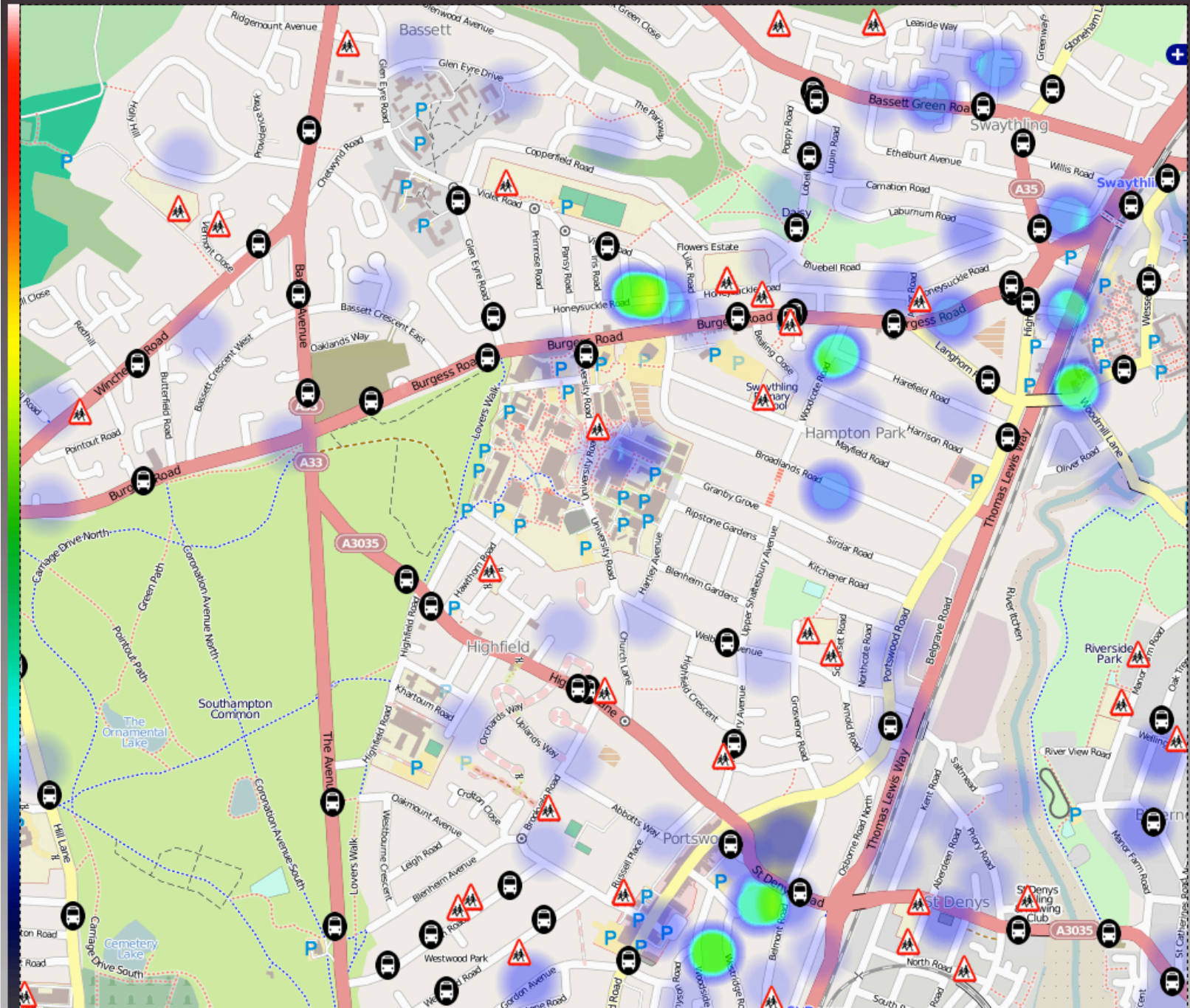
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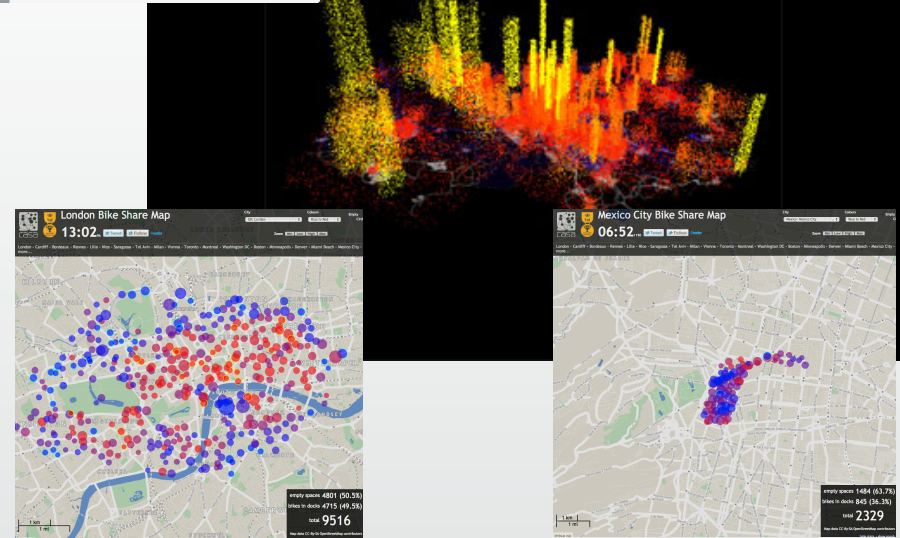
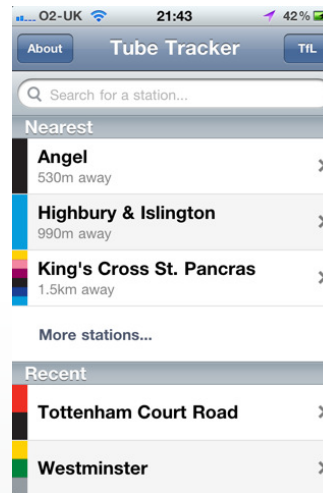


UK Crime Heatmap for SO17 1BJ



Open Data and Smart Cities

- Smart Cities get Open Data
- Many of the best Open Data apps are urban
- Authority over their data
- Network effect of urban data

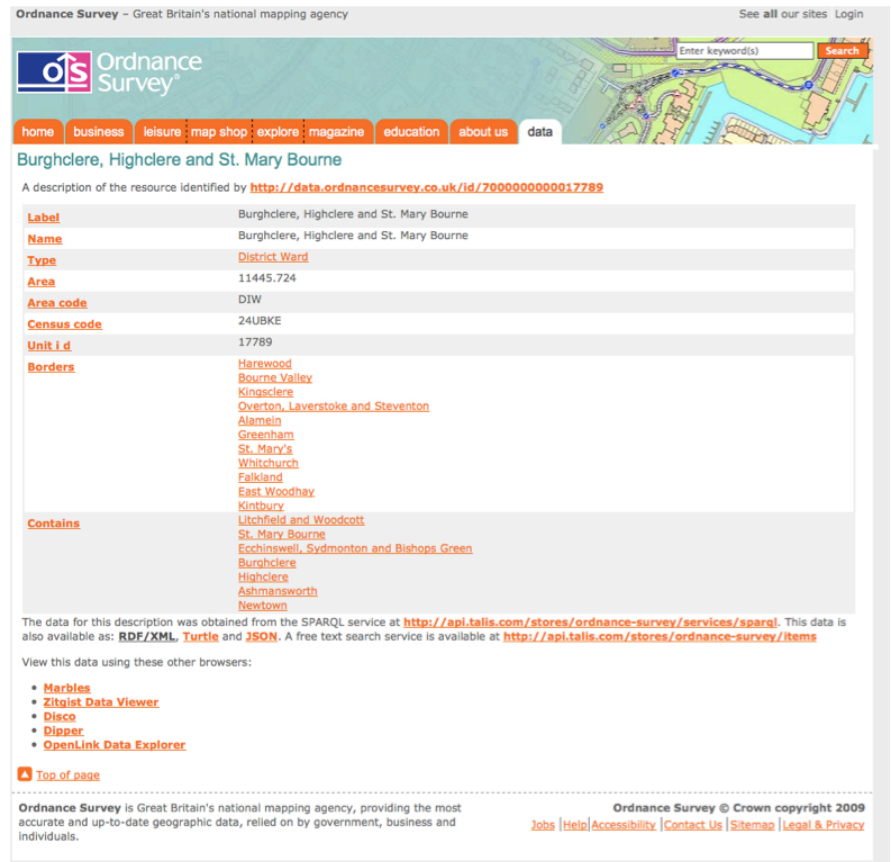


Linked Open Data – Aiming for the Stars

- ★ Put your data on the Web with an Open Licence
- ★★ Make it available as structured data
- ★★★ Use open, standard formats
- ★★★★ Use URIs to identify things
- ★★★★★ Link your data to other people's data

5★ Linked Open Data

- With data.gov.uk a national digital infrastructure being built
- URIs for schools, roads, bus stops, post codes, admin boundaries...
- Some of the data links across and connects other data together
- Key data link points exist



Ordnance Survey - Great Britain's national mapping agency

See all our sites Login

Ordnance Survey

home business leisure map shop explore magazine education about us data

Burghclere, Highclere and St. Mary Bourne

A description of the resource identified by <http://data.ordnancesurvey.co.uk/id/7000000000017789>

Label	Burghclere, Highclere and St. Mary Bourne
Name	Burghclere, Highclere and St. Mary Bourne
Type	District Ward
Area	11445.724
Area code	DIW
Census code	24UBKE
Unit i d	17789
Borders	Harewood Bourne Valley Kingsclere Oxerton, Laverstoke and Steventon Alamein Greenham St. Mary's Whitchurch Falkland East Woodhay Kintbury
Contains	Litchfield and Woodcote St. Mary Bourne Echinswell, Sydmonton and Bishops Green Burghclere Highclere Ashmansworth Newtown

The data for this description was obtained from the SPARQL service at <http://api.talis.com/stores/ordnance-survey/services/sparql>. This data is also available as: [RDF/XML](#), [Turtle](#) and [JSON](#). A free text search service is available at <http://api.talis.com/stores/ordnance-survey/items>

View this data using these other browsers:

- [Marbles](#)
- [Zitajst Data Viewer](#)
- [Disco](#)
- [Dipper](#)
- [OpenLink Data Explorer](#)

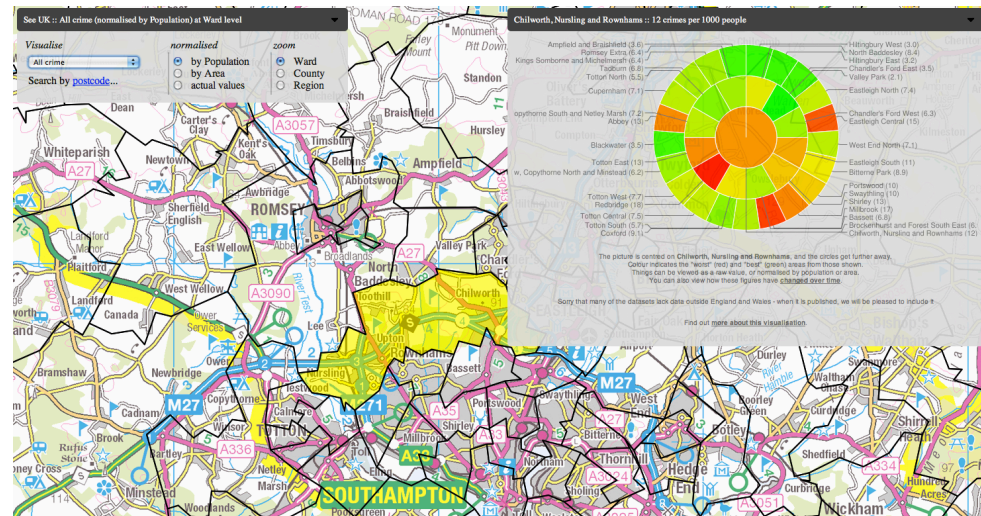
[Top of page](#)

Ordnance Survey is Great Britain's national mapping agency, providing the most accurate and up-to-date geographic data, relied on by government, business and individuals.

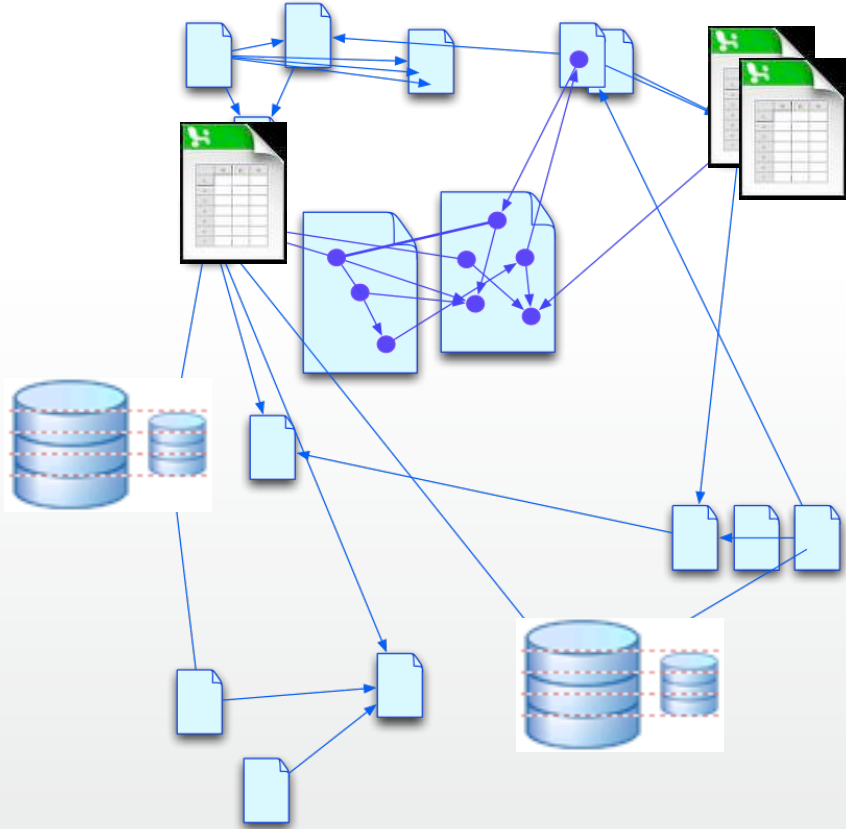
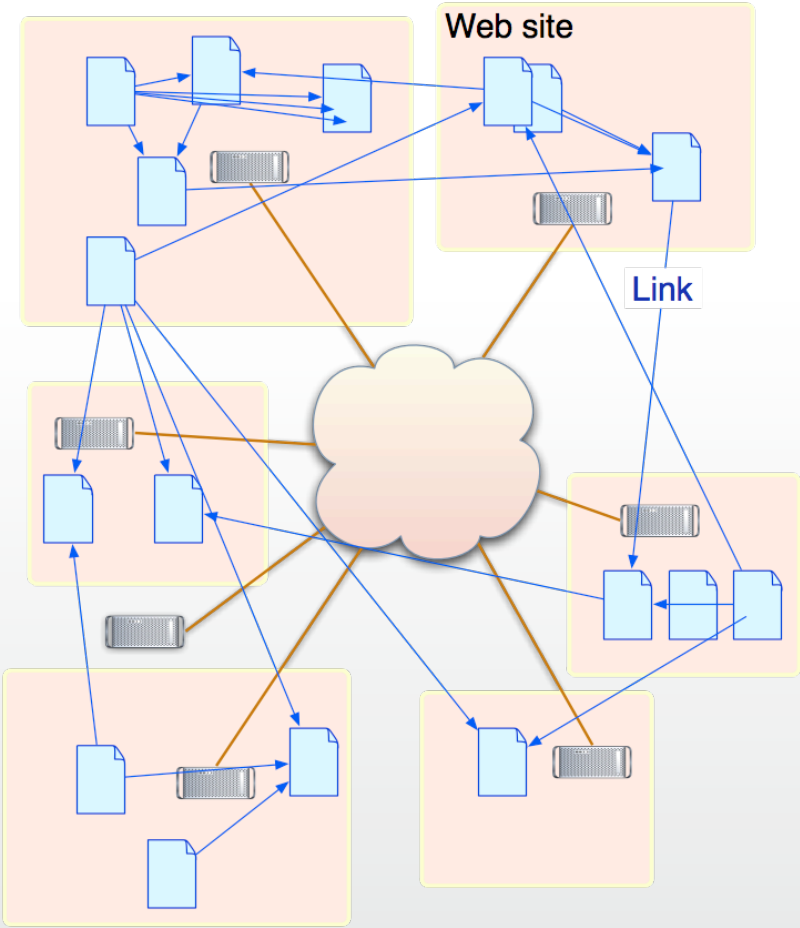
Ordnance Survey © Crown copyright 2009
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The Web ... of documents and data



Linked Data Principles

The four micro principles of the Semantic Web

1. All entities of interest, such as information resources, real-world objects, and vocabulary terms should be identified by URI references.
2. URI references should be dereferenceable, meaning that an application can look up a URI over the HTTP protocol and retrieve RDF data about the identified resource.
3. Data should be provided using the RDF/XML syntax
4. Data should be interlinked with other data.

The Semantic Web Revisited

Nigel Shadbolt and Wendy Hall, *University of Southampton*
Tim Berners-Lee, *Massachusetts Institute of Technology*



Nigel Shadbolt is a professor of artificial intelligence in the School of Electronics and Computer Science at Southampton University. Contact him at nrs@ecs.soton.ac.uk.



Tim Berners-Lee is the director of the World Wide Web Consortium, a senior researcher at the Massachusetts Institute of Technology's Computer Science and Artificial Intelligence Laboratory, and a professor of computer science in the Department of Electronics and Computer Science at Southampton University. Contact him at timbl@w3.org.



Wendy Hall is a professor of computer science in the School of Electronics and Computer Science at Southampton University. Contact her at wh@ecs.soton.ac.uk.

Principle 1 URIs for Everything

- Uniform Resource Identifiers for all items of interest
- You can dereference them – use http protocol to get data back
- Using a simple Web Knowledge Representation Language – RDF
- Link URIs together

<http://rdf.ecs.soton.ac.uk/person/2686>

<http://rdf.ecs.soton.ac.uk/project/464>

<http://rdf.ecs.soton.ac.uk/publication/11065>

<http://education.data.gov.uk/doc/school/120805>

<http://southampton.rkbexplorer.com/id/person-02686>

http://dbpedia.org/resource/Nigel_Shadbolt

Principle 2 URIs will dereference

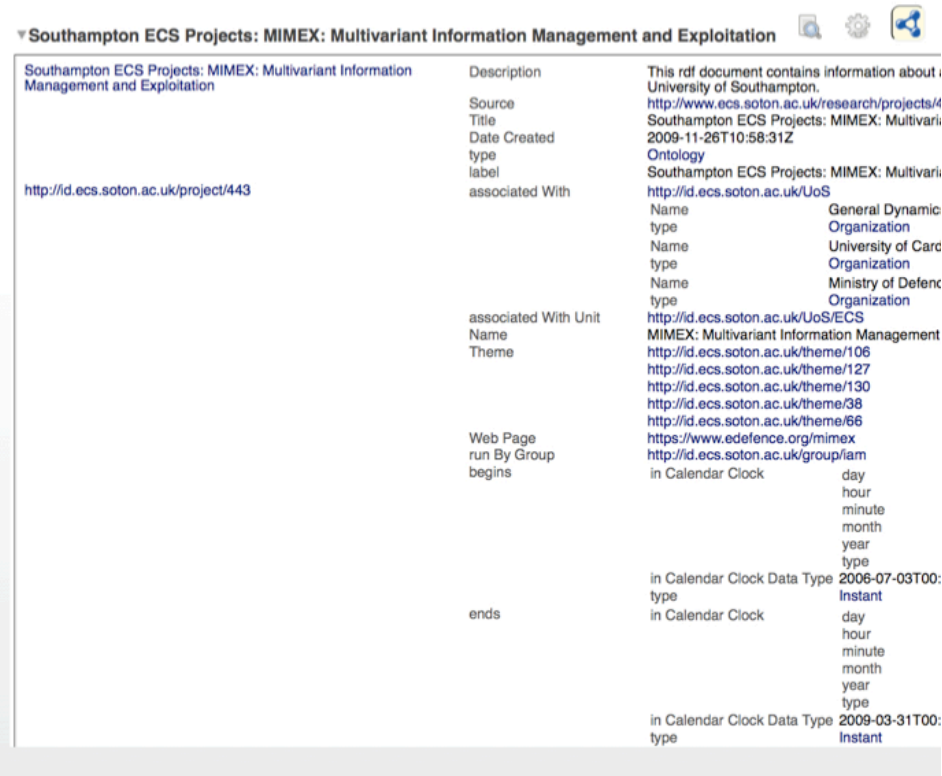
- Uniform Resource Identifiers for all items of interest
- You can dereference them
 - use http protocol to get data back
- Using a simple Web Knowledge Representation Language – RDF
- Link URIs together

Southampton ECS People: Professor Nigel R Shadbolt

Southampton ECS People: Professor Nigel R Shadbolt	Description
Nigel Shadbolt	This rdf document contains information about a person Southampton. http://www.ecs.soton.ac.uk/people/nrs Southampton ECS People: Professor Nigel R Shadbolt 2009-11-26T10:53:20Z Ontology Southampton ECS People: Professor Nigel R Shadbolt Professor Professor Nigel R Shadbolt Nigel R http://id.ecs.soton.ac.uk/role/2686 http://id.ecs.soton.ac.uk/project/221 http://id.ecs.soton.ac.uk/project/293 http://id.ecs.soton.ac.uk/project/312 http://id.ecs.soton.ac.uk/project/353 http://id.ecs.soton.ac.uk/project/361 http://id.ecs.soton.ac.uk/project/381 http://id.ecs.soton.ac.uk/project/395 http://id.ecs.soton.ac.uk/project/443 http://id.ecs.soton.ac.uk/project/44 http://id.ecs.soton.ac.uk/project/45 http://id.ecs.soton.ac.uk/project/464 http://id.ecs.soton.ac.uk/project/464 http://id.ecs.soton.ac.uk/project/466 http://id.ecs.soton.ac.uk/project/466 http://id.ecs.soton.ac.uk/project/467 http://id.ecs.soton.ac.uk/project/508 http://id.ecs.soton.ac.uk/project/623 http://id.ecs.soton.ac.uk/project/629 http://id.ecs.soton.ac.uk/project/630 Person Shadbolt Nigel R http://users.ecs.soton.ac.uk/nrs/ http://www.ecs.soton.ac.uk/image.php?id=person_26f http://www.ecs.soton.ac.uk/image.php?id=person_26f&checksum=6c2158b33a0c10e328ec62f9ed1cc7 mailto:nrs@ecs.soton.ac.uk Professor Nigel R Shadbolt
	Source
	Title
	Date Created
	type
	label
	Appellation
	Family Name
	Full Name
	Given Name
	Role
	member Of
	type
	family name
	givenname
	homepage
	img
	mbox
	name

Principle 3 Get RDF Back

- Uniform Resource Identifiers for all items of interest
- You can dereference them – use http protocol to get data back
- Using a simple Web Knowledge Representation Language – RDF
- Link URIs together



▼ Southampton ECS Projects: MIMEX: Multivariant Information Management and Exploitation

Southampton ECS Projects: MIMEX: Multivariant Information Management and Exploitation	Description	This rdf document contains information about University of Southampton.
	Source	http://www.ecs.soton.ac.uk/research/projects/443
	Title	Southampton ECS Projects: MIMEX: Multivariant Information Management and Exploitation
	Date Created	2009-11-26T10:58:31Z
	type	Ontology
	label	Southampton ECS Projects: MIMEX: Multivariant Information Management and Exploitation
http://id.ecs.soton.ac.uk/project/443	associated With	http://id.ecs.soton.ac.uk/UoS
		Name type General Dynamic Organization
		Name type University of Cardiff Organization
		Name type Ministry of Defence Organization
	associated With Unit Name	http://id.ecs.soton.ac.uk/UoS/ECS
	Theme	MIMEX: Multivariant Information Management and Exploitation
		http://id.ecs.soton.ac.uk/theme/106
		http://id.ecs.soton.ac.uk/theme/127
		http://id.ecs.soton.ac.uk/theme/130
		http://id.ecs.soton.ac.uk/theme/38
		http://id.ecs.soton.ac.uk/theme/66
	Web Page run By Group	https://www.edefence.org/mimex
	begins	http://id.ecs.soton.ac.uk/group/iam
		in Calendar Clock
		day
		hour
		minute
		month
		year
		type
		in Calendar Clock Data Type
		2006-07-03T00:00:00Z
		Instant
	ends	in Calendar Clock
		day
		hour
		minute
		month
		year
		type
		in Calendar Clock Data Type
		2009-03-31T00:00:00Z
		Instant

Principle 4 Link Data URIs

<http://rdf.ecs.soton.ac.uk/person/2686> SameAs

<http://southampton.rkbexplorer.com/id/person-02686> SameAs

http://dbpedia.org/resource/Nigel_Shadbolt

SIG.MA SEMANTIC INFORMA MASHUP

Help About Forum

<http://southampton.rkbexplorer.com/id/person-02686> Add More Info Start New Options Use It Order

N R Shadbolt

given name: Nigel R [1]
N [1]
N R [1]
Nigel [1]

family name: Shadbolt [1]

is creator of: AKT Selected Papers 2004 [2]
INSTRUCTA-Phase II [1]
Techniques of Temporal Representation [1]
Research & Development in Expert Systems V [1,4]
Expert Systems - A Natural History [1]
Report of the 8th Workshop of the Planning Special Interest Group [7]
Processing Reference [1]
Expert Systems in the Financial Industries [1]
Intelligent Interfaces [10]
Preliminary Report of the Workshop on Teaching AI in Departments of Psychology [11]
A Framework for Research in Cognitive Science [12]
Living Documents [13]
Tempus Fugit I: Representing Time and Change [14]
Hypermedia for knowledge engineering [15]
Human Sciences Technology Audit [14]
Final Report of the 9th Workshop of The UK Planning Special Interest Group [17]
Knowledge Technologies [18]
Education and Human-Computer Interaction [19]
Knowledge Technologies and the Semantic Web [20] show 282 more values +

appellation: <http://www.aktors.org/ontology/portals/Prof/> [1]

Sources (20) Approved (0) Rejected (0)

- 1 Nigel R Shadbolt 316 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/person-02686>
- 2 AKT Selected Papers 2004 4 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-12485>
- 3 INSTRUCTA-Phase II 3 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2408>
- 4 Techniques of Temporal Representation 3 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2409>
- 5 Expert Systems - A Natural History 5 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2314>
- 6 Research and Development in Expert Systems V 3 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2272>
- 7 Report of the 8th Workshop of the Planning Special Interest Group 7 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2388>
- 8 Processing Reference 3 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2314>
- 9 Expert Systems in the Financial Industries 3 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2401>
- 10 Intelligent Interfaces 3 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2402>
- 11 Preliminary Report of the Workshop on Teaching AI in Departments of Psychology 11 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2403>
- 12 A Framework for Research in Cognitive Science 12 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2405>
- 13 Living Documents 3 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2407>
- 14 Tempus Fugit I: Representing Time and Change 3 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-2410>
- 15 Hypermedia for knowledge engineering 3 facts | 2009-09-17
<http://southampton.rkbexplorer.com/id/prints-4217>

reject all + approve all +
<http://example.loc/document.rdf> add source uri

SIG.MA SEMANTIC INFORMA MASHUP

Help About Forum

http://dbpedia.org/resource/Nigel_Shadbolt Add More Info Start New Options Use It Order

Nigel Shadbolt

id: s/Shadbolt:Nigel [1]

identifier: http://dbpedia.org/resource/Nigel_Shadbolt [1,3,3,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20]

known for: Semantic Web [1,14]

label: Nigel Shadbolt [1,14]

is means of: Nigel Shadbolt [14,15,17,18,19,20]
Semantic Web [1]

subject: Academics of the University of Southampton [1,7]
British computer scientists [1, 13]
Living people [1]
People from London [1]
Fellows of the Royal Academy of Engineering [1, 10]
Fellows of the British Computer Society [1, 11]
English computer scientists [1,4]

type: Person [1, 14]

Show your web data in Sigma, learn how
Get this sigma embedded, in rdf or in json format.

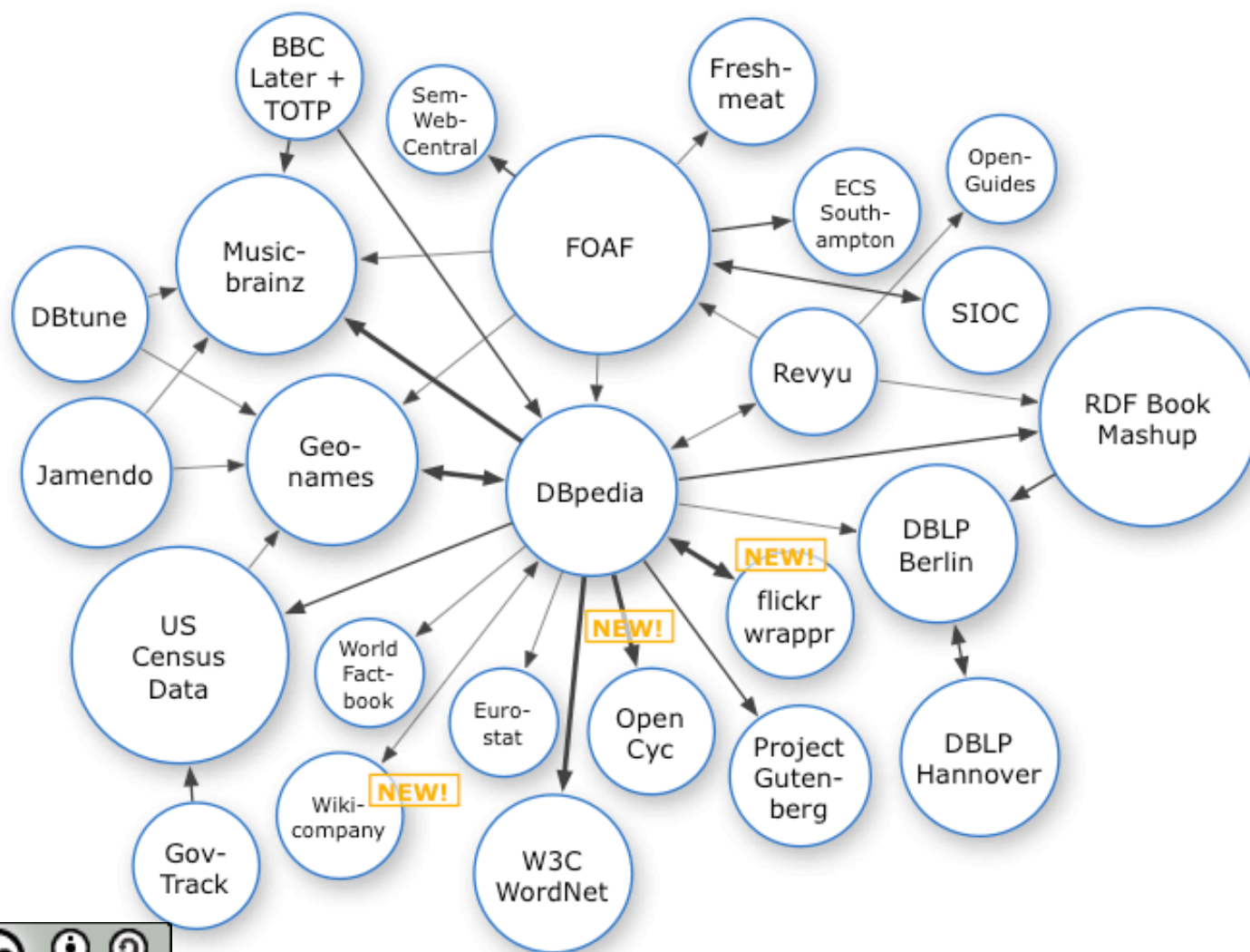
Home Help Forum

Sources (20) Approved (0) Rejected (0)

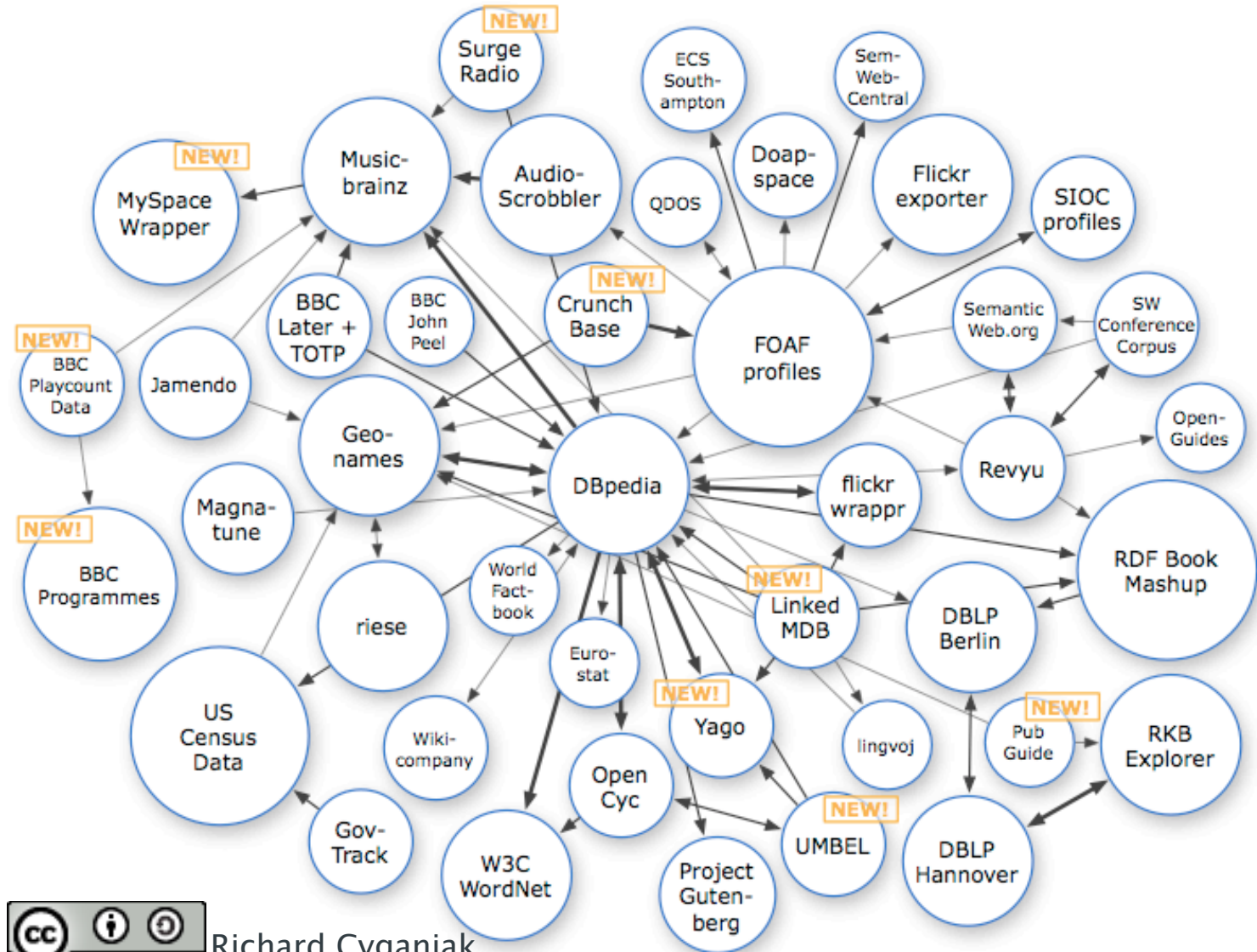
- 1 Nigel Shadbolt 10 facts | 2009-09-20
http://dbpedia.org/resource/Nigel_Shadbolt
- 2 Untitled document 1 facts | 2009-08-25
http://dbpedia.org/resource/Professor_Nigel_Shadbolt...
- 3 Untitled document 1 facts | 2009-08-24
http://dbpedia.org/resource/Web_Science_Research_In...
- 4 Untitled document 1 facts | 2009-08-27
http://dbpedia.org/resource/Daniel_Westner
- 5 Untitled document 1 facts | 2009-08-27
http://dbpedia.org/resource/Web_Science
- 6 English computer scientists 2 facts | 2009-09-22
http://dbpedia.org/resource/Category:English_comput...
- 7 Academics of the University of Southampton 2 facts | 2009-09-19
http://dbpedia.org/resource/Category:Academics_of_...
- 8 Semantic Web 8 facts | 2009-11-11
http://dbpedia.org/resource/Semantic_Web
- 9 Fellows of the British Computer Society 2 facts | 2009-09-19
http://dbpedia.org/resource/Category:Fellows_of_the...
- 10 Fellows of the Royal Academy of Engineering 2 facts | 2009-09-19
http://dbpedia.org/resource/Category:Fellows_of_the...
- 11 Untitled document 1 facts | 2009-09-23
http://dbpedia.org/resource/Profile:dlp_name
- 12 Untitled document 1 facts | 2009-08-25
http://dbpedia.org/resource/Neil_Schuman_University
- 13 British computer scientists 2 facts | 2009-09-19
http://dbpedia.org/resource/British_computer_scientists...
- 14 Wendy Hall J Fawki, Ta... 2 facts | 2009-09-06
http://www.fawki.com/tag/Wendy_Hall
- 15 Nigel Shadbolt J Fawki... 2 facts | 2009-09-07
http://www.fawki.com/tag/Nigel_Shadbolt

reject all + approve all +
<http://example.loc/document.rdf> add source uri

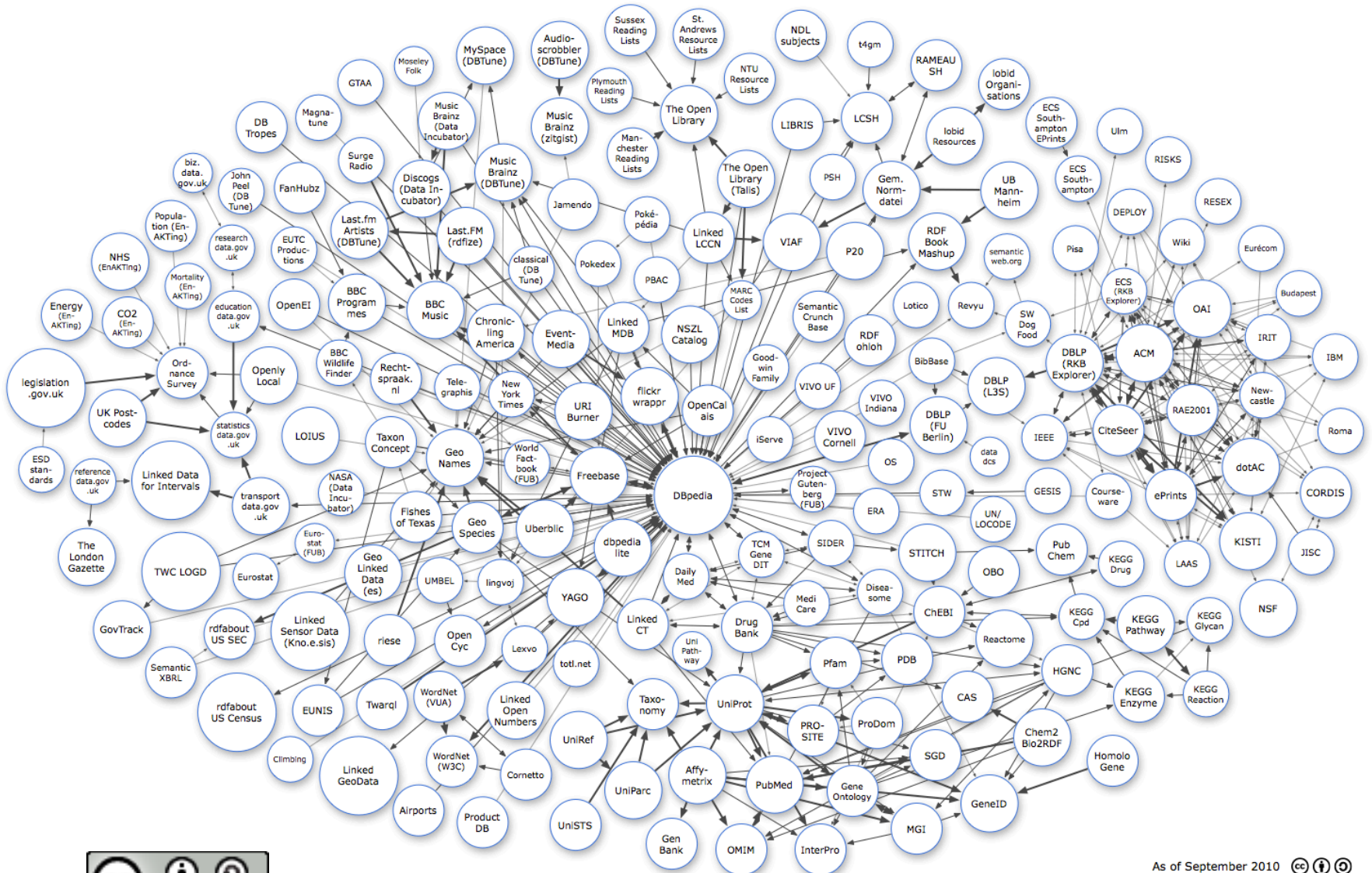
The Web of Linked Open Data



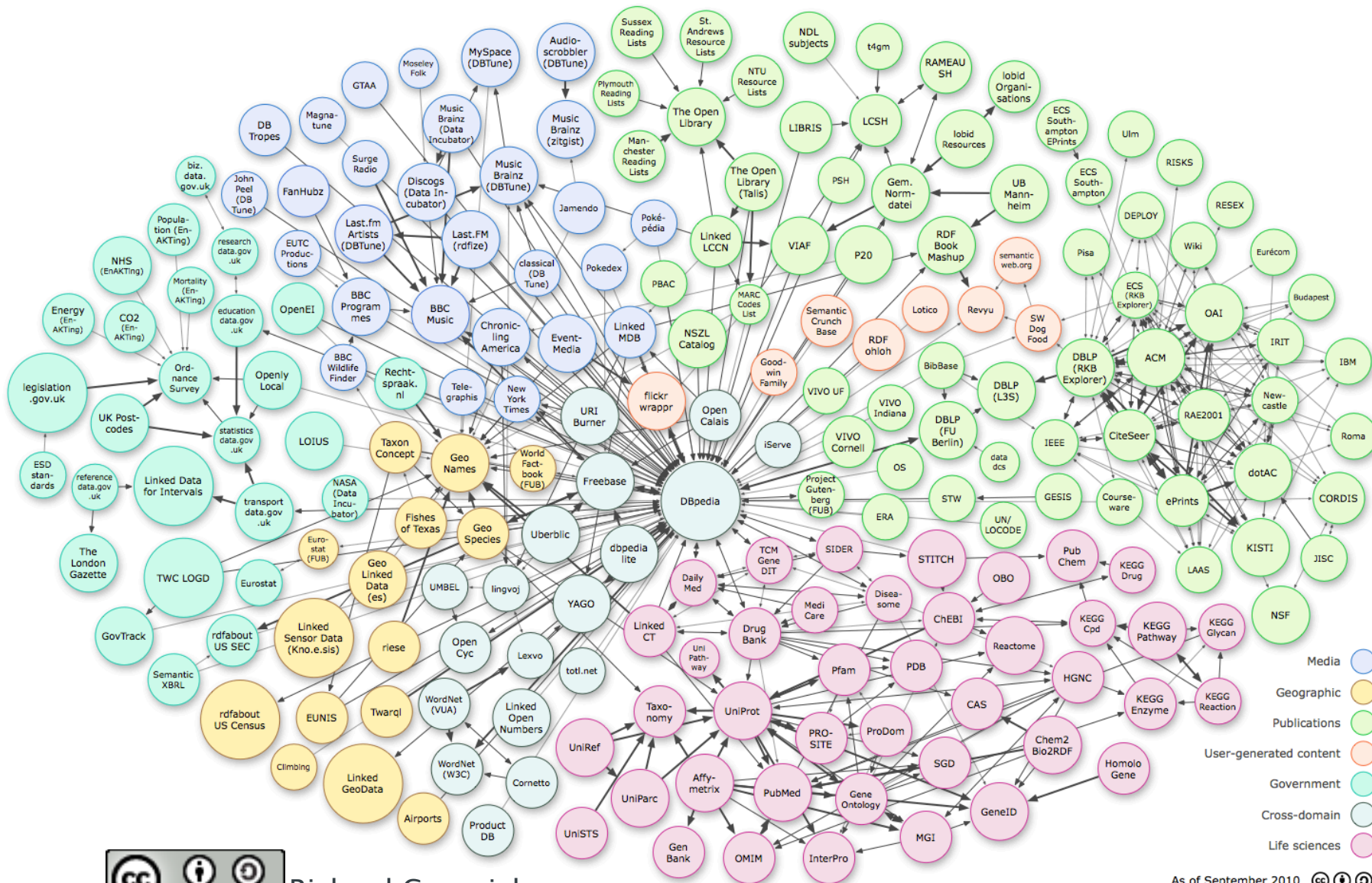
The Web of Linked Open Data



The Web of Linked Open Data



The Web of Linked Open Data



Linked Data Application – RKB Explorer



RESILIENCE FOR SURVIVABILITY IN IST
KNOWLEDGE BASE EXPLORER
VERSION 1.0.2

People Research Areas Publications **Projects** Search Recently Viewed Reset Help

Resilience for Survivability in IST

Maximize

Detail

Name:
Resilience for Survivability in IST

Funding source:
The European Union

Funding amount:
4500000 EUR

Start date:
2006-01-01

End date:
2008-12-31

People

- LAPRIE
- Aad van Moorsel
- Abdelmajid Khelil
- Achour Mostefaou
- Adnan Noon Mian
- Afraz Jaffri
- Agnan de Bonneval
- Alberto Pasquini
- Alessia Milani
- Alex Buchmann

Research Areas

- Telecommunications
- Information Processing, Information Systems

Publications

- Fault Injection for Dependability Validation
- Fault Injection for Dependability Validation: A Methodology and Some Applications.
- Dependability evaluation
- A Saturation Network to Tolerate Faults and Intrusions.
- Error processing and fault treatment
- Fault Injection and Dependability Evaluation of Fault-Tolerant Systems.
- MATTA: a Software Model-Test

Projects

- ReSIST WG Arch
- ReSIST WG Eval
- ReSIST WG Algo
- ReSIST WG Verif
- ReSIST RKB Editorial Board
- ReSIST Training and Dissemination Committee
- ReSIST WG Socio-Technical Systems
- ReSIST Executive Board
- ReSIST Resilience-Explicit Computing

About Acknowledgements

Wikipedia as Linked Data - DBpedia

- 2,900,000 things
- >282,000 persons
- 339,000 places
- 130,000 species
- 4,400 diseases
- 88,000 music albums
- :



About / News
Applications
Use Cases
Datasets
Online Access
Downloads
ChangeLog
Interlinking
Framework
Publications
Community
Blog
Credits
Contact / Imprint

DBpedia is a community effort to extract structured information from Wikipedia and to make this information available on the Web. DBpedia allows you to ask sophisticated queries against Wikipedia, and to link other data sets on the Web to Wikipedia data. We hope this will make it easier for the amazing amount of information in Wikipedia to be used in new and interesting ways, and that it might inspire new mechanisms for navigating, linking and improving the encyclopaedia itself.

News

[Open Knowledge Conference 2010](#)
OKCon, now in its fifth year, is the interdisciplinary conference that brings together individuals from across the open knowledge spectrum (such as also DBpedia in particular and Linked Open Data in general) for a day of presentations and workshops. Open knowledge promises significant social and economic benefits in a wide range of areas from governance [...]

[DBpedia in ReadWriteWeb's Top 10 Semantic Web Products of 2009](#)
The new year is slowly approaching and people start compiling their top x lists of 2009, with x usually ranging between 10 and 365. The popular Web technology blog ReadWriteWeb has chosen x with value 10 and picked DBpedia as one of their top Semantic Web products of 2009. Its actually the only non-commercial [...]

[German government proclaims Faceted Wikipedia/DBpedia Search one of the 365 most innovative ideas in Germany](#)
The German federal government has proclaimed Faceted Wikipedia Search as one of the 365 most innovative ideas in Germany in the context of the Deutschland 7 Land der Ideen competition. The competition showcases innovative ideas in areas such as science and technology, business, education, art and ecology. The patron of the competition is the German President Horst Köhler. Faceted [...]

The DBpedia Knowledge Base

Knowledge bases are playing an increasingly important role in enhancing the intelligence of Web and enterprise search and in supporting information integration. Today, most knowledge bases cover only specific domains, are created by relatively small groups of knowledge engineers, and are very cost intensive to keep up-to-date as domains change. At the same time, Wikipedia has grown into one of the central knowledge sources of mankind, maintained by thousands of contributors. The DBpedia project leverages this gigantic source of knowledge by extracting structured information from Wikipedia and by making this information accessible on the Web under the terms of the [Creative Commons Attribution-ShareAlike 3.0 License](#) and the [GNU Free Documentation License](#).

Adding a little SPARQL to the Web

- A data access language for the Web of Linked Data
- Can query across diverse data sources
- SPARQL can query required and optional patterns

```
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX type: <http://dbpedia.org/class/yago/>
PREFIX prop: <http://dbpedia.org/property/>
SELECT ?country_name ?population
WHERE {
    ?country a type:LandlockedCountries ;
        rdfs:label ?country_name ;
        prop:populationEstimate ?population .
    FILTER (?population > 15000000) .
}
```

country_name	population
Ethiopia	82825000
Uganda	32710000
Nepal	29331000
Afghanistan	28150000
Uzbekistan	27606007
Burkina Faso	15757000
Niger	15290000
Malawi	15263000

Latest UK HMG Developments

- Significant new data releases
 - Weather
 - Transport
 - Health
 - :
- Open Data and its role in growth and innovation
- Open Data Institute
- Located Tech City, Shoreditch, London

The screenshot shows a news article from the Cabinet Office website. The article is titled "Open Data measures in the Autumn Statement" and is dated 29 November 2011. The text describes the Chancellor of the Exchequer, George Osborne, announcing that public sector data will be made available to improve travel, healthcare, and industry. It lists specific measures such as linked-data services for healthcare, business logistics, weather data, and patient empowerment. A navigation bar at the top includes links for "About the Cabinet Office", "National Security", "Constitutional Reform", "Government Efficiency", "Transparency", and "Blog". A "GIGAOM" logo is visible in the middle of the page. Below the article, there is a social media sharing section with buttons for "Tweet" (124), "Share" (37), "Like", and a "+1" button (2). A photo of George Osborne is also present.

CabinetOffice

About the Cabinet Office | National Security | Constitutional Reform | Government Efficiency | Transparency | Blog

Open Data measures in the Autumn Statement

29 November 2011

The Chancellor of the Exchequer, George Osborne, as part of the Government's Autumn Statement, today announced that world-leading commitments by the Government to open up public sector data will make travel easier and healthcare better, and create significant growth for industry and jobs in the UK.

The Open Data measures will boost investment in medical research and digital technology in the UK, including many small and medium sized enterprises. This will help realise the Prime Minister's ambition to make Tech City one of the world's great technology centres and create an environment where the next Apple or Skype could come out of the UK by making useful and valuable transport, health, weather and house price data available.

The measures will specifically:

- improve medical knowledge and practice with world-first linked-data services which will enable healthcare impacts to be tracked across the entire Health Service and improve medical practice; the service is expected put the UK in a prime position for research investment
- make business logistics and commuting more efficient through running of trains and buses across Great Britain and data on road works, for use in 'satnav' and digital technology
- allow entrepreneurs to develop useful applications for business free, high-quality weather data in the world along with house
- empower patients through individual access to their personal education data management and learning platforms.

[Read the full list of measures here.](#)

GIGAOM EVENT

HOME | APPLE | BROADBAND | CLEANTECH | CLOUD | COLLABORATION | MOB

↳ kfitchard: FCC lets AT&T off the hook, but still releases damning merger report <http://t.co/FiqYWlIT>

British government bets big on open data for growth

By Bobbie Johnson | Nov. 29, 2011, 3:46am PT | 1 Comment

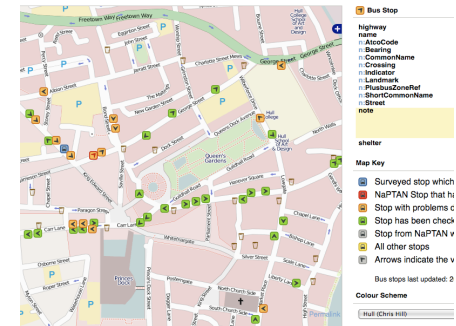
↳ Tweet 124 | Share 37 | Like | +1 2

Just like the rest of the Western world, Britain's government is under serious pressure to revive the country's stalled economy. And at no point is there pressure greater than today, as the Chancellor, George Osborne, unveils his latest initiatives to get things going as part of his Autumn Statement — the regular update on the state of the nation's finances.

But unlike other countries, the U.K. is not just talking about [creating jobs](#) or encouraging [infrastructural projects](#): it's also taking a gamble on data.

Open Data Challenges

- Infrastructure
- Quality
- Interpretation
- Security and Privacy
- Open Data 2.0 ...



MailOnline

This very crowded isle: England is most over-populated country in EU

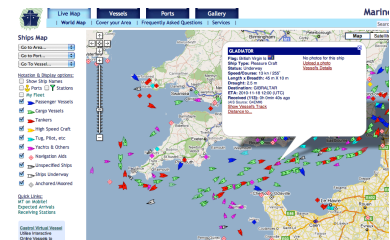
By IT NEWS COLLECTIVE
Last updated at 11:28 AM on 28th August 2010

England is now the most overpopulated country in Europe.

It has more people per square mile than the Low Countries, which has long been the most densely populated region of the continent, with London alone contributing to a higher than half of Britain's population and a quarter of its population living in 27 sq miles.

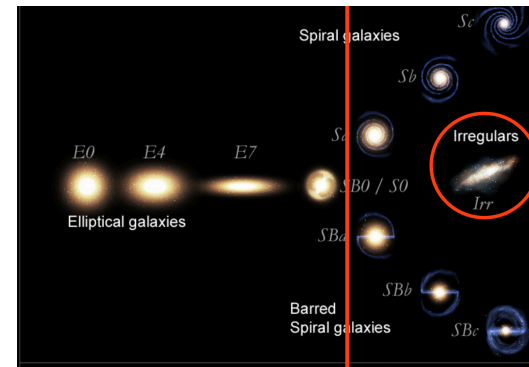
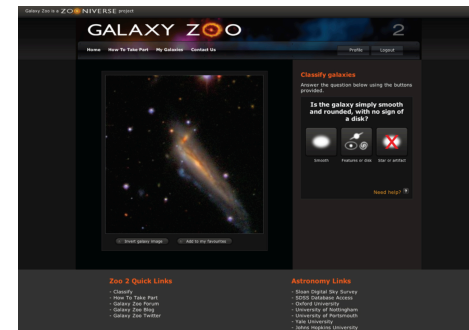
The confirmation of England's position at the head of the European overpopulation league table was given by the highly authoritative House of Commons, which examined figures from the Office of National Statistics and the EU's Eurostat.

Officials said that by next year England's population will rise to 55 million, compared to 50 million in France and 45 million in Germany.



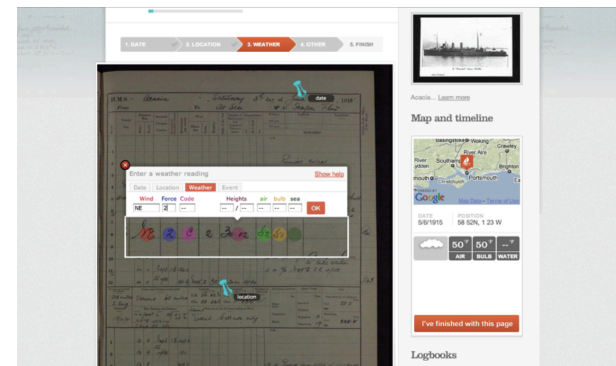
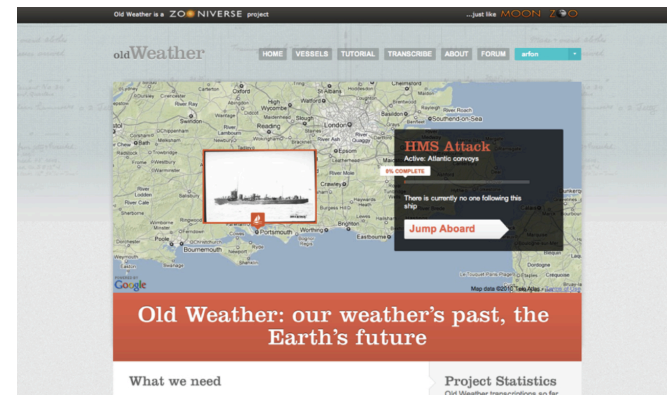
OGD 2.0 – Crowd Sourcing Open Data

- Closing the feedback loops
- Publish out
- Acquire & Enhance
- Write Back



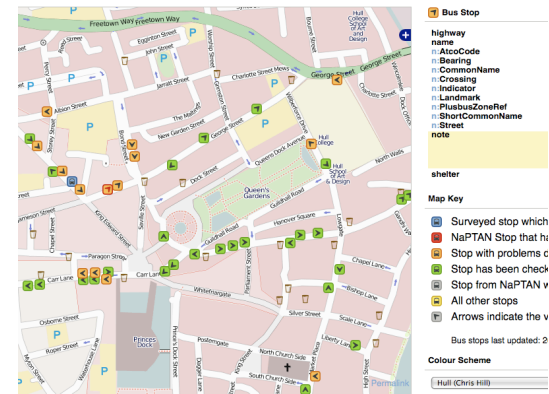
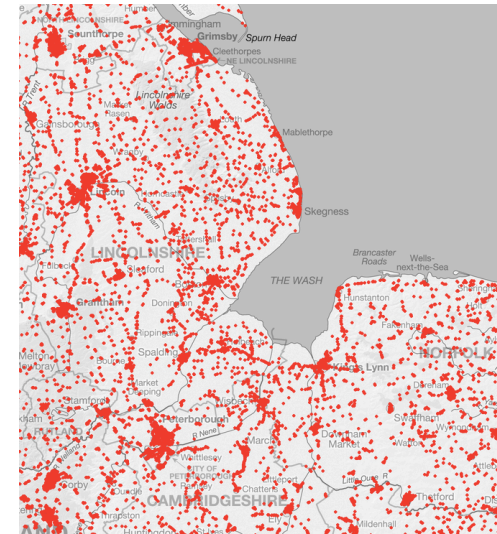
OGD 2.0 – Crowd Sourcing Open Data

- Closing the feedback loops
- Publish out
- Acquire & Enhance
- Write Back

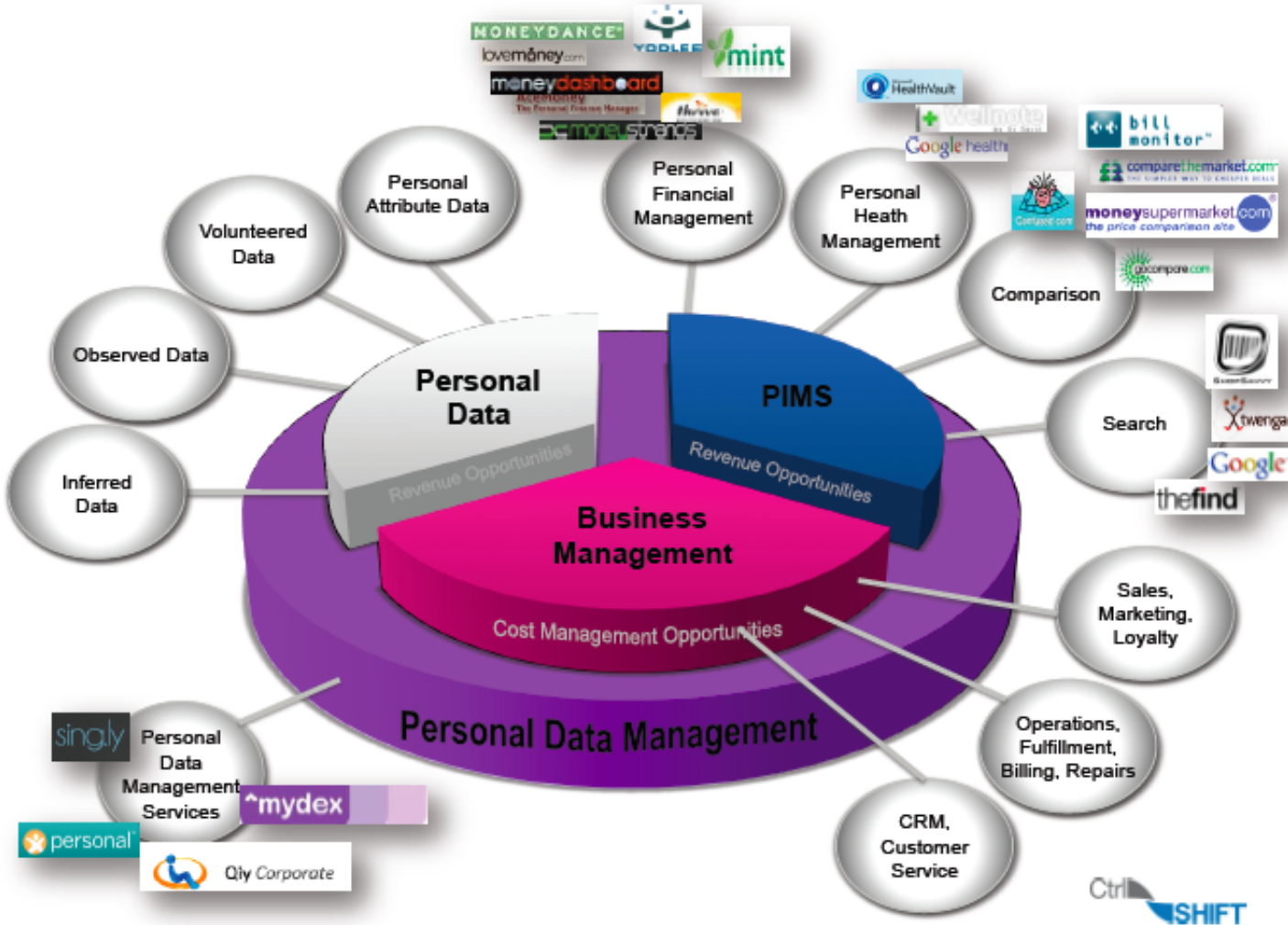


OGD 2.0 – Crowd Sourcing Open Data

- Closing the feedback loops
- Publish out
- Acquire & Enhance
- Write Back



Consumers' own data open to themselves...



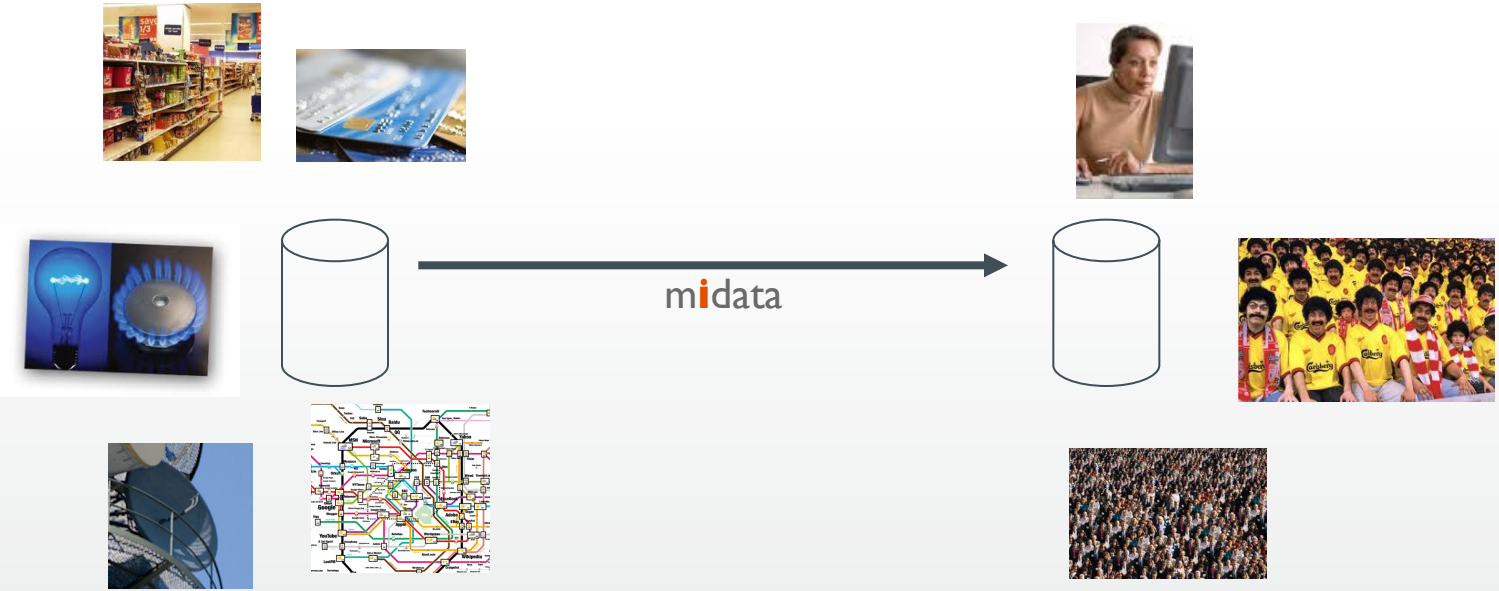
BIS | Department for Business
Innovation & Skills

mi**i**data

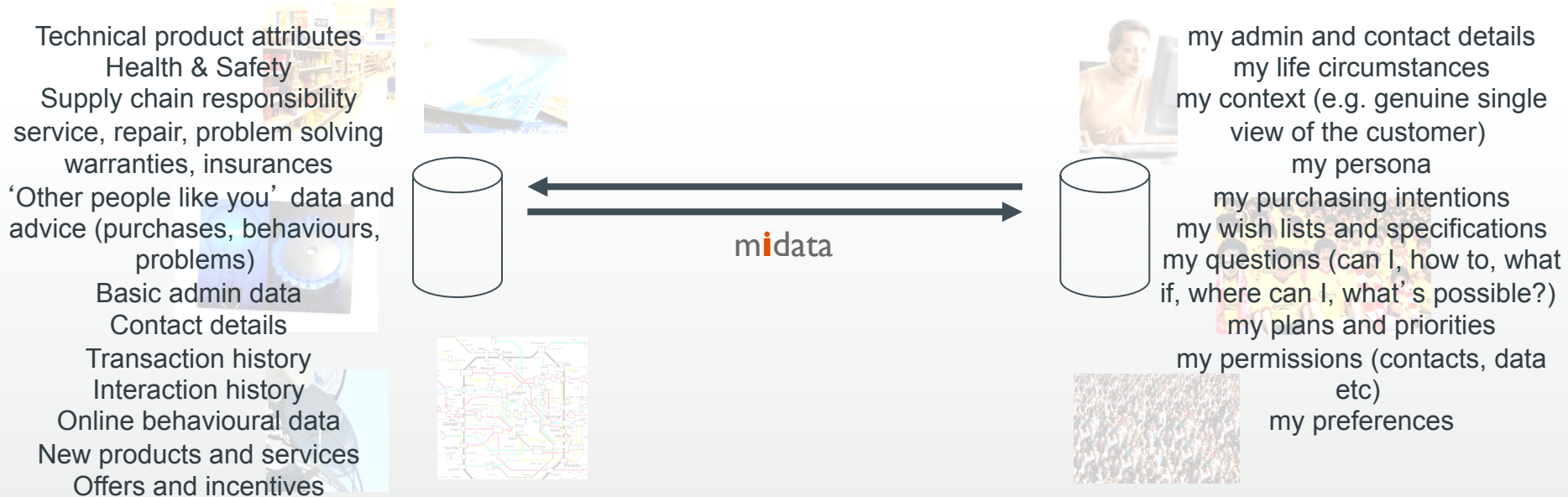


CabinetOffice

Step 1: A precondition for...



Step 2: New interactions...



Linked Open Data OTW – a platform for modern government

FixMyStreet Report a problem All reports Local alerts

This problem has been fixed.

Pothole reappearing in High Street

Reported in the Potholes category by Andrew Stott at 15:19, Saturday 15 January 2011
Sent to Kent County Council 1 minute later

A pothole has reappeared in the High Street, in a section of road used by traffic in both directions (due to parked cars on the other carriageway). A pothole in this location was reported and fixed last spring; the repair does not seem to have been effective. The pothole is adjacent to a utility access cover.




[View on Google Maps](#)

govspark Home Competition Detail Map About

Government Department Energy Consumption

Competition

Please keep in mind this service is still beta and undergoing testing. Any feedback or bugs gratefully received.

We have ten days worth of data for October compared with the data for the full month of September. The data will be updated at regular intervals and this will augment the relatively sparse data points for October as we move through the month.

In May 2010 the Prime Minister pledged that the Government would reduce emissions on its estate by 10%. In this league table we have taken the live energy feeds from each department headquarters to show the live ranking. The feeds are updated every 24 hours by departments and we reflect that here in real-time.

A competition has been announced for the 18 department headquarters which will run from 1 October and last for one month. The winner of the competition will be the department which uses the least energy in the month relative to the previous month. This league table will be used to monitor and chart the departments throughout the competition.

The live league table on the right currently shows how much energy departments have used in October compared to September.

Ranking	Department	Percentage (Reduction) / Increase
1	defra	-22%
2	DWP Department for Work and Pensions	-18%
3	Ministry of JUSTICE	-14%

openlylocal making local government more transparent

Oxford City Council

Website: <http://www.oxford.gov.uk/> Twitter feed

Authority Type: District

County Council: Oxfordshire County Council

Address: Town Hall, Blue Boar Street, Oxford, OX1 4EY

Telephone: 01865 249 811

Chief Executive: Peter Skilton

Population: 153,800 (Source: ONS Crown Copyright:)

Police Force: Thames Valley Police

Wikipedia URL: http://en.wikipedia.org/wiki/Oxford_City_Council

Other info

External links: [WhatDoTheyKnow.com](#) [Fol requests](#) [Feedback](#)

Office for National Statistics page: [Office for National Statistics page](#)

Government Register page: [Government Register page](#)

ONS SNAC ID: [39UC](#)

Statistics

Business Survey 2008: more data... 86.5

% who are satisfied with their local area as a place to live: more data...

Local Government Pension Funds 2009-10: more data...

Market Value - at end of year £000: 1048951

Online services

See full list Search

Current councillors

- Mohammed Niaz Abbasi (Labour)
- Mohammed Ataf Khan (Liberal Democrat)
- Alex Edmund Armitage (Liberal Democrat)
- Antonia Bance (Labour)
- Laurence Peter Baxter (Labour)
- Elise Bejjani (Green)
- Stephen Thomas Brown (Liberal Democrat)
- Clark L. Broadie (Liberal Democrat)
- James Robert Martin Campbell (Liberal Democrat)

Council Committees

Showing only currently active committees. Include inactive committees

- Audit and Governance Committee (next meeting: Jan 25 2010, 5.00PM)
- Central South and West Area Committee (next meeting: Jun 12 2010, 5.30PM)
- City Executive Board (next meeting: Dec 15 2009, 5.00PM)
- Committees & Partnership Scrutiny Committee (next meeting: Feb 10 2010)

Wards

- Barton And Sandhills
- Blackbird Leys
- Carfax
- Churchill
- Cowley
- Cowley Marsh
- Headington
- Headington Hill And Northway
- Hinksey Park
- Horswell
- Ilfax Estate

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Transparency. Delivered

Overview of the spend for Royal Borough of Windsor & Maidenhead

	Actual Spend	Compared to English Unitary Authority Average
Total Spend	£72,820,736	-36%
Spend / Public Employees	£44,161	+134%
Spend with SMEs	46%	-8.8%
Spend Locally	15%	-7.0%
Spend / Households	£1,296	-16%
Spend / Working Adults	£828	-12%
Spend / Persons of Pensionable Age	£2,783	-8%
Spend / Children	£2,540	-23%

View spend in summary

View spend by category

View carbon emissions

Key people & facts

Freedom of Information

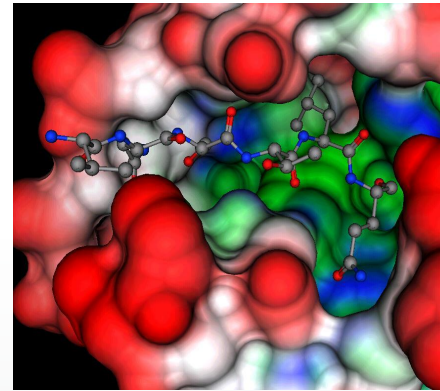
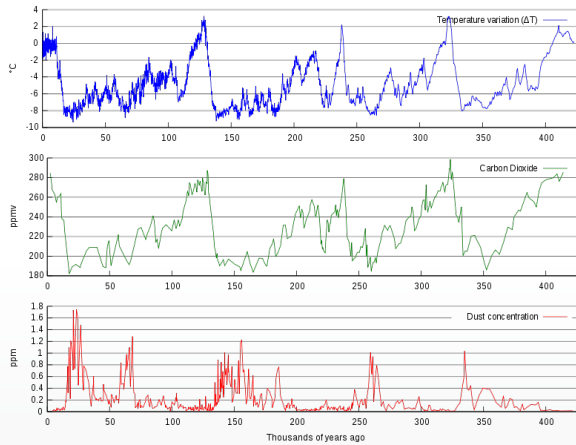
About the data

Tell me more

I'm really excited about the opportunities of transparency and it's something the government is utterly committed to. spotlightsonspend demonstrates that, when innovative businesses work with far-sighted public bodies, we can inform the public, reduce costs and improve democracy both locally and nationally.

Eric Pickles
Secretary of State
Communities and Local Government

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