

The Power of Open Government Data

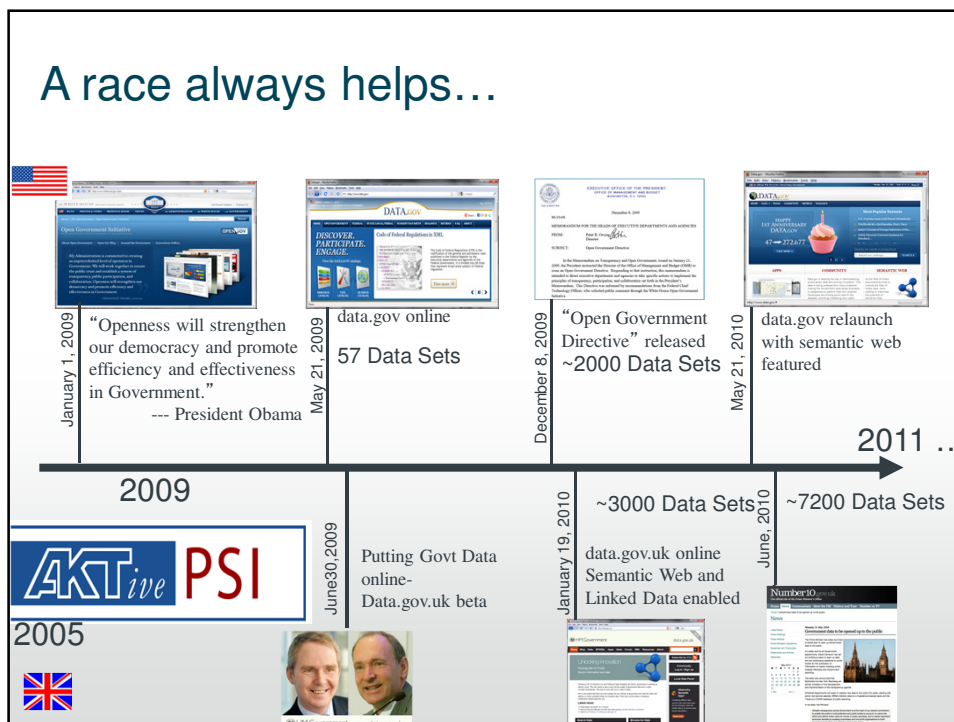
Professor Nigel Shadbolt

UK Open Data Advisor
 Chair Local Public Data Panel
 Chair mydata programme

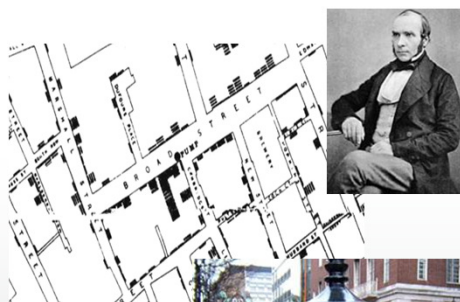
23rd June 2011
 opendata.ch, Berne



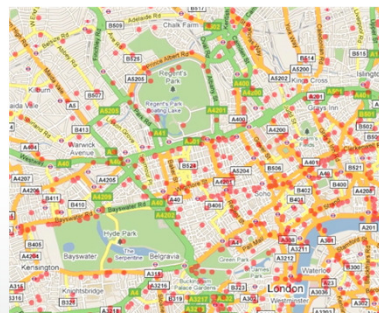
A race always helps...



“Where there is no vision the people perish” Proverbs 29,18



Cholera cases



Bicycling traffic accidents

Open Data does not have to be partisan

- Tim Berners-Lee and myself appointed 9th June 2009 and set about creating data.gov.uk
- Open Data referenced in both main UK party manifestos
- Reappointed to Public Sector Transparency Board June 2010
- Governments, local authorities, cities releasing data



Political backing is essential



Gordon Brown
March 2010

“We are determined to go further in breaking down the walled garden of government, using technology and information to provide greater transparency...

In January we launched data.gov.uk. And even in the short space of time since then the interest this initiative has attracted - globally - has been very striking...”

Political backing is essential



Francis Maude
Transparency Board
May 2011

“Greater transparency across Government is at the heart of our shared commitment to enable the public to hold politicians and public bodies to account; to reduce the deficit and deliver better value for money in public spending; and to realise significant economic benefits by enabling businesses and non-profit organisations to build innovative applications and websites using public data.”

David Cameron
May 2010

Political backing is essential



George Osborne
May 2011

“Our ambition is to become the world leader in open data, and accelerate the accountability revolution that the internet age has made possible.. A year from now web sites and services will use this data to help the public find answers to questions like: ‘Which is the right GP for my family?’, ‘What’s the quality of teaching like in my local school?’”

You can promote Open Data at all levels: the state, regions and cities

The image displays three examples of open data portals:

- data.gov.uk:** A portal titled "Opening up government" with a navigation menu (Data, Apps, Ideas, Forum, Wiki, Blog, Linked Data, Resources, About). It features a main banner about "Over 4,000 datasets to view" and a sidebar with "Full, Open, up and more" and "Latest from the team".
- london.gov.uk:** A portal titled "London Datastore" with a search bar and navigation menu (Databases, Categories, Keywords, Organisations, Search Datasets, Recent Datasets, Recent Suggestions, API Data). It features a main banner "A first step towards freeing London's data" and a sidebar with "Share with" and "Latest blog entry".
- DataShare:** A portal with a central image of glasses and text "View Download About". It features a "Featured data" section with items like "Senior staff salaries" and "Website usage".

There are a range of arguments

- Transparency & Accountability
- Economic Value, Innovation & Growth
- Improve Public Services
- Engagement and the Crowd
- Efficiency – better for less
- Civil Society – Social Value

The screenshot shows a website interface with several sections:

- 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 make you when you get to your train station? Discover over 100 apps harnessing public data to make your life easier.
- 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 (1,596)
 - health-and-social-care (696)
 - care (928)
 - population (251)
 - health-well-being-and-care (744)
 - local-rates (1)
 - education (675)
 - economics (912)
- Ideas:** Does Britain need a map showing which roads have been grided when it snows? Read and vote over 300 bright ideas about how the data on this website could be used.
- Blogs:** Check data matter? Why should it be open to everyone? Read 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 ideas, news and other resources to help you get more out of this website.

Transparency and Accountability

The screenshot shows a newspaper article with the following details:

- Headline:** NAMED: 172 CIVIL SERVANTS PAID MORE THAN PM
- Sub-headline:** Fergie: I'd been drinking before £500,000 sting
- Image:** A photograph of a woman, likely Fergie, with her hand to her face.
- Text:** The newspaper reports on high salaries of civil servants, mentioning a £500,000 'sting' and a quote from Fergie about drinking before the incident.

The screenshot shows a table titled 'Overview of the spend for Royal Borough of Windsor & Maidenhead' with columns for 'Area Name', 'Spend', and 'Change'.

Area Name	Spend	Change
Health	£72,820,736	-39%
Police	£44,161	+134%
Fire	£48%	-8.8%
Waste	15%	-7.0%
Other	£1,296	-16%
Education	£328	-12%
Other	£2,783	-8%
Other	£2,540	-23%

The screenshot shows the 'openlylocal' website for Oxford City Council, featuring a pie chart and various data points.

openlylocal making local government more transparent

Oxford City Council

Website: [http://www.oxford.gov.uk](#) | Twitter feed

Address: 100 Broad Street, Oxford, OX1 2JF

Phone: 01865 200111

Other info:

- 100 Broad Street, Oxford, OX1 2JF
- 01865 200111
- www.oxford.gov.uk

Current councillors:

- Richard Bland (Liberal Democrat)
- John Bland (Liberal Democrat)
- John Bland (Liberal Democrat)
- John Bland (Liberal Democrat)
- John Bland (Liberal Democrat)
- John Bland (Liberal Democrat)
- John Bland (Liberal Democrat)
- John Bland (Liberal Democrat)
- John Bland (Liberal Democrat)
- John Bland (Liberal Democrat)

Economic Value, Innovation and Growth

Spikes Cavell
KNOW. KNOW. KNOW.

DELIVER CASH SAVINGS
WITHOUT COMPROMISING
FRONT-LINE SERVICES

A procurement savings solution

BrightScope
Data. Diligence. Decisions.™

Look Up a Company 401k or Financial Advisor

Company 401k or Financial Advisor

BIS Department for Business, Innovation & Skills

Research Funding Explorer

Project activity

Cumulative investment in R&D

£150m
£120m
£90m
£60m
£30m
£0m

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

Improving Public Services

NHS Choices Your health, your choices

Health A-Z Live Well Careers Direct Health news Find and choose services

Royal Cornwall Hospital (Treliske)

Exeters Road, Cornwall, TR1 3J, TR12 2DDB

What people say about this hospital

Overall rating: 38 out of 61

Police.uk Sevenoaks, Kent, UK

Crime maps Meet the team Get involved Information and advice

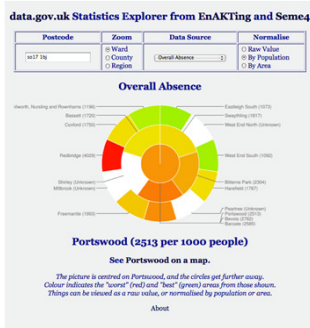
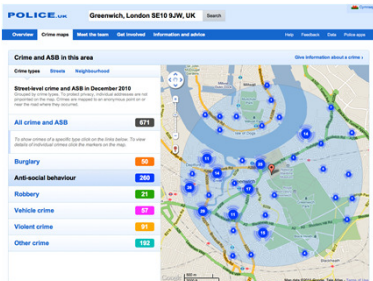
Crime and ASB in this area

Street-level crime and ASB in February 2011

All crime and ASB: 43

Burglary	7
Anti-social behaviour	14
Robbery	0
Vehicle crime	4
Violent crime	3
Other crime	15

Civil Society – Social Value



If you publish the apps come



UK Dentists

Find your nearest NHS dentist quickly and easily!

The National Health Service has over 7,500 dental surgeries across England but finding one can be a difficult and time-consuming task. This app is based on data provided by the UK's Health and Social Care Information Centre (HSCIC) and covers 99.4% of all registered NHS dental surgeries in England.

Search for an NHS dentist around your current location, or look for one in another area where you may be moving to, or for a friend via a simple place name or postcode search. Directions can be displayed in metric or imperial units (configured in the application preferences).

UK Dentists uses the built-in GPS on the iPhone to get your current location, but can also locate an IPloc Touch in built-up IPloc areas. If your location cannot be determined automatically then you can always enter your post code to get started. Please note that an internet connection is required to get location and map data.

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Application Screenshots

Click on any of the images to see a larger version

NetCom 13:47

Map placr.co.uk - Tube...

Kilburn Park Platforms

Northbound - Platform 1 **Bakerloo**

Less waiting than normal
current time between trains: 2.1 mins.
normal: 3.1 mins

Southbound - Platform 2 **Bakerloo**

Normal performance
current time between trains: 2.2 mins.
normal: 2.2 mins

Overall station performance:

Less waiting than normal



Buy on iTunes

Publish data that matters...

The collage features four distinct data visualization dashboards:

- OpenData.gov.uk:** A dashboard for publishing and exploring open data, showing search filters, data categories, and a map of the UK.
- gov.uk Competition:** A dashboard titled 'Government Department Energy Consumption' showing a 'Competition' table with columns for 'Ranking', 'Department', and 'Percentage Change'. It lists defra (-22%), DWP (-18%), and Ministry of Justice (-14%).
- spotlightspend:** A dashboard titled 'Overview of the spend for Royal Borough of Windsor & Maidenhead' showing a table of spend items with columns for 'Amount Spent', 'Change in Spend', and 'Percentage Change'. Items include 'Travel' (+134%), 'Information & Communications' (-8.8%), 'Energy' (-7.0%), 'Security' (-16%), 'Healthcare' (-12%), 'Education' (-8%), and 'Other' (-23%).
- Crime Map:** A map of a region with numerous red dots representing crime incidents, overlaid on a street map.

In the UK most recently crime....

The image shows two identical screenshots of a crime map for Greenwich, London SE10 9JW, UK. Each screenshot includes:

- Search Bar:** 'Greenwich, London SE10 9JW, UK' with a search icon.
- Navigation:** 'maps Meet the team Get Involved Information and advice Help Feedback'.
- Crime Statistics:**
 - ASB (Anti-Social Behaviour):** 671
 - ASB in December 2010:** 50
 - Behaviour:** 260
 - Behaviour in December 2010:** 21
 - Behaviour in December 2010 (Category 1):** 57
 - Behaviour in December 2010 (Category 2):** 91
 - Behaviour in December 2010 (Category 3):** 192
- Map:** A map of Greenwich with various colored markers (blue, orange, green, pink, yellow) indicating crime locations.

Public Data Principles are Key

- Data release driven by public and businesses
- Publish the data unless good reason not to
- Public data will be timely and fine grained
- Public data will be published in reusable, machine-readable form
- Release data quickly, and then re-publish it in linked data form
- Public data will be released under **the same open licence** which enables free reuse, including commercial reuse....



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for public sector information

delivered by
The National Archives
[Back to The National Archives](#)

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The journey to stardom

- ★ Put your data on the Web (any format) with an OL
- ★★ Make it available as structured data
- ★★★ Use open, standard formats
- ★★★★ Use URLs to identify things
- ★★★★★ Link your data to other people's data

The Power of Linked 5★ Linked 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

Ordnance Survey

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Burghclere, Highclere and St. Mary Bourne

A description of the resource identified by <http://data.ordnancesurvey.co.uk/id/700000000017789>

Label	Burghclere, Highclere and St. Mary Bourne
Name	Burghclere, Highclere and St. Mary Bourne
Type	Geographic Area
Area	11445.724
Area code	DNB
Country code	24382E
OSID ID	17789
Borders	Buckingham Buckingham Oxfordshire Oxfordshire, Leicestershire and Shropshire Warwick Warwickshire St. Marys Wiltshire Wiltshire East Wiltshire Wiltshire
Contains	Lambert and Woodless St. Mary Bourne Burghclere, Highclere and St. Mary Bourne Burghclere Highclere St. Mary Bourne

The data for this description was obtained from the SNAID service at <http://api.bella.com/stores/ordnancesurvey/area.html>. This data is also available in [RSS](#), [XML](#), [Text](#) and [JSON](#). A free text search service is available at <http://api.bella.com/stores/ordnancesurvey/area.html>

View this data using these other browsers:

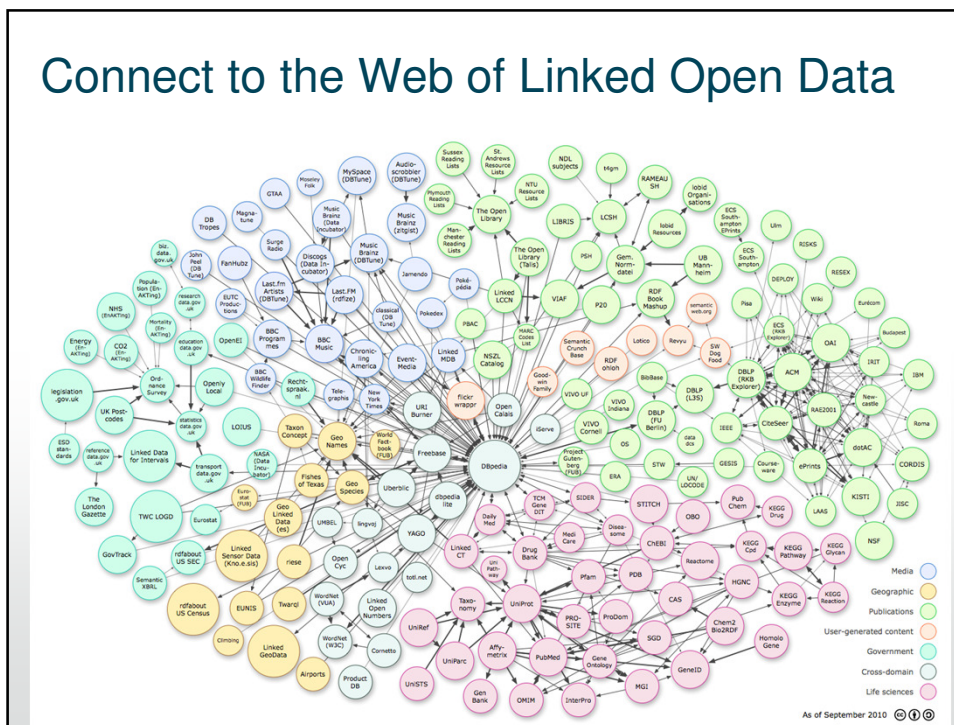
- [Map Data](#)
- [Open Data Viewer](#)
- [Data](#)
- [Data](#)
- [OpenLink Data Explorer](#)

[Top of page](#)

Ordnance Survey is Great Britain's national mapping agency, providing the most accurate and up-to-date geographic data, used by government, business and individuals. [Data](#) [Info](#) [Feedback](#) [Contact Us](#) [Privacy](#) [Legal](#) [Terms](#)

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Connect to the Web of Linked Open Data



Challenges

- Infrastructure
- Quality
- Interpretation
- Security and Privacy
- Upgrading ourselves



Lesson - don't be afraid of mistakes

HM Government

Home Blog Data SPARQL Apps Ideas Forum Wiki Resources About

Home

National Rail Travel Survey

Report on a survey of passenger trips on the national rail system in Great Britain on weekdays, outside school holidays.

Source agency: Transport

Designation: National Statistics

Language: English

Alternative title: National Rail Travel Survey

Overview

Released	2008-05-29
Last updated	-
Update frequency	-
Tags	other-modes-of-transport transport-and-infrastructure rail passenger public-transport travel-and-transport
Department	Department for Transport
Wiki	National Rail Travel Survey

Download

Download	2008 Report http://www.statistics.gov.uk/hub/119-35177
Download	2008 Report http://www.statistics.gov.uk/hub/119-34913
Full description	-

Additional Tables

- [Bacon and Ham production datasets](#)
- [UK meat production and supplies](#)

Coverage: GB
Geographic Breakdown: n/a

GB PRODUCTION OF BACON AND HAM

Statistics produced by the Department for Environment, Food and Rural Affairs on GB, 1st January 2010 according to the arrangements approved by the UK Statistics Authority as to October to December 2009.

in this release are:

Statistics on production of bacon and ham in Great Britain to the fourth quarter of 2009 (Statistics on production of bacon and ham in Great Britain to 2009).

Lesson - Keep the IT simple

 **@DirDigEng**
Director Dig Engmnt

RT [@nicolastorzec](#): Using data.gov.uk model, Norway to set up open data catalog w/[#CKAN](#) and [#Drupal](#): blog.okfn.org/2010/10/04/nor... [#opendata](#) <-welcome!

5 Oct via TweetDeck ☆ Favorite ↩ Reply 🗑 Delete

Retweeted by [david_tallan](#) and 1 other

[+ Linux, Mediawiki, Drupal, Varnish, Apache,]

Location, location, location...



Lesson – Open and Agile

- Use TD, BU, MO
- Use agile methods
- Use open licences
- Use open standards
- Use public data principles
- Use the community
- Get strategic
- It is not just an IT project

Seize the Day
Carpe Diem
Saisir l'occasion

:

Thank you

For advice and help on applied and practical open data and linked data projects see also

tim.organ@seme4.com

Chief Operating Officer

Seme4 Limited

18 Soho Square

LONDON

W1D 3QL

