



# Open Data and Economic Growth

Professor Nigel Shadbolt

Founder Seme4

28<sup>th</sup> June 2012  
opendata.ch, Zurich

@Nigel\_Shadbolt



Nigel Shadbolt



## Open Data and Economic Growth

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

28<sup>th</sup> June 2012  
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Nigel Shadbolt



Open Data Institute  
Finding the Value in Open Data

# Open Data and Economic Growth

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28<sup>th</sup> June 2012  
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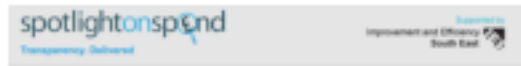


Nigel Shadbolt

“A piece of content or data is open if anyone is free to use, reuse and redistribute it – subject only, at most, to the requirement to attribute and share-alike”

[opendefinition.org](http://opendefinition.org)

# open the data...



|                    | Actual Spend | Compared to England average |
|--------------------|--------------|-----------------------------|
| New homes          | £72,820,736  | -36%                        |
| Public transport   | £44,161      | +134%                       |
| Spent on roads     | 46%          | -8.8%                       |
| Spent on schools   | 15%          | -7.0%                       |
| Spent on housing   | £1,296       | -16%                        |
| Spent on health    | £828         | -12%                        |
| Spent on transport | £2,783       | -8%                         |
| Spent on other     | £2,540       | -23%                        |

- Boundary-Line™
- OS VectorMap™ District - New



Our API pages help you create an application by following simple code and tutorials.

supply

on hard media or  
r PC, Mac or laptop  
y need specialist  
ew and use this

about

View, download and order OS OpenData or use OS OpenSource to enhance your own

help

See our FAQ page to find answers to questions you might have about

much

Facebook or YouTube.



# and the applications follow...



data.gov.uk<sup>BETA</sup>

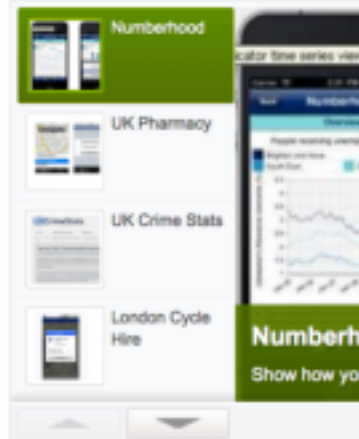
Opening up government



## Apps



## Apps



# Bus Guru

LIVE

Available on the Android Market | Available on the App Store

HOME REVIEWS PRESS SUPPORT

Developed by AppShed

Bus Guru has been developed by

## NEVER MISS A BUS AGAIN!

Bus Guru is the UK's first app to give users both the LIVE (real-time) bus times AND the best routes from TfL's Journey Planner and Countdown System – and it's FREE!

**SAVE TIME & ELIMINATE STRESS:** No more waiting around at bus stops, with Bus Guru you can plan your journey to perfection – knowing which route will be the fastest AND when your bus will arrive at the stop.

CLICK ON PHONE SCREEN TO TRY THE LIVE APP

- For iPhone/iPad: [Download iPhone App](#)
- For Android: [Download Android App](#)
- All Smartphones: To install the Bus Guru mobile app open the following link in your phone's browser: <http://m.buguru.co.uk> (the web app can usually be saved on your phone from the browser).

**FEATURES**

- LIVE INFO:** Up-to-the-second information on all TfL buses' real-time locations.
- ONE CLICK:** To view your nearest stop's buses OR all the bus stops around you.
- 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@buguru.co.uk](mailto:support@buguru.co.uk) if you find any bugs and we will update the app).
- SEARCH:** For ANY bus stop and live bus info via an address/postcode/area.

|                                  | 2007 | 2008 | 2009 |
|----------------------------------|------|------|------|
| 1. <i>Chlorophyll a</i> (µg/g)   | 1.0  | 1.0  | 1.0  |
| 2. <i>Chlorophyll b</i> (µg/g)   | 1.0  | 1.0  | 1.0  |
| 3. <i>Chlorophyll c</i> (µg/g)   | 1.0  | 1.0  | 1.0  |
| 4. <i>Chlorophyll d</i> (µg/g)   | 1.0  | 1.0  | 1.0  |
| 5. <i>Chlorophyll e</i> (µg/g)   | 1.0  | 1.0  | 1.0  |
| 6. <i>Chlorophyll f</i> (µg/g)   | 1.0  | 1.0  | 1.0  |
| 7. <i>Chlorophyll g</i> (µg/g)   | 1.0  | 1.0  | 1.0  |
| 8. <i>Chlorophyll h</i> (µg/g)   | 1.0  | 1.0  | 1.0  |
| 9. <i>Chlorophyll i</i> (µg/g)   | 1.0  | 1.0  | 1.0  |
| 10. <i>Chlorophyll j</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 11. <i>Chlorophyll k</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 12. <i>Chlorophyll l</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 13. <i>Chlorophyll m</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 14. <i>Chlorophyll n</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 15. <i>Chlorophyll o</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 16. <i>Chlorophyll p</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 17. <i>Chlorophyll q</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 18. <i>Chlorophyll r</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 19. <i>Chlorophyll s</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 20. <i>Chlorophyll t</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 21. <i>Chlorophyll u</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 22. <i>Chlorophyll v</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 23. <i>Chlorophyll w</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 24. <i>Chlorophyll x</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 25. <i>Chlorophyll y</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 26. <i>Chlorophyll z</i> (µg/g)  | 1.0  | 1.0  | 1.0  |
| 27. <i>Chlorophyll aa</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 28. <i>Chlorophyll ab</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 29. <i>Chlorophyll ac</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 30. <i>Chlorophyll ad</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 31. <i>Chlorophyll ae</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 32. <i>Chlorophyll af</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 33. <i>Chlorophyll ag</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 34. <i>Chlorophyll ah</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 35. <i>Chlorophyll ai</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 36. <i>Chlorophyll aj</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 37. <i>Chlorophyll ak</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 38. <i>Chlorophyll al</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 39. <i>Chlorophyll am</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 40. <i>Chlorophyll an</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 41. <i>Chlorophyll ao</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 42. <i>Chlorophyll ap</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 43. <i>Chlorophyll aq</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 44. <i>Chlorophyll ar</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 45. <i>Chlorophyll as</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 46. <i>Chlorophyll at</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 47. <i>Chlorophyll au</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 48. <i>Chlorophyll av</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 49. <i>Chlorophyll aw</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 50. <i>Chlorophyll ax</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 51. <i>Chlorophyll ay</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 52. <i>Chlorophyll az</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 53. <i>Chlorophyll ba</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 54. <i>Chlorophyll bb</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 55. <i>Chlorophyll bc</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 56. <i>Chlorophyll bd</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 57. <i>Chlorophyll be</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 58. <i>Chlorophyll bf</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 59. <i>Chlorophyll bg</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 60. <i>Chlorophyll bh</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 61. <i>Chlorophyll bi</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 62. <i>Chlorophyll bj</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 63. <i>Chlorophyll bk</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 64. <i>Chlorophyll bl</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 65. <i>Chlorophyll bm</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 66. <i>Chlorophyll bn</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 67. <i>Chlorophyll bo</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 68. <i>Chlorophyll bp</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 69. <i>Chlorophyll bq</i> (µg/g) | 1.0  | 1.0  | 1.0  |
| 70. <i>Chlorophyll br</i> (µg/g) | 1.0  | 1.0  |      |

about the data we share.  
image, it's all here.

# around the world...

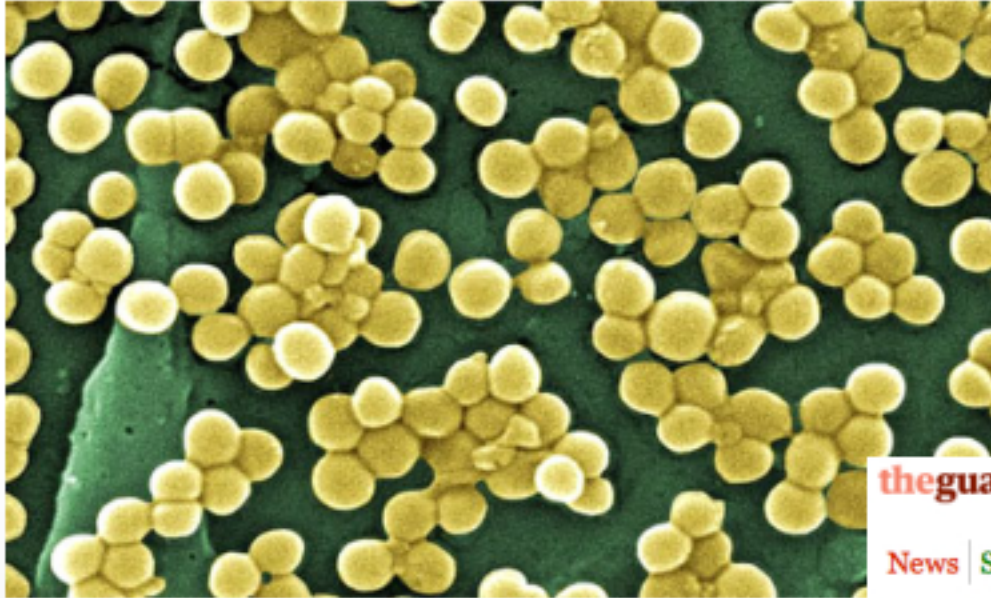


leading to...

- Improved transparency & accountability
- Better Public Services
- Participation... people enhance, improve, capture the data
- Improved efficiency
- Creation of social value
- Economic value, innovation and growth



Open Data market needs: a  
steady stream of success...



theguardian

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[News](#) > [Society](#) > [MRSA and superbugs](#)

## DATABLOG

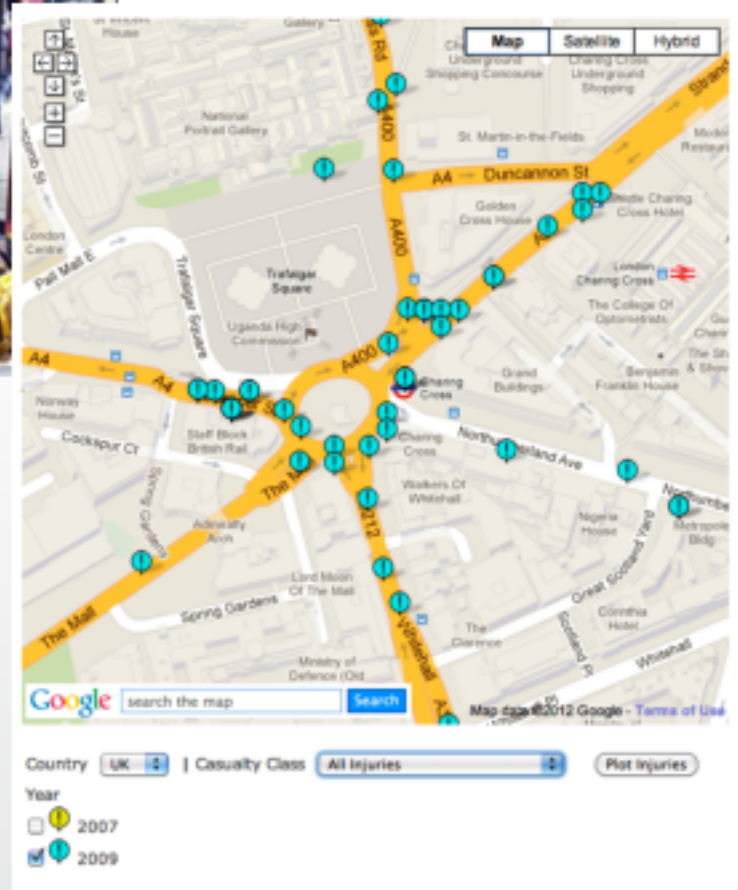
Facts are sacred

[Previous](#)

[Blog home](#)

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

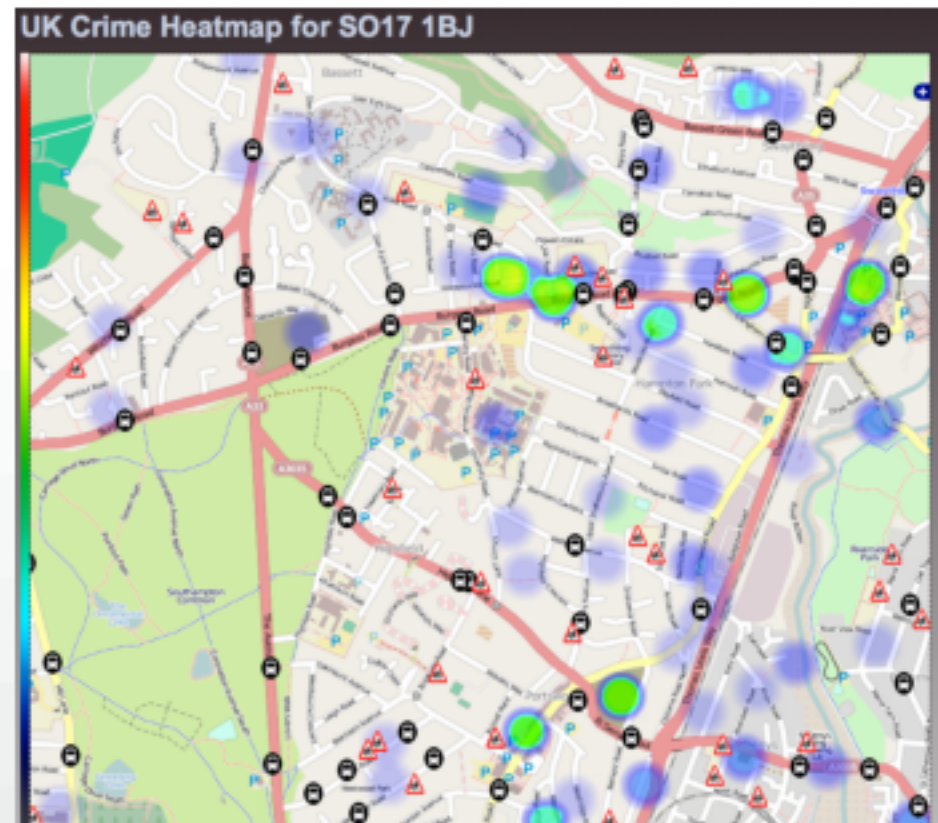
• [Get the data](#)



Open Data market needs: data  
that matters...

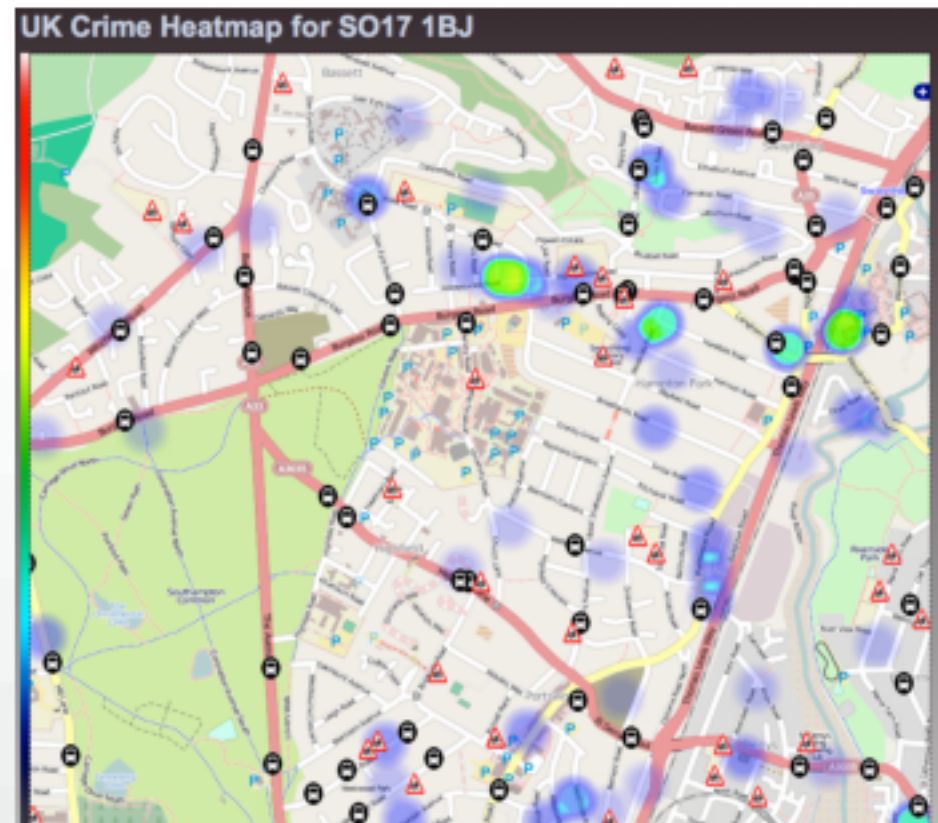
# UK Reported Crime Data

- A tough data set to release
- All reported crime each month
- By crime type
- At the street level
- Police now use the apps themselves



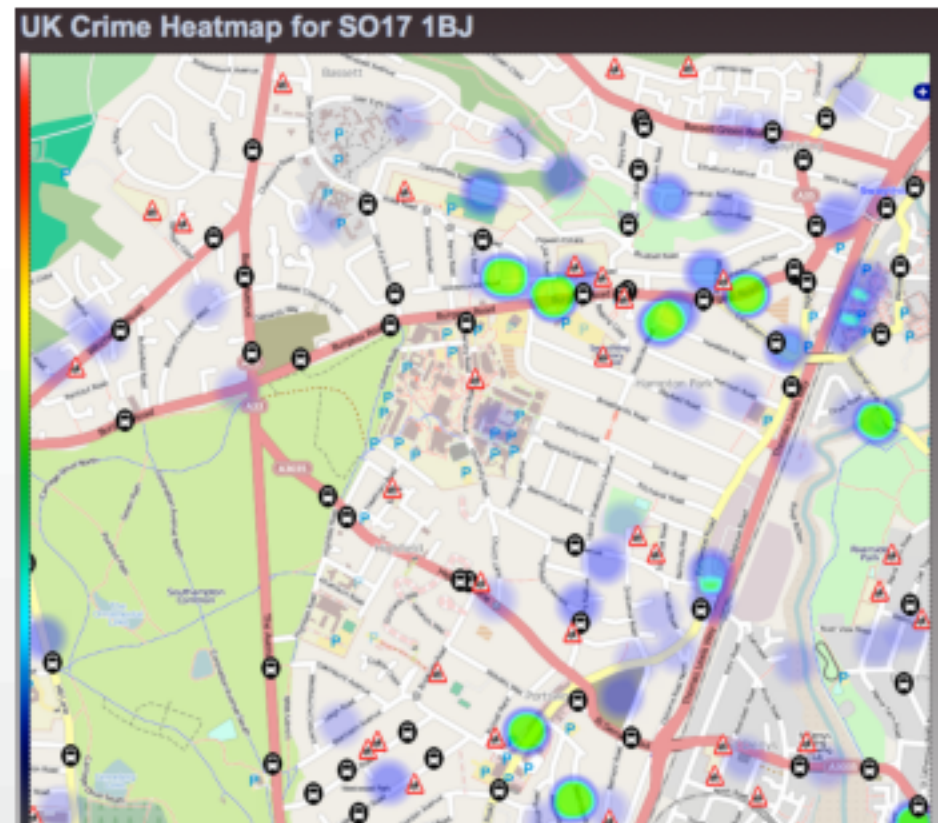
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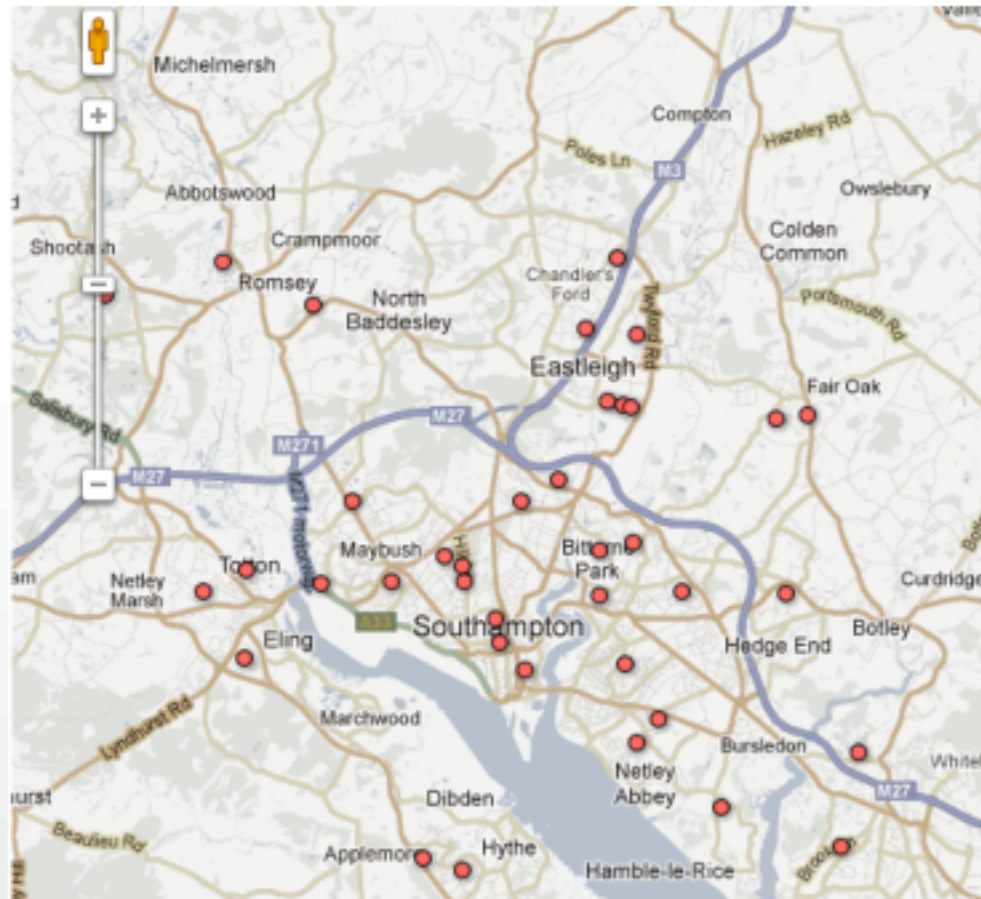


# UK Reported Crime Data

- A tough data set to release
- All reported crime each month
- By crime type
- At the street level
- Police now use the apps themselves



# From Schools to Arterial Surgery



68% of pupils achieved 5+ A\* to C grades at GCSE, inc maths and English - compared to the England state school average of 58%  
*Community School, Mixed*

## DATA BLOG

Facts are sacred

### What's the mortality rate for elective major artery surgery at your hospital?

For the first time the Vascular Society have reported the mortality rates from major artery surgery for hospitals in the UK. Here's the data from the report for you to explore

• [Get the data](#)

Sarah Bosseley and Lisa Evans  
guardian.co.uk, Wednesday 29 February 2012 12:18 GMT  
[Article history](#)



Photograph: Graham Turner for the Guardian

Your chances of surviving major artery surgery really do partly depend on which hospital you choose, a groundbreaking audit from the Vascular Society shows.

The first published audit from the Vascular Society has found that hospitals where surgeons carry out many AAA (abdominal aortic

## Guardian Professional Networks

### Healthcare Network

#### The role of commercial trials in the NHS - live discussion

Join us from noon until 2pm on Friday 30 March to discuss whether commercial research trials have a place in the NHS

[Post your comment](#)

### Healthcare Network

#### How can fathers play a bigger role in pregnancy and childbirth?

Men who are present throughout their partner's pregnancy can provide valuable postnatal support, but paternal needs are often ignored by midwives. So what can be done to involve dads more? Joanne Moorhead reports

[More from our Healthcare Network](#)

### Latest from the data blogosphere

28 Mar 2012  
Wind Map: Revealing the Traces of Wind Flowing over the U.S. in Real-Time

[From Information aesthetics](#)

28 Mar 2012  
Graphic: World: 3D Infographics Projected in NY Grand Central Terminal

[From Information aesthetics](#)

28 Mar 2012  
Live Wind Map Shows Flow Patterns

[From FlowingData](#)

[More from the data blogosphere](#)



# From Weather to Care Homes

The screenshot shows the Met Office website with a 'Public' tab selected. A prominent orange banner at the top reads 'Amber Warning of severe weather has been issued'. Below this, it lists regions affected: Orkney & Shetland, Grampian, Central, Tayside & Fife, Strathclyde, North West England, East Midlands, SE Scotland, Lothian Borders, Yorkshire & Humbers, Highlands & Eilean Siar, South West England, London & South East England, East of England, Northern Ireland. A 'Change location' section allows users to enter a place name or postcode. The 'Five day forecast' for the City of London is displayed, showing temperatures and weather icons for Thursday through Monday. A map of the UK shows the current location. The regional forecast for London & South East England is also visible.

The screenshot shows a Guardian article titled 'Quarter of health and social care providers 'failing''. The article discusses findings from the Care Quality Commission (CQC) regarding the management of medicines, record-keeping, and staff numbers. It mentions that the CQC said almost two in five locations failed to meet the essential standards of medicine management. The article also notes that more than one in four health and social care providers in England are failing to meet essential standards of quality and safety, with the health watchdog having found this. The article is dated Thursday 28 June 2012 at 07:47 BST.

staff turnover (both home care and care homes)

ratios of trained to untrained staff (both home care and care homes)

compliments and complaints (both home care and care homes)

% residents developing new pressure ulcers (care homes)

% residents who have a fall (care homes)

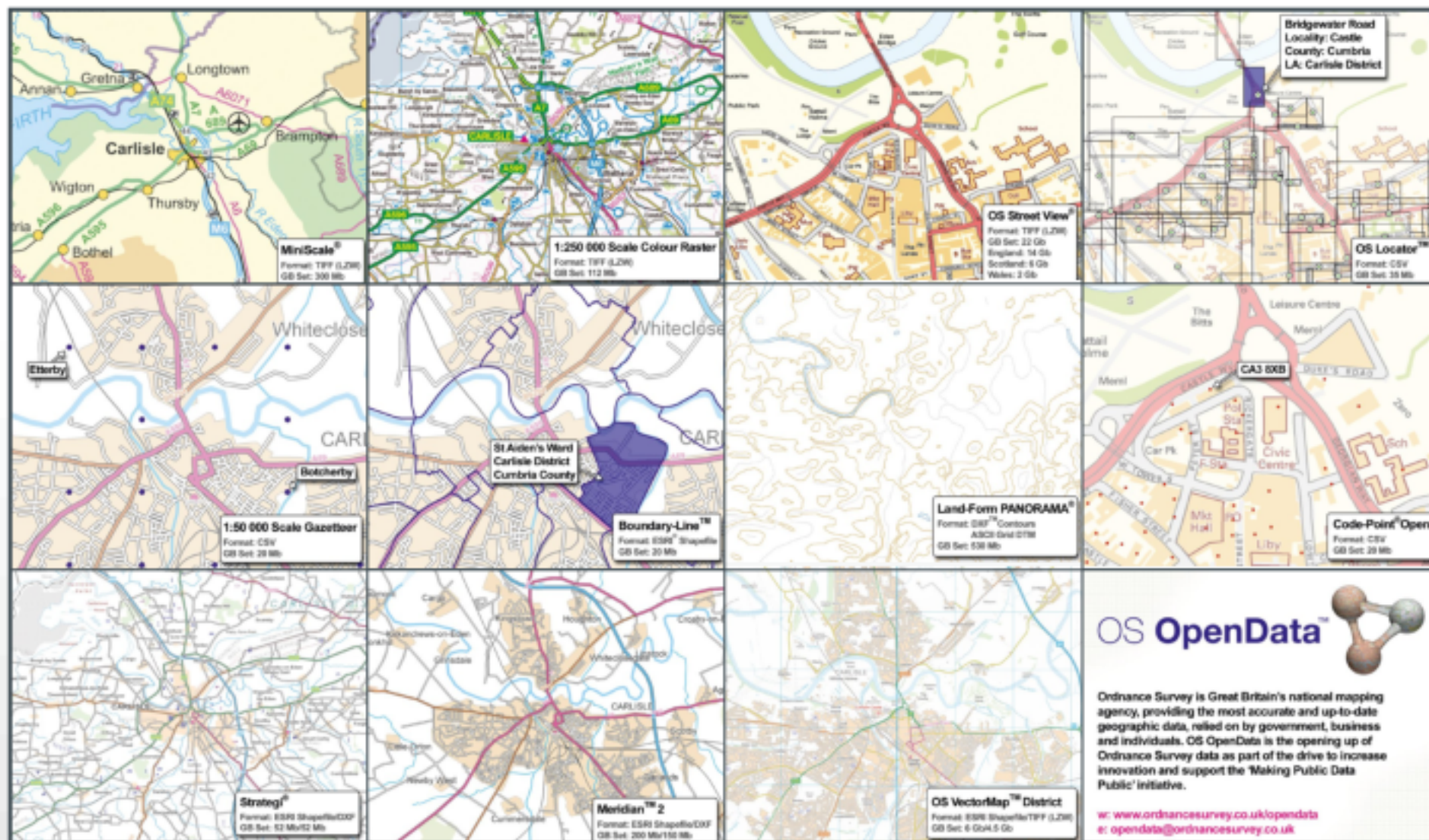
number of medication errors (care homes)

% of appointments not missed (home care)

appointments carried out at the agreed time (home care)

| Site Code  | Site Name               | Country                     | Continent    | Start Time   | Day        | Date           | Time Step      | Wind Directi   | Wind Speed        | Screen Temp   | Significant W | Wind Directi |          |               |               |
|------------|-------------------------|-----------------------------|--------------|--------------|------------|----------------|----------------|----------------|-------------------|---------------|---------------|--------------|----------|---------------|---------------|
| 3          | SOUTHAMPTON AIRPORT (3) | ENGLAND                     | EUROPE       | 00:00        | Thursday   | 28/06/2012     | 0              | S              | 12                | 23            | Sunny (Day)   | SSW          |          |               |               |
| 3          | SOUTHAMPTON AIRPORT (3) | ENGLAND                     | EUROPE       | 00:00        | Thursday   | 28/06/2012     | 24             | SSW            | 20                | 17            | (White) Med   | SSW          |          |               |               |
| 3          | SOUTHAMPTON AIRPORT (3) | ENGLAND                     | EUROPE       | 00:00        | Thursday   | 28/06/2012     | 48             | SW             | 18                | 17            | Sunny interv  | SW           |          |               |               |
| 3          | SOUTHAMPTON AIRPORT (3) | ENGLAND                     | EUROPE       | 00:00        | Thursday   | 28/06/2012     | 72             | WSW            | 14                | 17            | (White) Med   | WSW          |          |               |               |
| 3          | SOUTHAMPTON AIRPORT (3) | ENGLAND                     | EUROPE       | 00:00        | Thursday   | 28/06/2012     | 96             | SW             | 12                | 17            | (White) Med   | SSW          |          |               |               |
| Wind Speed | Screen Temp             | Significant Weather (Night) | Relative Hum | Relative Hum | Visibility | Ran Visibility | Des Visibility | Ran Visibility | Des Wind Gust (C) | Wind Gust (F) | Feels Like    | Feels Like   | UV Index | Precipitation | Precipitation |
| 13         | 15                      | (White) Medium-level cloud  | 76           | 82           | < 20000 m  | Good           | < 40000 m      | Very good      | 27                | 25            | 21            | 12           | 4        | 40            | 20            |
| 13         | 15                      | (Black) Low-level cloud     | 85           | 91           | < 20000 m  | Good           | < 20000 m      | Good           | 36                | 24            | 13            | 13           | 3        | 40            | 20            |
| 15         | 13                      | (White) Medium-level cloud  | 66           | 84           | < 40000 m  | Very good      | < 40000 m      | Very good      | 37                | 28            | 14            | 11           | 5        | 60            | 20            |
| 8          | 12                      | (White) Medium-level cloud  | 63           | 86           | < 40000 m  | Very good      | < 40000 m      | Very good      | 27                | 12            | 14            | 12           | 4        | 20            | 20            |
| 8          | 13                      | (White) Medium-level cloud  | 70           | 92           | < 40000 m  | Very good      | < 20000 m      | Good           | 24                | 13            | 14            | 12           | 4        | 20            | 20            |

Open Data market needs:  
location, location, location...



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

# the connective tissue of open data



# London Cycle Hire Journeys and Pollution

Thicker lines are more journeys

Redder lines are more polluted (PM10 2008 mean)



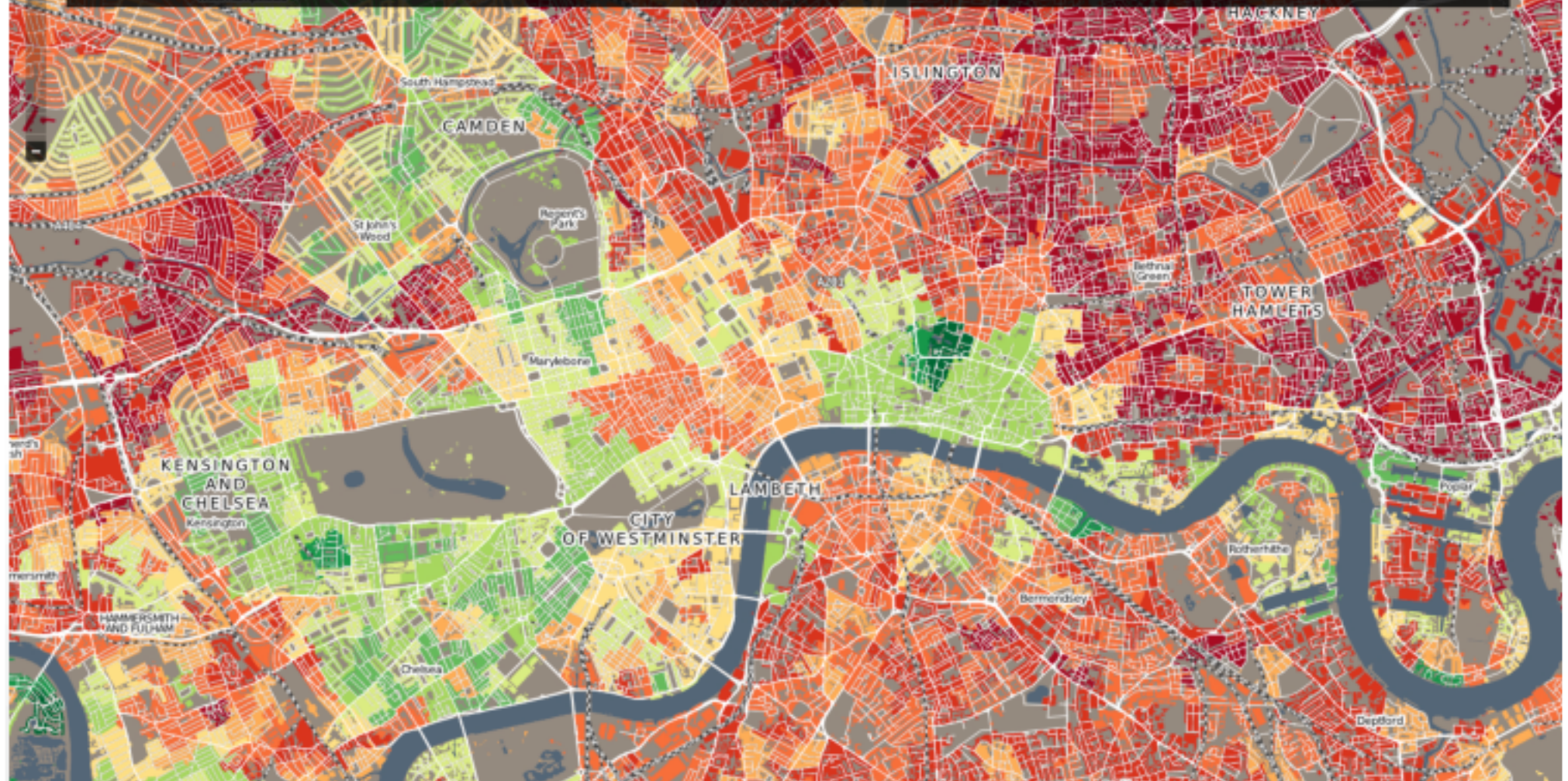
Data: 3.2 Million Journeys (from TfL)  
Routing: Ollie O'Brien (@oobr) + OpenStreetMap cc-by-sa  
Buildings: OS Opendata Crown Copyright 2011  
Pollution: GLA (via LondonDataStore)  
Map: James Cheshire (@spatialanalysis)

# 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](#) [280](#) [Tweet](#) [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.

# We still have our challenges....

Personal Customers | Corporate & Public Sector

 **Small & Medium Business**

Business Services Marketing Logistics Discounts & Payment Shop Solutions Advice Tools

Home

Marketing Services

Address Management Unit

Become a Solutions Provider/ Reseller

Licence consultations

Existing Solutions Providers

Become a new customer

Existing customers

Address Data products

Address Management Guide

Address Manager, part of UK Addresses CD

Alias data

PfF data

Postcode Address File (PAF®)

Details

**Prices**

How to buy

Postcode Updates™

Postcode™ data

Royal Mail UK Addresses

Not Yet Built™

Just Built™

Multiple Residence

New Supplier Directory

Top Links

Home > Address Management Unit > Address Data products > Postcode Address File (PAF®) > Prices >

**Postcode Address File (PAF®)**

Overview Details Prices **How to buy**

Introduction

PAF® is licensed using two licences.

- USE of PAF® data is covered by the Data Licence Agreement
- SUPPLY of PAF® data is covered by the Data Supply Agreement

On this webpage we can only summarise briefly these Agreements, but they are covered in more detail within the [PAF® Compliance Centre](#).

On 1 April 2013 we changed a number of terms & conditions, and changed our pricing structure, so that both are now more reflective of use. The definitions and prices below apply from the 1 April 2013.

Principles

Both licences work on the following principles:

- Each direct End-user signs a licence
- A direct End-user is a single legal entity, which may have a number of Users
- A User is not a person, but a terminal or device, so those sharing a terminal are treated as just one User.

The Data Licence Agreement

There are many ways in which PAF® adds value to a business. This is why the Data Licence Agreements offer different licensing options.

The majority of users want to use PAF® just in their own companies. Companies vary in the amount of use they make of PAF®. Here is how we license different levels of use:

- **Regular, unlimited usage:** We license on a User basis for unlimited use at £75 per User per year (a User being one terminal, e.g. one PC or handheld device, etc.). This is ideal for regular, unlimited usage of PAF®.
- **Extensive PAF® usage:** To reduce costs for companies with many Users of PAF®, we group numbers of Users into 'Multiple User Blocks'. Here's what this means:
  - One Multiple User Block costs £4,125 per year and covers up to 300 Users (this is 55 Users at £75 each but, for every 55 Users, a further 245 Users are licensed free).
  - There is a cap - for more than 900 Users the price is capped at £12,375 per legal entity (per End-User).
  - If User numbers flex during the licensed year, then exact numbers of User licences may not be required.

The table below shows the pricing band principles for internal use per legal entity.

| Basis of Calculating Licence Fee | Fee per complete UK version of the Data (per annum) | Fee per Postcode Area or per Limited Record Selection (per annum) |
|----------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|
|----------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|

Open Data market needs: to be  
easily found and used...

[Data](#)[Apps](#)[Ideas](#)[Forum](#)[Blogs](#)[Consultation](#)[Linked Data](#)[Resources](#)[About](#)[Go](#)

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

# data.gov.uk relaunched today...



# data.gov.uk relaunched today...



# data.gov.uk relaunched today...

The screenshot displays the data.gov.uk website interface for a specific dataset. The header features the 'DATA.GOV.UK' logo and navigation links. The dataset title is 'Mandatory Surveillance of MRSA Bacteremia, Clostridium Difficile Infection and MSSA Bacteremia'. Below the title, there is a 'Description' section, a 'Data Resources (6)' section with a table of date ranges and download links, an 'Additional Information' section with metadata, and a 'Developer Tools' section. The right sidebar contains sections for 'License', 'Contact', 'Tags', 'Social', 'Developer Tools', 'Be more with this data', and 'Publisher'.

**DATA.GOV.UK**  
Learning to Live with Data

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### Mandatory Surveillance of MRSA Bacteremia, Clostridium Difficile Infection and MSSA Bacteremia

**View** **Resources (6)** **History**

**Description**  
Mandatory surveillance of MRSA bacteremia, Clostridium difficile infection and MSSA bacteremia  
Source Agency: Health Protection Agency  
Designation: Official Statistics not designated as National Statistics  
Language: English  
Alternative title: Mandatory HCA data

**Data Resources (6)**

| Period                         | Details | Download |
|--------------------------------|---------|----------|
| November 2010 to November 2011 | Details | Download |
| December 2010 to December 2011 | Details | Download |
| January 2011 to January 2012   | Details | Download |
| February 2011 to February 2012 | Details | Download |
| March 2011 to March 2012       | Details | Download |
| April 2011 to April 2012       | Details | Download |

**Additional Information**

|                         |                        |
|-------------------------|------------------------|
| Openness Score          | 5.0                    |
| Geographic coverage     | England                |
| Date added              | 04/11/2012             |
| Date updated            | 27/06/2012             |
| National statistics     | no                     |
| ONS Category            | Health and Social Care |
| Date data last updated  | 16/02/12               |
| Date data last released | 11/02/12               |
| Theme                   | No value               |
| Temporal coverage       | No value               |
| Geographic granularity  | No value               |

**Developer Tools**  
The information on this page (the dataset metadata) is also available in JSON format:  
[http://data.gov.uk/dataset/metadata/mandatory\\_surveillance\\_of\\_mrsa\\_bacteremia\\_clostridium\\_difficile\\_infection\\_and\\_mssa\\_bacteremia](#)  
Read more about the data (Open API) about the API  
The dataset has a permanent URL:  
[http://data.gov.uk/dataset/metadata/mandatory\\_surveillance\\_of\\_mrsa\\_bacteremia\\_clostridium\\_difficile\\_infection\\_and\\_mssa\\_bacteremia](#)

**License**  
UK Open Government License (OGL) 3.0

**Contact**  
Email: [hpa@data.gov.uk](#)

**Tags**  
new conditions and diseases health health and social care health of the population the most important issues in the world all about the world all about the world all about the world

**Social**  
Get the word about this dataset  
[Twitter](#) [Facebook](#) [LinkedIn](#)

**Developer Tools**  
JSON, API and API for the dataset record

**Be more with this data**  
[Share your app](#)  
[Share on map](#)  
[Request this data](#)

**Publisher**  
Health Protection Agency

[View full dataset](#)

# data.gov.uk relaunched today...

## Open Data White Paper

Unleashing the Potential

**#opendata**

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 HM Government



# Create, Use and Share URIs



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

# Create, Use and Share URIs

- 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/790000000017789>

|              |                                                                                                                                                                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Label        | Burghclere, Highclere and St. Mary Bourne                                                                                                                                                                                                                                                                     |
| Name         | Burghclere, Highclere and St. Mary Bourne                                                                                                                                                                                                                                                                     |
| Type         | District Ward                                                                                                                                                                                                                                                                                                 |
| Area         | 11445.724                                                                                                                                                                                                                                                                                                     |
| Area code    | 01W                                                                                                                                                                                                                                                                                                           |
| Genesys code | 240801                                                                                                                                                                                                                                                                                                        |
| Unit ID      | 17789                                                                                                                                                                                                                                                                                                         |
| Borders      | Harwood<br>Bourne Valley<br>Kingsclere<br>Overton, Laverstoke and Staverton<br>Alton<br>Gosport<br>St. Mary's<br>Widborough<br>Folkestone<br>East Wootton<br>Kilbury<br>Litchfield and Woodkirk<br>St. Mary Bourne<br>Exton, Evershinton and Bishop's Cleeve<br>Burghclere<br>Highclere<br>Aldworth<br>Bosham |
| Contains     |                                                                                                                                                                                                                                                                                                               |

The data for this description was obtained from the SPARQL service at <http://api.hello.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.hello.com/stores/ordnance-survey/items>

View this data using these other browsers:

- [MacBlox](#)
- [Citizet Data Viewer](#)
- [Clio](#)
- [Dapper](#)
- [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.

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# Create, Use and Share URIs

- 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



Open Data market needs:  
change in behaviour...

# It is about changing behaviour

## UK Public Data Principles...

### Draft Public Data Principles

- **Public data policy and practice will be clearly driven by the public and businesses who want and use the data, including what data is released when and in what form** – and in addition to the legal Right To Data itself this overriding principle should apply to the implementation of all the other principles.
- **Public data will be published in reusable, machine-readable form** – publication alone is only part of transparency – the data needs to be reusable, and to make it reusable it needs to be machine-readable. At the moment a lot of Government information is locked into PDFs or other unprocessable formats.
- **Public data will be released under the same open licence which enables free reuse, including commercial reuse** – all data should be under the same easy to understand licence. Data released under the Freedom of Information Act or the new Right to Data should be automatically released under that licence.
- **Public data will be available and easy to find through a single easy to use online access point ([data.gov.uk](http://data.gov.uk))** – the public sector has a myriad of different websites, and search does not work well across them. It's important to have a well-known single point where people can find the data.
- **Public data will be published using open standards, and following relevant recommendations of the World Wide Web Consortium.** Open, standardised formats are essential. However to increase reusability and the ability to compare data it also means openness and standardisation of the content as well as the format.
- **Public data underlying the Government's own websites will be published in reusable form for others to use** – anything published on Government websites should be available as data for others to reuse. Public bodies should not require people to come to their websites to obtain information.
- **Public data will be timely and fine grained** – Data will be released as quickly as possible after its collection and in as fine a detail as is possible. Speed may mean that the first release may have inaccuracies; more accurate versions will be released when available.
- **Release data quickly, and then re-publish it in linked data form** – Linked data standards allow the most powerful and easiest re-use of data. However most existing internal public sector data is not in linked data form. Rather than delay any release of the data, our recommendation is to release it 'as is' as soon as possible, and then work to convert it to a better format.
- **Public data will be freely available to use in any lawful way** – raw public data should be available without registration, although for API-based services a developer key may be needed. Applications should be able to use the data in any lawful way without having to inform or obtain the permission of the public body concerned.
- **Public bodies should actively encourage the re-use of their public data** – in addition to publishing the data itself, public bodies should provide information and support to enable it to be reused easily and effectively. The Government should also encourage and assist those using public data to share knowledge and applications, and should work with business to help grow new, innovative uses of data and to generate economic benefit.
- **Public bodies should maintain and publish inventories of their data holdings** – accurate and up-to-date records of data collected and held, including their format, accuracy and availability.

They are asking everyone to help shape and define these important principles and have set up

# It is about changing behaviour

## UK Public Data Principles are now policy!!

re-use can generate economic benefits in the order of £33 billion a year. Following from the UK's example, the European Commission believes that opening up public data leads to greater transparency in public administration and promotes social and political engagement. The last key theme of the Commission's proposals centres around its strong belief that increasing the availability of EU-wide public data will lead to better evidence-based policy making across the public sector, resulting in more efficient and effective public services.

2.42 Currently, the UK is negotiating the revision to the Public Sector Information Directive and, while we firmly believe that greater openness and availability of data for re-use across Europe are essential, we are mindful that this must be done in a pragmatic and affordable way which doesn't add unnecessary burdens (or potential loss of revenue) on public authorities to whom the resulting revised Regulations will apply.

2.43 We intend to undertake a comprehensive and independently chaired review of the use, re-use, funding and regulation of PSI. We will publish details of this review in the autumn of 2012. In undertaking this review, we are able to guarantee that robust evidence is at the centre of decision making in this area and that it is focused on maximising the benefit of PSI to the whole of the UK, rather than just its use by government.

### Strengthening data usability

2.44 It is vital that we publish data in ways which allow people to use it easily and reliably. Doing so enables data to be used widely, reduces the barriers to innovation and eliminates unnecessary costs for businesses using the data.

2.45 At the start of the Transparency Programme, we established the Public Sector Transparency Board and asked it to give advice on general principles regarding how to make published data

were also invited to comment on the principles and how they could be improved. Now is the right time to make sure that the principles have become a fundamental part of the process of data publication. The announcement that we've adopted these as government policy, and that the Cabinet Office is committing to providing a written ministerial statement four times a year to report on compliance, is evidence of this.

2.46 The principles, drawn up by the Public Sector Transparency Board and revised as the result of consultation, are as follows.

(1) **Public data policy and practice will be clearly driven by the public and businesses that want and use the data, including what data is released when and in what form**

This is at the heart of the Government's approach. Our proposals for delivering enhanced access to data are detailed throughout this chapter.

(2) **Public data will be published in re-usable, machine-readable form**

The definitions of re-usable machine-readable are covered by the Five Star Scheme outlined later in this chapter.

(3) **Public data will be released under the same open licence which enables free re-use, including commercial re-use**

For free UK Government data, this will be the Open Government Licence<sup>11</sup> prepared by the National Archives – the Open Government Licence will be used for free data throughout government.

(4) **Public data will be available and easy to find through a single, easy-to-use, online access point ([www.data.gov.uk](http://www.data.gov.uk))**

This means that all government Open Data will be accessible through [www.data.gov.uk](http://www.data.gov.uk) –

Open Data market needs: to be  
recognised...

# Recently...

Wednesday 12th June | Latest report: **BIG DATA**

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**THE RACONTEUR**

All articles were originally featured in: **THE SUNDAY TIMES**

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JUN 12 2012

## Opening up public and business data

Author: Nigel Shadbolt

**OPINION** Professor Nigel Shadbolt, government adviser and co-leader of the forthcoming Open Data Institute, explores the potential of open government data, and increased public and corporate transparency

We are living in an age of superabundant data that has been variously described as the oxygen of the 21st century economy or the new oil. But like any raw material, it benefits from refining. Data without meaning is itself meaningless. It is only as we understand the context of what data means that it becomes information and ultimately information that we can action becomes useful knowledge.

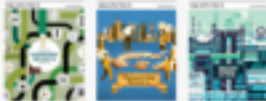
Data also comes in all sorts of shapes, sizes and forms. From big data to modest spreadsheets, public non-personal data to data that is private to an individual, data that is structured to data that is at best semi-structured – all have their own value.

One strain of data that is generating a lot of interest at the moment is open government data. Increasing numbers of governments, regions and cities are publishing their non-personal public data. Beginning with the United States launching data.gov – primarily driven by President Obama's commitment to fiscal transparency – the intent was to track where stimulus money was being spent.

More and more datasets started to appear on data.gov, and the UK followed suit soon after. By some ratings the UK now has the most valuable datasets of any nation on its data.gov.uk site.

The arguments in favour of open government data include not just transparency but improved public-sector efficiency. For example, in the two years since MRSA infection rates in UK hospitals were published, reductions of around 50 per cent have been reported, in part because openly published data allowed best practice to be shared and

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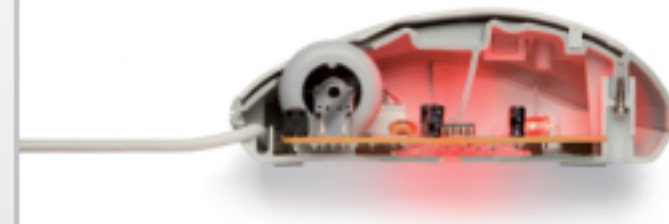
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Open data  
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and innovation



A Deloitte Analytics paper

Today...

# White Paper

## Unleashing the Potential

**#opendata**

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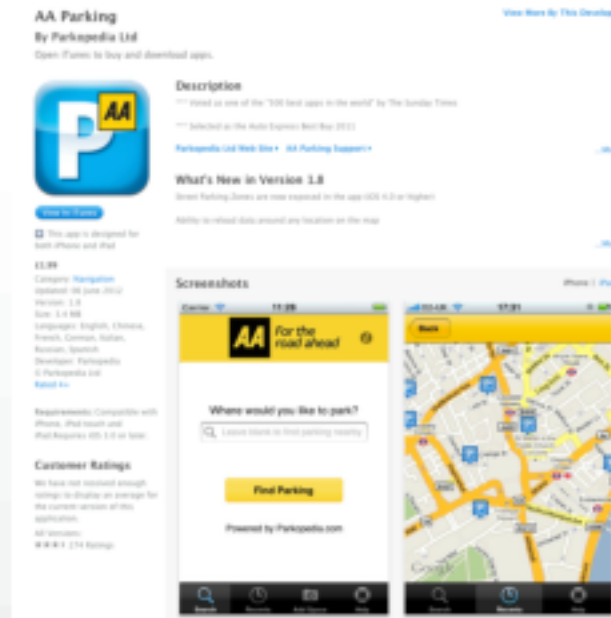
Open Data market needs: Open  
Data businesses...

# Economic Value, Innovation and Growth

- Health



- Transport



- Business Intelligence

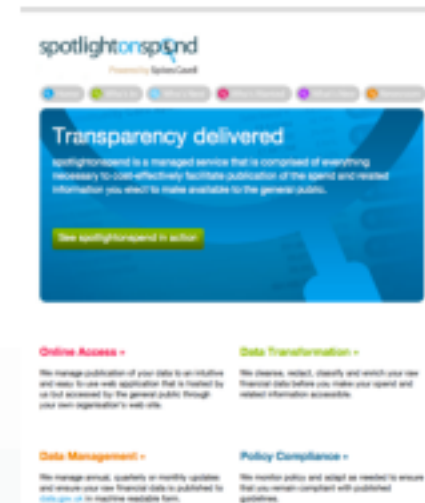


# Economic Value, Innovation and Growth

- Spending

- Data Publisher

- Open Data Infrastructure



# Innovation using open data

## Opening up business data

### Company

### Description

Enel



- Enel, Italy's largest power company, launched its open data site in August 2011 to increase transparency and involvement by all stakeholders, and to encourage innovation and stimulate the development of new applications

Nike



- Nike publishes an annual Sustainable Business Performance Summary, which describes key data and metrics relating to the company's sustainability efforts. Nike also provides tools where users can check the environmental impact of various material selections and explore the company's global contracted manufacturing base

Asos



- In December 2011, the online fashion giant Asos opened up its product and basket services data to external web developers in a bid to extend its wider online presence by allowing others to build Asos-related services

MusicMetric



- MusicMetric provides insights into online consumer behaviour for the entertainment industry. MusicMetric currently tracks and indexes data for 600,000 artists and over 10 million individual releases

Open Data market needs: a  
balanced ecosystem...

## The open data 'ecosystem'



### Open government data

Data produced, collected or paid for by the public sector, subject to restrictions relating to *sub judice*, national security, commercial sensitivity and privacy.

Special commercial arrangements also being made for certain trading funds, including Companies House, the Ordnance Survey, the Meteorological Office and HM Land Registry, which together form the newly created Public Data Group.

### Open business data

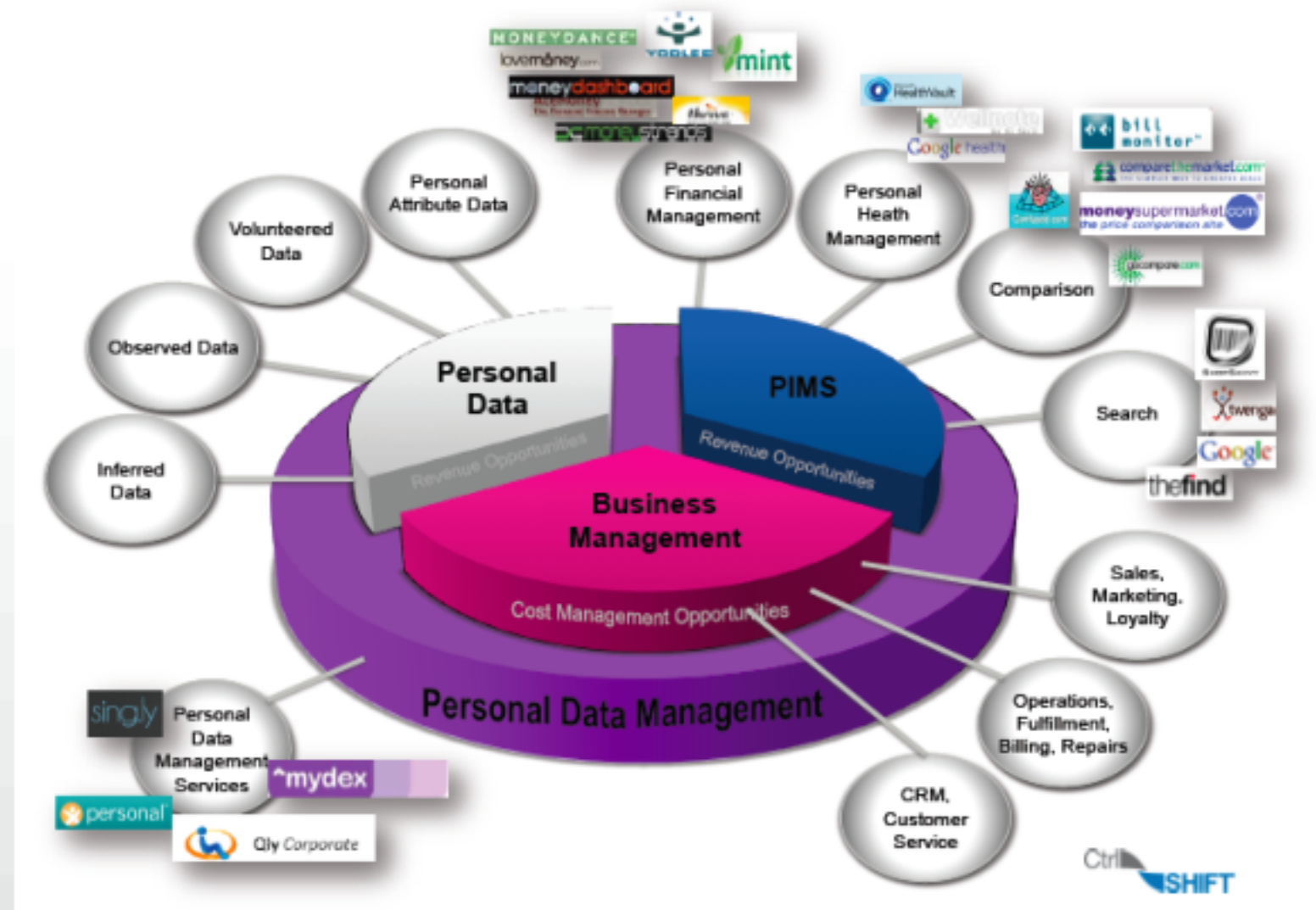
Data produced or collected by the private sector and published freely and openly, subject to restrictions that individual businesses decide to put in place.

### Open citizen data

The personal and non-personal data of individual citizens published into the open domain.

Source Deloitte LLP

# Personal Data Asset Revolution...



Open Data market complements:  
other data types...

# mi**i**data

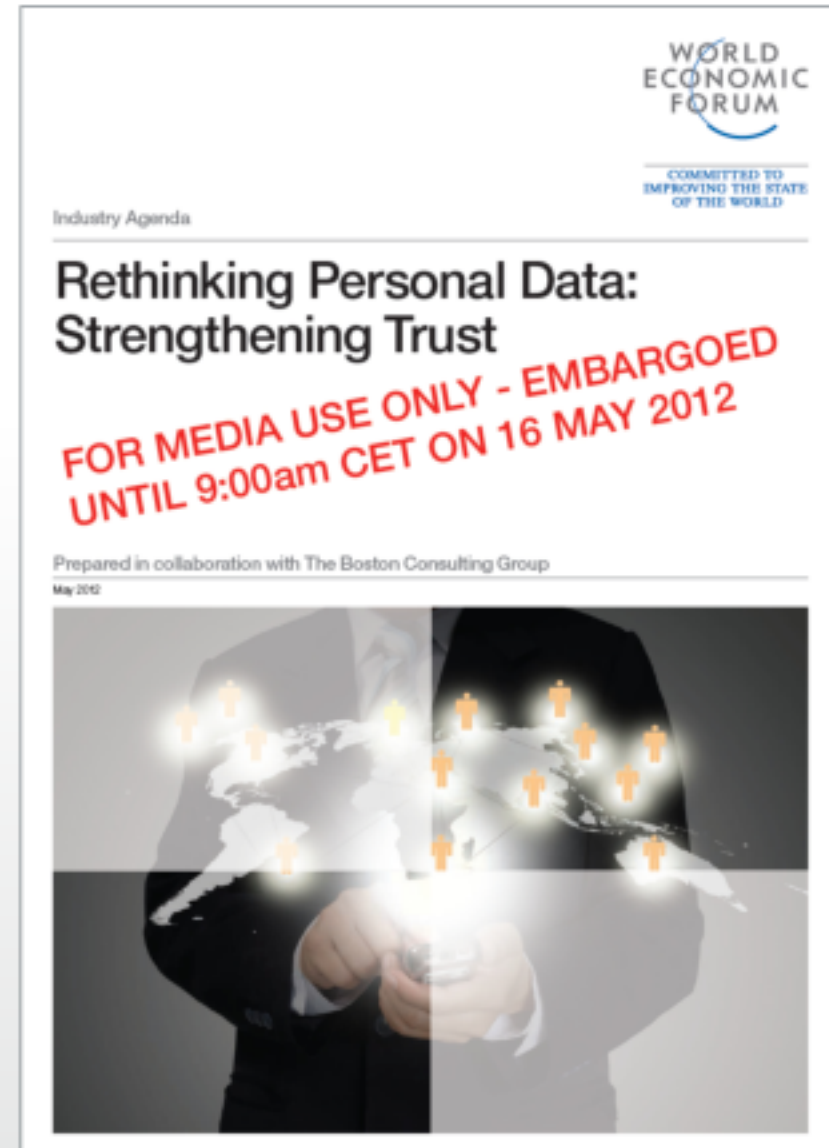


**Cabinet**Office



Nigel Shadbolt

# Recently...



Open Data market needs:  
nurturing...



# Open Data Institute

Finding the Value in Open Data

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- [Feed aggregator](#)

## Jobs at the ODI

Submitted by admin on Tue, 12/06/2012 - 08:30

The ODI is now recruiting. We are building our core leadership team. By reading the rest of this article you will find links to the job descriptions, informations packs and the application process. If you are interested in these exciting opportunities and would relish the opportunity to work with us please take a look.

- [Chief Executive](#)
- [Technical Director](#)
- [Commercial Director](#)
- [Director of Open Data Capability and Training](#)

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# #UKODI

## ODI in the news

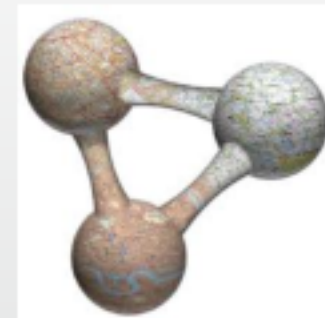
- [UK: Open Data Institute - Implementation Plan 2012 and beyond - Docuticker](#)
- [ICO begins consultation on release of anonymous data - Computing](#)
- [Tim Berners-Lee va codiriger l'Open Data Institute britannique - Silicon](#)
- [Southampton professors to co-direct the world's first Open Data Institute - EurekAlert \(press release\)](#)
- [Tim Kelsey quits open data role for NHS informatics post - The Guardian](#)

[More](#)

“Government will provide up to £10 million over five years, with match funding from industry and academia, to establish the world’s first Open Data Institute to help business exploit the opportunities created by release of public data”

### Further detail on Open Data Measures in the Autumn Statement 2011

- Business Innovation
- Training the Open Data Generation
- Public Sector Innovation
- Researching Open Data
- Open Data Standards and Policies
- Advisor to Government
- International Collaboration



# The Offer

- Access to the world's first one-stop shop for technical and business advice around Open Data...
- Projects, "Red Teams" around Open Data benefits + training...
- Access to the most innovative start ups around Open Data
- Gathering, integrating, generating and publishing evidence to inform Government Open Data policy
- Help identify and assess new public sector data assets to make public
- ..... and a drop in centre located at the heart of technology innovation in the UK where people can meet to network and explore new ideas

# Forward Plan

February –  
April 2012

- Develop business plan
- Develop financial modelling
- TSB Review
- Set up CLG
- Develop prospectus

May – August  
2012

- 'Soft' launch
- Secure premises
- Begin staff recruitment
- Begin OD business model dev
- Begin seeking match funding

September  
2012 onwards

- Formal launch
- Develop Course Content
- First cohort for training
- Begin programme of policy work
- Begin Red Team projects
- Begin incubation work
- Begin corporate engagement

# £, \$, €... of Open Data

- \$21,000 gets you \$20,000,000
- Uncovers \$CD 3.2BN of Fraud
- €2M gets you €62M 05-09
- €.2M gets you €14M 2010
- Saves lives at £34M
- \$50,000 of awards gets you \$2.6M of dev value
- US private sector WX data >\$1.5BN – using free federal
- PSI market in Europ €32BN
- And in CH?

Thank you

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