Open Government Data in the UK

Andrew Stott

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BCS APSG 12 Jan 2012 @dirdigeng andrew.stott@dirdigeng.com



Presentation Contents

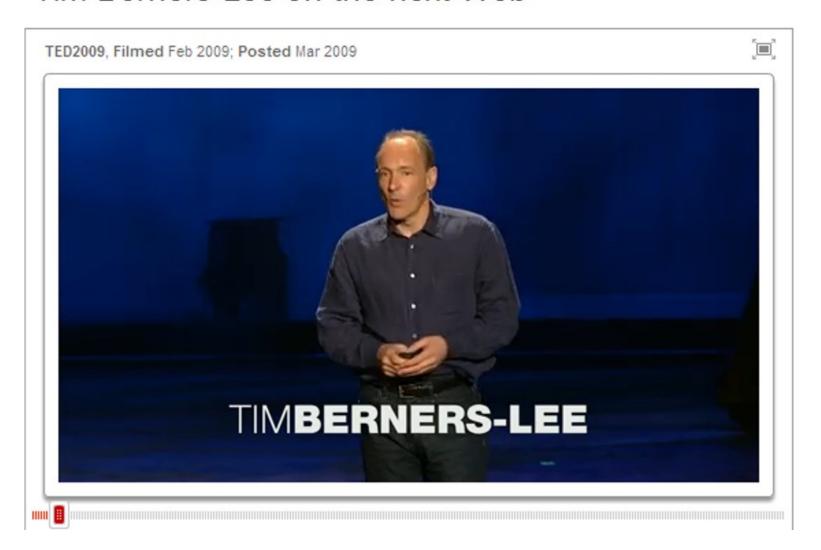
- A World of Open Data
- Why is the UK Government doing this
 - Emerging Business Models
- How data.gov.uk was developed
- Lessons Learned
- Wider Implications
- Discussion

A World of Open Data

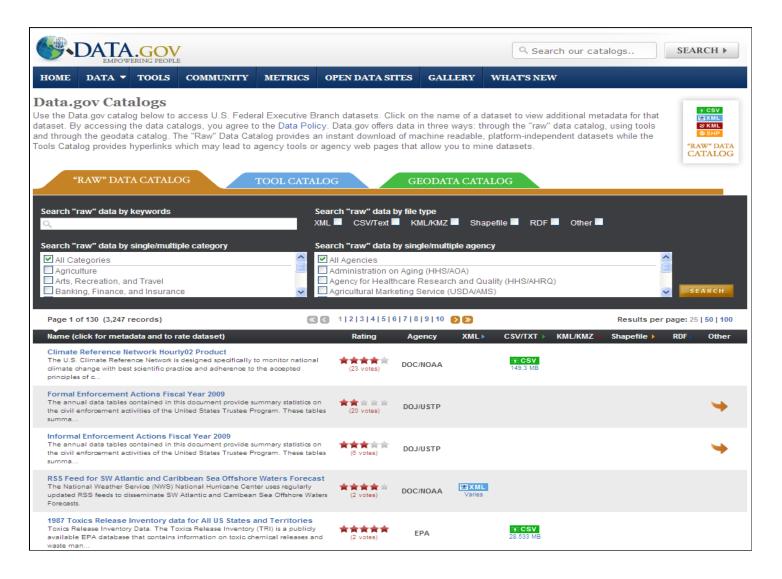


Talks	TED Conferences	TED Conversations NEW	About TED	
Speakers	TEDx Events	TED Community	TED Blog	
Themes	TED Prize		TED Initiatives	
Translations	TED Fellows	Q Search		

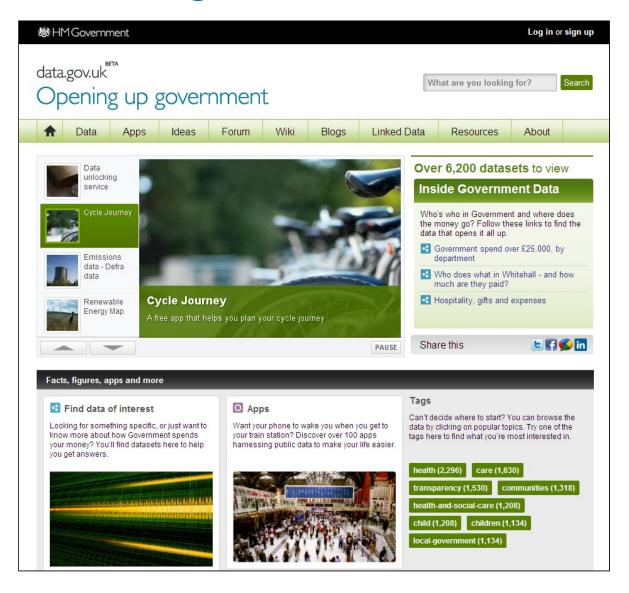
Tim Berners-Lee on the next Web



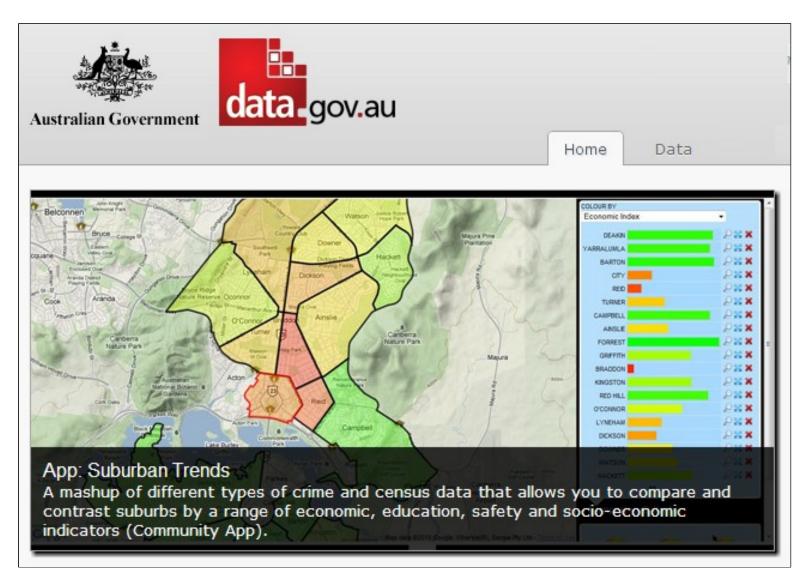
Federal Government, USA



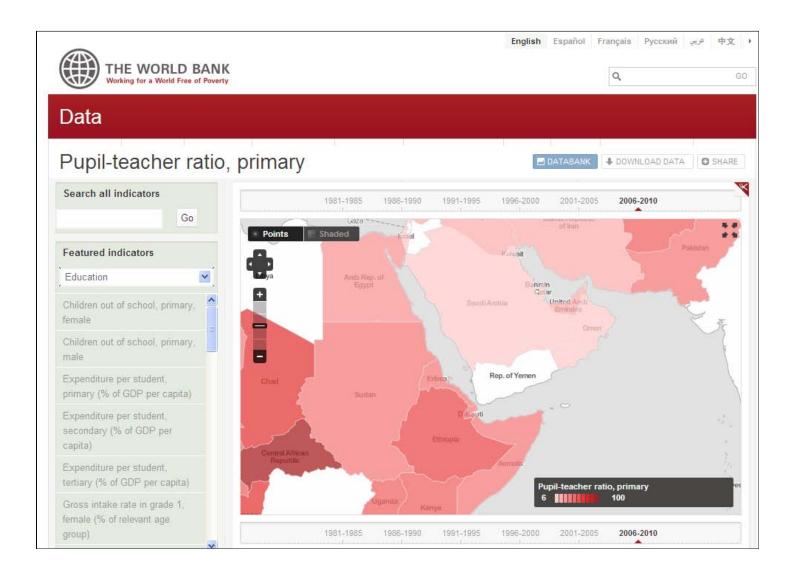
United Kingdom Government



Australia



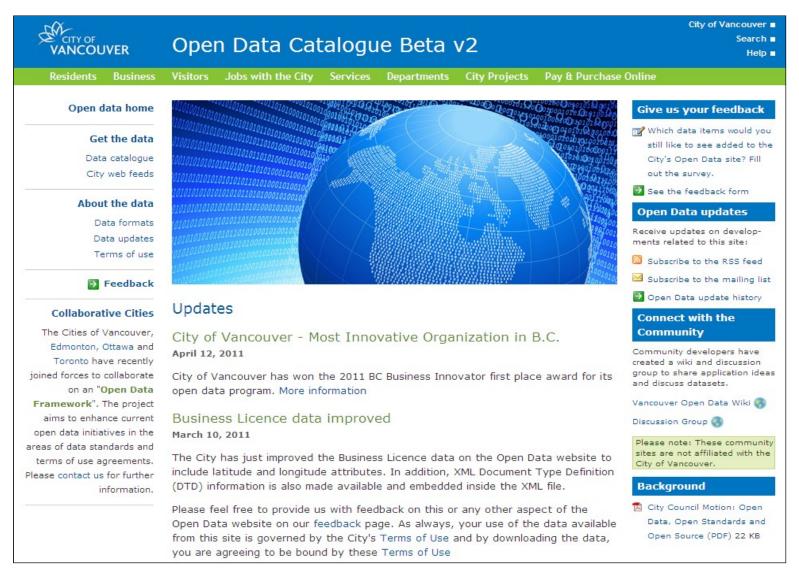
World Bank



London, United Kingdom



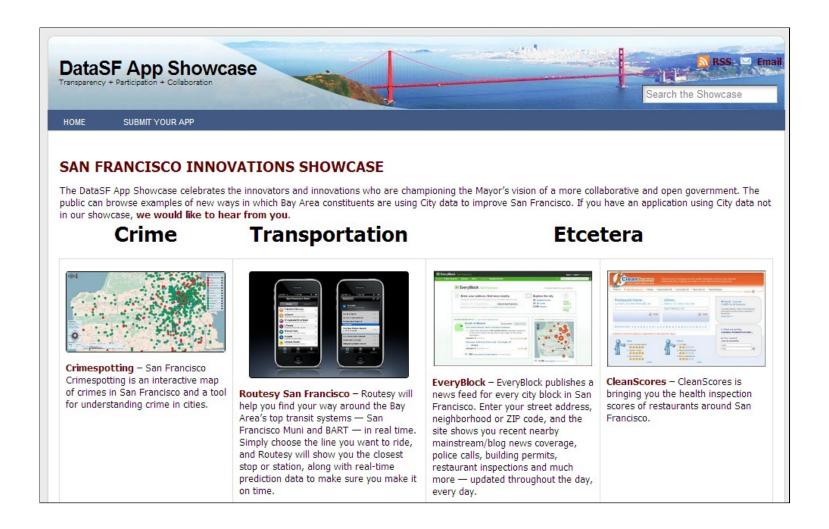
City of Vancouver, Canada



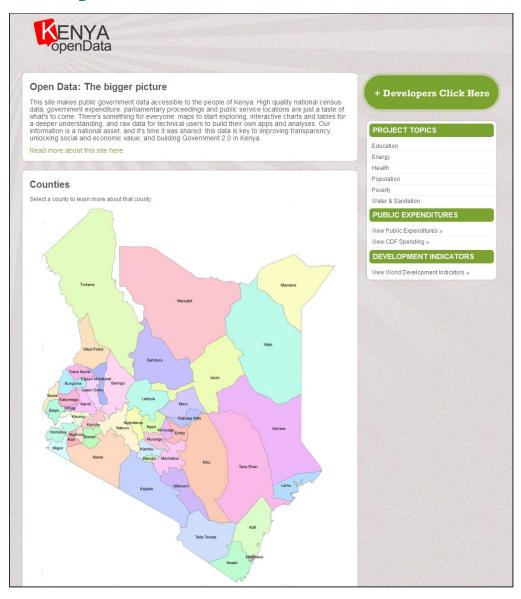
City of Rennes, France



City of San Francisco, USA



Kenya – first in Africa



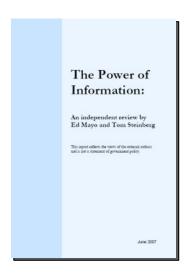
A World of Open Data

Now over 200 governmental Open Data sites

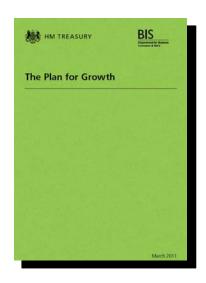


Why is the UK Government doing this?

UK Policy Drivers







June 07

Feb 09

Mar 11

New economic and social value

Evidence for EU PSI review

- EU27 direct gains from completely open access to PSI could be ~ €40 Bn
- Aggregate economic impacts could be even larger: ~€140 Bn
- Direct market associated with PSI use less important than spillovers and new uses.
- Future innovations due to easier access add further economic and social benefits
- Costs and revenue foregone? ~ € 1 bn

Source: Graham Vickery, Information Economics at EU Digital Agenda Assembly

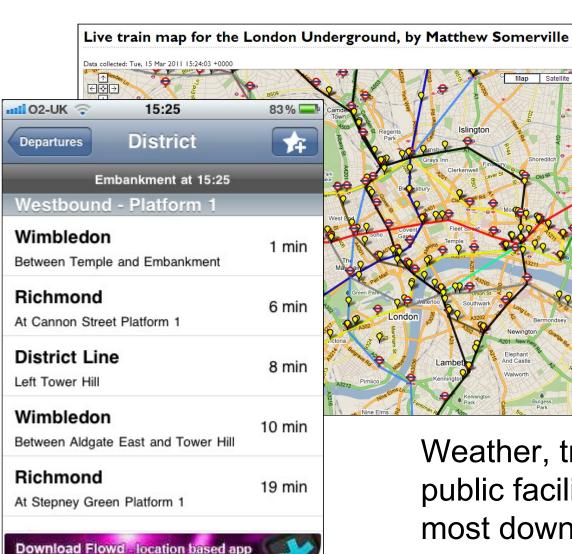
Emerging Business Models

Cleansing and organising data



Business Intelligence from item-level purchasing data

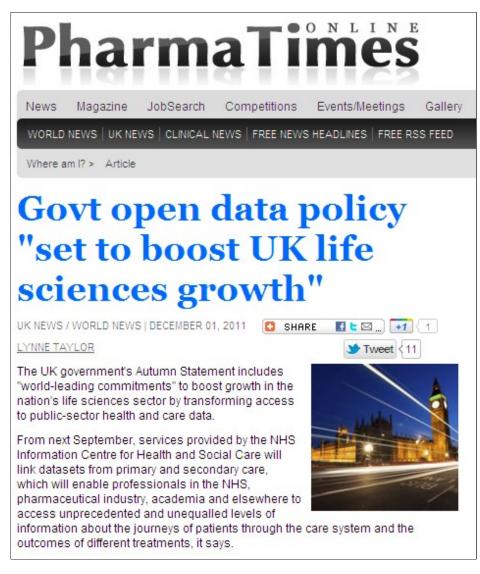
Information services to the public



for trance music lovers!

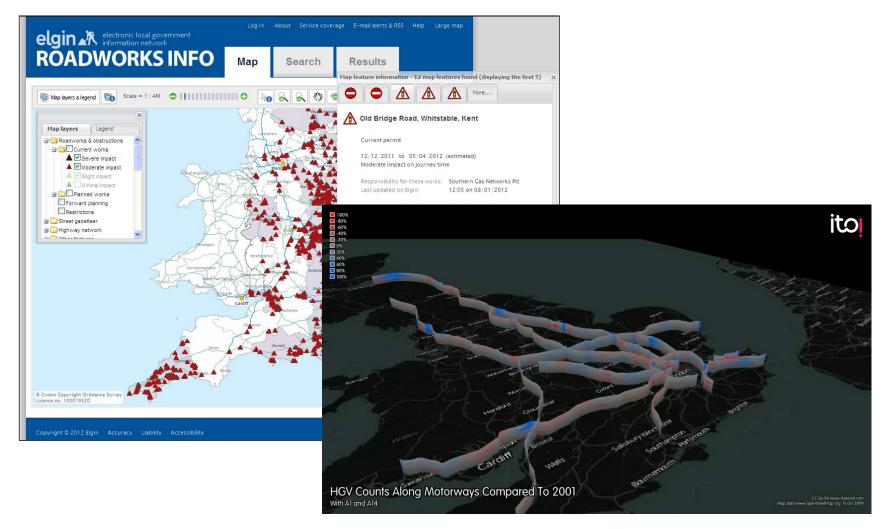
Weather, transport and public facilities among most downloaded Smartphone Apps

Data Mining



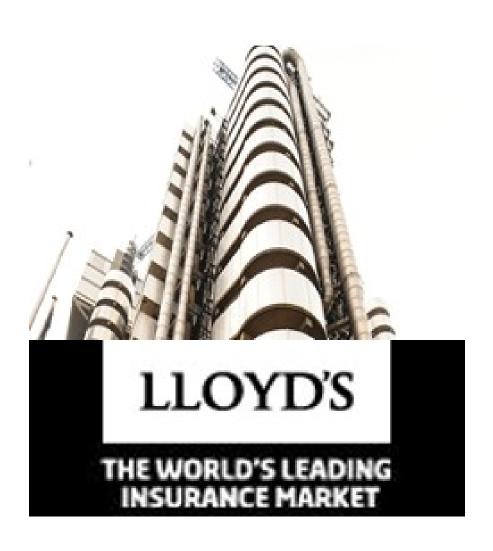
- Prescription data
- Patient outcome data
- Longitudinal health records
- Pupil-level education records

Operational efficiency/optimisation



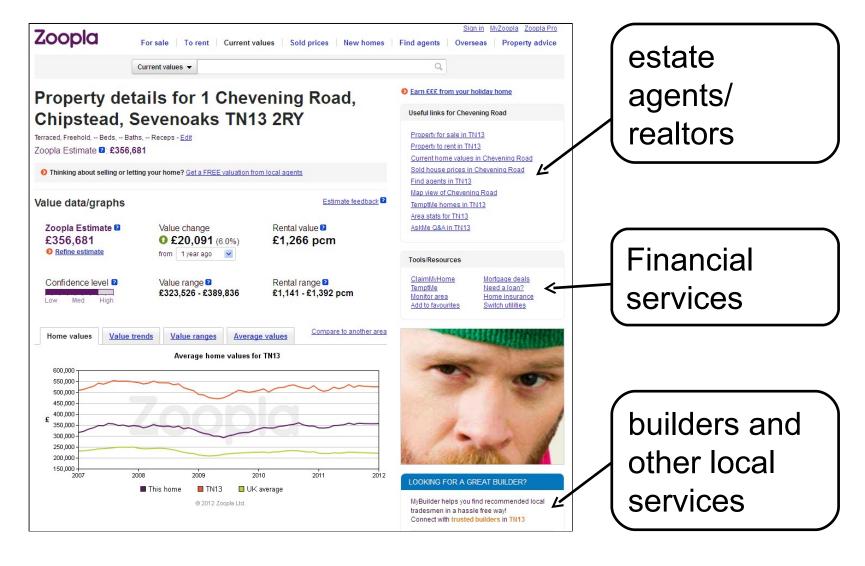
Real time info on road delays and roadworks allows logistics efficiency

Financial Products



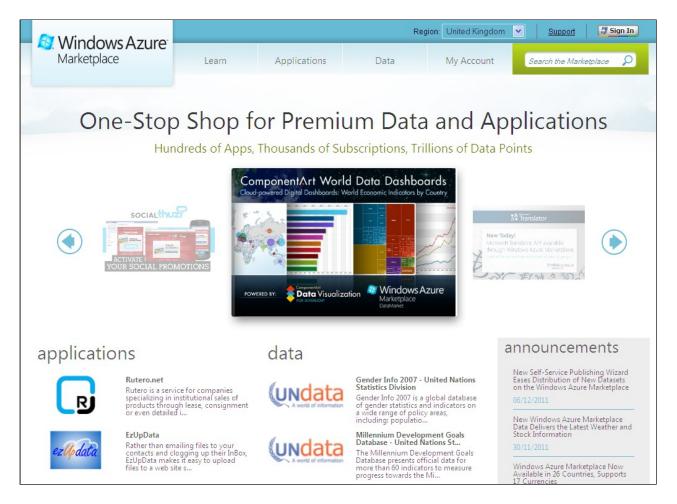
- Weather RiskManagement(US: \$4bn annual contracts value)
- Flood insurance on detailed topography and river records

Customer attraction and retention



Local house prices attract potential customers

Data Broking



Customer-focused reliable high-volume serving of data and APIs

More Innovation



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home

pro web-map builder developer area

Welcome to the OS OpenSpace API

The OS OpenSpace API is free to access and lets developers create amazing web applications and online projects with Ordnance Survey maps.

But OS OpenSpace API is not just for developers.

Although the API uses JavaScript to make web pages more interactive, anyone can create an application by following our sample code and tutorials.

Get Ordnance Survey maps on your website to enhance the service and customer experience.





Example of OS OpenSpace API displaying Ordnance Survey data

News and information

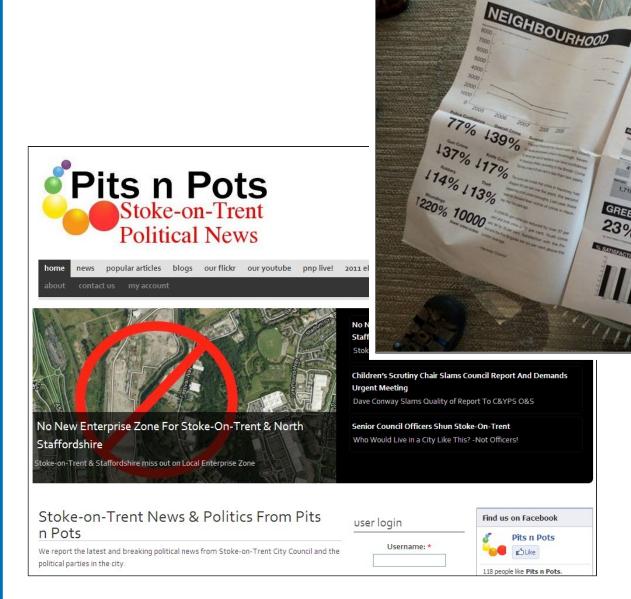
Web-Map Builder – the login got lazy NEW

Enter the GeoVation Challenge.

Visit the OS OpenData website.

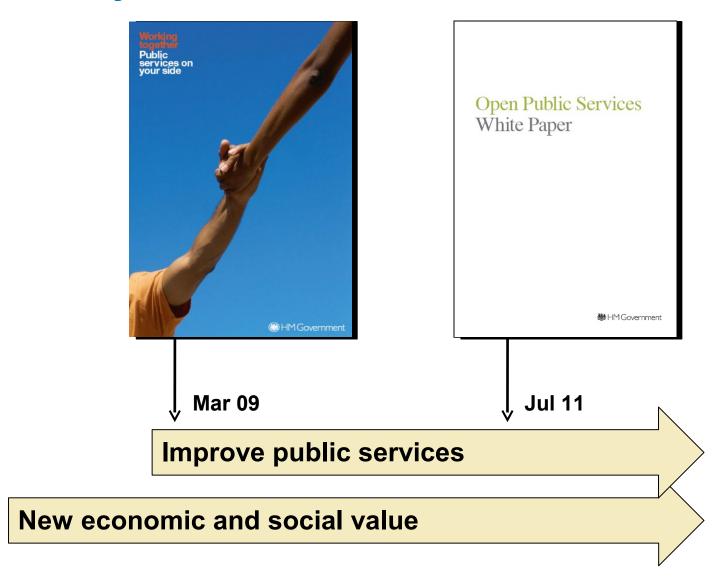
OS OPENSPACE is a registered trade mark of Ordnance Survey.

Social value and cohesion

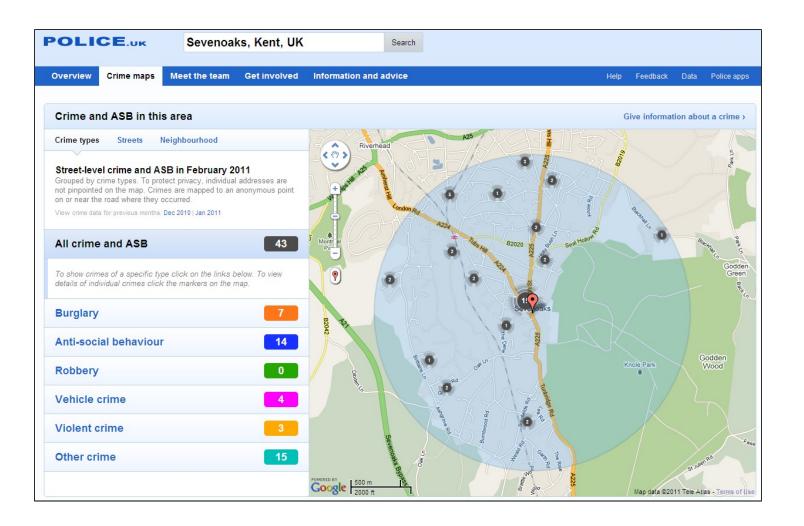


ALLOTMENTS

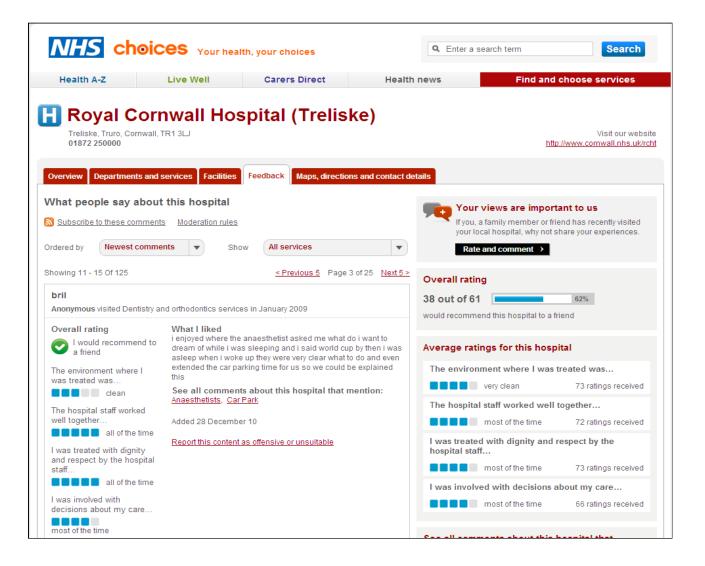
UK Policy drivers



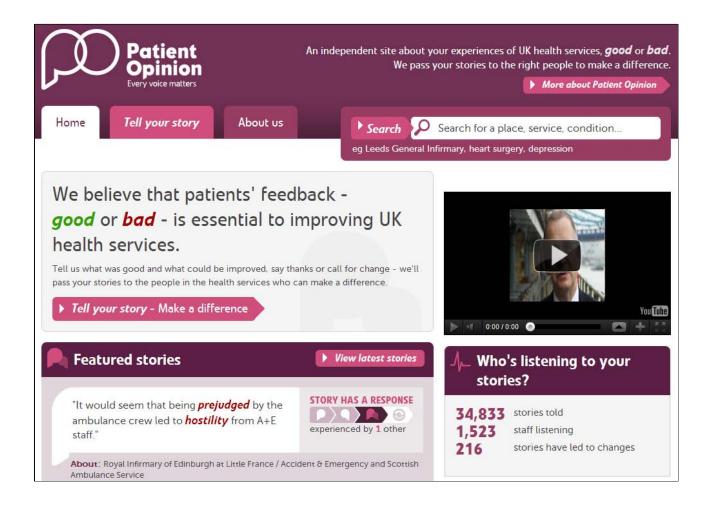
Improving Public Services

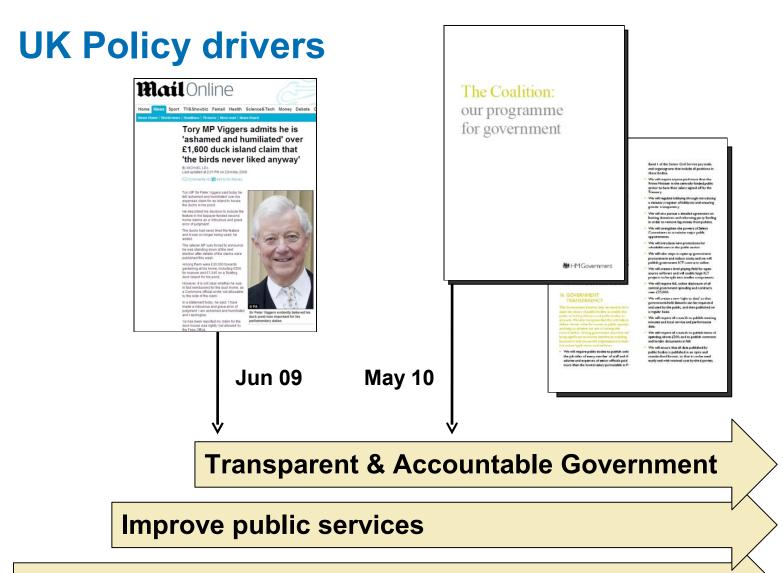


Improving Public Services



Improving Public Services





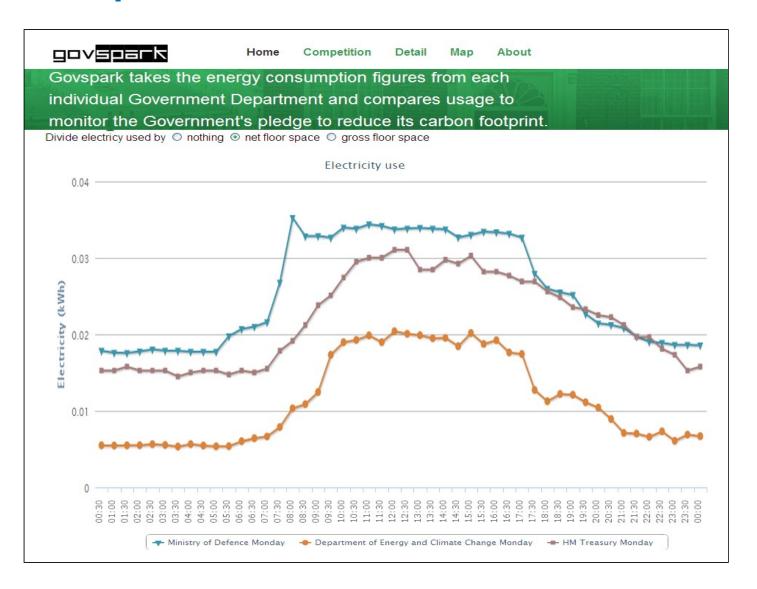
New economic and social value

Transparent and Accountable Government





Transparent and Accountable Government



Transparent and Accountable Government



The emergence of data journalism

guardian.co.uk News | Sport | Comment | Culture | Business | Money | Life & style | Travel | Environment News | Datablog

DATABLOG

Facts are sacred

COINS data release: The 10 things we found out

Last week the government released the massive Coins database. Find out what we know now

· Coins explorer

News Politics Coins data explorer

Coins Data Explorer

This is our first attempt at producing a way to navigate around the 3.2m data items released by the UK government as part of Ceins. Scroil down the page to choose which chunk of data you'd like to explore - and liet us know what you find.

Find out what the acronyms mean with our glossary.

Send story ideas to coinsdata@guardian.co.uk

Help fit in the joint Guardian and Where Does My Money Go? google spreadsheet



Posted by Simon Rogers Monday 14 June 2010 09.00 BST guardian.co.uk

How data.gov.uk was developed

data.gov.uk organising principles

- Small central team (4 people)
- Short stages, each with clear goals
- Respond quickly to feedback from users
- Draw in resources from Government's experts
- Each dataset always controlled by its owner
- data.gov.uk holds metadata not data!
- It is not an IT project! Keep the IT simple

computing.co.uk

Sir Tim Berners-Lee to help open up government information

by Tom Young



Berners-Lee will help <u>government</u> put information online

10 Jun 2009

Sir Tim Berners-Lee, the inventor of the worldwide web, is to help the government publish and catalogue more information online over the next few months.

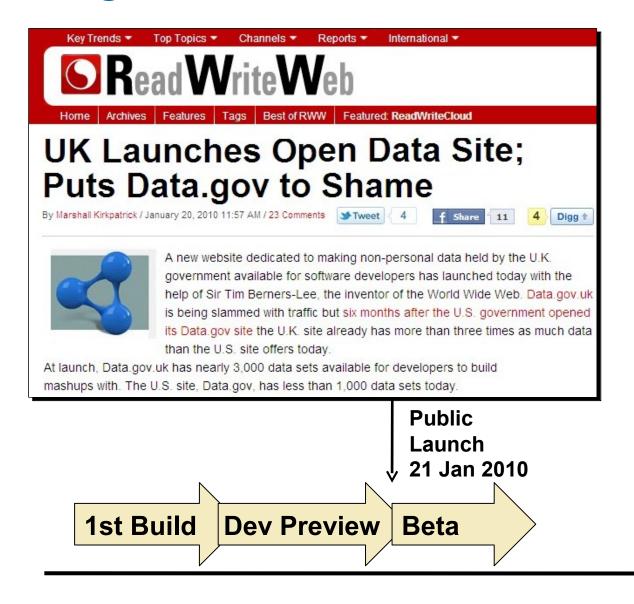
Prime minister Gordon Brown made the announcement today as part of a package of reforms aimed at improving the transparency of

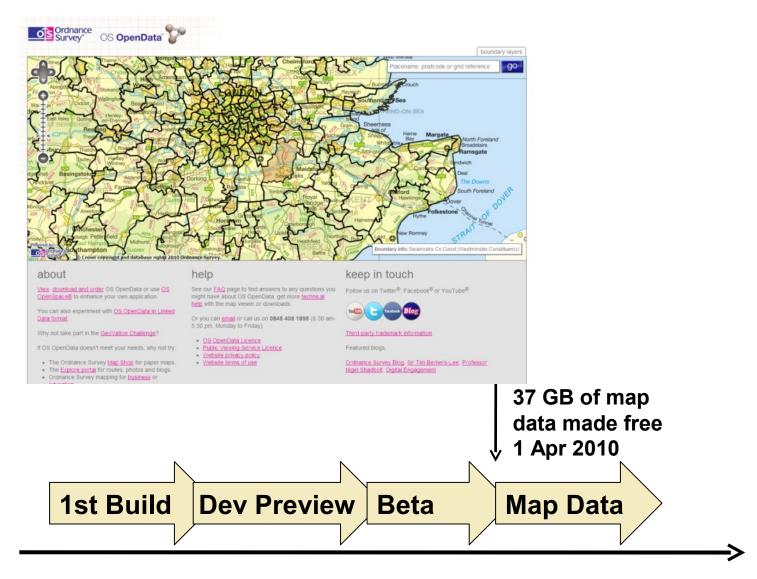
government in response to the expenses scandal.

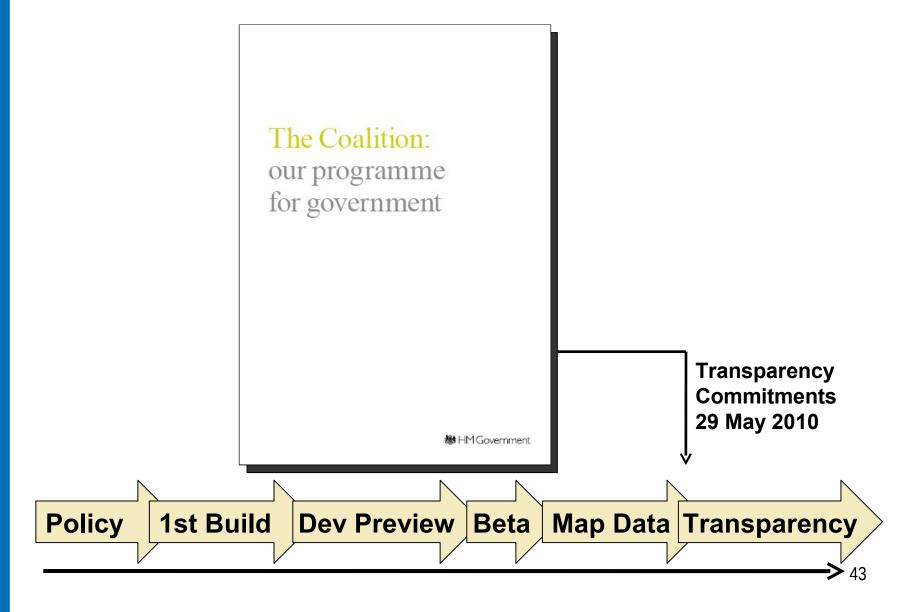
Project Announced 10 June 2009

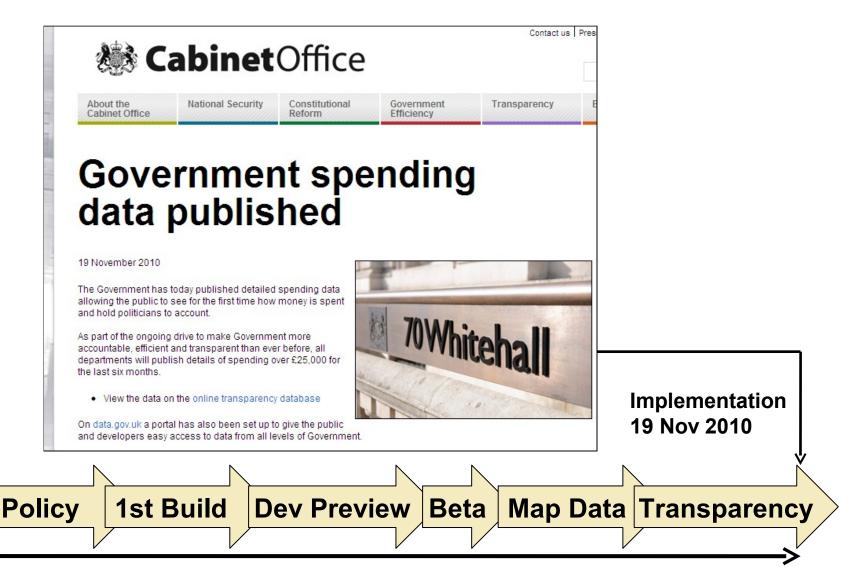
1st Build



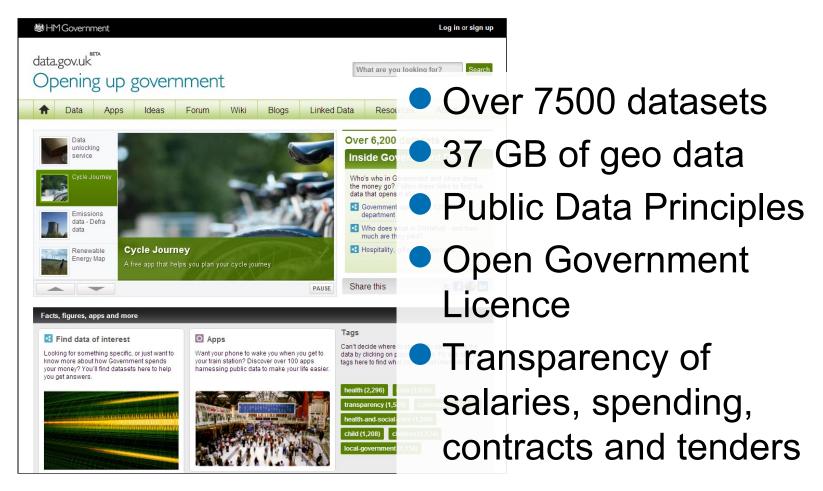








The first two years of data.gov.uk



Lessons learned

Important to have top-level political support



"Greater transparency across Government will enable the public to hold politicians and public bodies to account"



"Public information does not belong to Government, it belongs to the public on whose behalf government is conducted."

Important to have strong "demand-side"





News | Sport | Comment | Culture | Business | Money | Life & style

News > Technology

Give us back our crown jewels

Our taxes fund the collection of public data - yet we pay again to access it. Make the data freely available to stimulate innovation, argue Charles Arthur and Michael Cross





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Our Vision

We seek a world in which open knowledge is ubiquitous and routine. We promote open knowledge because of its potential to deliver far-reaching societal benefits.

Also important to have passionate team!



Refine policy principles based on experience



Clear, common, licensing approach





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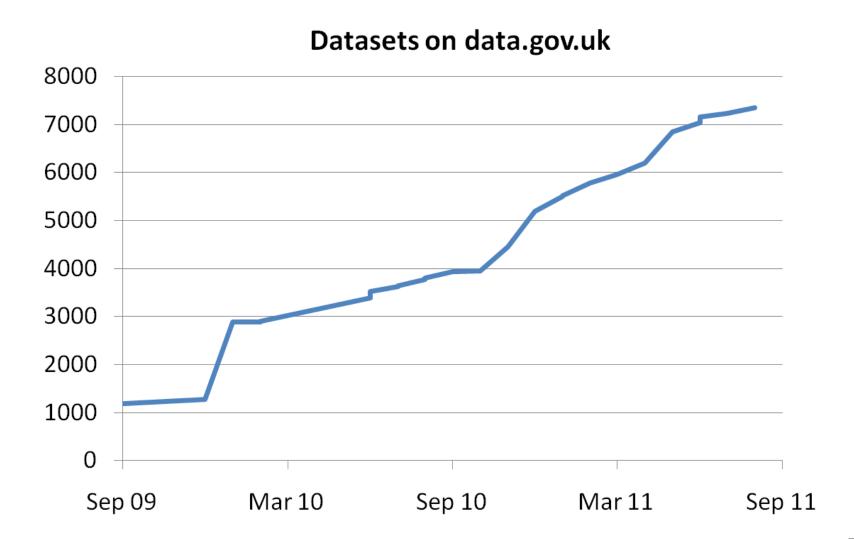
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Incremental delivery



It's not just about new data

Scope for "Open Data" also includes data previously "published" but ...

- in non-reusable format
- with restricted licence
- only aimed at specialist groups
- only for payment
- only in response to requests
- difficult to find

data.gov.uk contains a lot of data which nobody knew was already published

Handling the concerns of data owners



"People hug their database, they don't want to let it go. You have no idea the number of excuses people come up with to hang onto their data and not give it to you, even though you've paid for it as a taxpayer."

Tim Berners-Lee

A sample of "data hugging" excuses

- It's held separately by n different organisations, and we can't join it up
- It will make people angry and scared without helping them
- It is technically impossible
- We do not own the data
- The data is just too large to be published and used
- Our website cannot hold files this large
- We know the data is wrong
- We know the data is wrong, and people will tell us where it is wrong
- We know the data is wrong, and we will waste valuable resources inputting the corrections people send us
- People will draw superficial conclusions from the data without understanding the wider picture
- People will construct league tables from it
- It will generate more Freedom of Information requests
- It will cost too much to put it into a standard format
- Our IT suppliers will charge us a fortune to do an ad hoc extract

Dealing with "data hugging"

- It's held separately by *n* different organisations, and we can't join it up
- It will make people angry and scared without helping them
- Data owners need to be helped through
- We do not own the data
 The Releasing data is a new idea and used
- Look for ways to manage perceived risks
- Look for examples and precedents
- For first phase, be prepared to compromise on
- We know the data is wrong, and we will waste valuable data content but not on licence terms
- "Hackdays" can show potential benefits ithout
 - Ensure data owners get credit for what they do
- Peore easenstruct league tables from it
- It will generate more Freedom of Information requests
- It might be combined with other data to identify individuals/sensitive information
- It will cost too much to put it into a standard format
- Our IT suppliers will charge us a fortune to do an ad hoc extract

Manage expectations, prepare for mistakes

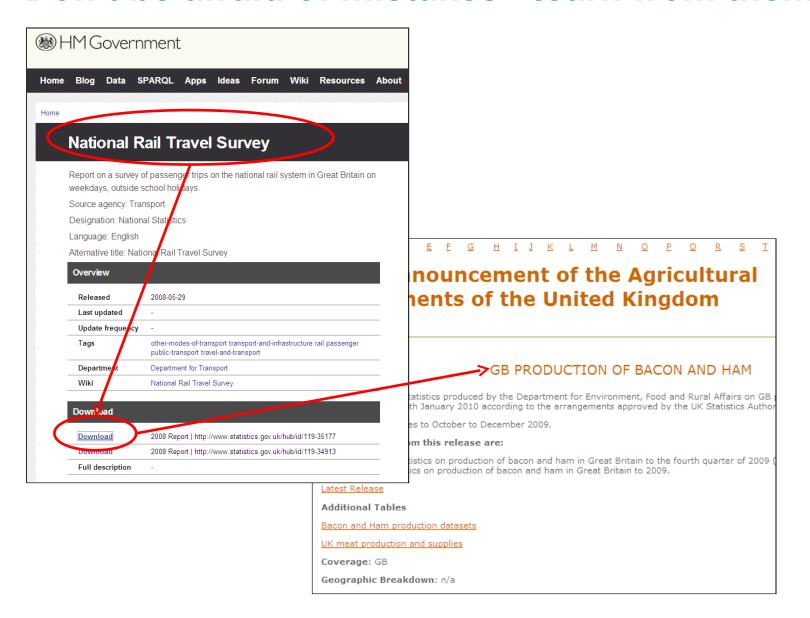


"We're making a small start next week. But eventually, it's going to make a big difference."

"The information we're publishing next week won't be perfect, it won't always be in the most convenient format, and I'm sure there'll be some mistakes. But I want to get on with it.".

UK Prime Minister 29 May 2010

Don't be afraid of mistakes - learn from them



Continuously engage with developers



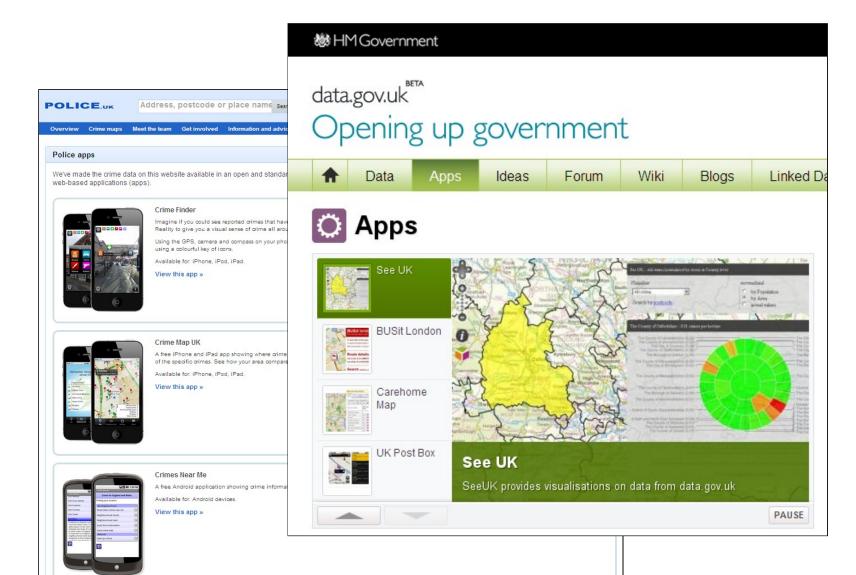


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Photos: <u>@memespring,</u> <u>@MadLabUK, @paul_clarke</u>

.. and highlight applications, not data



It's not (just) an IT project!

CIOs can give leadership, but

- CIOs/IT Directors often do not "own" the data
- Key issues are business, policy and politics: don't let policy makers brand it as "just IT"
- Keep the IT simple
 - use Open Source (CKAN, Drupal, etc)
 - use existing contracts/infrastructure with niche firms
 - host data on existing websites or on public Cloud
- Use revealed legacy data quality issues as spur for improvement
 - not as an excuse for doing nothing

... and the biggest lesson of all

Overcome obstacles practically by doing, not debating

Wider Implications

Next steps for UK

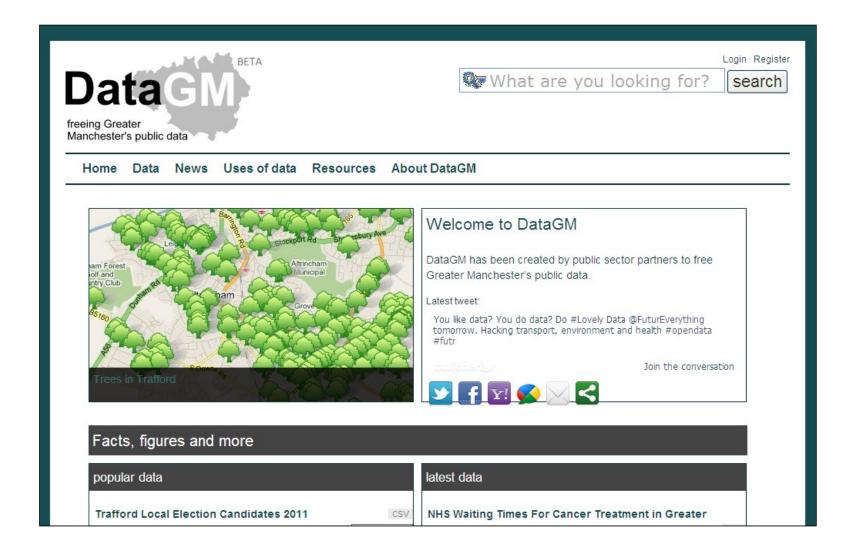
Policy/organisation

- Right to Data "FOI 2.0"?
- Codify policy Open Data White Paper
- Public Data Group for paid-for data

Delivery

- Improve data quality
- Industrialise release processes
- Data standards and support ("linked data")

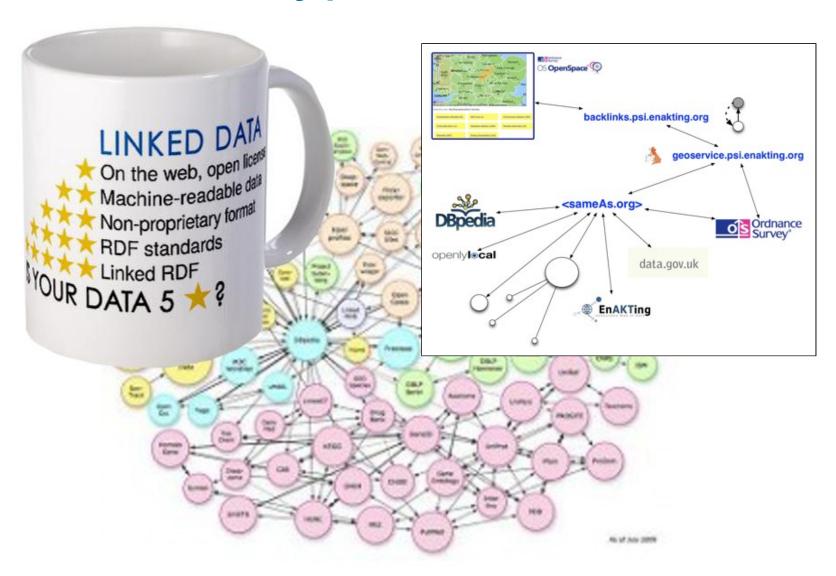
Government is a data user too



The importance of location



Government: key provider of reference data



Data Publishing – Star Quality

Put your data on the Web (any format) Make it available as structured data $\star\star$ of reuse (e.g. Excel, CSV, instead of PDF) Use open, standard formats (e.g. $\star\star\star$ XML, RDF) ase *** Use URLs to identify things (so people and machines can point at your data) **** Link your data to other people's data

Benefits of linked data within Government also

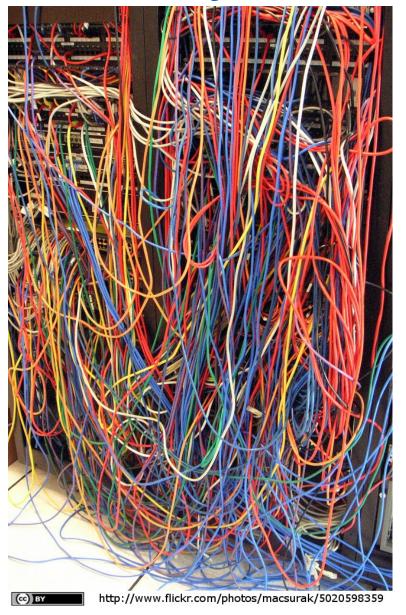
Open Data Institute: its mission

- Develop capability of UK businesses to exploit value of Open Data
- Engage developers/small businesses to build Open Data supply chains and commercial outlets
- Help public sector use its own data more effectively
- Ensure academic research in Open Data technologies



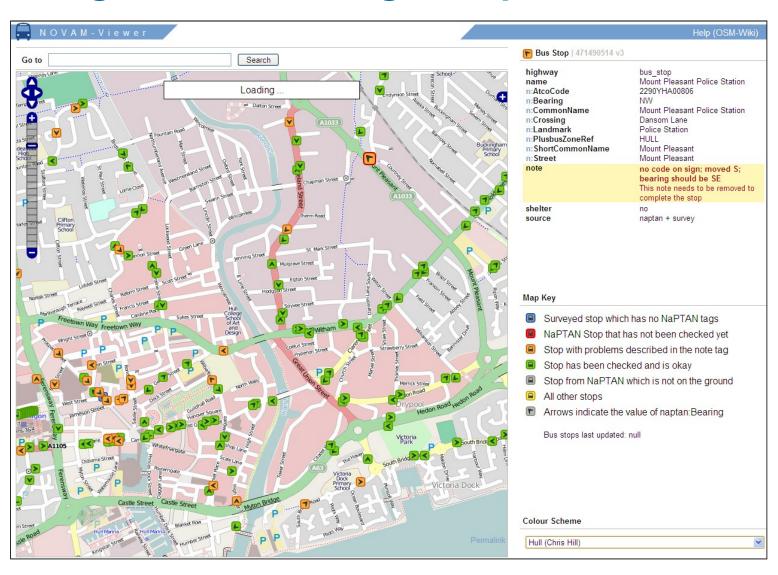


Data Quality

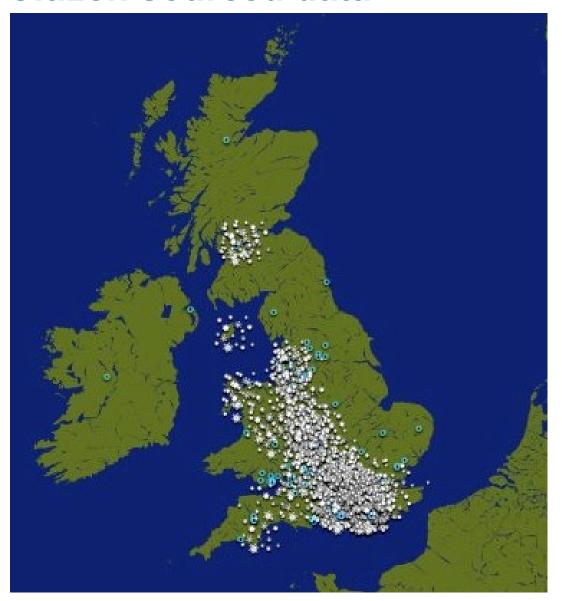


- Release of data will reveal issues of data quality
- Celebrate greater checking of data!
- Remind business of Garbage In, Garbage Out
- Ensure legal waiver
- Use as stimulus to
 - Measure
 - Prioritise
 - Improve

Using crowd-sourcing to improve data

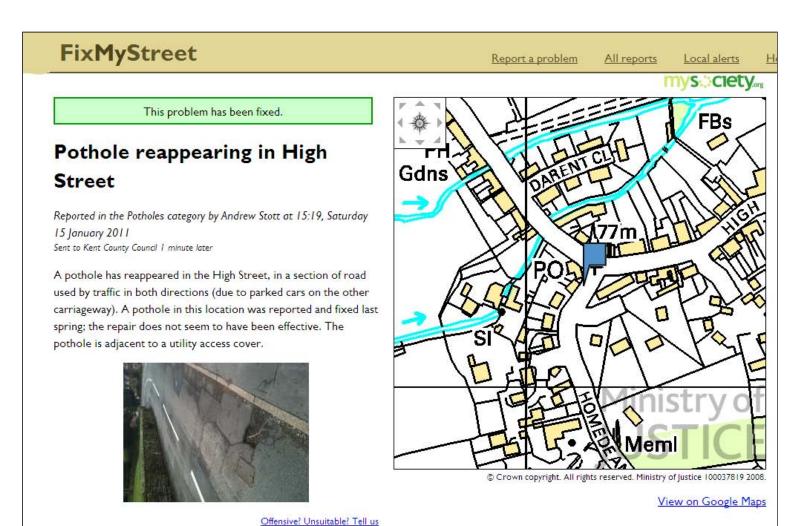


Citizen sourced data



"#uksnow TN13 2RY 4/10"

Other routes to public services



"Open" approach to personal data?

Thursday, 25 August 2011

Sign In Register News and Job Alerts

MarketingWeek

OPINION: WALLY OLINS

A brand's real value is nothing, except in the eye of the beholder





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Home Industry

Could mydata be the answer to personal information problems?

21 April 2011 | By Ruth Mortimer



A government initiative to make available to the public all the customer data held by companies sounds good in theory.

This week, the NHS contacted me by email to offer me help quitting smoking, even though I've never started. And not so long ago, a clothing catalogue dropped through my door offering me more great skirts for my wardrobe, although I have never bought anything from that particular yummy-mummy clothing brand.

So who is the linen-wearing, smoking consumer being targeted by these companies? It certainly isn't me. While both companies claim to hold data on my behaviour, they don't know the right things. And neither marketing communication benefited me, nor them, in any way.

Discussion

End