



HM Government

UNIVERSITY OF
Southampton
School of Electronics
and Computer Science

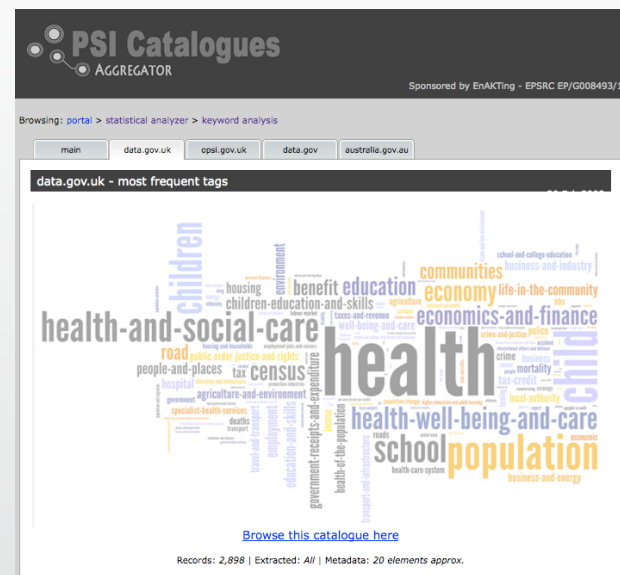
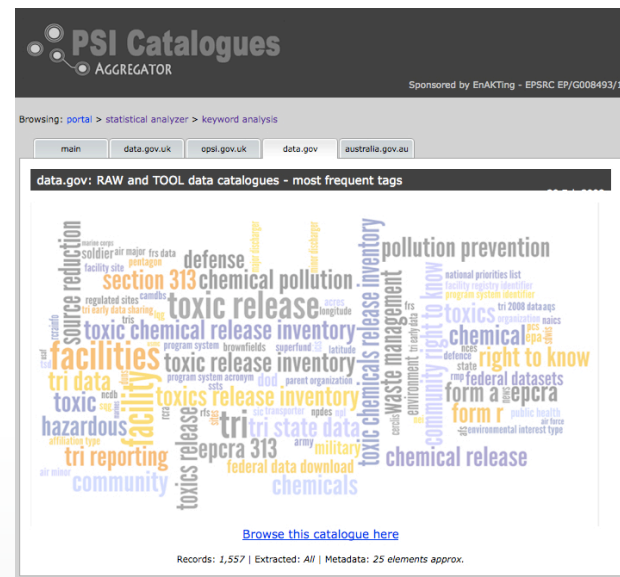
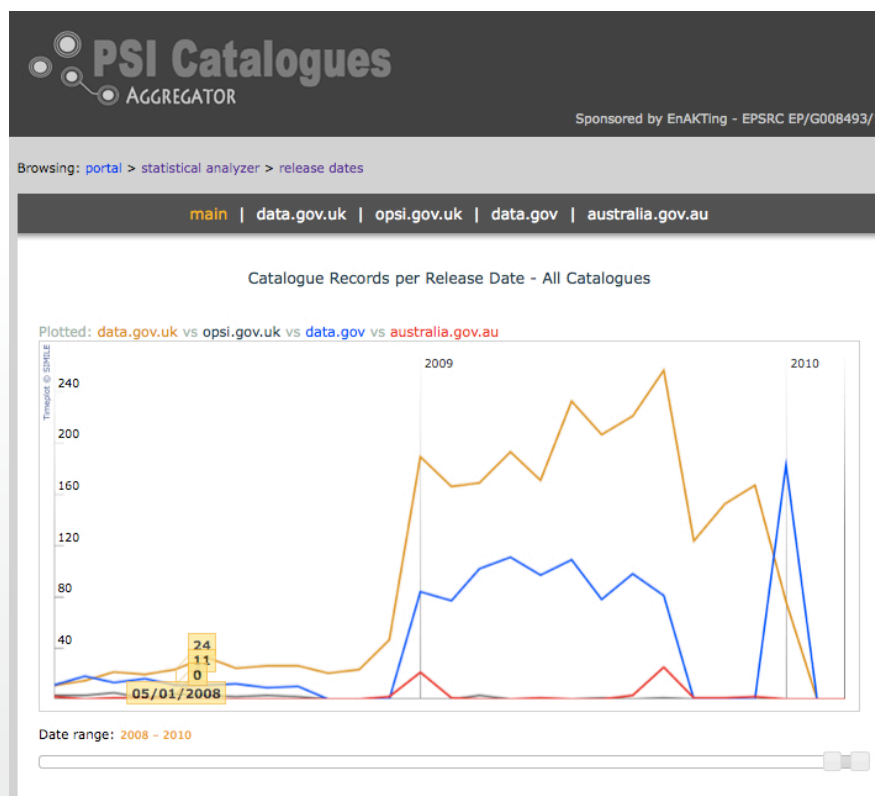
data.gov.uk - the linked data revolution

Nigel Shadbolt
UK Government Information Advisor


SAP

24 March 2010

data.gov...
is taking hold



data.gov.uk

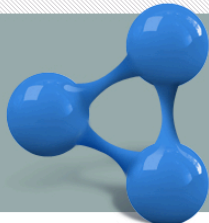
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data.gov.uk

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Unlocking innovation

Working with UK Public Sector information and data



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

**SaferMK**

This is a crime reduction application that has two key functions: 1. simple-
traverse 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 deep under a

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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

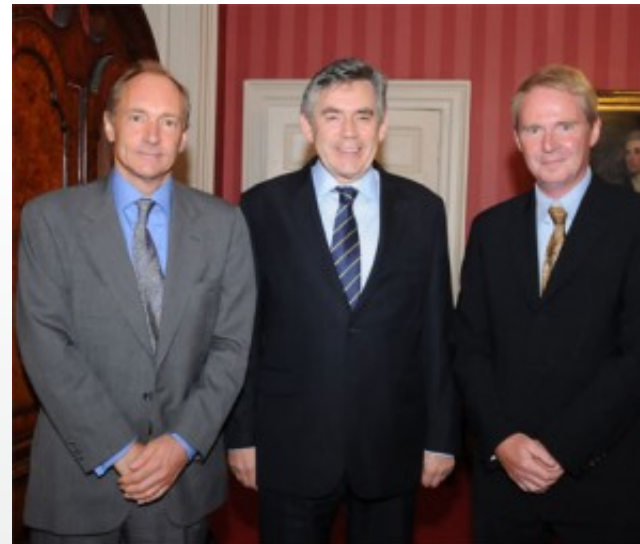
@stephencimms:
#digitalbritain Announced in House today establishment of Broadband Delivery UK, chief executive Adrian Kamellard

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Tell us your idea

MPDP: Making Public Data Public

- Berners-Lee and Shadbolt - June Appointed HMG Information Advisors
- Context - Pol Taskforce
- Previous work with OPSI
- Strategic Drivers
 - Transparency and accountability
 - Economic and Social Value
 - Public Service Improvement
 - New Industries New Jobs



Key Elements of our ToR

1. Establish single point of access for all public UK datasets - data.gov.uk
2. Specific proposals to implement and extend to wider public sector PSI principle
 - Select and implement common standards for release of public data
 - Select, develop and implement common terms for data where necessary
 - Develop licenses - CC variants
 - Support exploitation and publication of distributed and decentralised information assets
 - Potential for reform of information regulatory framework

Progress to date

- Top down
 - Ministerial
 - CIO/CTOs
 - Engaged key data holders
- Middle Out
 - Civil Servants
 - Inventory of Information Assets
- Bottom up
 - Engaging with developer community
 - Cross Gov URI workshops
 - data.gov.uk

The screenshot shows the Times Online website interface. At the top, the 'TIMESONLINE' logo is prominent. Below it, a navigation bar includes links for NEWS, COMMENT, BUSINESS, MONEY, SPORT, LIFE & STYLE, TRAVEL, DRIVING, ARTS & ENTS, ARCHIVE, OUR PAPERS, and SUBSCRIPTIONS. A secondary bar lists LEADING ARTICLES, COLUMNISTS, LETTERS, OBITUARIES, BLOGS, CARTOON, FAITH, and COMMENT CENTRAL. A search bar and a 'Times Online' dropdown menu are also visible.

The main article, dated November 18, 2009, is titled 'Put in your postcode, out comes the data' by Tim Berners-Lee and Nigel Shadbolt. The sub-headline reads: 'Imagine all that information gathered by government. Soon it will be available – helpfully linked up'. The article text discusses the power of information and the value of government data, mentioning John Snow's 1854 cholera outbreak and the Department for Transport's release of accident data.

On the right side of the article, there are several widgets: 'TIMES RECOMMENDS' with links to articles about Robin Cook, the truth about oaths, and violence; 'OUR COLUMNISTS' featuring David Aaronovitch and Alpha Mummy; a 'FOCUS ZONE' for 'Business Travel'; 'Births, deaths, marriages'; a 'Business Directory'; a 'Crossword Club'; and a 'Free CV Review'.

Accomplishments

- Embodied Public Data Principles in Government
- Beta service launched data.gov.uk - Jan 2010

Currently >3000 datasets including linked data

2500 developer community

Open source and open standards

Self describing Catalogue

- Key data sets under consultation for release
- Applications emerging
- New Crown Commons data licence
- Local Data Panel launched
- Cross party interest and endorsement

UK Public Data Principles

<http://www.hmg.gov.uk/media/52788/smarter-government-final.pdf>

Our public data principles state that:

1. Public data will be published in reusable, machine readable form
2. Public data will be available and easy to find through a single easy to use online access point data.gov.uk
3. Public data will be published using open standards and following the recommendations of the World Wide Web Consortium
4. Any 'raw' dataset will be represented in linked data form
5. More public data will be released under an open licence which enables free reuse, including commercial reuse
6. Data underlying the Government's own websites will be published in reusable form for others to use
7. Personal, classified, commercially sensitive and third-party data will continue to be protected.

 HM Government

**PUTTING THE
FRONTLINE FIRST:**
smarter government



Technical 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

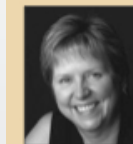
Nigel Shadbolt and Wendy Hall, *University of Southampton*
Tim Berners-Lee, *Massachusetts Institute of Technology*



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.

data.gov.uk

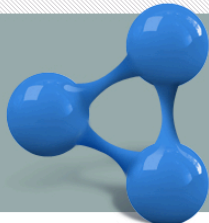
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[Common tags](#)


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Search Data Feeds

Your search returned 2879 records

2008 Injury Road Traffic Collisions in Northern Ireland

Name: 2008_injury_road_traffic_collisions_in_northern_ireland
Description: Calander Year statistics on Injury Road Traffic Collisions in Northern Ireland. Source agency: Police Service of Northern Ireland (PSNI) Designation...
Tags: injury-road-traffic-collisions health-well-being-and-care travel-and-transport transport-accidents-and-casualties safety roads road-safety casualties traffic road

Abandoned vehicles

Name: abandoned_vehicles_2003-04_to_2005-06
Description: Number of abandoned vehicles Source: Department for Environment Food and Rural Affairs (DEFRA): Municipal Waste Management Survey Publisher: DCLG Fl...
Tags: waste

Abortions

Name: abortions_2003-05_2007
Description: The abortion rate is the number of abortions (NHS and private) per 1,000 women aged 11-49. Source: Department of Health (DoH) Publisher: Information...
Tags: health

Abortions Statistics

Name: abortions_statistics
Description: The Abortion update contains information on notifications, to the Chief Medical Officer for Scotland, of terminations of pregnancy under the Abortion ...
Tags: well-being-and-care specialist-health-services maternity-and-pregnancy-services scotland health health-and-social-care

Abortion Statistics

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Home » Data

Browse Common tags

- [accident](#) (47)
- [accommodation](#) (25)
- [alcohol](#) (35)
- [anti-social-behaviour](#) (9)
- [asylum](#) (14)
- [benefit](#) (157)
- [births](#) (33)
- [burglary](#) (8)
- [business](#) (79)
- [cancer](#) (49)
- [carbon-dioxide](#) (1)
- [care](#) (450)
- [census](#) (198)
- [child](#) (410)
- [child-protection](#) (13)
- [children](#) (305)
- [communities](#) (161)
- [crime](#) (84)
- [criminal-damage](#) (2)
- [deaths](#) (73)
- [disability](#) (36)
- [disease](#) (16)
- [drug](#) (40)
- [earnings](#) (46)
- [economic](#) (71)
- [education](#) (185)
- [electricity](#) (17)
- [emissions](#) (25)
- [employment](#) (114)
- [energy](#) (47)
- [ethnicity](#) (43)
- [export](#) (38)
- [finance](#) (18)
- [fire](#) (32)
- [fisheries](#) (3)
- [fishing](#) (4)

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SPARQL search

Enter your [SPARQL](#) query against a datasource

Datasources:

Analytics

Please select a datasource

Data format:

XML

Please select a data format

Enter your SPARQL query:

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
SELECT DISTINCT ?type
WHERE {
  ?thing a ?type
}
LIMIT 10
```

Submit

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Show us what you can do

[Submit your app](#)

Applications – extracting information from data


Here you will find applications that others have already created and submitted. You can view, comment on and rate all published applications.

It would be great if you could submit your applications and mashups so they can be shared back with the community.

[Submit your app](#)


RECENT APPS

[View all apps +](#)

**Clear Books - Companies House Data**


An accounting software app that allows you to efficiently search and store data from over 2 million companies through the Companies House WebCheck service.

By Nick Braithwaite
21/01/2010 - 11:33

**Scottish Index of Multiple Deprivation**


Rich interactive map describing areas of concentrated deprivation across Scotland from 2009. Makes comparative use of previous data sets from 2006 and 2004.




By Dan Moss
21/01/2010 - 11:20

**mycounciltax.org.uk**

mycounciltax.org.uk is an unofficial mash-up, which was built using publicly available government information. mycounciltax.org.uk makes it easier to find out how much...

By Don Riden
21/01/2010 - 10:56

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Wouldn't it be good if...? [Submit your idea](#)


Ideas – the seeds of innovation


Got a great idea you'd like to see realised?


Wouldn't it be good if, for example, you could see a map that showed all the local schools, alongside their performance ratings for instant comparison? You might not be able to create such a map but you know it would be useful. Submit your ideas here and the chances are high that someone with the know-how, who shares your interest, will pick up your suggestion.


[Submit your idea](#)




Most Recent Ideas [View all Ideas +](#)

 **County Court Judgement Data**
County Court Judgement data is a matter of public record, anyone willing to pay per search is welcome to the data.
By Phil
21/01/2010 - 11:32

 **Fuel prices vs public transport provision by area**
It would be useful to see how the cost of fuel affects people in rural or remote areas where public transport may not be as prevalent or useful as in urban areas. Showing...
By Lauro
21/01/2010 - 11:24

Do you have a great idea?


Subscribe by **RSS** 

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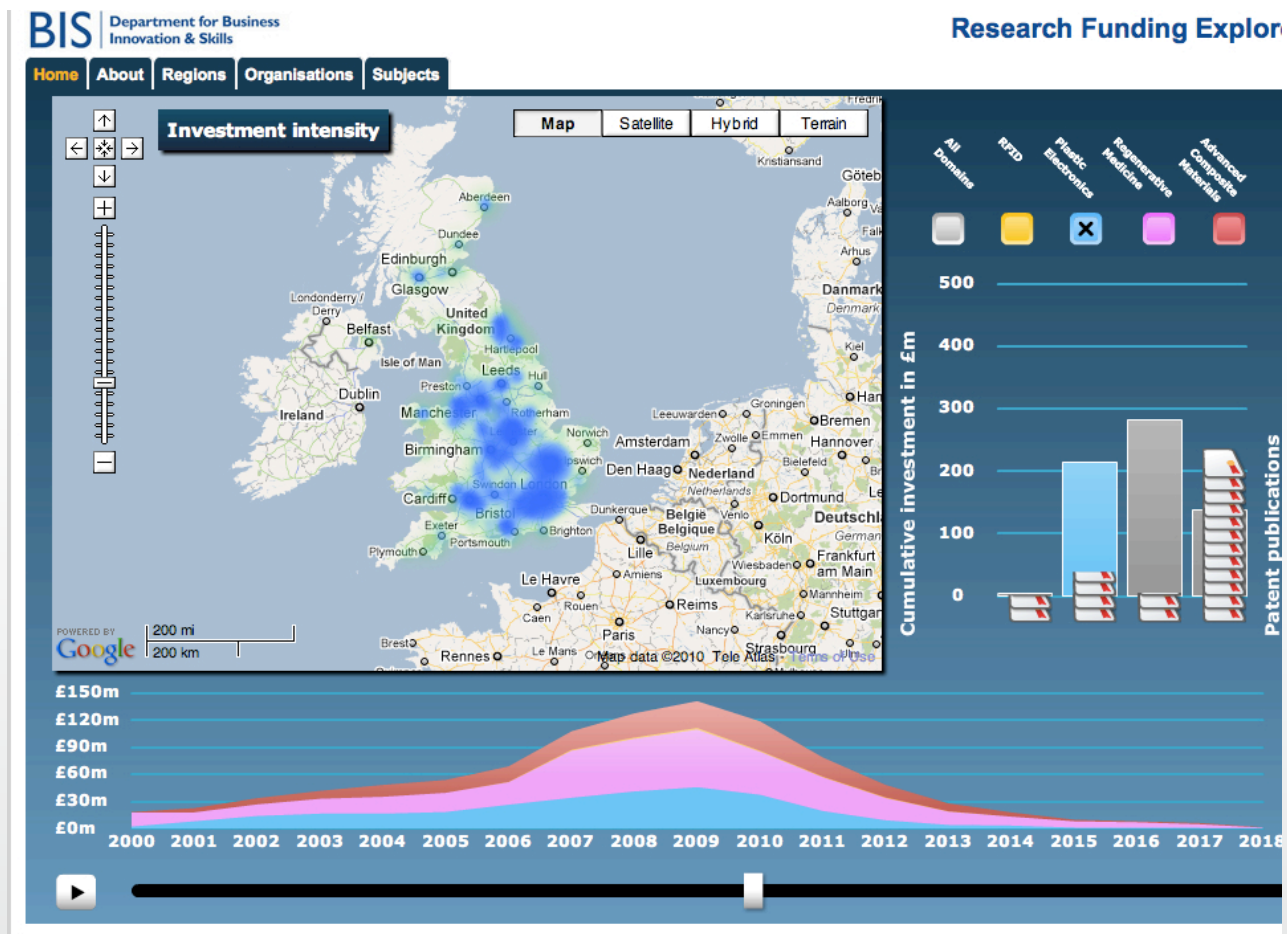
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data.gov.uk





ASBOrometer is a mobile application that measures levels of anti-social behaviour at your current location (within England and Wales) and gives you access to key local ASB statistics.

ASBOrometer is available for iPhone and Android phones. Get it FREE from the iTunes App Store or Android Market now!

This app was created by [Jeff Gilfelt](#) and made possible by the [data.gov.uk](#) initiative, which is opening up UK government data for public reuse.



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UK Dentists



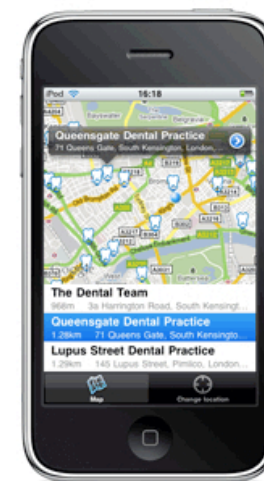
Find your nearest NHS dentist quickly and easily!

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. Distances can be displayed in metric or imperial units (configured in the application preferences).

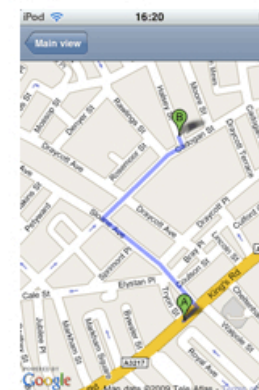
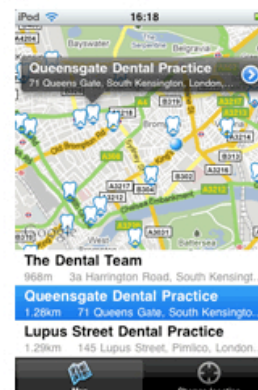
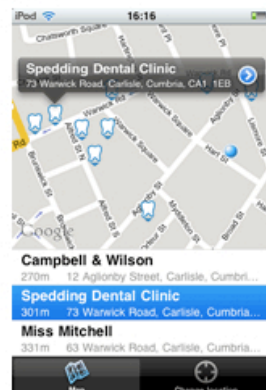
UK Dentists uses the built in GPS on the iPhone to get your current location, but can also locate an iPod Touch in built-up WiFi areas. If your location cannot be determined automatically then you can always enter your post code to get started. Please note that an internet connection is required to get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

* Data reproduced under the terms of the Office of Public Sector Information (OPSI) Click-Use Licence.



Application Screenshots

Click on any of the images to see a larger version



Buy on iTunes

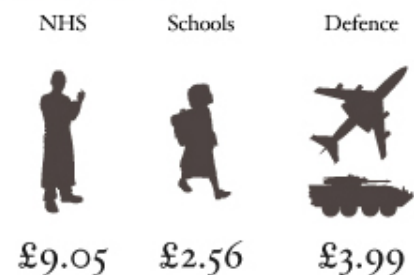
£ Massive Outgoings

Cost for average British taxpayer per day

GOVERNMENTS



ESSENTIALS



TRAVEL



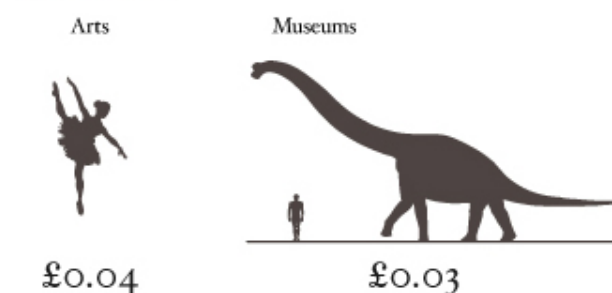
BANKING CHARGES



SECURITY



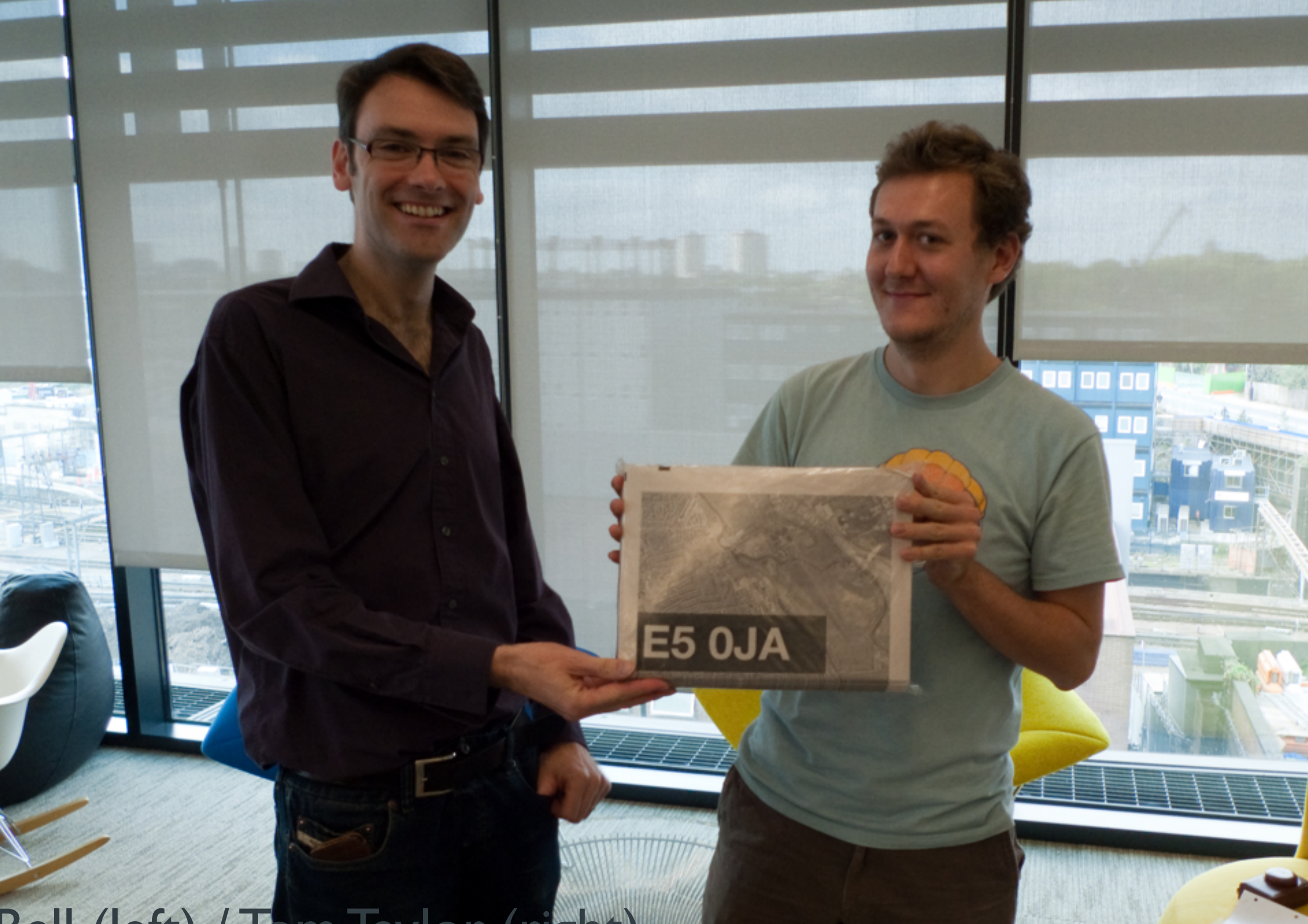
GOING OUT



HELPING OTHERS

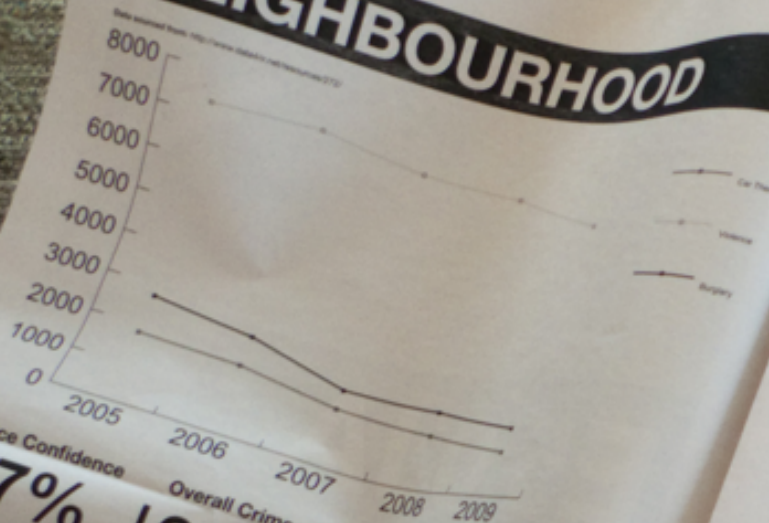


David McCandless



Bell (left) / Tom Teyler (right)

NEIGHBOURHOOD



Police Confidence
77%

Overall Crime
↓39%

Gun Crime
↓37%

Knife Crime
↓17%

Robbery
↓14%

Theft
↓13%

Woundings
↑220%

10000
fewer crime victims

Summary

Hackney Police and the Council work very closely to tackle and prevent crime in the borough. Seventy seven per cent of residents now have confidence in Hackney's Police, according to the British Crime Survey, a rise of 55 per cent in less than two years.

The survey also reveals that crime in Hackney has dropped 36.5 per cent over five years, the second largest drop of all London boroughs. Last year, there were ten thousand fewer victims of crime in Hackney than five years ago.

In 2008/09, gun crime was reduced by over 37 per cent and knife crime by 17 per cent. Youth crime also fell by 10 per cent. Satisfaction with the Police and the Fire Brigade are six per cent above the London average.

-- Hackney Council

ALLOTMENTS

- 1 St John's Road
Entrance at rear of 57 St John's Road
- 2 Asher Terrace
Entrance at north end of Clarendon Crescent
- 3 Springvale Road
Entrance between 42 and 44 Springvale Road
- 4 Church Walk
Entrance at south end of Church Walk
- 5 Queensbridge Road
At rear of 128 Queensbridge Road
- 6 Manor Gardens
Entrance at rear of Manor Gardens
- 7 Chesham Street
Corner of Chesham Street and Rye House Road
- 8 Ladbroke Road
Entrance at west end of railway bridge over Ladbroke Road
- 9 Spring Lane
Entrance on Spring Lane at side of Rye House Road
- 10 Spring Hill
Entrance at corner of Spring Hill



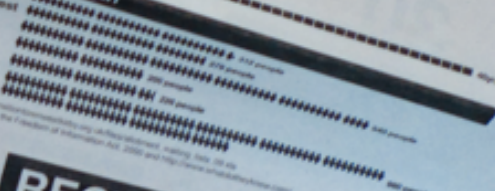
Allotment Plots

Tower Hamlet	282	Waltham Forest	1,382
Newham	415	Hackney	113
Haringey	1,715	Camden	195

Waiting List Time

Tower Hamlet	1.5 yrs
Waltham Forest	1.5 yrs
Newham	1.5 yrs
Hackney	1.5 yrs
Haringey	1.5 yrs
Camden	1.5 yrs

Waiting List Length



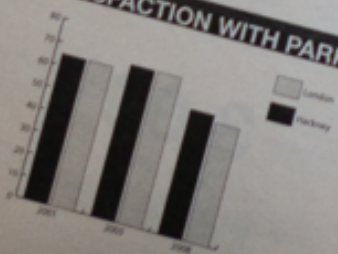
GREEN SPACE

23%
by land area in Hackney

Your nearest parks are:

- Hackney Marshes (10 mins east)
- Victoria Park (15 mins south)
- London Fields (20 mins south west)

% SATISFACTION WITH PARKS



RECYCLING

Your nearest Recycling and Reuse Center is on South Access Road, Walthamstow, E17 (off Markhouse Avenue, near Low Hall Manor Business Centre).

Open every day of the year, except on 25 December, 26 December and 1 January. Open from 8.30am to 5.15pm. South Access Road is for most, bulky household waste and recyclables. This site does not accept:

If you intend to use a van to bring your waste please call 020 8509 3664 at least 24 hours prior to visiting the site. Vans are only allowed to the site between 8.30am and 4pm Monday to Saturday.

You can recycle the following items at this site:

- Bicycles
- Car batteries
- Cardboard
- Computers and printers
- Cooking oil
- Electrical items
- Engine oil
- Food/drink cans and foil
- Furniture in good condition
- Garden waste
- Gas bottles
- Glass bottles and jars
- Household rubbish
- Household batteries
- Long life light bulbs
- Metal
- Mobile telephones
- Paper
- Plasterboard
- Plastic bottles
- Refrigerator paint
- Tetra packs
- Textiles and shoes
- Tools for reuse

New data?

- The objective of the Public Data work is to make data available for re-use.
- The data on data.gov.uk includes:
 - data not previously available at all
 - data previously only available in non-reusable form (eg PDF)
 - data previously only available with licensing restrictions on its reuse (there is a new, open licence for data on data.gov.uk)
 - data previously only available to a limited or specialist set of users
 - data previously not easy to find

What else needs to happen in HMG

- each body needs a clear, published commitment on releasing data, and there needs to be consistency between similar bodies
- agencies need to release transaction data - like the bicycle accident data - and not just statistical aggregates
- this needs to extend not only through central Government but also into local government and the other public services
- agencies need always to publish for re-use the underlying data for web services that they supply like Directgov, NHS Choices and the Camden "where's my nearest" service.
- bodies should proactively release data, but there should also be the ability to challenge bodies to release more.

Nuturing the community

- Government also needs to to nurture and support activities which would add new value to data.
- support community activism and "hyperlocality" in using this information
- help integration with community networks - e.g civic society services
- assist the use of linked data technologies by investing in the development of tools and software and making these "open source".
- giving support, encouragement and targeted funding to people developing innovative software and services which use public data.

Challenges we faced

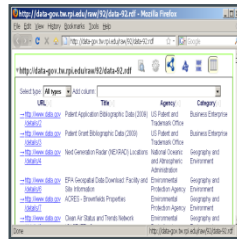
- Cultural & Organisational
 - Data hugging
 - We have released it - sort of...
 - License impediments
- Worries about
 - Confidentiality
 - How it will be Interpreted
 - QoI
 - Lost value
 - Disrupted workflow
 - New IT procurement
- Importance of local authority and other public bodies
- Capability
 - What assets have we got (no duty to hold register of public non-personal datasets)
 - Who can do this work
 - How to share best practice
 - Minting URIs
- Policy
 - Extending the principle to all public sector bodies
 - Consistency in what is published, how it is licensed and its format
 - Range of exceptions do need to be appreciated
 - Confidentiality, accuracy, liability and reputation

The US Linked Data Effort

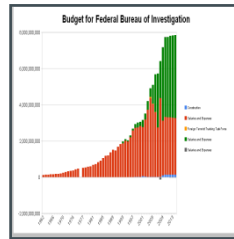
View & Use Data



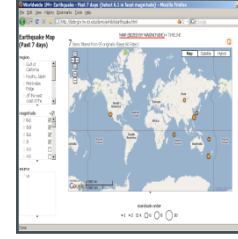
↑ Sem Wiki



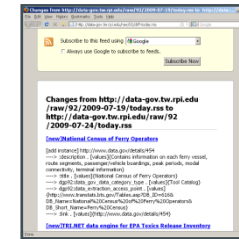
↑ Tabulator



↑ Google Viz



↑ MIT Exhibit



↑ RSS 1.0



↑ tagCloud

Link & Enrich Data

XSLT Service

Diff Service

Link Annotator

RSS Generator

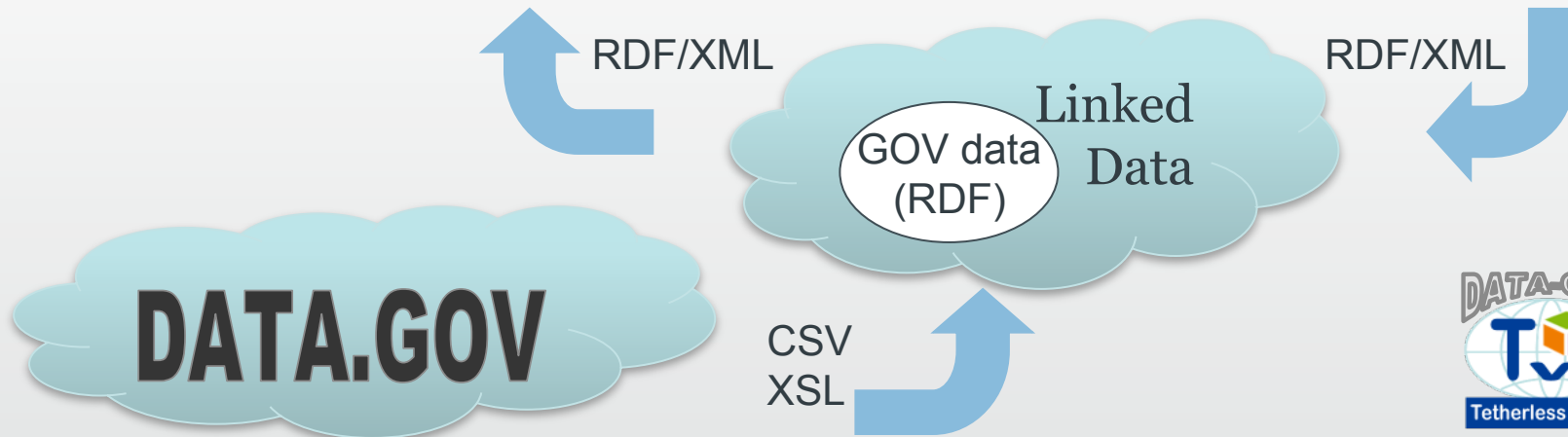
...

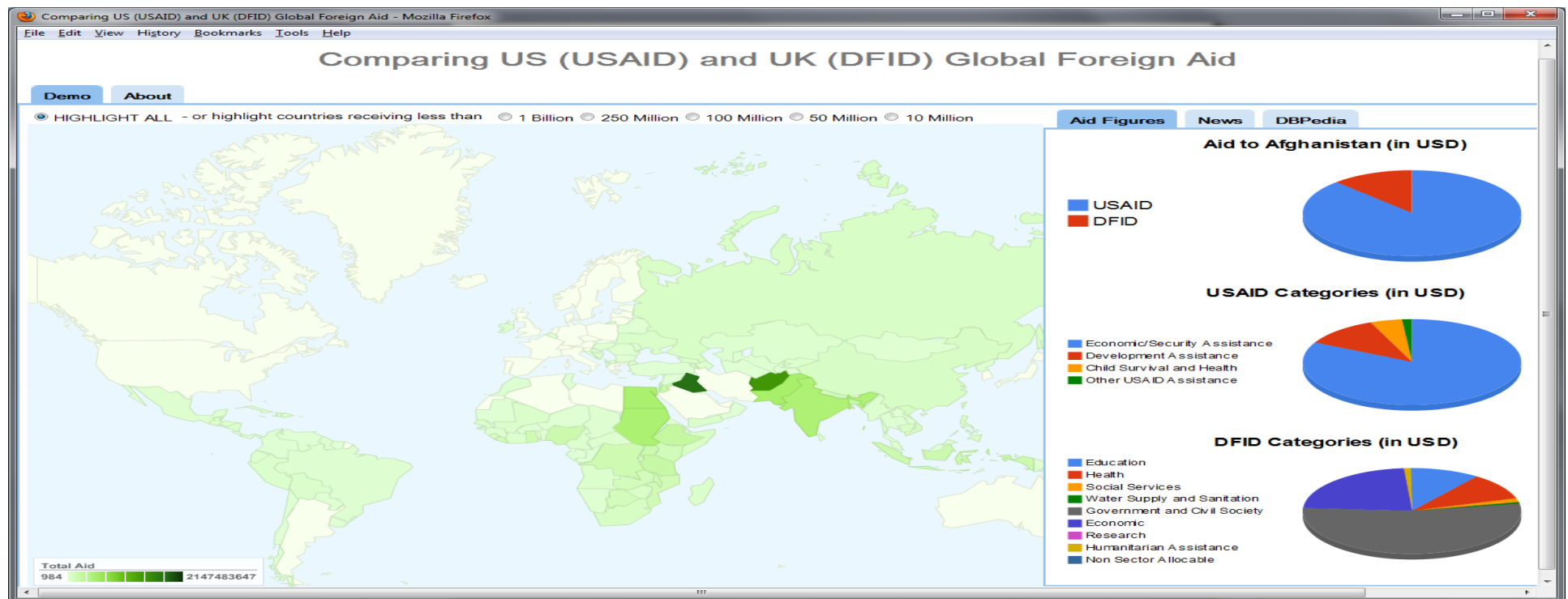
Data Processors
(Web Services & Analyzers)

SPARQL End Point

SPARQL Web Service

Convert Data





This application presents a mashup of foreign aid data (represented in US Dollars) from the United States Agency for International Development (USAID) and UK Department for International Development (DFID) for the 2007 US Fiscal Year.

Users may retrieve foreign aid data for specific countries by clicking on a provided world map (shaded based on total combined contributions for USAID and DFID). Upon clicking on a desired country, three kinds of information are presented: Aid Figures, New York Times news, and wikipedia description. <http://data-gov.tw.rpi.edu/demo/linked/aidviz-1554-10030.html>

Aid Figures News DBPedia

[Pakistani Refugees Pour Into Afghanistan](#)
2008-09-30

[Bush Administration Reviews Its Afghanistan Policy, Exposing Points of Contention](#)
2008-09-23

[In Afghanistan, British Leader Shows Support](#)
2008-08-22

[Donors Press Afghanistan On Corruption](#)
2008-06-13

[5 Dead in Attack on Mine-Clearing Team in Afghanistan](#)
2008-03-25

[Kidnapping Prompts Rally By 500 Women In Afghanistan](#)
2008-01-30

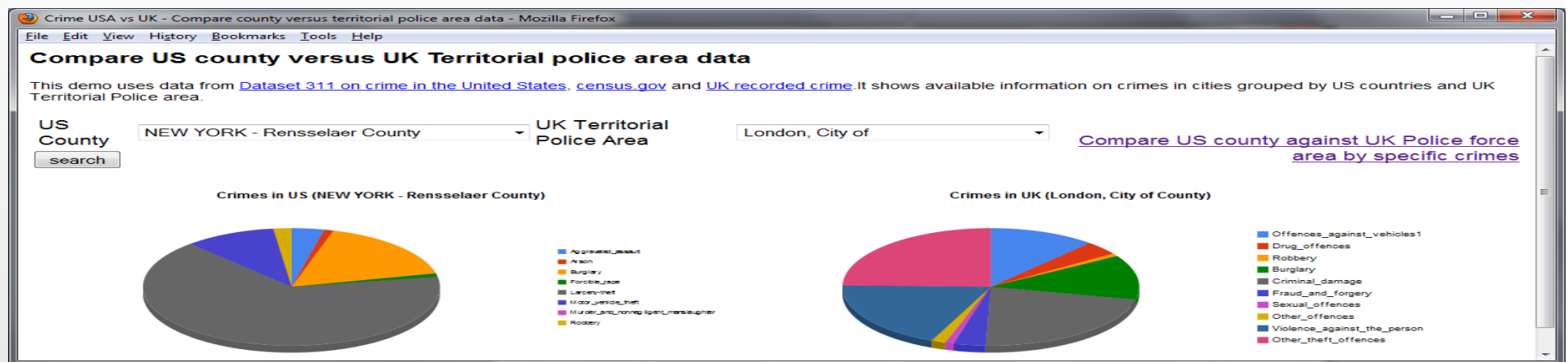
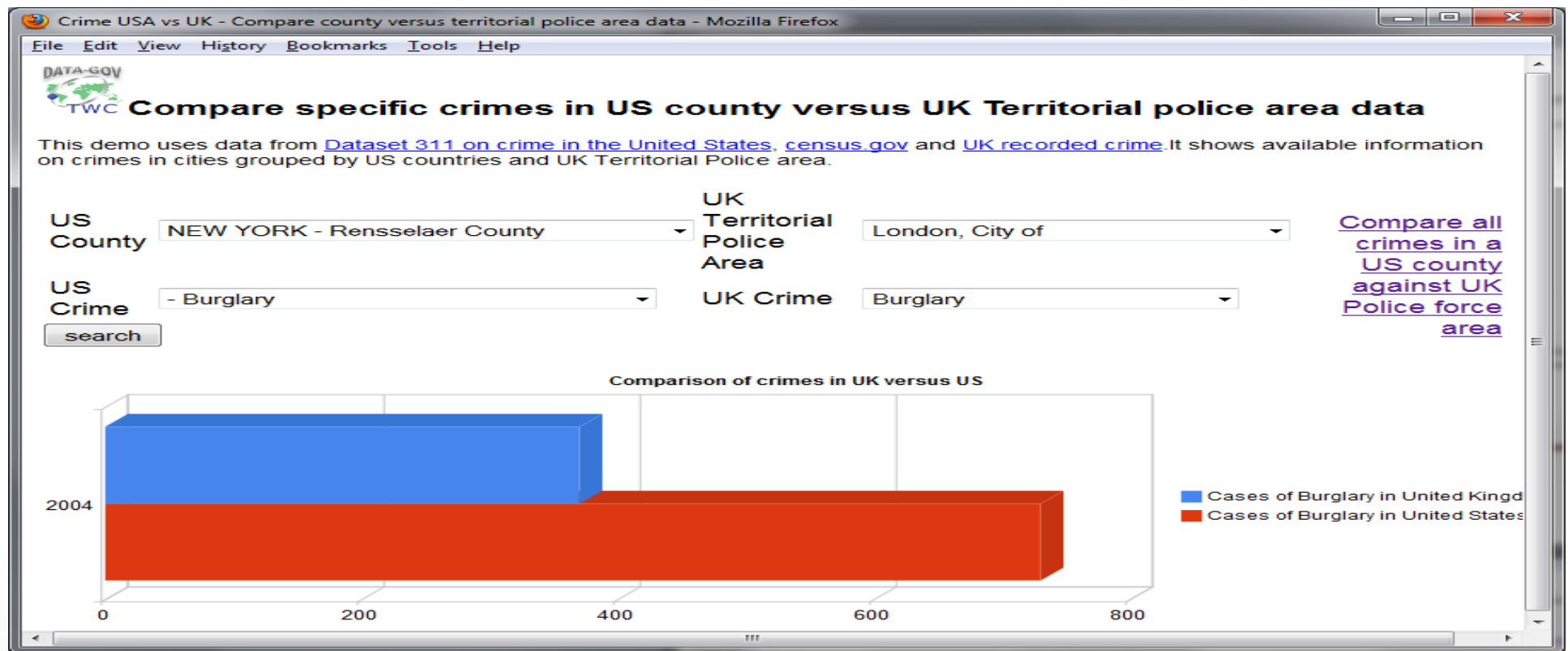
[4 Red Cross Workers Kidnapped in Afghanistan While Seeking Hostages' Release](#)
2007-09-28

[WORLD BRIEFING | ASIA; Afghanistan: German Hostage In Tv Plea](#)
2007-08-24

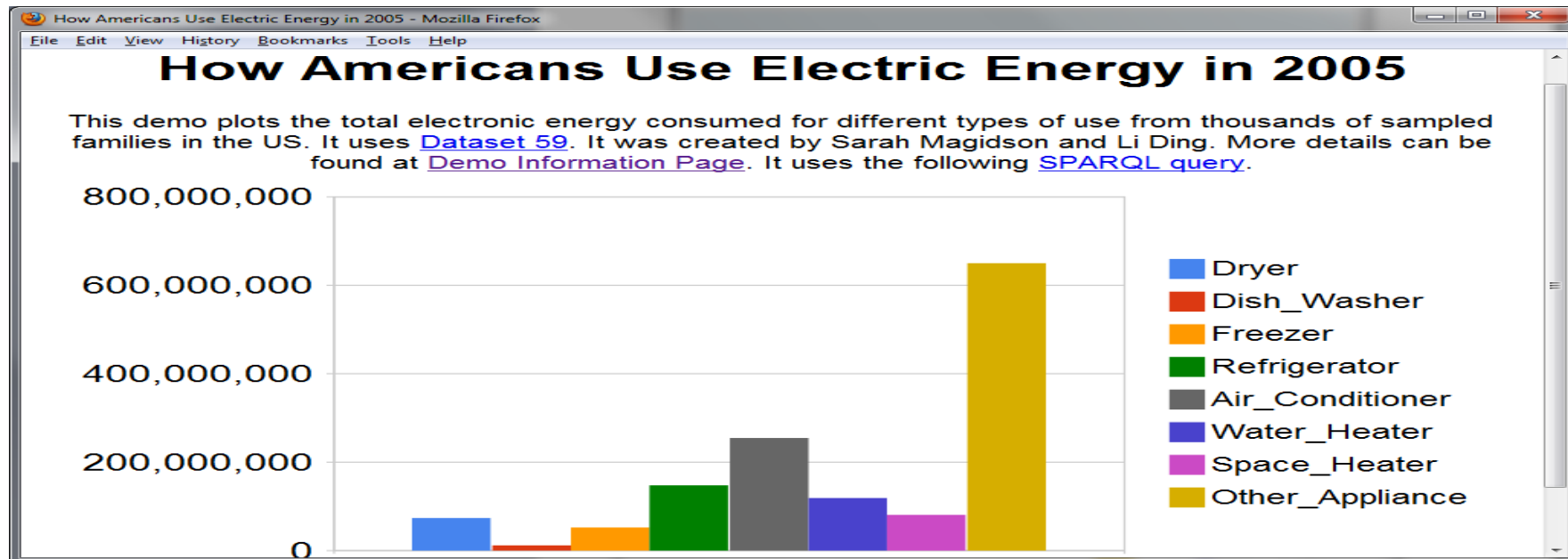
[WORLD BRIEFING | ASIA; Afghanistan: Kidnap Motive Was Ransom](#)
2007-08-21

Aid Figures News DBPedia

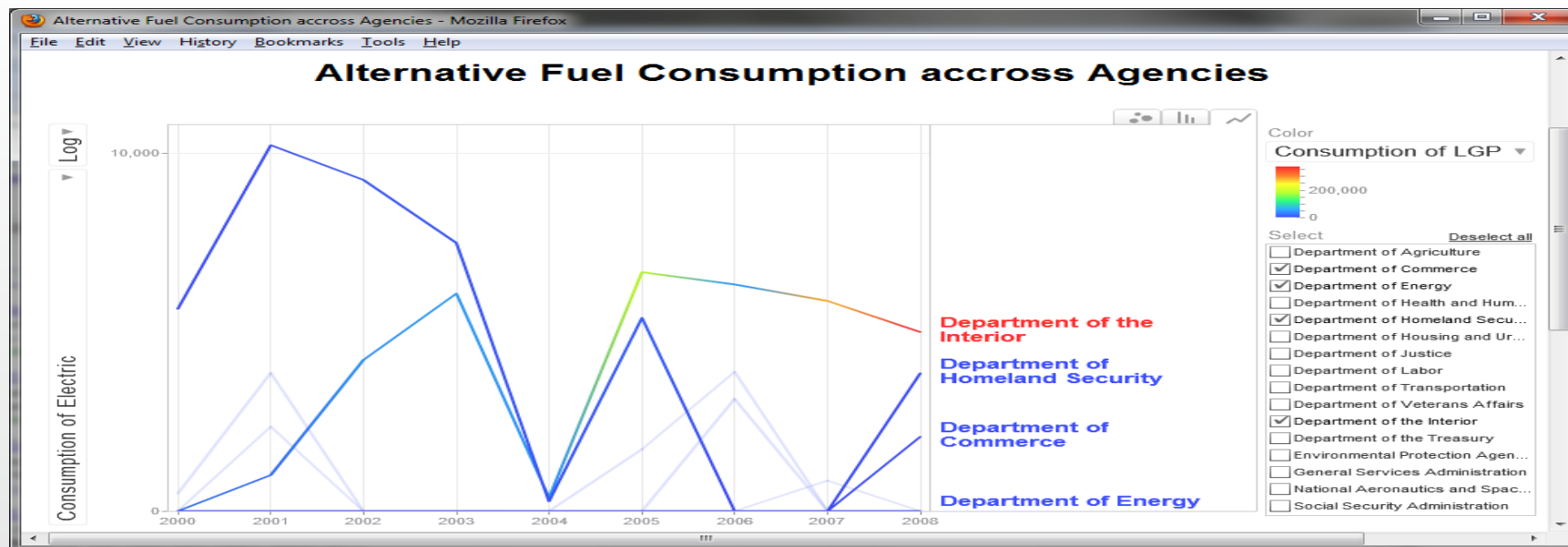
About Afghanistan
The [[Islamic republic|Islamic Republic of Afghanistan is a [[landlock in south central Asia. It is variously described as being located withi Asia, [[South Asia, or the [[Middle East. It is bordered by [[Iran in the west, [[Pakistan in the south and east, [[Turkmenistan, [[Uzbekistan, [[Tajikistan in the north, and [[China in the far northeast. Afghanistan crossroads between the [[Eastern world|East and the [[Western world|West and was an ancient focal point of the [[Silk Road and the [[Human migration|migration. It has an important [[geography|geographic location connecting South and Central Asia and Middle East. Because of this has been a target of various invaders and conquerors, as well as a from which local powers invaded surrounding regions to form their c empires. [[Ahmad Shah Durrani created the [[Durrani Empire in 174 considered the beginning of modern Afghanistan. Subsequently, the was shifted to [[Kabul and most of its territories ceded to former nei countries. In the late 19th century, Afghanistan became a [[buffer st "[[The Great Game" played between the [[British Indian Empire and Empire. On August 19, 1919, following the [[European influence in Afghanistan#Third Anglo-Afghan War and independence#third Angl war, the country regained full independence from the United Kingd [[foreign affairs. Since the late 1970s Afghanistan has suffered cont brutal [[Afghan Civil War|civil war in addition to foreign interventions of the 1979 [[Soviet war in Afghanistan|Soviet invasion and the 200 Afghanistan (2001-present)|U.S. -led invasion that toppled the [[Ta government. In late 2001 the [[United Nations Security Council auth creation of an [[International Security Assistance Force|International Assistance Force (ISAF) composed of [[NATO troops.



This demo uses data from [Dataset 311 on crime in the United States, census.gov](#) and [UK recorded crime](#). It shows available information on crimes in cities grouped by US countries and UK Territorial Police area.



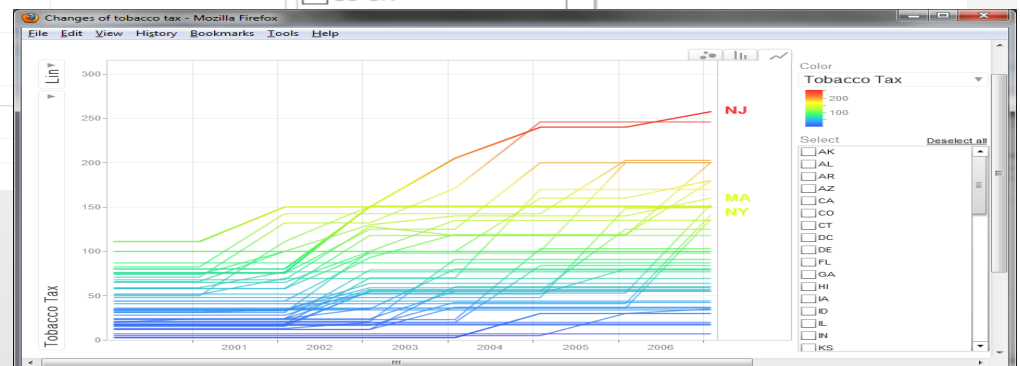
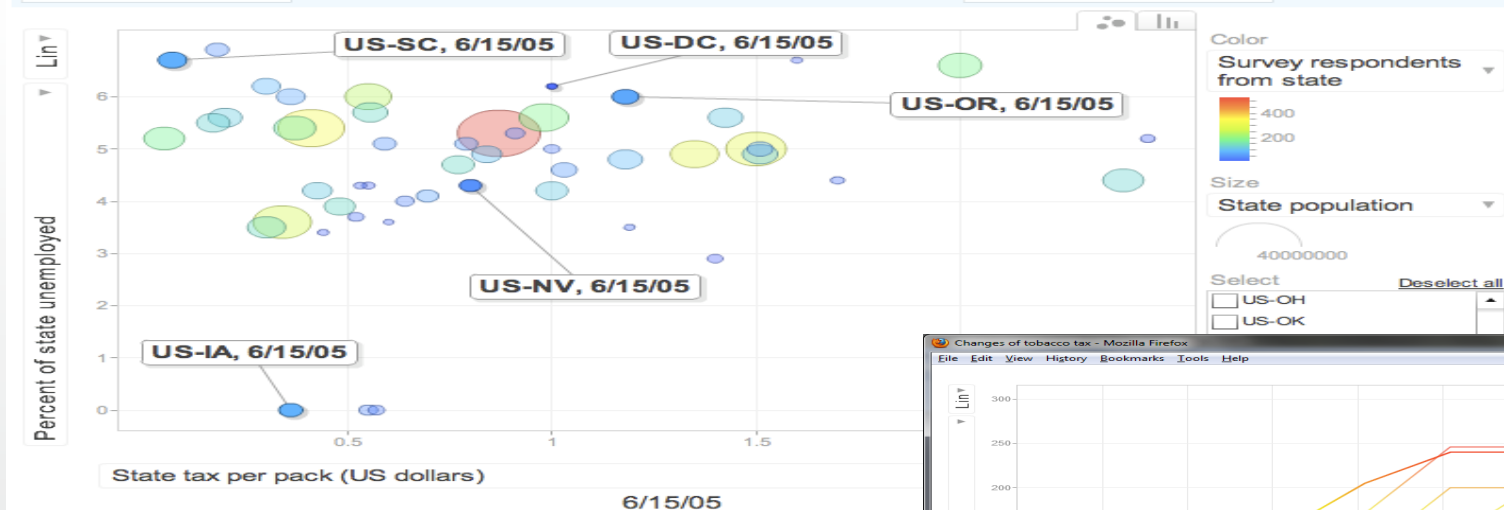
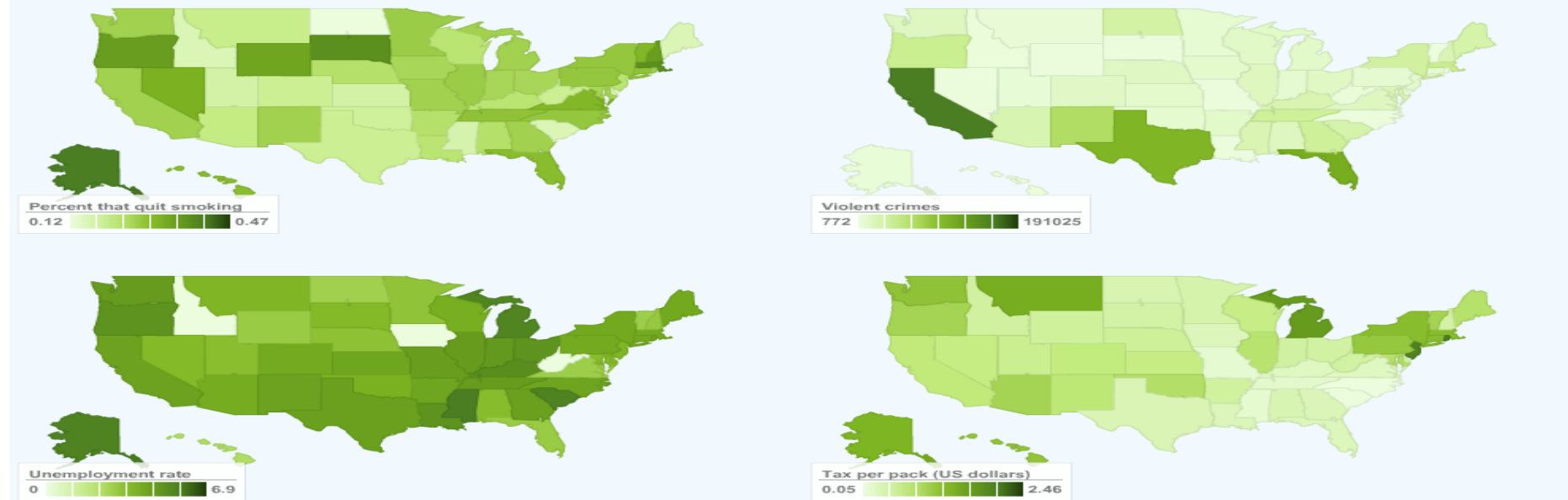
Household energy usage statistics. <http://data-gov.tw.rpi.edu/demo/static/demo-59-ec2.html>



Energy usage (by energy type) of US government agencies.
<http://data-gov.tw.rpi.edu/demo/interactive/demo-10029-agency.html>

Comparing Smoking Quit Rates to Unemployment, Tax, and Violent Crimes

4 sources ([more info...](#))



This demo aims at showing how existing tobacco survey data can be linked to other open government data in unexpected way.

<http://data-gov.tw.rpi.edu/demo/linked/2010/02/04/popsciGRID/nih.html>

The Guardian Editorial 23-1-2010

Government information: Creative commons

....It is equally hazardous trying to envision how freer data will redraw the boundaries between different communities or recast their relationship with power. But it is reasonable to speculate that the uncovering and unlocking of so much information will drive improvements in public policy. It will level the territory on which voters meet politicians, and could prove a powerful brake on campaigning hyperbole in the coming election. Without the printed word there would have been no informed electorate, no demand for accountability from our leaders – and indeed no democracy at all. Open data will surely revive it, and in time could transform it too.

Web of Linked Data

- The Web of Linked Data is next
- Can change
 - Government
 - Business
 - Cities
 - Universities
 - :
- Exploitation of
 - open data
 - open standards
- Can apply to data intranets as well as extranets



So the question is...

If you could get the data under Freedom of Information request why shouldn't it be published as an RSS stream?

The question is not why but why not?

Thank you

- Any further information or follow up on the research questions please email

nrs@ecs.soton.ac.uk