

# Open Government Data

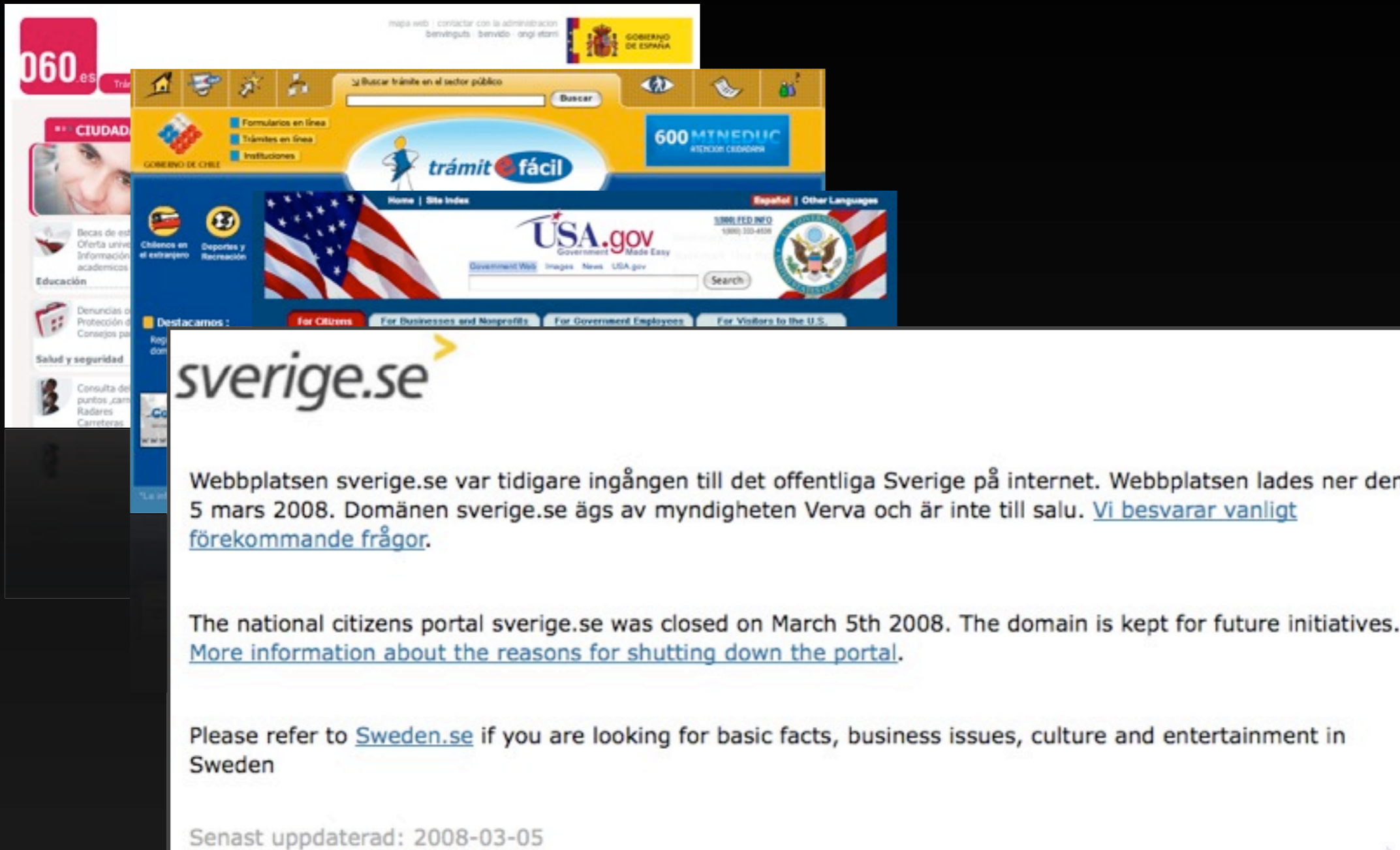


# eGovernment at W3C

- Public Open Interest Group
- Collective effort
  - Governments, Industry, Citizens, Civil Societies, other International Bodies
- Identification and description of existing challenges
- Propose ways to address them
- Read/Comment
  - <http://www.w3.org/TR/egov-improving>



# Will portals disappear?



060.es

GOBIERNO DE ESPAÑA

GOBIERNO DE CHILE

trámite fácil

600 MINEDUC

USA.gov

Government Made Easy

sverige.se

Webbplatsen sverige.se var tidigare ingången till det offentliga Sverige på internet. Webbplatsen lades ner den 5 mars 2008. Domänen sverige.se ägs av myndigheten Verva och är inte till salu. [Vi besvarar vanligt förekommande frågor.](#)

The national citizens portal sverige.se was closed on March 5th 2008. The domain is kept for future initiatives. [More information about the reasons for shutting down the portal.](#)

Please refer to [Sweden.se](#) if you are looking for basic facts, business issues, culture and entertainment in Sweden

Senast uppdaterad: 2008-03-05

Read [Government Data and the Invisible Hand](#)

# How do citizens search?

- They try going to a one-stop shop
  - (a few, and if known)
- To the given agency Web site if not
  - (even less ones)
- They often use a search engine
- They get pointers to non-gov sites
- Happy with what they get

Why limit interactions?

# Open Government?

“If people don't know what you're doing, they don't know what you're doing wrong”

“Yes, Minister” on Open Government (1980)

# Open Government!

“It took me 15 minutes and 20 lines of code to get the info of Spanish congress representatives from 15 HTML pages into XML, and I’m not a good programmer”

Jose M.Alonso (2009)

# 2nd Try...

- Why limit interactions?
  - avoid *obscurity* by default
  - move from ownership to stewardship



# Open Government Data

“**Public Sector**

**Information (PSI)** in

**free open raw** formats and

ways that make it **accessible**

**to all** and allow **reuse**”

more specific? ex. see the [8 principles](#)

# Public Policy Outcomes

- Inclusion
- Transparency
- Accountability

# Benefits

- Multiple views, not just one
- Reuse
  - “the coolest thing to do with your data will be thought of by someone else”
- Improved Web Search
- Data Integration
- Foster innovation

# EU PSI Facts and Figures

- UK Office of Fair Trading study
  - UK Gov losing 500MGBP/year
- EU Geographical Sector
  - 350% download increase (2007)
- National Meteorological Offices
  - 70% increase (2002-2007)
  - €530 worth (2006)


# More Facts and Figures

- Austrian Mapping Agency (BEV)
  - prices 97% down
  - downloads 7000% up
  - stable turnover!

# Example: DC.gov

Columbia MAYOR FENTY DC GUIDE RESIDENTS BUSINESS VISITORS GOVERNMENT FOR KIDS

## Data Catalog



For years the District of Columbia has provided public access to city operational data through the Internet. Now the District provides citizens with the access to 274 datasets from multiple agencies, a catalyst ensuring agencies operate as more responsive, better performing organizations. Use the data catalog below to subscribe to a live data feed in Atom format and access data in XML, Text/CSV, KML or ESRI Shapefile formats. Please note that by accessing the data catalog and feeds, you agree to our [Terms of Use](#). Please read before accessing the data. All data visualizations on maps should be considered approximate. The visualizations provided by this application include only records that can be mapped.

<h3>Live Data Feeds</h3> <ul style="list-style-type: none"><li>CJIS Juvenile Arrests and Charges</li><li>Completed Construction Projects 2009</li><li>Crime incidents (ASAP)</li><li>Current Construction Projects</li><li>Hansen Service Requests</li><li>Public Space Permits</li><li>Purchase Orders</li><li>Registered Property</li><li>Registered Vacant Property</li></ul> <p>Get updates in other formats...</p>	<h3>See it on Google Maps</h3> <ul style="list-style-type: none"><li>Building Permits</li><li>Completed Construction Projects 2007</li><li>Completed Construction Projects 2008</li><li>Completed Construction Projects 2009</li><li>Crime incidents (ASAP)</li><li>Current Construction Projects</li><li>DCPS Computer Deployment</li><li>Hansen Service Requests</li><li>Housing Code Enforcement</li><li>ITSA Awarded Engagements</li><li>Public Space Permits</li></ul>	<h3>Custom Downloads</h3> <ul style="list-style-type: none"><li>Building Permits</li><li>CJIS Juvenile Arrests and Charges</li><li>Completed Construction Projects 2009</li><li>Crime incidents (ASAP)</li><li>Current Construction Projects</li><li>Hansen Service Requests</li><li>Public Space Permits</li><li>Registered Property</li><li>Registered Vacant Property</li></ul>
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### Popular Downloads

- CJIS Juvenile Arrests and Charges 2009
- CJIS Juvenile Arrests and Charges 2008
- Crime incidents (ASAP) 2009
- Crime incidents (ASAP) 2008
- Crime incidents (ASAP) 2007
- Crime incidents (ASAP) 2006
- Purchase Orders 2009
- Purchase Orders 2008
- Purchase Orders 2004-2007
- Public Space Permits 2008
- Public Space Permits 2004-2007
- ITSA Awarded Engagements

- Data Catalog (CSV, Atom, XML, ESRI, KML)



# Example: DC.gov

District of Columbia | MAYOR FENTY | DC GUIDE | RESIDENTS | BUSINESS | VISITORS | GOVERNMENT

## Metropolitan Police Department

**MPDC HOME**

**SERVICES**

**INFORMATION**

**Police Districts**  
Welcome  
The Community  
Commander's Letter  
District Calendar  
District Commander  
District Roster  
Success Stories  
Annual Crime Statistics  
Directions  
District Boundaries

**ONLINE SERVICE REQUESTS**

### Sixth District Monthly Crime Statistics January 2008

Crime	Year-to-Date Comparison			Monthly Comparison		
	Thru 1/07	Thru 1/08	% Change	1/07	1/08	% Change
Homicide	3	4	33	3	4	33
Sexual Assault	1	3	200	1	3	200
Robbery	48	49	2	48	49	2
Assault with a Deadly Weapon	46	25	-46	46	25	-46
Burglary	33	29	-12	33	29	-13
Theft	35	25	-19	35	25	-29
Theft from Auto	53	46	-13	53	46	-13
Stolen Auto	89	86	-3	89	86	-3
Arson	0	0	NC	0	0	NC
<b>Total</b>	<b>308</b>	<b>267</b>	<b>-13</b>	<b>308</b>	<b>267</b>	<b>-13</b>

This data is subject to change due to late reporting.

# Example: DC.gov

CrimeinDC.org

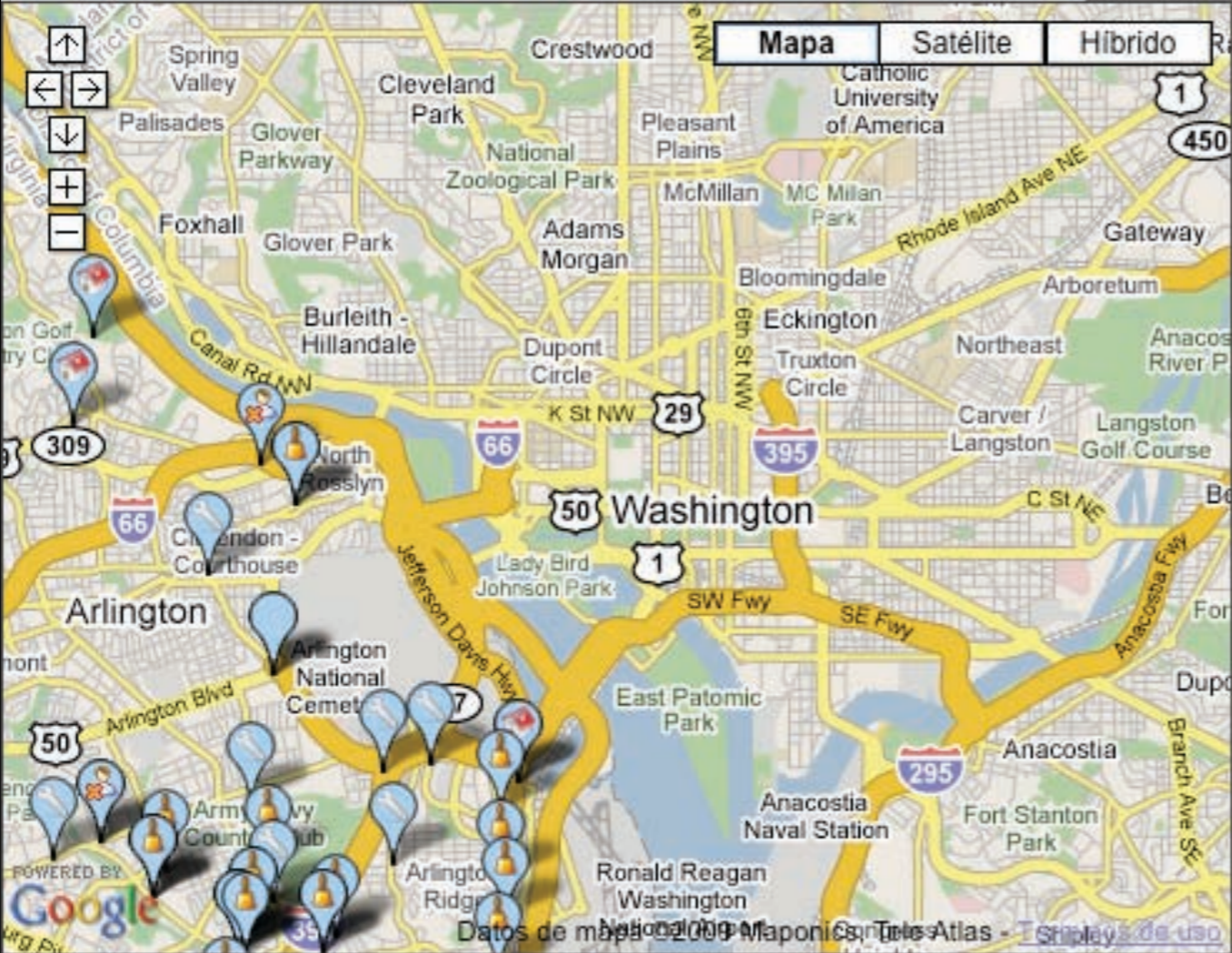
Login »

Google maps, statistics, and hotspots tracking crimes in Washington, DC

**Dupont Circle** **Adams Morgan** **Columbia Heights** **Georgetown** **Shaw**

street address or zip City Mon Day Year -- All crimes -- Redraw Reset

Mapa Satélite Híbrido



Only 40 crimes will be shown

- 540024 B/O 24th St N** E-mail »  
Fri, Aug 22nd, 2008 7:00 pm  
Theft From Auto  
va npnchbk, tag only (1) 5400 block of n. 24th street
- 1000 B/O N Garfield St** E-mail »  
Fri, Aug 22nd, 2008 7:00 pm  
Theft From Auto  
unk tag, 2002 saab 9-5, silver 1000 block of n. garfield street
- 1700 B/O N Troy St** E-mail »  
Tue, Aug 19th, 2008 7:00 pm  
Stolen Auto  
va 4g9411, 2007 honda motorcycle, white 1700 block of n. troy street
- 50015 B/O 15th St S** E-mail »  
Tue, Aug 19th, 2008 7:00 pm  
Stolen Auto  
fl 08476n, 2006 suzuki motorcycle, blue 500 block of s. 15th street
- 150012 B/O 12th St S** E-mail »  
Tue, Aug 19th, 2008 7:00 pm

Map | My Maps | Stats | RSS | Hotspots | Register | Legend | About | DC Trivia | Log | Send to friend | Del.icio.us | Privacy

web | map | stats | rss | hotspots | register | legend | about | dc trivia | log | send to friend | del.icio.us | privacy



# Example: DC.gov



**ARE YOU SAFE** *Now servicing Washington DC*

Available on the iPhone **App Store**

**Are You Safe lets you know how safe you are at all times based on your current location within the city.**

All it takes is a quick tap to see a threat meter of your safety level along with hyperlocal crime data broken down by type.

**Features:**

- Simple visual representation of your safety level on the Threat Meter
- Up to date crime data from police and local city/governments
- Dynamically updated recent crime data for your surrounding area
- Walk /drive /bike /bus /canoe around and see your status update as you go

**Uses:**

- Attending the 2009 Presidential Inauguration?
- Visiting Washington, DC and unfamiliar with the city?
- Debating whether to walk or take a cab?
- Headed to an area you haven't been to before?
- Not sure if you should park your car on the street?

**Support:**

- For new features and updates, [follow us on twitter](#)
- Drop us a line for [help](#), or [media inquiries](#)

Disclaimer: AreYouSafe uses actual crime statistics to derive safety ratings. This data is sourced from police departments and local/city governments. AreYouSafe makes no claims as to the accuracy or validity of this data. The application is for novelty purposes only. Decisions should not be made based on the information yielded by the AreYouSafe application. Decisions to move from/to a location are solely the responsibility of the user of the application. AreYouSafe may not be held liable for such decisions or the results of such actions.



Homicides:	1	Robberies:	23
Assaults:	12	Car Thefts:	17

- many more at [Apps for Democracy](#) (ROI = 4000% ?)
- see also work of [MySociety](#) (UK) and [Sunlight](#) (US)

# The Three Steps to Reuse

“**identify** the data that one controls, **represent** that data in a way that people can use, and **expose** the data to the wider world.”

Jeni Tennison

# The road ahead

Semantic Web

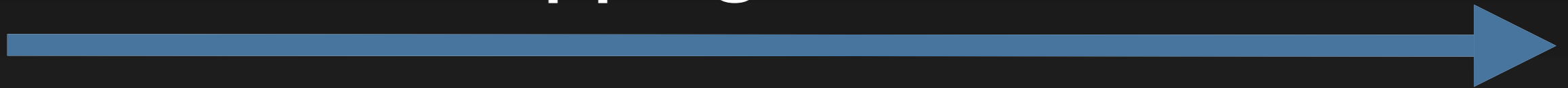
XML

RDFa

API

RSS/Atom

HTML Scrapping



# EU Directory

The screenshot shows the website for the European Public Sector Information (PSI) Platform. The header features the ePSIplatform logo and the text 'European Public Sector Information (PSI) Platform'. A navigation menu includes links for Home, Scorecard, Events, Cases, Good Practice, Reports, Forum, Themes, and Products. The main content area is titled 'European Directory of PSI Re-use Products and Services' and describes it as 'Europe's One-Stop Shop on Public Sector Information (PSI) Re-use'. It mentions that the number and range of products/services is being expanded and that contributions of additional PSI Re-use 'Services and Products' are welcome. The page lists several categories of products and services:

- Aeronautics**
  - [Weather and NOTAM \(Flight Planning Tool\)](#)
  - [WEBRODOS \(Flight Planning System\)](#)
- Agriculture**
  - [Farmer Communication Services](#)
  - [Agra-Net](#)
- Companies and Finance**
  - [B2B \(Saarlux Company Information\)](#)
  - [Bisnode Credit & Risk Information](#)
  - [BUILD \(Business Credit Reports\)](#)
  - [Compustat \(European Company Information\)](#)
  - [Creditreform \(Company Credit Ratings/Bonitätsprüfung von Firmen\)](#)

The left sidebar contains sections for 'Notification' (My Notifications), 'News Highlights' (Commission publishes Communication, ePSIplus Publishes Final Report), and 'Latest news' (LOCUS elects Mandela!, PSI Future secured).

still way to go...



# Data.gov

TUESDAY, MAY 26, 2009

## DATA.GOV

HOME | CATALOG | ABOUT | FAQ | CONTACT US | SUGGEST OTHER DATASETS

### DISCOVER. PARTICIPATE. ENGAGE.

Search Data.gov catalog by category, agency, or both

All Categories

All Agencies


**SEARCH** (Click here for advanced search)

[VIEW THE ENTIRE DATA CATALOG](#)

### FEATURED DATASET:

#### ENERGY INFORMATION ADMINISTRATION

##### Residential Energy Consumption Survey (RECS)



The Residential Energy Consumption Survey (RECS) provides information on the use of energy in residential housing units in the United States. This information includes the physical characteristics of the housing units, the appliances utilized including space heating and cooling equipment, demographic characteristics of the household, the types of fuels used, and other information that relates to energy use.

[COMPLETE DATASET](#)

[CONSUMPTION PORTION OF DATASET](#)

### Welcome to Data.gov

The purpose of Data.gov is to increase public access to high value, machine readable datasets generated by the Executive Branch of

### How to use Data.gov

Data.gov includes a searchable **data catalog** that includes access to data in two ways: through the "raw" data catalog and using

still way to go, too...

# Sunlight Labs API

## Sunlight Labs API

### About the Data


Our data comes from a variety of sources and updated regularly, a list of all sources with their update dates are listed below.

Source	Last Update
<a href="#">US Census Boundary Files</a>	2007-03-01
<a href="#">Project Vote Smart</a>	2008-06-19
<a href="#">Congresspedia</a>	2008-06-20
<a href="#">Eventful</a>	2008-06-20
<a href="#">GovTrack.us</a>	2008-06-20
<a href="#">Congressional Biographical Directory</a>	2008-06-20
<a href="#">FEC Disclosure Database</a>	2008-06-20
<a href="#">Center for Responsive Politics</a>	2008-06-20
<a href="#">Congressional Directory</a>	2008-06-20



# Crowdsourcing the Apps

Home About APPS08 Sponsors App Directory Judges Collaborate Prizes Submit Contact Us Blog Feed Apps Feed



## Apps for Democracy

An Innovation Contest

for the  
ADRIAN M. FENTY, MAYOR  
VIVEK KUNDRA, CTO  
District of Columbia  
Office of the Chief Technology Officer

Got what it takes to mash-up DC's data to win some cash and tons of street cred?

Then sign-up for Apps for Democracy and start coding here!

## Show Us a Better Way

Tell us what you'd build with public information and we could help fund your idea!

### What would you create with public information?

Ever been frustrated that you can't find out something that ought to be easy to find? Ever been baffled by league tables or 'performance indicators'? Do you think that better use of public information could improve health, education, justice or society at large?

The UK Government wants to hear your ideas for new products that could improve the way public information is communicated. The [Power of Information Taskforce](#) is running a competition on the



[Submit Your Idea](#)

[Home](#)

[All your ideas](#)

[About This Competition](#)

[Examples](#)

[Frequently Asked Questions](#)


[Information sources](#)

[House Rules](#)

[Contact Us](#)



# Victoria (AU) Budget Map

 The Premier of Victoria Keyword  Search

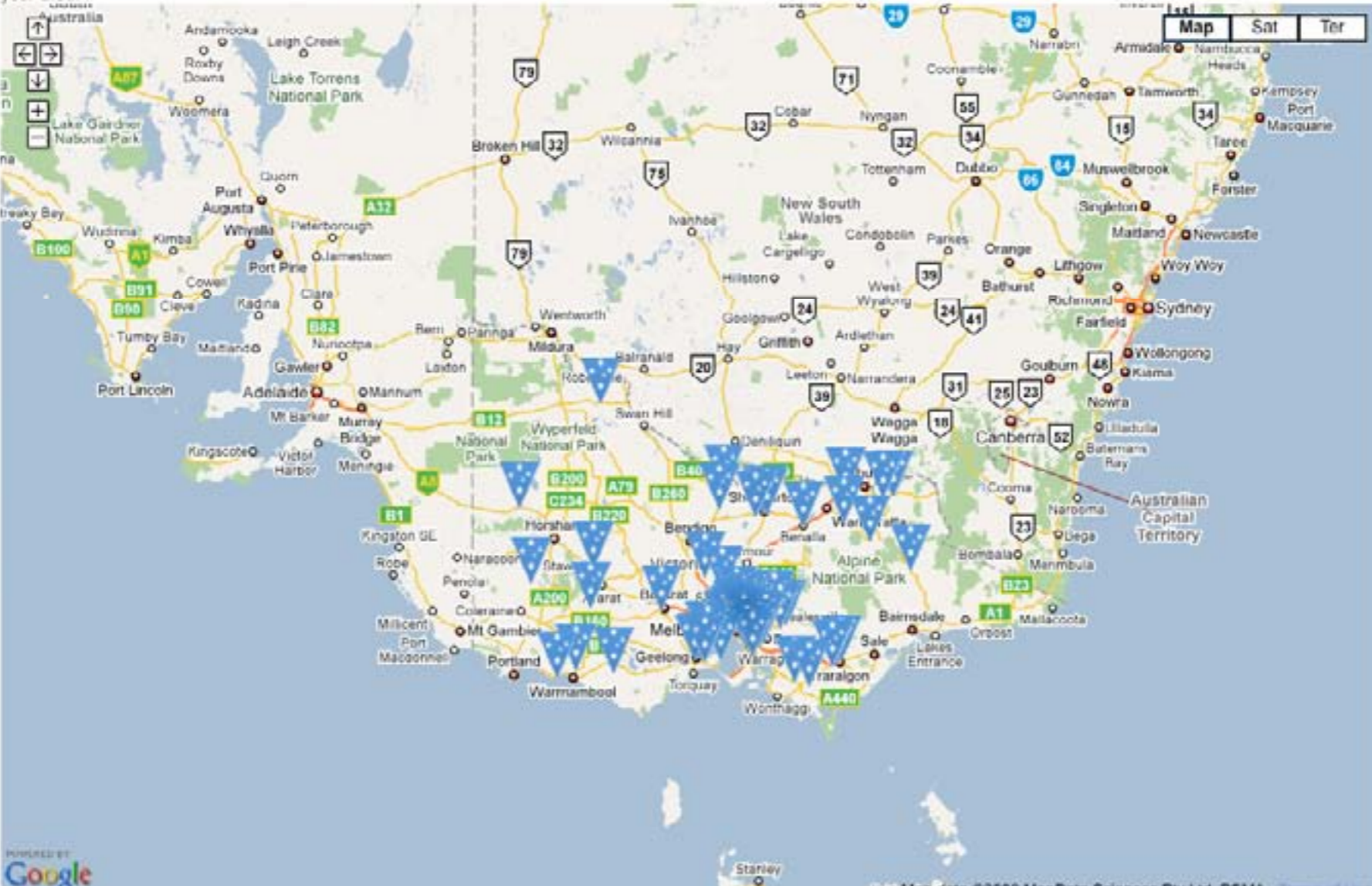
Home | Premier | Ministers | Government Action | Community Cabinet | Your Voice | Newsroom | Video & Audio | [2009-10 Budget](#) |


Budget Releases | Budget Videos | [Budget Map](#) | Budget Questions

Map Sat Ter

## BUDGET MAP

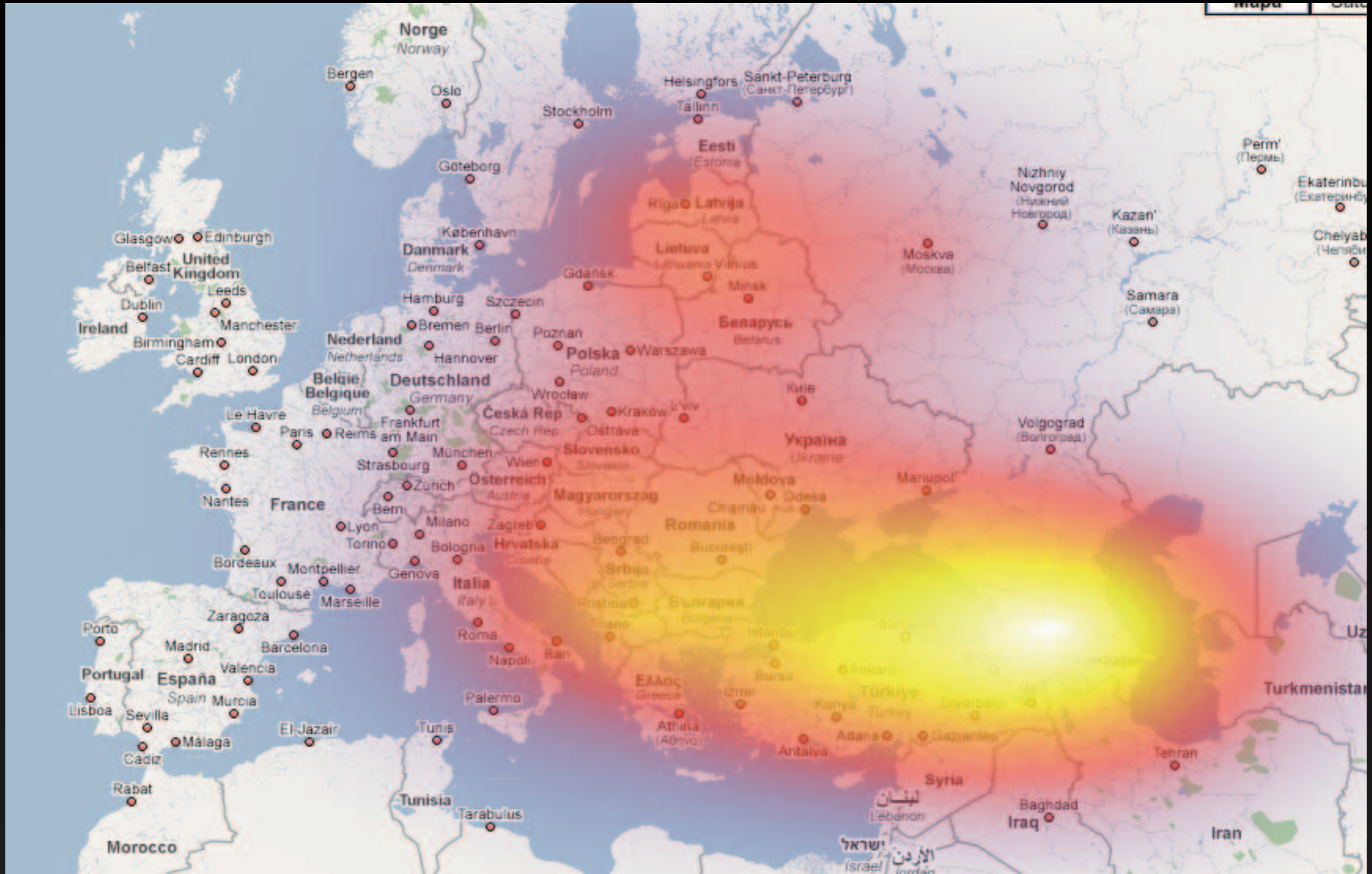
Use the Budget Map to find out what initiatives are in your local area. Please note that only a certain number of entries are displayed at one time. For best results zoom into to your area.



POWERED BY  Map data ©2009 MapData Sciences Pty Ltd, PSMA - Terms of Use



# New office in EMEA?





# Mapumental

The screenshot displays the Mapumental interface. At the top left, the 'Mapumental' logo is visible. Below it, a control bar features three sliders: 'Public transport arriving at 9:00' (set to 'Departing at 8:30'), 'House price (average)' (set to '£150,000 or less'), and 'Scenicness' (set to 'Score 1'). The main map area shows Cardiff, Wales, with various districts labeled such as Backwell, Tonyrefail, Tabbot Green, and St. Brigid's Major. A search bar at the bottom left contains the text 'New map? GB postcode: (CF10 2EE | CFS 1QP)'. The bottom right corner includes the text 'You have no invites | Help | mysociety.' and a small '4' logo in the top right corner of the map area.



# Power of Information

**Presentation Layer**

**Analysis Layer**

**Data Layer**

# Power of Information

**Interaction Layer**

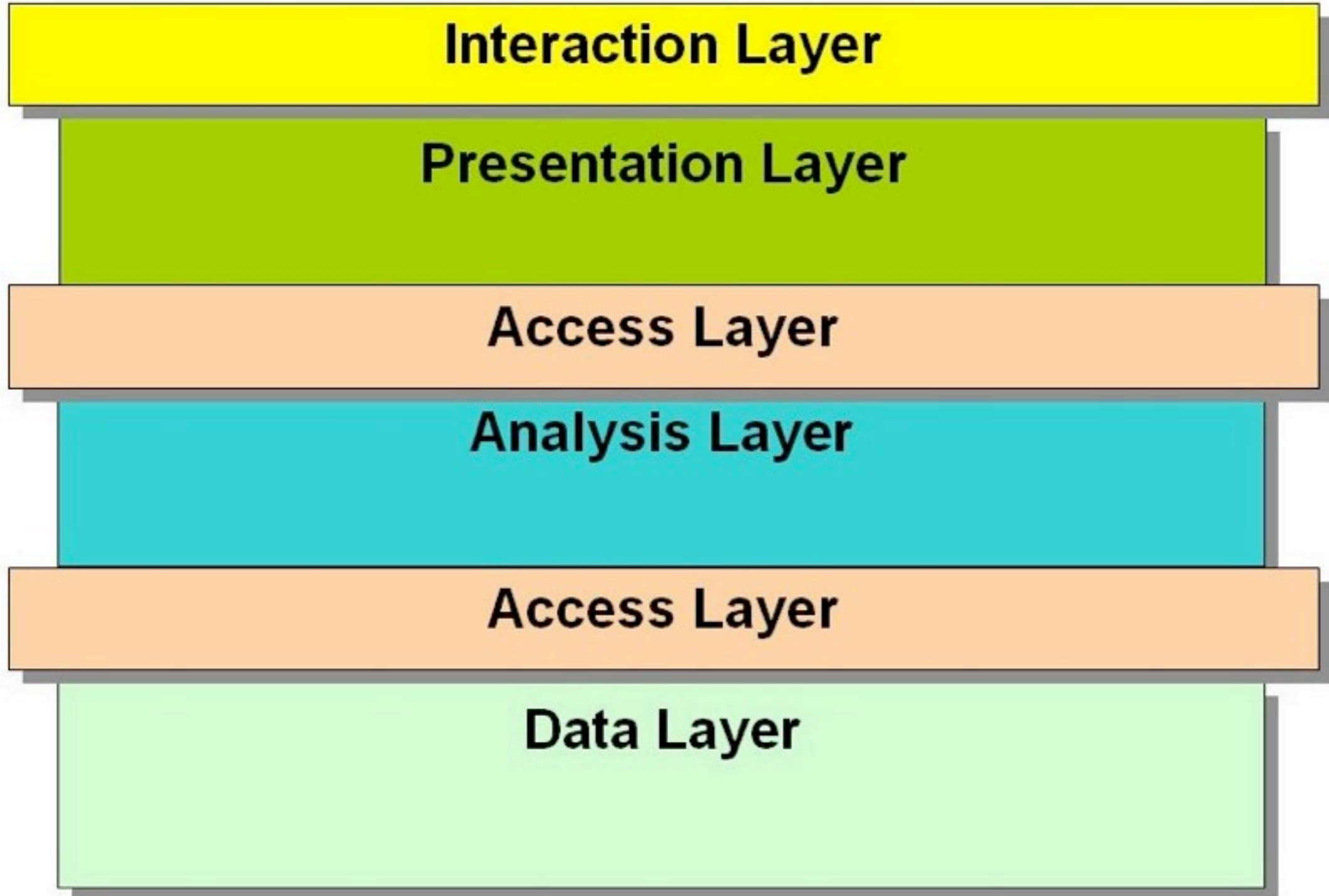
**Presentation Layer**

**Access Layer**

**Analysis Layer**

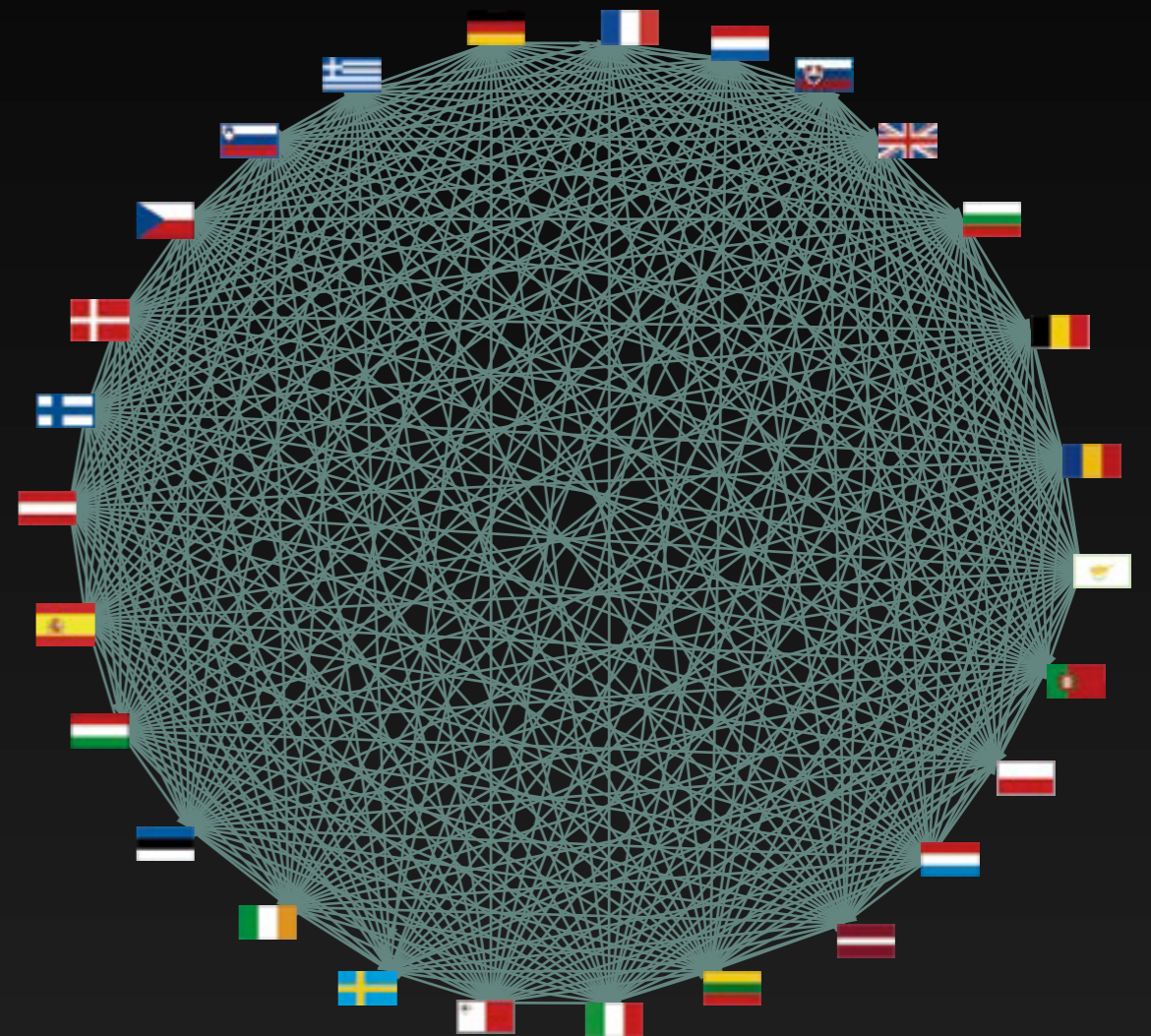
**Access Layer**

**Data Layer**

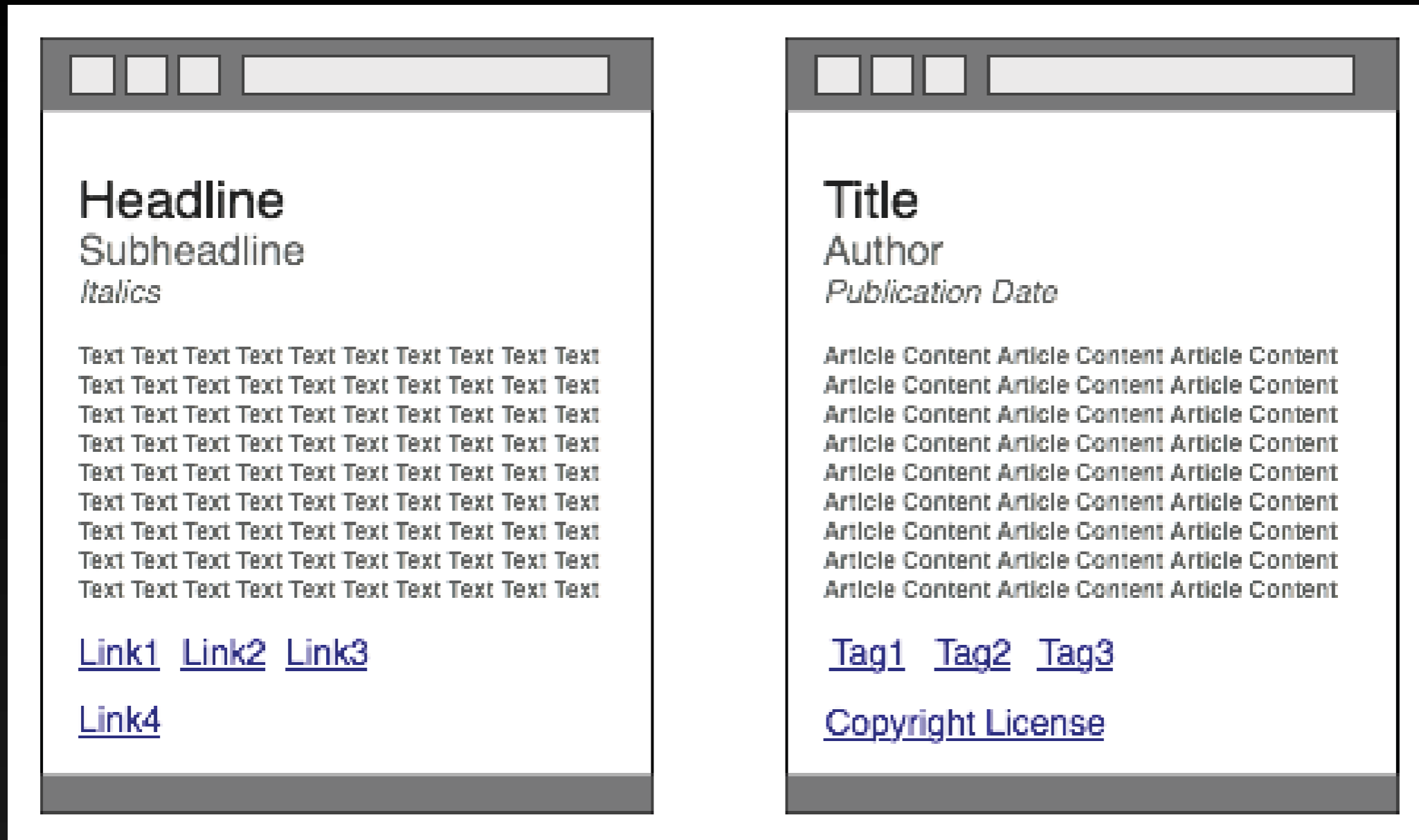


# Ex. EU Network of Judicial Registers

- Potential number of bilateral interfaces between 27 member states: 702
  - for just one administrative procedure



# Example: RDFa



- Google announced RDFa and microformats support



# RDFa in UK Gov

The screenshot displays the UK Civil Service Jobs website interface. At the top, the Civil Service logo is visible alongside navigation links for News, Events, Contact us, Accessibility, Login, and Register. A search bar with a 'GO' button is present. Below the logo, a horizontal menu contains links for Civil Service home, About the Civil Service, Networks, Pensions, Cross government business, People, and Jobs. The main content area is divided into a left sidebar with a 'Jobs' menu and a central 'Search Results' section. The search results section includes a note for Civil Servants to register and login, and a 'Search for regional jobs' section with a map link. A large blue banner for 'Gazettes' is overlaid on the right side, featuring the text 'Published By Authority. Official Newspaper of Record for the UK and a modern, efficient way to disseminate and record official, regulatory and legal information in print, online and electronic forms.' and a 'First Time User' button. Below the banner, there is a search archive section with a text input field for 'Enter keyword' and buttons for 'Search' and 'Advanced Search'. The 'Browse Notices' section offers a dropdown menu for 'Select a gazette category' and a 'Go' button. The 'Services' section provides information for Government and Business users, with a 'Business Services' button and a link to 'Honour?'. The date 'Monday, November 03, 2008' is displayed in the top right corner.

CIVIL SERVICE  
8876

News | Events | Contact us | Accessibility | Login | Register

Search  GO

Civil Service home | About the Civil Service | Networks | Pensions | Cross government business | People | Jobs

Jobs FAQs  
Job Search Results  
Jobseeker Profile  
Job-share noticeboard  
Fast Stream  
Undergraduates/Graduates  
Non-Graduates/Direct Entry  
Experienced Professionals  
Professional Entry Routes  
Departments and Accredited NDPBs  
Civil Service Commissioners  
Employee profiles  
Office of the Commissioner for Public Appointments  
Opportunities in Europe  
Nationality Requirements

Search Results

Civil Servants should [register](#) and [login](#) to view Civil Service only vacancies.

Search for regional jobs

Use the map links to search for jobs in the

Monday, November 03, 2008

# Gazettes

Published By Authority. Official Newspaper of Record for the UK and a modern, efficient way to disseminate and record official, regulatory and legal information in print, online and electronic forms.

[First Time User](#)

[Search archive](#)  [Search](#) [Advanced Search](#)

## Browse Notices

Ten issues by notice type - why not [Register?](#)

Select a gazette category

[Go](#)

## Services

For **Government** and **Business** users. Gazette data in [flexible formats](#).

[Business Services](#)

Would you like a memento of your [Honour?](#)





# Meet Linked Data

- Empowering Data
- No need to throw away your existing systems, just build on top
- Metadata are the goal (data mashups)
  - Linking Open Data project
- TimBL talk at TED (slides, video)
  - Raw Data Now!



# ...Not Without Issues

- Mission and Strategy
- Capabilities
- Authoritative Source, Provenance, Trust
- Security
- Integrity
- Persistence
- Licensing Models
- Legacy Systems
- Standardization



# Thanks and Q&A

<http://www.w3.org/2007/eGov/>

<http://www.w3.org/2009/Talks/06-OGD-JA/>

josema@w3.org



# Credits

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