

# Government Data on the Web

# 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?



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?

need to move from ownership to  
stewardship

# Open Government Data

**“Public Sector Information (PSI) in free standard open raw formats and ways that make it accessible to all and allow reuse”**

more specific? ex. see the 8 principles

# EU Ministerial Declaration

The screenshot shows a web page for a public consultation forum. At the top, there is a navigation menu with links: Home, About the open declaration, The timing, How you can collaborate, Who we are, and FAQ. Below this is a blue banner with the title "CO-CREATING AN OPEN DECLARATION ON PUBLIC SERVICES 2.0" and a sub-header: "In November 2009, the EU Ministerial Declaration will spell out the EU e-government policy for the next 3 years. We want to help by building a bottom-up open declaration alongside it." There are links for "Entries RSS" and "Comments RSS" and a search box.

The main content area is titled "Policy recommendations for public services 2.0" and is a "Feedback Forum". It includes a user profile for "Jose M. Alonso" with "Settings", "English" language selection, and "Log out" options. The forum text states: "In November 2009, the EU Ministerial declaration on e-government will be published. We aim to build a bottom-up open declaration alongside it. We are currently in brainstorming mode. We collect and discuss the key recommendations to be made to governments on how to best use the Internet in public services. Post your recommendation here. Deadline 15th July!"

Below the text is a yellow box with the question: "What are the top things EU governments should do in the next 3 years to use the web to transform public services?" and a search input field with a "Search" button.

On the left side, there is a "Participate!" section with links: "Make your proposals here!" (described as an idea-storm platform), "Subscribe to the mailing list", and "Most recent recommendations" (with a link to "invest heavily in usability of").

On the right side, there is a "3 votes left!" section with a "What happens if I let go?" link. Below it is a "Your ideas" list:

- 1 give blogging guidelines
- 1 Benchmark transparency, not service provision
- 1 Crowdsourcing proposal selection for public funding
- 1 Publish all proposed legislation in an accessible web format
- 3 release government data in free, open, standard, readily available, accessible formats

At the bottom right, there is a "Policy recommendations for public services 2.0 activity feed" and a "Contact Support" link.

The main forum content shows two top ideas:

- 85 votes** (3 upvotes): "release government data in free, open, standard, readily available, accessible formats". Description: "Web and technical standards, as tools and proven via best practices, if used, will provide the government with normalized and flexible infrastructure at all levels of technical architecture. The adoption of web standards across all agencies of government will ensure that not only today's needs an... more". 2 comments.
- 31 votes** (1 upvote): "Publish all proposed legislation in an accessible web format". Description: "Ensure people can comment on and suggest improvements to legislation by publishing all legislation a reasonable time in advance in a web format that encourages and enables easy commenting."

<http://eups20.wordpress.com>

# Improving Public Policies

- Inclusion
- Transparency
- Accountability
- Efficiency



# More Benefits

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

# Ex. Facts and Figures

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

# 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

Linked Data

Semantic Web

XML

RDFa

API

RSS/Atom

HTML Scraping






# 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>
---	---	--

### 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

## 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.

This data is subject to change due to late reporting.

308 267 -13 308 267 -13



# Example: DC.gov

CrimeinDC.org

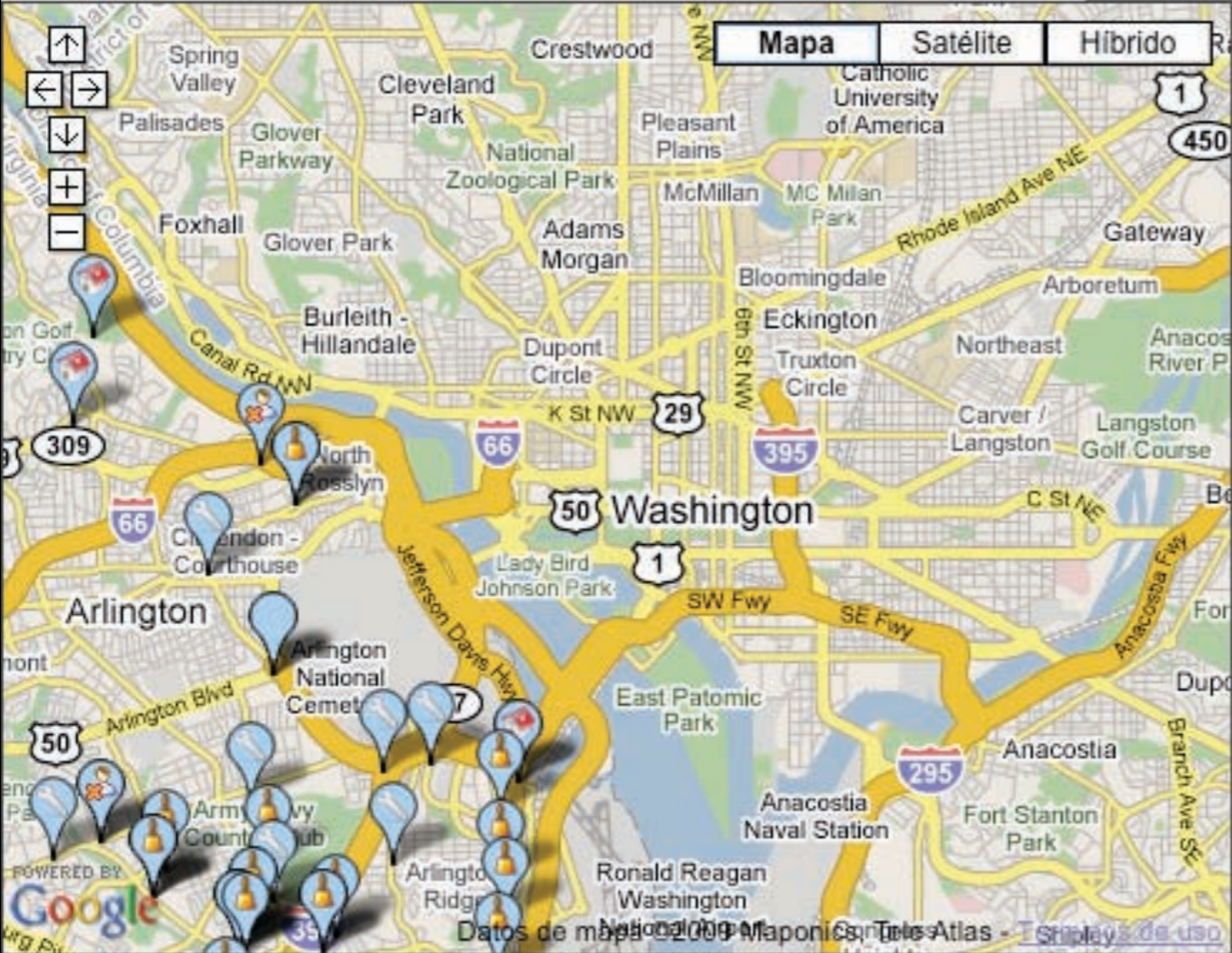
Login »

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

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

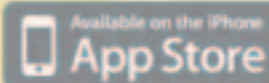
Map | My Maps | Stats | RSS | Hotspots | Register | Legend | About | DC Trivia | Log | Send to friend | Del.icio.us | Privacy



# Example: DC.gov



Now servicing  
*Washington DC*



**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.





# 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.**

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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)

# 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...



# Syndication

Main Page [\[edit\]](#)

## eGovernment Interest Group [\[edit\]](#)

The mission of the eGovernment Interest Group (eGov IG) is to explore how to improve access to government through better use of the Web and achieve better government transparency using open Web standards at any government level (local, state, national and multi-national). The eGov IG is designed as a forum to support researchers, developers, solution providers, and users of government services that use the Web as the delivery channel, and enable broader collaboration across eGov practitioners.

Find more in the [executive summary](#). Learn more about [eGovernment at W3C](#).

## Current Activities

- [Improving Access to Government through Better Use of the Web \(Group Note\)](#) released on May 12, 2009
  - also [available](#) in StratML format
- Group has just started discussing [2nd charter](#)
- Also the rough draft of a [data.gov.\\* memo](#)
- [Activity Plan](#): needs update when 2nd charter ready
- [Use Cases](#): index of use cases
- Task Forces
  - [Editorial Task Force](#)
- [Related Initiatives](#): Related external initiatives
- [Bibliography](#): Reports, books and documents of interest
- [Existing Stuff](#): Material produced somewhere else that could be of help (e.g.

[\[edit\]](#)

### Group Updates

Available RSS/Atom feeds:

- eGov News at W3C ([RSS](#), [Atom](#))
- Latest messages to the mailing list ([RSS](#))
- Latest changes to the wiki ([RSS/Atom](#))
- Latest eGov News at W3C ([RSS/Atom](#))
- Open Issues ([RSS](#))
- Open Actions ([RSS](#))
- #w3cegov Twitter search ([Atom](#))

nearby

- [eGovernment at W3C](#)
- [eGovernment Interest Group](#)
- [Latest News](#)
- [Executive Summary](#)
- [FAQ](#)
- [Charter](#)
- [Participants](#)
- [Get Involved](#)
- [e-Mail Archive](#)
- [Tracker](#)
- [Status](#)

navigation

- [Recent changes](#)
- [Help](#)

search

# Syndication

The image shows a screenshot of a LinkedIn group page for the "W3C eGovernment Interest Group". The page layout includes a top navigation bar with "LinkedIn" and menu items like "People", "Jobs", "Answers", and "Companies". A search bar is present with the text "Explore People Search: Engineer at IBM - Internet - Senior Consultant". The left sidebar contains navigation options such as "Home", "Groups", "Profile", "Contacts", "Inbox (2)", and "Applications". The main content area is titled "W3C eGovernment Interest Group" and features tabs for "Overview", "Discussions", "News", "Jobs", "Subgroups", and "More". A "Featured Discussion" titled "Welcome and what's this group for" by Jose Manuel Alonso is visible. The "News" section, highlighted with a red rounded rectangle, lists three articles: "Editorial Task Force Formed", "Putting Government Data Online", and "Draft Charter 2 Under Discussion", all dated June 25, 2009. On the right side, there is an "Activity: Last 7 Days" section showing "1 New discussion" and "3 New news articles", and an "Updates: Last 7 Days" section at the bottom.



# Syndication

W3C eGovernment Interest Group

**About** [Compartir](#)

This dashboard helps to keep track of the online discussions about activities of the **W3C eGovernment Interest Group** and show the Group's ongoing activities. The mission of the Group is to improve access to government through better use of the Web. The Group uses the #w3cegov tag.

**W3C eGovernment Interest Group** [Compartir](#)

**W3C** Web: <http://www.w3.org/2007/eGov/IG/>  
Tag: w3cegov  
Twitter: #w3cegov

**Calendar** [Compartir](#)

**Wednesday, July 8**  
2:00pm eGov IG Group Call

**Tuesday, July 14**  
ETF to deliver Charter 2

**Wednesday, July 15**  
4:00pm eGov IG Chairs Call

**Wednesday, July 22**  
2:00pm eGov IG Group Call

**Wednesday, July 29**  
4:00pm eGov IG Chairs Call

**Wednesday, August 5**  
2:00pm eGov IG Group Call

Events shown in time zone: London

**eGovernment News at W3C** [Compartir](#)

- Editorial Task Force Formed - Hace 1 semana
- Putting Government Data Online - Hace 1 semana
- Draft Charter 2 Under Discussion - Hace 1 semana
- "Idea" submitted to the US Open Government Dialogue - Hace 1 mes

sig. ➔

**public-egov-ig@w3.org Mail Archives** [Compartir](#)

- "charter 2 - chairs" edits done, time for ETF to take over" ( message in thread) - Hace 2 dias
- "[minutes] eGov IG Chars Call - 1 July 2009" ( message in thread) - Hace 3 dias

**#w3cegov - Twitter Search** [Compartir](#)

- @rachelflagg #w3cegov charter 2 ready for ETF to take over, eager to see the improvements! :) <http://bit.ly/s6qha> - ayer
- RT @vera\_newhouse: When did this happen?? Vivek Kundra Takes Your Questions <http://bit.ly/Umfo7> #w3cegov - ayer
- #w3cegov version 2 of charter now posted on the wiki...glad to be making progress <http://bit.ly/1lz1Vi> - ayer
- ok, all changes up, giving it a last pass, will leave some comments in there for ETF #w3cegov - ayer
- XHTML 2 WG is dead, HTML5 has the green light. <http://www.w3.org/News/2009#item119> #w3cegov - ayer
- @novakkevin you mention "second year" but we are re-chartering #w3cegov for two years, should we say "second phase"? - ayer
- RT @w3c:Data in the City <http://shortna.me/a0f7c> #w3cegov - ayer
- RT @informationweek: U.S. To Release \$4 Billion For Broadband <http://tinyurl.com/lo84vm> #w3c #w3cegov #gov20 #broadband - ayer
- Less than 48 hours left to draft #opengov Recommendations on the #whitehouse #OSTP Wiki, please contribute... #w3cegov <http://bit.ly/V5OPZ> - ayer
- edited #w3cegov charter(comments and feedback), @josemalonso to wikify it thurs. and turn it over to @rachelflagg and the ERB <http://bit.ly/...> - Hace 2 dias

sig. ➔

**W3C eGovernment Interest Group -- Open** [Compartir](#)

Sin items en el canal.

**W3C eGov IG -- Open Actions** [Compartir](#)

**ACTION-73**  
Ask again for speaking points and Qs to Vera/Karen

**ACTION-72**  
Send draft proposal to vera

**ACTION-71 - Hace 3 dias**  
Try get RDFa Gov use cases on TPAC agenda

sig. ➔

**eGov IG Wiki - Recent changes** [Compartir](#)

**Main Page** - ayer

**EditorialTF** - ayer  
Operating Procedures:

**Charter2** - ayer  
Activity Plan and Tactics:

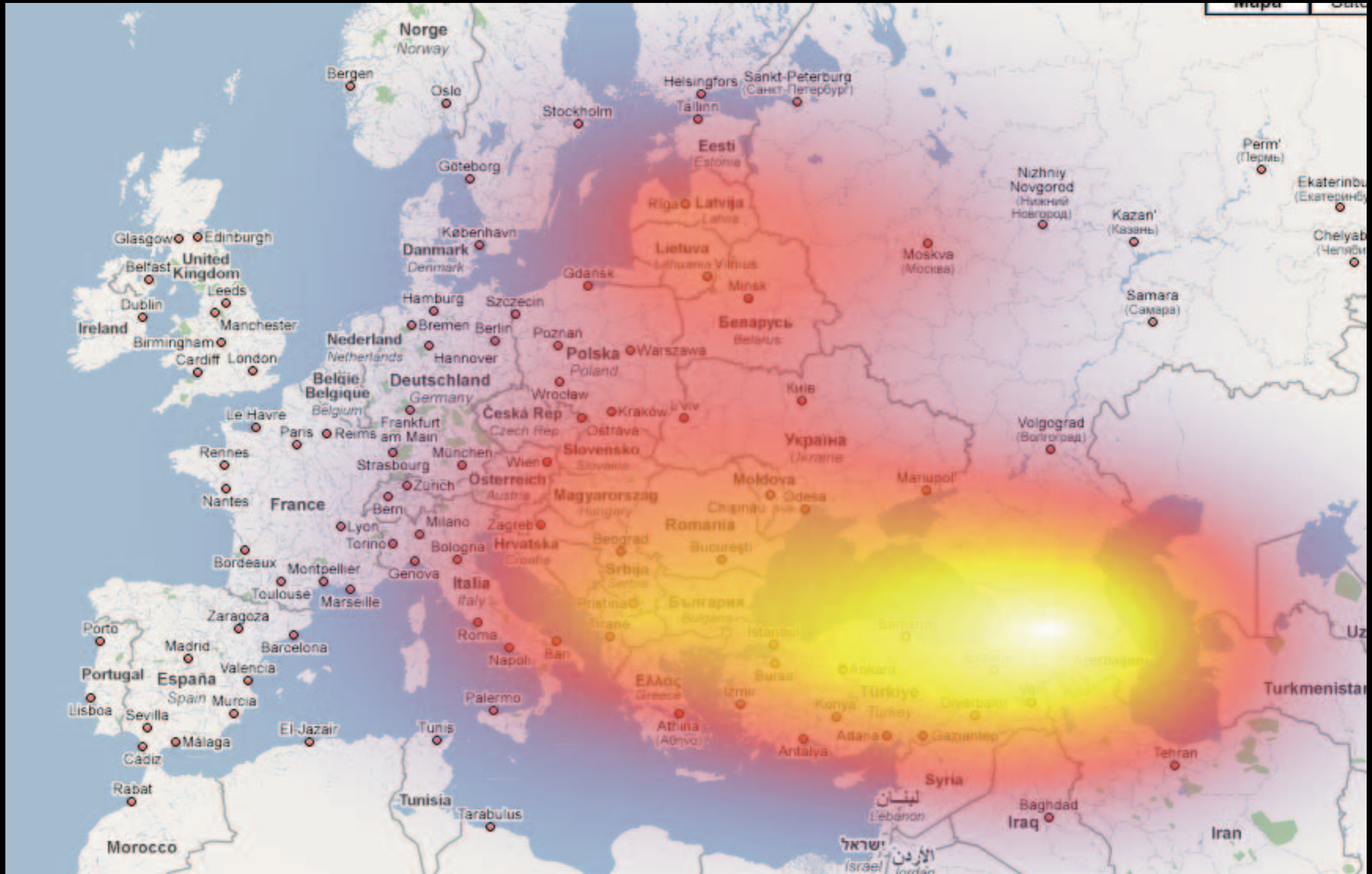
sig. ➔

# Mapumental

The screenshot displays the Mapumental website interface. At the top left, the logo "Mapumental" is visible. Below it, there are three filter sliders: "Public transport arriving at 9:00" (with a sub-label "Departing at 8:30"), "House price (average)" (with a sub-label "£150,000 or less"), and "Scenicness" (with a sub-label "Score 1"). The main map area shows a detailed view of Cardiff, Wales, with various neighborhoods and landmarks labeled, including University Park, John Radcliffe Hospital, and Cardiff International Airport. The map is overlaid with a semi-transparent blue layer representing the selected filters. At the bottom, there is a search bar with the text "New map? GB postcode:" and a "Go" button, followed by the coordinates "(CF10 2EE | CF5 1QP)". On the right side of the bottom bar, there is a link to "Help" and the "mysociety." logo.



# New office in EMEA?







# RDFa in UK Gov

The image shows a screenshot of the UK Civil Service Jobs website. At the top, the Civil Service logo is visible, along with navigation links for News, Events, Contact us, Accessibility, Login, and Register. A search bar is present with a 'GO' button. Below the navigation bar, there are tabs 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 various job search options (e.g., Job Search Results, Jobs FAQ's, Undergraduates/Graduates) and a central search results section. The search results section includes a 'Search Results' header, a note about registration for Civil Servants, and a 'Search for regional jobs' section. A large blue banner for 'Gazettes' is overlaid on the right side of the page, 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 search bar and buttons for 'Search' and 'Advanced Search'. The bottom of the page features sections for 'Browse Notices' and 'Services'.

**CIVIL SERVICE**  
6876

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

Search  **GO**

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

Jobs FAQ's  
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**

**The London Gazette**

Change edition: [Edinburgh](#) / [Belfast](#)

**Home**

**About the Gazette**

**Browse**

**Search Tools**

**My Account**

**My Notices**

**Services**

**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?](#)

# Cruzar (CTIC/Zaragoza)



TOURISM

zaragoza.es / Turismo

Tourist Services

- What to visit
- Guided Visit
- The Conference City
- Zaragoza Diary
- Useful Saragossa
- Area of Professionals
- Of interest
- Photo Gallery
- Send a Postcard
- Quality

THE CITY COUNCIL FOR PEOPLE THE CITY

## PLANNING YOUR VISIT

This form will help you to find a selection of tourist resources that suit you perfectly. To that end, we need you to provide us with some information about your tastes and your trip. Please fill in the following form. Only the dates of your stay are obligatory, the rest of the questions are optional

### Purpose of your stay

- Work
- Tourism
- Conference
- Rest time

### Company

- Individual trip
- I travel with my partner
- I travel in group
- With children

### Preferences

- I like art
- I like architecture
- I like shopping

### More options

- Are there any disabled members of your group?

### Days of visit

June 2008						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
6	7	8	9	10	11	12

### Accommodation

Hotel:

\* If hotel is not found, routes will begin from the Plaza de la Seo

>> Do you want more personalization options?

Create route Clean the form

© Ayuntamiento de Zaragoza | webmunicipal@zaragoza.es | Site Map | Member of W3C | XHTML 1.0 | CSS 2.0 | Accesibility



# Cruzar (CTIC/Zaragoza)

## Zaragoza street plan

### Tourist site

#### BASILICA OF THE PILAR



Full accessibility

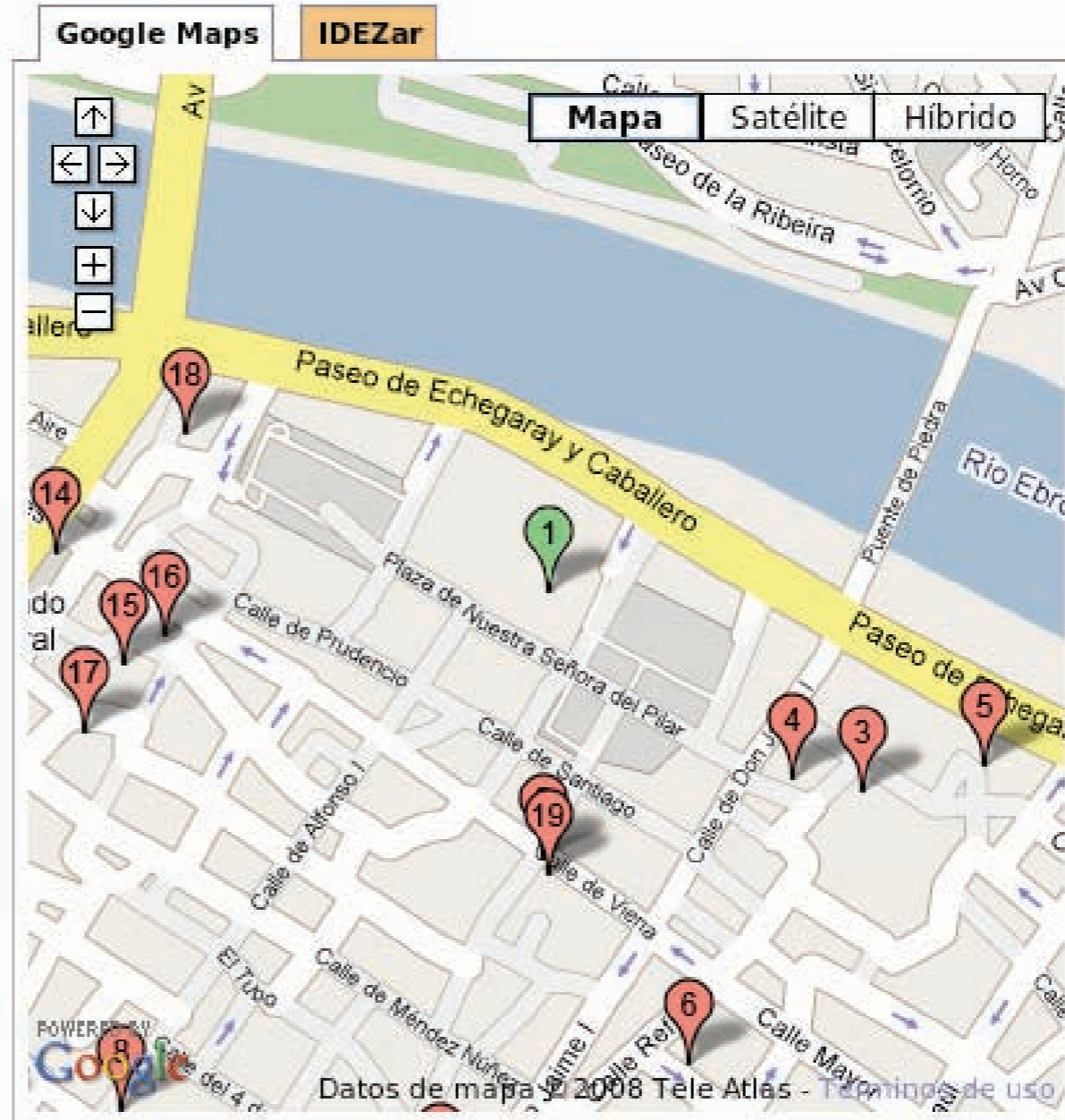
The construction of the current Basilica of the Pilar is closely linked to the increase in devotion to the Pilar throughout the 17th century. The previous Gothic-Mudejar building was not big...

[Know more...](#)

It doesn't interest me

At another time

Why are you recommending it?



W3C RDF | Export to KML

# Meet Linked Data

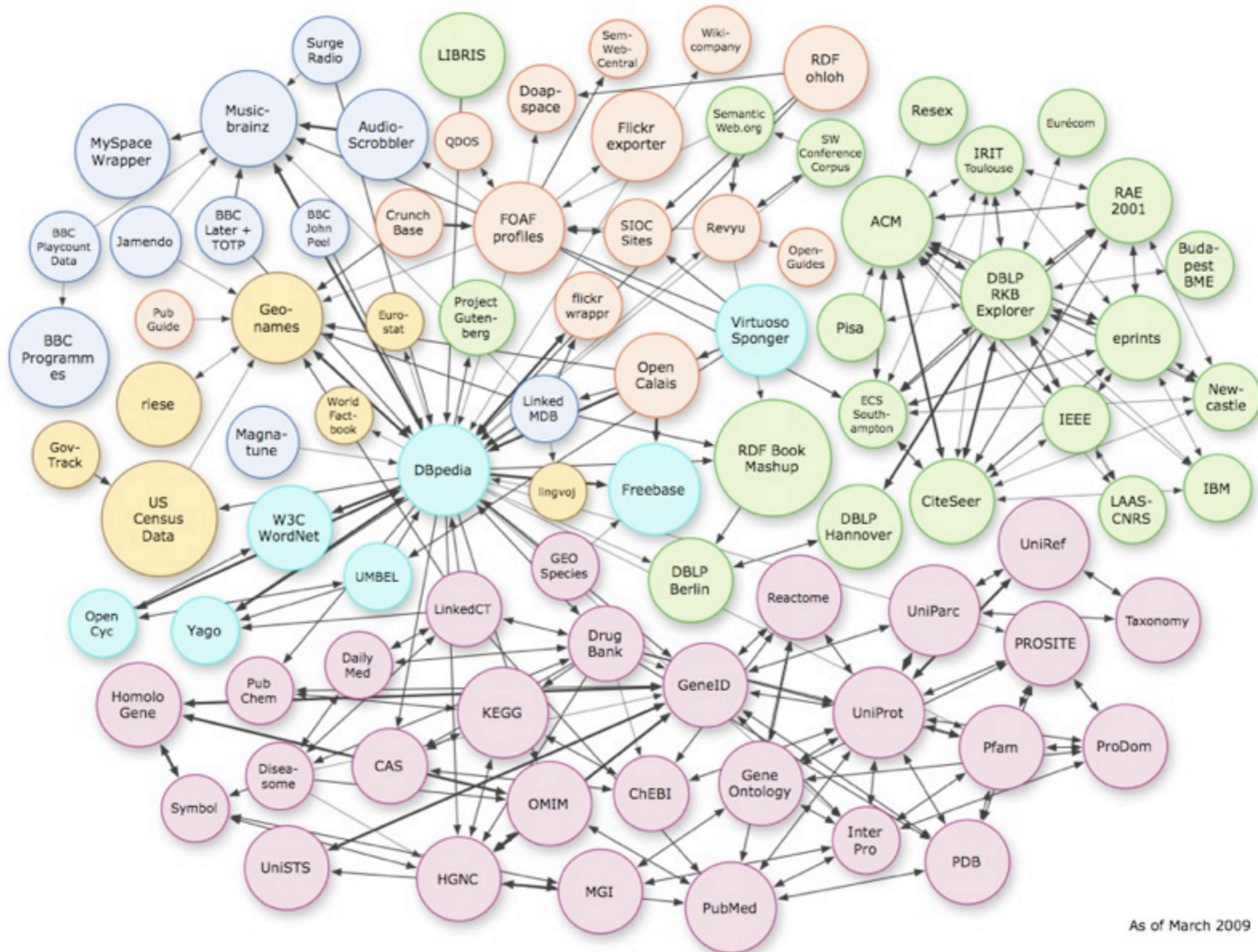
1. Use URIs as names for things
2. Use HTTP URIs so that people can look up those names
3. When someone looks up a URI, provide useful information
4. Include links to other URIs, so that they can discover more things

# More on Linked Data

- Empowering Data
- Can be built on top of existing systems
- Metadata are the goal (data mashups)
  - Linking Open Data project
- TimBL talk at TED (slides, video)
  - Raw Data Now!
  - Putting Government Data Online



# Linked Data Cloud



# Challenges

- 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/0707-BCN-JA/>

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