

Innovations in Data Access, Dissemination and Visualization

**Association of Public Data Users Conference
September 21, 2010
Washington, DC**

**Sanjeev “Sonny” Bhagowalia
Deputy Associate Administrator
Office of Citizen Services and Innovative Technologies
U.S. General Services Administration**



The President's Innovation Agenda* defines the building blocks of innovation



- Open Government

+

- Partnerships
- Entrepreneurship
- Prizes, Challenges, and Grants
- Idea Generation
- Innovative Science & Technology
- Creative Funding Strategies
- Promoting Competitive Markets

* "A Strategy for American Innovation", published Sept 2009

SAGE
STRATEGIC ADVISORS TO
GOVERNMENT EXECUTIVES

FEDERAL ROADMAP

CIO



PARTNERSHIP FOR PUBLIC SERVICE



Touchstone.

FEDERAL CIO ROADMAP

"...we need to embrace new technologies that are going to change the way we serve our constituents and at the same time ensure that the federal government operates in an efficient way."

— Vivek Kundra
U.S. Chief Information Officer

Mission Statement

Leverage the power of technology to drive transformation, increasing agency effectiveness, efficiency and performance.

ADMINISTRATION GOALS FOR AGENCY CIOs

- **Goal 1**
Effectively Manage IT Investments
- **Goal 2**
Improve Efficiency and Effectiveness Through Innovation and Information Technology
- **Goal 3**
Enable Openness, Transparency and Participation
- **Goal 4**
Advance Information Security Postures
- **Goal 5**
Develop and Maintain a Skilled Federal IT Workforce

THE CIO'S LEGAL AND POLICY RESPONSIBILITIES

The federal CIO operates under a different environment than their private-sector counterparts and must abide by statutory and regulatory requirements unique to the federal government.

Legal requirements for CIOs address:

- Strategic management;
- Security and privacy; and
- Information policy.

Policy requirements are laid out in public law, Executive Orders, OMB Circulars and other government-wide policy.

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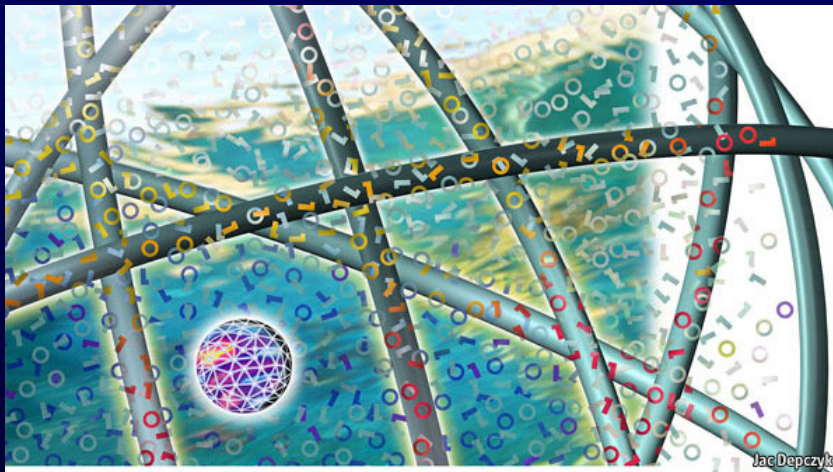
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Source: <http://www.cio.gov>

Context: The Industrial Revolution of data is here

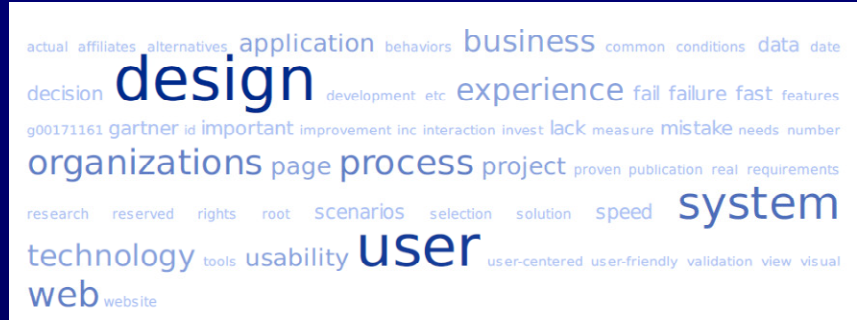
*“Data is the flint for
for the next 25 years.”*

Ray Ozzie
Chief Software Architect
Microsoft

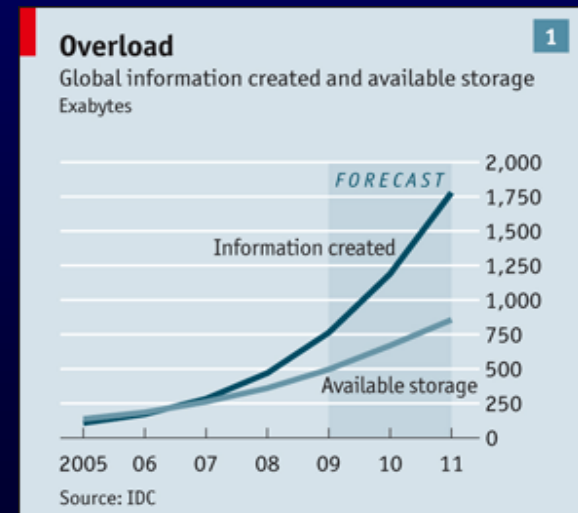


Plus: the data is replicated many times over!

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Volume of digital information
increases tenfold every 5 years



Context: Moving information and knowledge to the user



Agency CFO

"I need financial and corporate performance management"

Program Manager

"I need status reports — and I need them now"



IT Operations

"I need performance and availability reporting"



Strategic Planner

"I need analytics and predictive models"

Customer Relationship Manager

"I need a single constituent view"



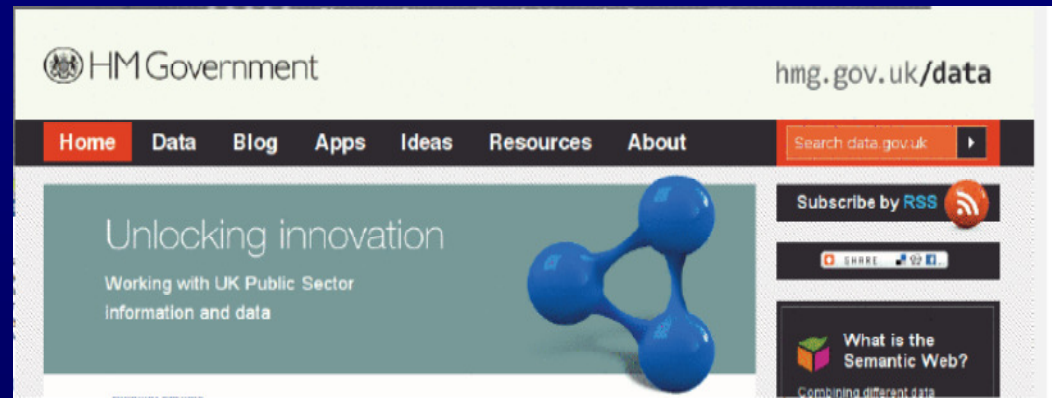
Business Process Analyst
"I need data mining and OLAP"



Elected Officials
"The media wants to know how our response time has changed"



..... And to the public



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Decline of the info producer vs. consumer paradigm

Context: Maximum sharing and flow of information and knowledge

As big an issue *outside* your organization as *within* it

- YouTube is now **second largest search engine** in the world
- 1.5 million pieces of content shared **daily** on Facebook
- On-line newspaper readers are **up 30%**
- 250 million visitors **each month** to Myspace, YouTube, and Facebook (*none were around 6 years ago*)
- Mobile devices will be world's primary connection tool to the Internet in **2020**

The Open Government Initiative



Transparency promotes accountability

Participation allows people to contribute ideas/expertise; government benefits from broad knowledge sharing

Collaboration encourages cooperation within government and with industry

Leading practices for OGD plans

- Leadership, Governance, & Culture Change
- Transparency
- Participation & Collaboration
- Flagship Initiatives



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DISCOVER.
PARTICIPATE.
ENGAGE.

Search the following Data.gov catalogs:



FEATURED TOOL:

BUREAU OF TRANSPORTATION STATISTICS
Airline On-Time Performance and Causes of Flight Delays

The Airline On-Time Performance and Causes of Flight Delays table contains on-time arrival data for non-stop domestic flights by major air carriers, and provides such additional items as departure and arrival delays, origin and destination airports, flight numbers, scheduled and actual departure and arrival times, cancelled or diverted flights, taxi out and taxi in times, air time, and non-stop distance.

[VIEW THIS TOOL](#)



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 the Federal Government. Although the initial launch of Data.gov provides a limited portion of the rich variety of Federal datasets presently available, we invite you to actively participate in shaping the future of Data.gov by suggesting additional datasets and site enhancements to provide seamless access and use of your Federal data. Visit today with us, but come back often. With your help,

How to use Data.gov

Data.gov includes searchable [data catalogs](#) providing access to data in three ways: through the "raw" data catalog, the tool catalog and the geodata catalog. Please note that by accessing datasets or tools offered on Data.gov, you agree to the [Data Policy](#), which you should read before accessing any dataset or tool. If there are additional datasets that you would like to see included on this site, please [click here](#). For more information on how to use Data.gov, [view our tutorial](#).



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HAPPY
1ST ANNIVERSARY
DATA.GOV

47 → 272,677

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Most Popular Datasets

1. Worldwide M+ Earthquakes, Past 7 Days
2. U.S. Overseas Loans and Grants (Greenbook)
3. IT Dashboard - Federal IT Spending (major...
4. IT Dashboard - Federal IT Spending (all...
5. Latest Volumes of Foreign Relations of the...

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Search our catalogs...

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APPS



With so much government data to work with, developers are creating a wide variety of applications, mashups, and visualizations. From crime statistics by neighborhood to the best towns to find a job to seeing the environmental health of your community—these applications arm citizens with the information they need to make decisions every day. Enjoy these highlights of the hundreds of applications available.

[READ MORE](#)

COMMUNITY

Data.gov is leading the way in democratizing public sector data and driving innovation. The data is being surfaced from many locations making the Government data stores available to researchers to perform their own analysis. Developers are finding good uses for the datasets, providing interesting and useful applications that allow for new views and public analysis. This is a work in progress, but this movement is spreading to cities, states, and other countries. After just one year a community is born around open government data.

Just look at the numbers:

6 Other nations establishing open data
8 States now offering data sites
8 Cities in America with open data
236 New applications from Data.gov datasets
253 Data contacts in Federal Agencies
272,677 Datasets available on Data.gov

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SEMANTIC WEB

As the Web of linked documents evolves to include the Web of linked data, we're working to maximize the potential of Semantic Web technologies to realize the promise of Linked Open Government Data.



Thanks to our collaboration with the **Tetherless World Constellation** at the **Rensselaer Polytechnic Institute**, Data.gov is now hosting one of the largest open collections of RDF datasets in the world! Check out some of their semantic mashups **we're featuring** and read our blog entry to learn more about where we are, where we're going, and why we think this platform will add tremendous value to democratized data.

[READ MORE](#)

May 21, 2009

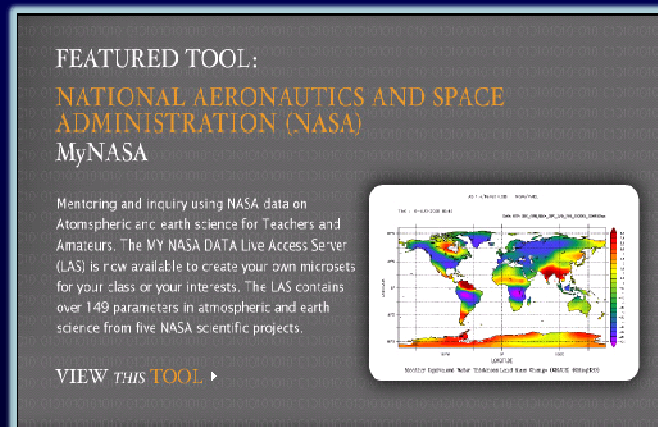
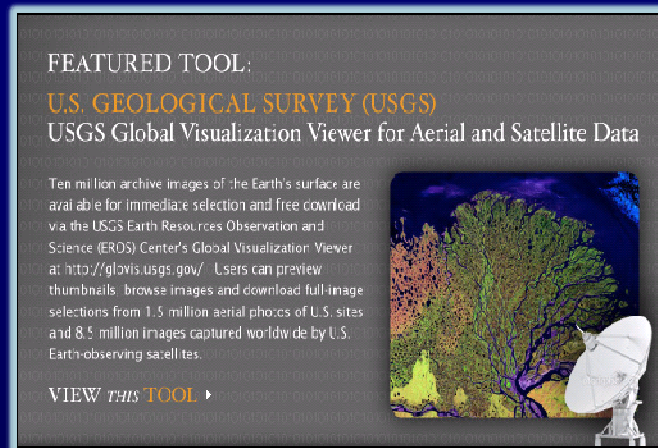
May 21, 2010

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Data.gov – Think Big, Start Small, Act Quick and Keep Innovating.....

Data.gov Quick Facts	Launch: May 21, 2009	1 Year Anniversary: May 21, 2010
Total datasets available	47	272,768
Hits to Data.gov	2.1 million	97.6 million
Applications and mash-ups developed by citizens	0	237
RDF triples for semantic applications	0	6.4 billion
Dataset downloads	0	652,412
Nations establishing open data sites	0	7
States offering open data sites	0	8
Cities in North America with open data sites	0	8
Open data contact in Federal agencies	24	253

Goals of Data.gov



- **Break down stovepipes** to increase access to data
- **Instant access:** downloadable data only one click away
- **Data that can be manipulated** and mashed-up
- **Encourage development of innovative applications**
- **Tools and Widgets that provide access** to complex data stores

Data.gov for the Economy – A Vision

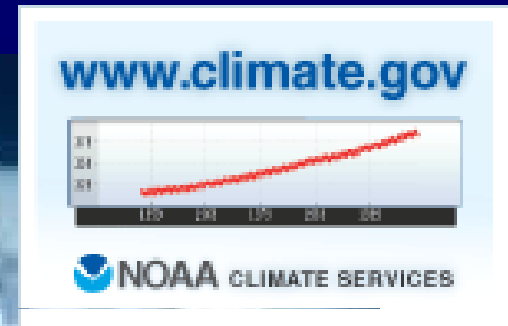


NOAA's data has helped build many weather-related businesses:

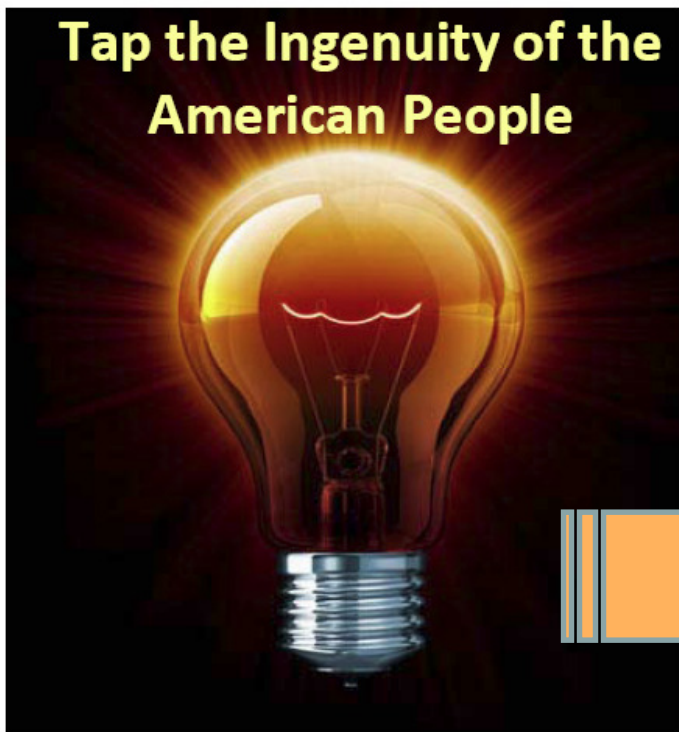
- TV and radio weather forecasting
- The Weather Channel
- Weather.com

Data.gov's opportunities for the private sector are limitless

Together we can provide data to contribute to help rebuild the economy



Tap the Ingenuity of the American People



Tapping the Ingenuity of the American Public

- ◆ The Federal Government does not have a monopoly on good ideas
- ◆ Access to Information unleashes creativity
- ◆ Innovation drives sustainability



DATA.GOV
Citizen-Centered, Results Driven Government

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We Need You!

Tapping the Ingenuity of the American Public

When the Department of Defense released its satellite data... the public created affordable GPS devices!



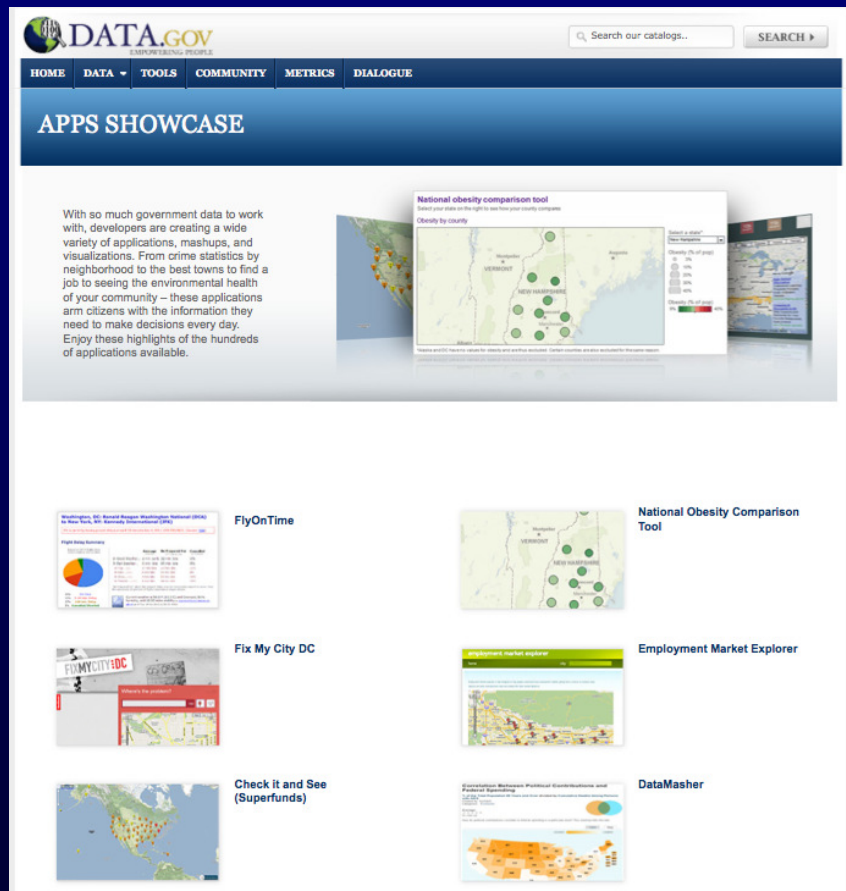
Tapping the Ingenuity of the American Public

Fly On Time

- Using Dept. of Transportation data, FlyOnTime.us lets people find the most on-time flights and shortest security-line wait times.
- Integrated to Twitter



Tapping the Ingenuity of the American Public



- Since Data.gov's launch last year, **237 applications** have been developed by citizens and others to create value from the raw data.

The world is eager for our data!

LINKING OPEN GOVERNMENT DATA

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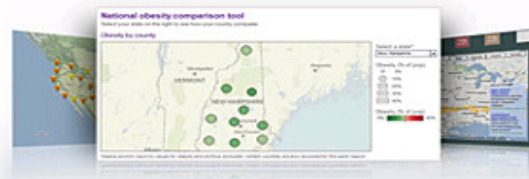
Most Popular Datasets

1. U.S. Overseas Loans and Grants (Greenbook)
2. Worldwide M1+ Earthquakes, Past 7 Days
3. US Topo 7.5-minute map for Imperial, TX
4. Latest Volumes of Foreign Relations of the...
5. Veterans Affairs Geographic Distribution of...

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APPS



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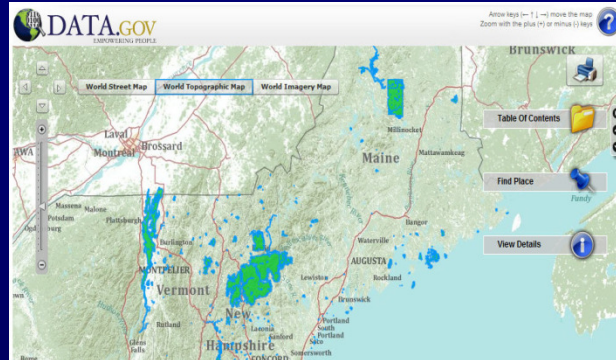


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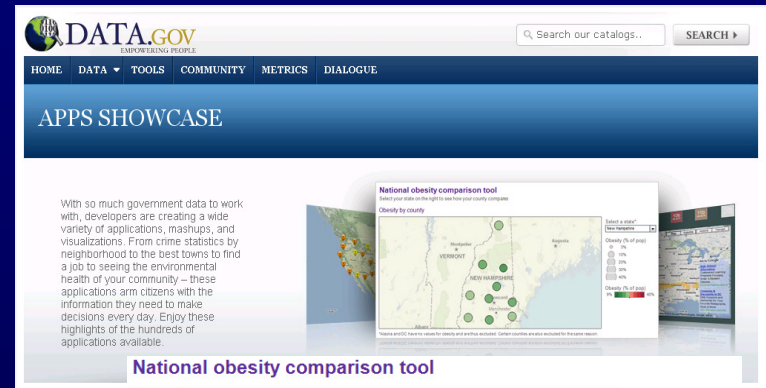
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New Features

New GEO Viewer lets users preview geospatial data.

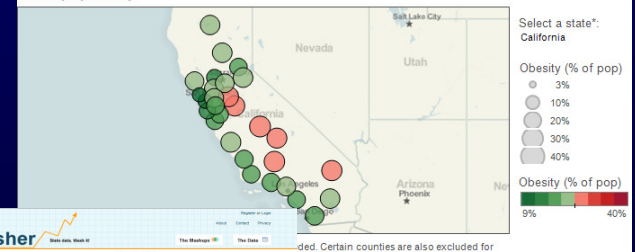


More User Apps from Agency Data



National obesity comparison tool

Obesity by county



Expanding the Semantic Web: Data.gov will allow citizens and developers to work with the government to create a new generation of “linked data” mashups.



Semantic Technologies



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IMPROVING PEOPLE

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SEMANTIC WEB

As the Semantic Web (sometimes called **Web 3.0**) emerges, the US government is pleased to be in the vanguard of this new technology space. To this end, Data.gov is hosting demonstrations and documents that will help familiarize Data.gov users with this new technology, and that will let citizens and developers work with the government in creating a new generation of "linked data" mash ups.

Data.gov now hosts a set of Resource Description Framework (**RDF**) documents containing triples created by converting a number of the Data.gov datasets into this format, making over 6.4 billion triples of open government data available to the community. An index of all the RDF documents on Data.gov is [here](#).

The URI scheme chosen is a very simple one for the time being, designed to allow users to easily explore and extend the data. A proposal is being developed with **RPI**, one of the Data.gov community leaders, for a new encoding of datasets converted from CSV (and other formats) to RDF. We're looking forward to a design discussion to determine the best scheme for persistent and dereferenceable government URI naming with the international community and the **World Wide Web Consortium** to promote international standards for persistent government data (and metadata) on the World Wide Web.

Rensselaer
why not change the world?™

Innovations at RPI

Running on Data.gov are a set of government-related demonstrations, originally created by a **team of developers** at the **Tetherless World Constellation at Rensselaer Polytechnic Institute (RPI)**, which show how these RDF datasets can be used to build interactive visualizations using various popular visualization APIs. You can run the demonstrations here, served by our **SPARQL endpoint** that is powered by the **Virtuoso** linked data server. These demonstrations are also linked to pages at RPI that explain how they function and provide examples that you can cut and paste to build your own demos.

Clean Air Status and Trends Network (CASTNET)

This map shows the ozone levels across the U.S. Clicking on a dot brings up detailed information about the ozone measurements for that area over time. The ozone values shown are taken from **dataset 8**, "Clean Air Status and Trends Network (CASTNET): Ozone" released by the Environmental Protection Agency. The faceted browsing in this demo uses the **Exhibit framework** developed by the Simile Project at MIT.

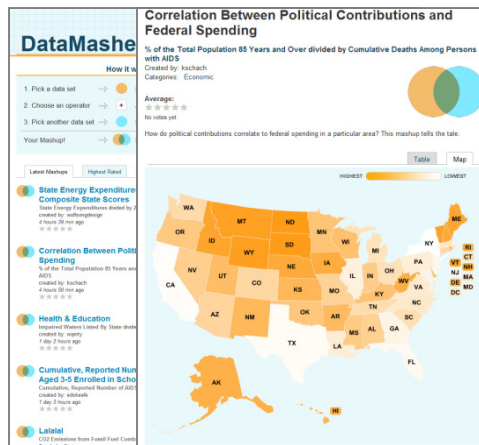
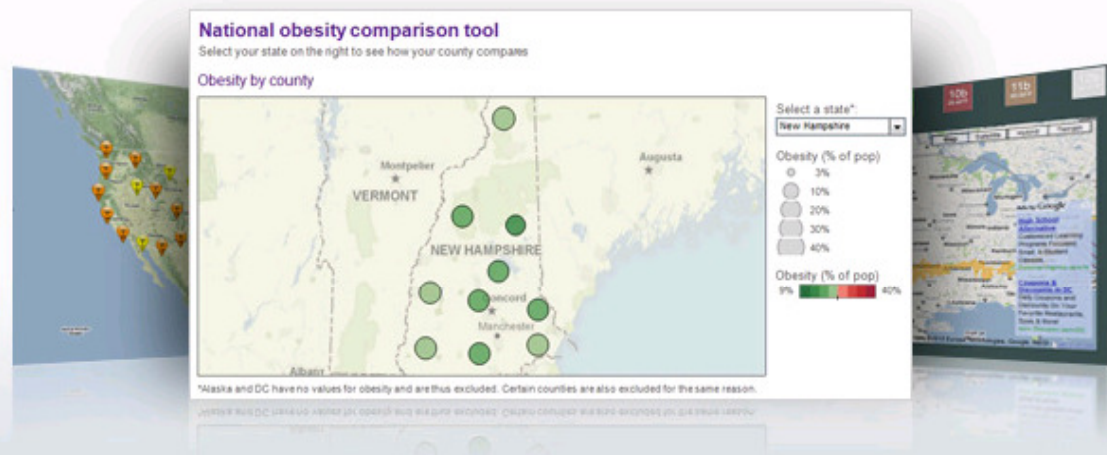
Public Company Bankruptcy Cases Opened and Monitored for Fiscal Year 2009

This demonstration shows public company bankruptcies for fiscal year 2009 based on **dataset 1580** released by the Securities and Exchange Commission. The map shows the ratio of total debt over assets from all bankrupt cases at each state level. Clicking on a state displays details of those public companies that filed bankruptcies within this state, e.g. the company name, assets, and liabilities.

- Provides developers the tools and raw data formats they need to develop new capabilities
- Close partnership with Rensselaer Polytechnic Institute
- Connected to other open data efforts across the world

APPS SHOWCASE

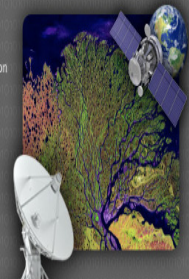
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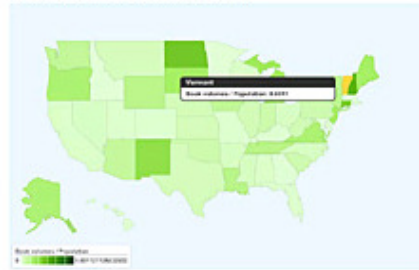
FEATURED TOOL:
U.S. GEOLOGICAL SURVEY (USGS)
USGS Global Visualization Viewer for Aerial and Satellite Data

Ten million archive images of the Earth's surface are available for immediate selection and free download via the USGS Earth Resources Observation and Science (EROS) Center's Global Visualization Viewer. Users can preview thumbnails, browse images and download full-image selections from 1.5 million aerial photos of U.S. sites and 8.5 million images captured worldwide by U.S. Earth-observing satellites.

VIEW [THIS TOOL](#) ►

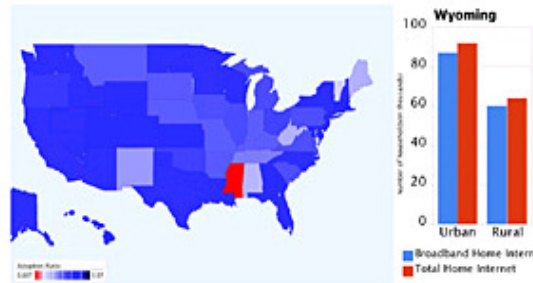


State Library Agency Survey Fiscal Year 2006



State Library Agency Survey: Fiscal Year 2006

This demonstration displays the ratio of the number of book volumes (available per state and aggregated over all public libraries) to the population of that state. This data comes from **dataset 353** released by the Institute of Museum and Library Services.



Broadband Adoption Urban Vs Rural in 2009

This demo shows the percentage of households in each state with broadband Internet access, out of the total number of (urban and rural) households with home Internet access. The percentage is computed by urban home broadband + rural home broadband / urban home total + urban home total.



US Global Aid

This application presents historical foreign aid data (ranging from 1951 to 2008) from three branches of the US Government: the United States Agency for International Development (USAID), the Department of Agriculture and the Department of State. Users may retrieve foreign aid data for specific countries by clicking on the provided world map (shaded based on total foreign aid received). Upon clicking on a desired country, three kinds of information are presented: Aid Figures, News Articles (retrieved through the New York Times Article Search API), and the CIA World Fact book. This mashup is hosted at RPI.

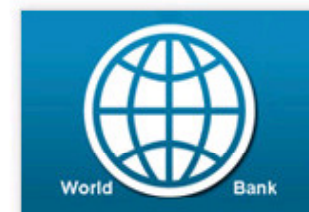


White House Visitor Search

This demonstration lets users search visitors and visitees of the White House. The top 100 most frequently visited people in the White House are listed. This mashup is hosted at RPI.

COMMUNITY

Data.gov is leading the way in democratizing public sector data and driving innovation. This movement has spread throughout cities, states, and countries.



- Data.gov has launched a global community of nations, states, counties and municipalities that are delivering open data to the public.
- Eight countries have versions of open data platforms and more are coming.



Context: Search analytics is alive!



Less time looking for information and then analyzing it

Structured searches tied to trusted and well-indexed government web sites



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Data exhaust – trail of clicks that users leave behind, where value can be created using algorithms that push more relevant search terms to top of lists

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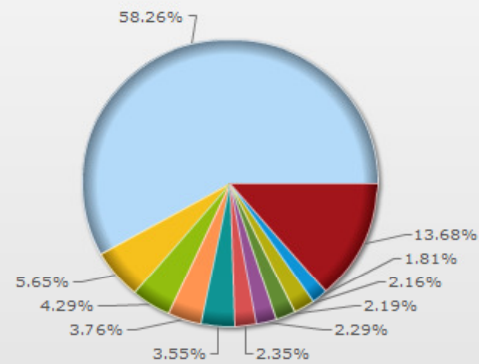
FEDERAL AGENCY

SUGGESTED DATASETS

VISITOR STATS

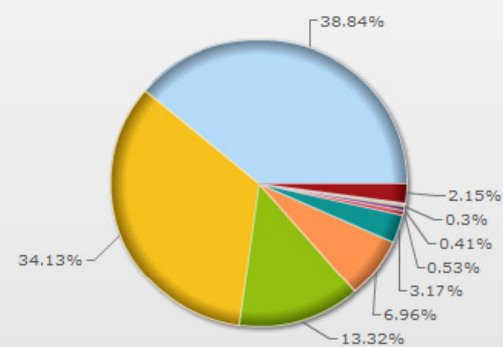
Data.gov Datasets by Category

Raw Data & Tools by Category



Geography and Environment	2,184
National Security and Veterans Affairs	212
Health and Nutrition	161
Federal Government Finances and Employment	141
Labor Force, Employment, and Earnings	133
Information and Communications	88
Social Insurance and Human Services	86
Science and Technology	82
Energy and Utilities	81
Business Enterprise	68
Others	513

GeoData by Category



Imagery and Base Maps	108,189
Administrative and Political Boundaries	95,069
Transportation Networks	37,101
Inland Water Resources	19,389
Facilities and Structures	8,838
Environment and Conservation	1,471
Elevation and Derived Products	1,145
Oceans and Estuaries	841
Atmospheric and Climatic	391
Biology and Ecology	134
Others	5,991


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FEDERAL AGENCY

SUGGESTED DATASETS

VISITOR STATS

Data Downloads by Data Category (August 2010)

These numbers represent the number of times a user has clicked on the "XML" or "CSV" (for example) links in the Raw Data Catalogs to download datasets and user downloads of tools in the Tool Catalog available in these categories.

Data Category	Raw Data Catalog	Tool Catalog	Total
Agriculture	567	560	1,127
Arts, Recreation, and Travel	164	27	191
Banking, Finance, and Insurance	1,064	109	1,173
Births, Deaths, Marriages, and Divorces	0	63	63
Business Enterprise	637	633	1,270
Construction and Housing	248	262	510
Education	196	702	898
Elections	648	19	667
Energy and Utilities	1,028	122	1,150
Federal Government Finances and Employment	2,882	253	3,135
Foreign Commerce and Aid	936	83	1,019
Geography and Environment	20,712	3,155	23,867
Health and Nutrition	3,774	4,448	8,222
Income, Expenditures, Poverty, and Wealth	525	129	654
Information and Communications	1,218	767	1,985
International Statistics	217	62	279
Labor Force, Employment, and Earnings	2,829	238	3,067
Law Enforcement, Courts, and Prisons	1,270	72	1,342
National Security and Veterans Affairs	281	2,999	3,280
Natural Resources	167	0	167
Other	4,913	870	5,783
Population	1,921	1,071	2,992
Prices	148	0	148
Science and Technology	919	926	1,845
Social Insurance and Human Services	3,442	251	3,693
State and Local Government Finances and Employment	41	54	95
Transportation	833	733	1,566
Wholesale and Retail Trade	40	386	426
Grand Total	51,620	18,994	70,614



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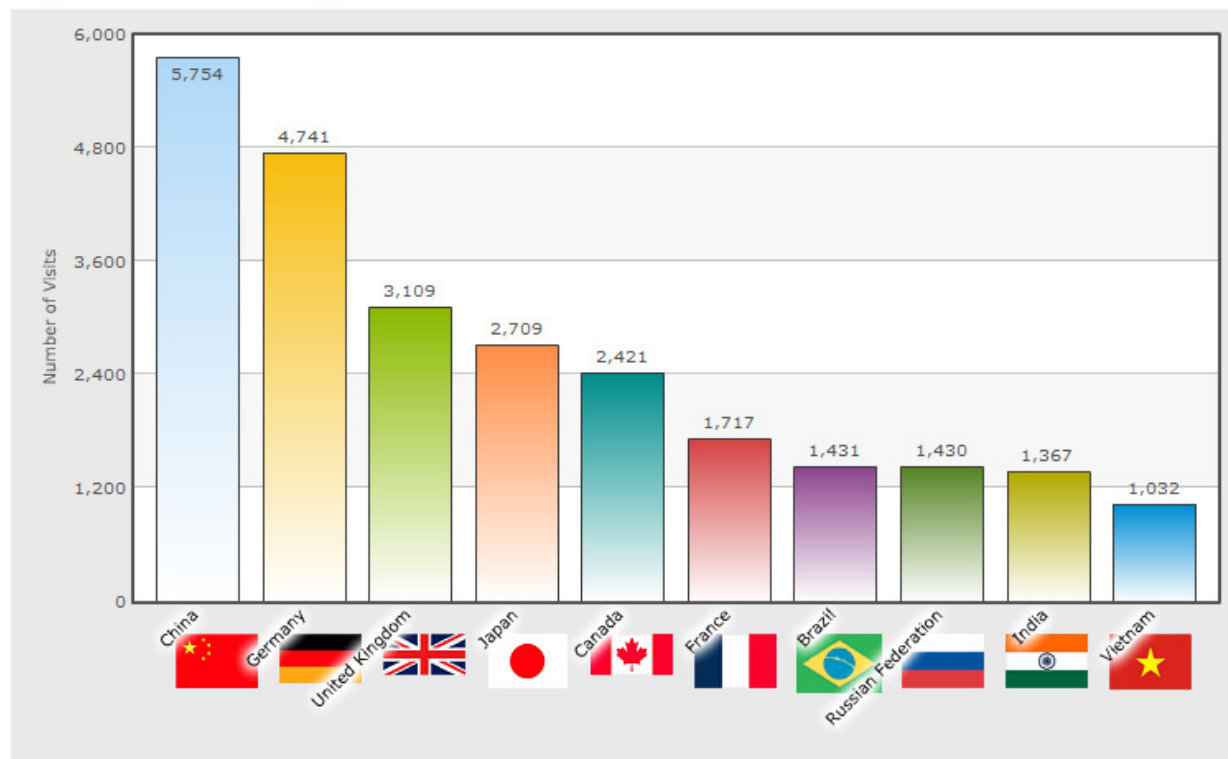
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FEDERAL AGENCY

SUGGESTED DATASETS

VISITOR STATS

Top 10 Visiting Countries (August 2010)





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FEDERAL AGENCY

SUGGESTED DATASETS

VISITOR STATS

Select the type of Report to view :

SUBMIT

Top 10 most Downloaded Datasets (All Time)

	Title	Agency/Sub-Agency	Category	Number of Downloads
1	Worldwide M1+ Earthquakes, Past 7 Days Real-time, worldwide earthquake list for the past 7 days	DOWUSGS	Geography and Environment	124,546
2	U.S. Overseas Loans and Grants (Greenbook) These data are U.S Economic and Military Assistance by country from 1946 to present. This is the authoritative data set of U.S. foreign assistance. The data set is used r...	USAID	Foreign Commerce and Aid	37,271
3	Latest Volumes of Foreign Relations of the United States The Office of the Historian is responsible, under law, for the preparation and publication of the official historical documentary record of U.S. foreign policy in the For...	STATE	Other	10,146
4	Food and Drug Administration--Recalls This feed describes all new items that are being recalled by the FDA.	HHS/FDA	Health and Nutrition	5,621
5	MyPyramid Food Raw Data MyPyramid Food Data provides information on the total calories; calories from solid fats, added sugars, and alcohol (extras); MyPyramid food group and subgroup amounts; a...	USDA/FNS	Health and Nutrition	3,999
6	EPA Geospatial Data Download: Facility and Site Information Contains informaiton about facilities or sites subject to environmental regulation, including key facility information along with associated environmental interests for u...	EPA	Geography and Environment	3,804
7	2000 Federal Register in XML The Federal Register is the official daily publication for rules, proposed rules, and notices of Federal agencies and organizations, as well as executive orders and other...	NARA/OFR	Other	3,650
8	Cooperative Research and Development Agreement (CRADA) Opportunities from NIH This RSS Feed represents all Collaborative Research and Development (CRADA) opportunities available from the National Institutes of Health (NIH). The intent of Congress in...	HHS/NIH	Business Enterprise	3,386
9	Global Trade - World Copper Smelters Locations and characteristics of world copper smelters	DOWUSGS	Geography and Environment	3,209
10	Child-Related Product Recalls Child-Related Product Recalls. CPSC is charged with protecting the public from unreasonable risks of serious injury or death from thousands of types of consumer products...	CPSC	Wholesale and Retail Trade	3,017

What's Next?

Geo-Spatial Data is A Key Enabler for “Killer Apps”



- **Geo-data Integration** - Combine capabilities of Geodata.gov and Data.gov
- Enhanced visualization and data-mashing capabilities
- “Human knowledge is expected to be doubling by the year 2012.” (Alvin Toffler)
- Geo-aware applications are key.
How to realize the promise of geospatial information systems (GIS) for the nation?
 - Geo-data “architected and built-in”
 - Lightweight geo-applications and mash-ups for Web 2.0/Gov 2.0
 - Incremental, agile, actionable and affordable delivery

A Push for Mobile Apps

The screenshot shows the USA.gov homepage. At the top is the USA.gov logo with the tagline "Government Made Easy". To the right of the logo is a search bar with a magnifying glass icon and a "SEARCH" button. Further right are links for "Get E-mail Updates", "Contact", and a "Español" language toggle. Below the search bar is a navigation bar with links: "Get Services", "Explore Topics", "Find Government Agencies", and "Contact Government Officials". The main content area features a large banner for "Get it done online, not in line!" with a "Apply for a Passport" section. To the right of the banner is a "MOST POPULAR" list containing: 1. Passport, 2. Jobs, 3. Grants, 4. Auctions, and 5. Green Card. Below the banner are three sections: "Public Engagement", "Performance Dashboards", and "Mobile Apps". The "Mobile Apps" section is circled in red, and two red arrows point from it to images of a mobile phone and an iPhone. At the bottom is a "Connect with Government" bar with links for Facebook, Twitter, RSS Feeds, Mobile, YouTube, Our Blog, and a Share button.

USA.gov
Government Made Easy

Get E-mail Updates | Contact **Español**

1 (800) FED INFO | 1 (800) 333-4636

Get Services | Explore Topics | Find Government Agencies | Contact Government Officials

Get it done online, not in line!

Apply for a Passport
Apply for your U.S. Passport Online Today! Try Expedited Passport Services.

- Apply for Student Aid
- File Your Taxes
- Get Your Driver's License

MORE SERVICES

MOST POPULAR

1. Passport
2. Jobs
3. Grants
4. Auctions
5. Green Card

Public Engagement
Post an idea, comment on the ideas of others, and rate and rank ideas to improve your government.
[Make your voice heard >](#)

Performance Dashboards
Your window into government performance.
[See Performance Indicators >](#)

Mobile Apps
Check the wait time at your airport, the status of your tax refund, and more on your mobile device.
[Get Apps >](#)

Connect with Government

Facebook | Twitter | RSS Feeds | Mobile | YouTube | Our Blog | Share



The screenshot shows the iPhone website. At the top is the "iPhone" logo. To the right of the logo are links: "Features", "Why iPhone", "Apps for iPhone", "Gallery", "How To", and "Tech Specs". Below the links is a large image of an iPhone with many app icons floating around it. To the right of the image is the text "Your iPhone gets better with every new app." Below this text is a paragraph: "Applications for iPhone are like nothing you've ever seen on a mobile phone. Explore some of our favorite apps here and see how they allow iPhone to do even more."

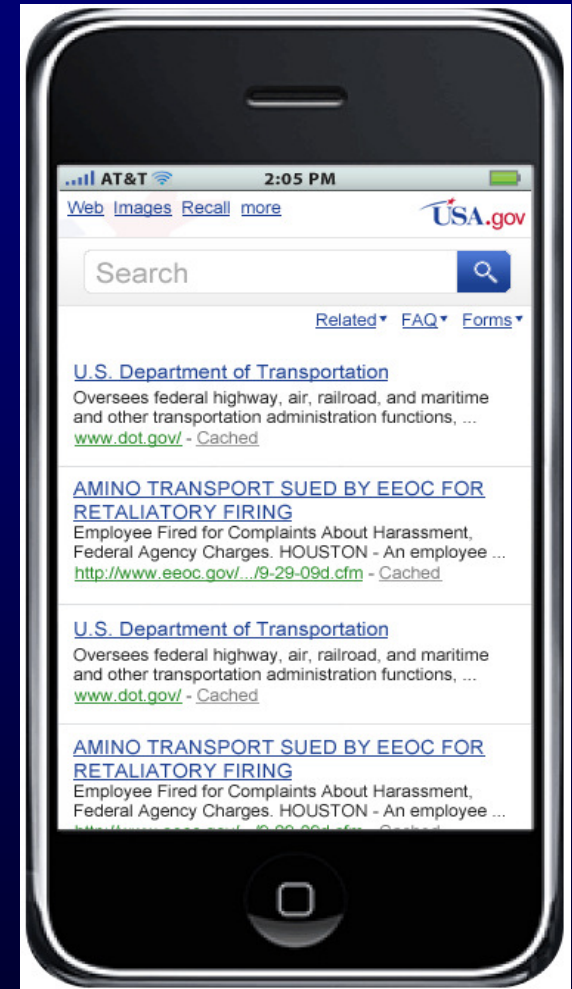
iPhone

Features | Why iPhone | Apps for iPhone | Gallery | How To | Tech Specs

Your iPhone gets better with every new app.

Applications for iPhone are like nothing you've ever seen on a mobile phone. Explore some of our favorite apps here and see how they allow iPhone to do even more.

Search + Mobile



What's Next?

- **Shared Dataset Hosting**

- Data extraction
- Data conversion
- Geocoding
- Visualization

- **Data Discovery Services**

- Available to agencies as a fee-for-service
- Allow agencies to discover datasets within their entire public space

- **Mobile Applications**

- **APIs** – simplify access for developers and publishers





Set the Data Free....

**We're Looking Forward to
Working with You!**

Questions?