



# ***Gathering and Using Health Data Through Social Media***

***Jeanne Holm  
Evangelist, Data.gov  
June 29, 2011***

# Open Government Initiative



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## Open Government Initiative

TRANSPARENCY + PARTICIPATION + COLLABORATION

OPEN GOV

About Open Government | Open Gov Blog | Around the Government | Innovations Gallery

My Administration is committed to creating an unprecedented level of openness in Government. We will work together to ensure the public trust and establish a system of transparency, public participation, and collaboration. Openness will strengthen our democracy and promote efficiency and effectiveness in Government.

— PRESIDENT OBAMA, 01/21/09



- Transparency promotes accountability
- Participation allows people to contribute ideas
- Collaboration encourages cooperation within government and with industry



The screenshot shows the Data.gov homepage with a navigation bar (HOME, DATA, APPS, COMMUNITY, METRICS, OPEN DATA SITES, GALLERY, WHAT'S NEW) and a main content area. The main content area is divided into several sections:

- Earthquake and Tsunami Datasets and Information:**
  - Worldwide M+ Earthquakes, Past 7 Days
  - RadNet Map Interface for Near-Real-Time Radiation Monitoring Data
  - Search other related datasets
  - World Earthquake Interactive Map Demo
- DATA AND APPS:**
  - 379,931 raw and geospatial datasets
  - 964 government apps
  - 236 citizen-developed apps
  - 44 mobile apps
  - 172 agencies and subagencies
  - Suggest a dataset or app!
  - 2011 Next Generation Data.gov is interactive, exploratory, and social.
- COMMUNITIES:**
  - Open Data
  - Semantic Web
  - Health
  - Law
- OPEN GOVERNMENT:**
  - Latest News: Japanese Earthquake and Radiation Data
  - Real-time alerts and data related to the earthquakes off the coast of Japan and radiation levels in US.
  - What's coming up on Data.gov? Check out Sonny's blog.
- LEARN:**
  - Are you a teacher, professor, or student? Young people across America are learning about Data.gov and we want you to be part of getting data into the classroom.
  - See what teachers are doing, share a lesson plan, showcase an app. Learn what's going on in classrooms today!
- 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. We and our collaborators at the Tetherless World Constellation at the Rensselaer Polytechnic Institute are helping to lead the way in this exciting area!
- DEVELOPER'S CORNER:**
  - Are you interested in sharing your mashups, apps, and ideas? Do you want to learn how to create app and mashups with some of the data hosted here on Data.gov? Whether you are here to share, learn, collaborate, or innovate—you've come to the right place.
  - Look at these great government mobile apps and help us to develop more!

At the bottom of the page, there is a footer with links: About | FAQ | Contact Us | Data Policy | Accessibility | Privacy Policy | Sitemap, and the Data.gov logo.

- Break down stovepipes
- Provide instant access to raw data in easy to use formats
- Encourage development of innovative applications
- Drive innovation and knowledge use across the globe

An Official Web Site of the United States Government Tuesday, March 29, 2011 Text: A\* A\* A Share

**DATA.GOV** EMPOWERING PEOPLE

HOME DATA TOOLS COMMUNITY METRICS OPEN DATA SITES GALLERY WHAT'S NEW

## REGIONAL OECD DATABASE

The OECD regional database features a set of comparable statistics on about 2,000 regions in the 34 OECD countries, on topics such as population and migration, economic output, education levels, employment opportunities and intensity of knowledge-based activities. This database offers a snapshot of how life is lived – and can be improved – from region to region in the OECD area.



### Earthquake and Tsunami Datasets and Information

- Worldwide M1+ Earthquakes, Past 7 Days
- RadNet Map Interface for Near-Real-Time Radiation Monitoring Data
- Search other related datasets
- World Earthquake Interactive Map Demo

SEARCH OUR CATALOGS

Search our catalogs... SEARCH

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#### DATA AND APPS



- 379,931 raw and geospatial datasets
- 938 government apps
- 236 citizen-developed apps
- 172 agencies and subagencies
- Suggest a dataset or app!
- Coming soon: 2011 Next Generation Data.gov is interactive, exploratory, and social.

MORE

#### COMMUNITIES



Come explore, discuss, meet others in the same field, and develop the data and apps in the community that you care about. Join in the discussions by going to communities below that interest you.

OPEN DATA SEMANTICWEB  
HEALTH LAW

MORE

#### OPEN GOVERNMENT



March 13-19, 2011, Sunshine Week, focused on open government and freedom of information. Data.gov introduced the Law data.gov community and Data.gov in the Classroom. Stay tuned for more new initiatives!

What's coming up on Data.gov? Check out Sonny's blog.

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#### LEARN



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HOME DATA TOOLS COMMUNITY METRICS DIALOGUE

## APPS SHOWCASE

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.



**National obesity comparison tool**  
Check your state or the right to see how your health compares. Clearly to health.

**OPEN DATA**

Search This Community... SEARCH

COMMUNITY HOME BLOGS FORUMS

Communities » Open Data

### Forum Listing

Mark All Read

Forum	Topics	Posts	Last post
International Open Government Data Conference 2010	1	3	by Jeanne Holm 2010-11-17 15:31
Best practices - who's doing what?	2	10	by Brand Niemann 2010-11-24 05:27
Security and openness: what's the balance?	1	1	by Jeanne Holm 2010-11-15 05:56
Policies for international data sharing	3	6	by Mark Martin 2010-11-22 13:34
Exploring semantic technologies	1	2	by Brand Niemann 2010-11-25 03:57
Accessing and finding data	4	10	by David Hamry 2010-11-18 20:54
Finding your way with geospatial data and apps	1	6	by Brand Niemann 2010-11-25 03:51
The business behind open data - value and measurements	1	1	by Jeanne Holm 2010-11-15 09:23
Growing your data community	2	4	by Brand Niemann 2010-11-25 03:37
Standards: Do we adopt or create?	1	6	by Ruth del Campo 2010-11-18 09:11

### Active group topics

- Creating Value Added Functionality and Applications Through Mashups**  
1 comment | Last comment 1 week ago
- Converting data to decisions**  
5 comments | Last comment 1 week ago
- How do we grow into sustainable communities of practice?**  
2 comments | Last comment 1 week ago
- Calling all great examples of open government data**  
8 comments | Last comment 1 week ago
- Integrating Data Across the Globe**  
3 comments | Last comment 2 weeks ago

more

## WELCOME TO THE HEALTH DATA COMMUNITY

You've found a public resource designed to bring together high-value datasets, tools, and applications using data about health and health care to support your need or better knowledge and to help you to solve problems. These datasets and tools have been gathered from agencies across the Federal government with the goal of improving health for all Americans. Check back frequently because the site will be updated as more datasets and tools become available.

[More Information](#)

## HEALTH INDICATORS WAREHOUSE

[VIEW MORE](#)



- Home
- Devel
- Data/Tools
- Apps Expo
- Other Data Sites
- Blogs
- Forums

Search This Community...

SEARCH

Data.gov » All Communities

### Challenges



Pellentesque libero mauris, mollis at sollicitudin ut, mattis in lorem. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Sed lobortis congue elementum. Pellentesque elit tortor, feugiat eu iaculis et, porttitor at turpis! Vivamus vehicula nibh vel massa elementum blandit.

### What's New



Learn about our newest high-value datasets.

- **ClinicalTrials.gov: linking patients to medical research**
- **Genetics home reference**
- **MedlinePlus Health and Web Service**
- **PubChem**

June 29, 2011

### Recent Blog Post



Test bloh 17jan 15:16 V4

Posted on: 1/17/2011

Test bloh 17jan 15:16 V4

## *Games: Hungry Hiker*

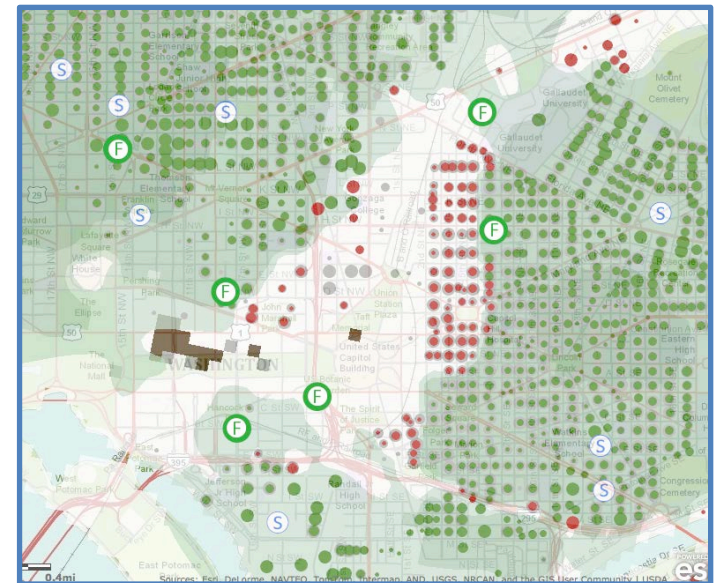
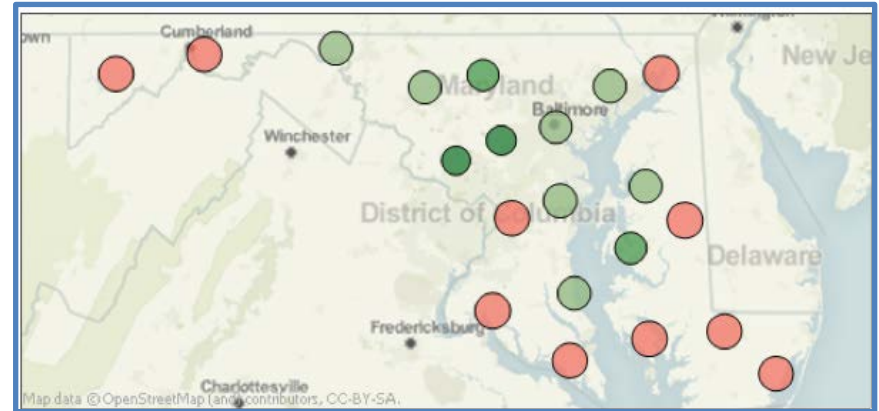
- Using USDA food pyramid data on Data.gov
- Feed the hiker the right foods and she'll climb the mountain, if not...watch out!
- Kids learn, interact, laugh, and remember
- 5000 kids played Hungry Hiker and Smash Your Food at the USA Science and Engineering Festival last year in DC



<http://www.dmns.org/nutrition/>

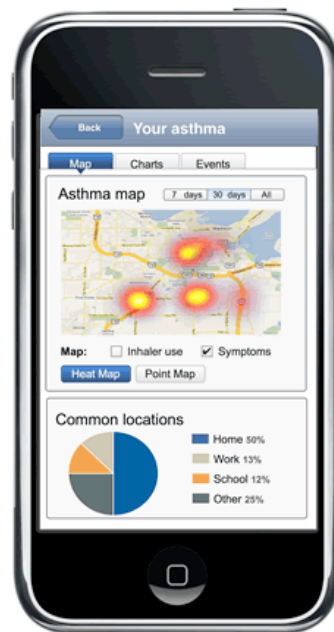
## Knowledge: Eat Your Vegetables and Supermarket Access

- Uses Health and Human Services community health data and shows obesity rates by county
- Combined with Food Deserts can inform cities and citizens how to change their behavior
  - <http://www.arcgis.com/home/webmap/viewer.html?webmap=153c17de00914039bb28f6f6efe6d322>
  - <http://public.tableausoftware.com/views/contributorstoobesity/Eatyourvegetables?:embed=yes&:toolbar=yes>



## Take a Breath: Asthmapolis

- Uses asthma patients aggregated GPS notations to create hot spots in communities where there are asthma issues
- Changes individual behavior
  - From 65% daily incidence to 25% daily incidence of inhaler uses over a six month study



- Resources for students and teachers
- Examples of how data is being used to develop apps
- Lesson plans and videos
- Integrated into the International Science Fair to provide data and give prizes to students!



The screenshot shows the Data.gov website interface. At the top, there is a search bar and navigation links: HOME, DATA, APPS, COMMUNITY, METRICS, OPEN DATA SITES, GALLERY, and WHAT'S NEW. The main heading is "LEARN".

**Data.gov in the Classroom**  
Learning to understand and analyze data is a key step in becoming a critical thinker. For our nation's youth to reach their full potential, they need tools, resources, and opportunities. Here at Data.gov, we create the opportunities for learning, challenges for innovation, and resources for exploring the nation and the world.

**Shout Out to Teachers**  
Using Data.gov in the classroom? Created a cool app? Developed a lesson plan? Tell us your story, let us feature your class, let us come to your school! We want you!

**K-12 EDUCATION**  
Data.gov is also working with the International Science and Engineering Fair to bring Data.gov as a research tool and resource to K-12 students across the globe as they create, innovate, and learn about science through their research and in their schools. At this year's International Fair in Los Angeles on May 8-13, Data.gov will be making resources available for kids to explore, learn, and analyze government data, and encourage them to create apps and views of that data.  
This year Data.gov also continues their sponsorship of the USA Science and Engineering Festival. At last year's event on the Mall in Washington, D.C. 5,000 students explored datasets ranging from health to energy through Data.gov apps and mashups that made learning fun.

**UNIVERSITIES**  
Data.gov in the Classroom highlights 11 universities and colleges across America that are using the information and lessons of Data.gov to help future generations learn about government data, how to use it, and help create the apps that enable others to do so as well.  
• Harvard University, Dr. Karim Lakhani, Data.gov: Matching Government Data with Rapid Innovation, Harvard Business Case Study  
• New York Law School, Professor Beth Noveck, Democracy Design Workshop Do Tank, ORGPedia: Corporate Intelligence and Accountability for the 21st Century and Economic Impact of Open Gov Data  
• New York University, Professor Christina Goodness, Information and Technology for Socio-political Change  
• Oregon State University, Dr. Dawn Wright, Geographic Information Systems and Science  
• Rensselaer Polytechnic Institute, Professor Peter Fox, Data Science  
• Rensselaer Polytechnic Institute, Professor Jim Hendler, Linking Open Government Data (tutorials, apps, and mashups)  
• Rice University, Jeffrey Selfert and Jane Fountain, Technology and Policies in the Information Age  
• Syracuse University, Professor Ines Merzel, Government 2.0  
• Temple University, Steven L. Johnson, Data and Knowledge Management  
• University of California, Berkeley, Professor Yee, Mashing and Remixing Information  
• University of Michigan, Library, Access to Governmental Datasets at Data.gov  
• Yale University, Dr. Laura DeNardis and Dr. Nicholas Bramble, Access to Knowledge

**EDUCATION IN THE WORLD**  
The Organization for Economic Cooperation and Development collects information from around the world on education, population, economic output, productivity, labor market, and innovation themes to highlight differences within countries. This data is featured on Data.gov in cooperation with the Department of State.  
The OECD PISA (Programme for International Student Assessment), created in 1997, reviews the reading, mathematical, and scientific literacy of 15 year olds around the world. The PISA program goes beyond the examination of whether students have mastered their school's curriculum and asks if their knowledge will translate into skills needed in adult life.  
Explore PISA and other tools and datasets here:  
• ECOTOX Knowledgebase  
• OECD Family database  
• OECD Regional Database  
• PISA 2009  
• Program for International Student Assessment (PISA) Data Explorer  
• U.S. CRS++ Submission to the OECD/DAC CY2009  
• U.S. OCA Disbursements by Recipient Country and U.S. Agency  
• U.S. Official Development Assistance Database

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## Join the Conversation

- Share your data, your projects, and your information with the Health.data.gov community
  - Twitter at @healthdatagov and @usdatagov
  - Forums online
  - Events in your community

