



U.S. Open Data Status and Case Study Conference on Open Data Applications In Taiwan

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Open Data in the U.S.

- U.S. Open Government Initiative – Creating policy framework
- Data.gov – Making high value government data accessible
- Challenge.gov – Harnessing the power of government data to create new solutions
- Future directions
- Critical success factors





U.S. Open Government Initiative

Principles

- *Transparency* promotes accountability to citizens
- *Participation* through public engagement enhances government effectiveness
- *Collaboration* actively engages Americans in the work of government



“My administration is committed to creating an unprecedented level of openness in Government...Openness will strengthen our democracy and promote efficiency and effectiveness in Government.
“ --President Obama, January 21, 2009



U.S. Open Government Initiative – Policy Framework


Federal agencies directed to:

- Publish government information online
- Improve data quality
- Develop and implement agency-specific open government plans
- Create a culture of open government





Shift to Open Government

- Risk avoidance
 - Information Silos
 - Data Production
 - Static data
 - Use by individuals
- 
- Trust
 - Data analytics
 - Information consumption
 - Mobile apps
 - Crowdsourcing



U.S. Open Government Initiative – Implementation

- Make government data more accessible to improve citizen services, build trust and drive economic growth
- Agency Flagship Initiatives - transparency, participation and collaboration
 - Engage citizens in policy-making, public dialogues, democratizing data
- Open Government Executives are accountable for results and meet monthly
 - Update progress
 - Share information and best practices
 - Annual plans and public performance reporting



Open Government Dashboard

KEY:

- Meets Expectations
- Progress Toward Expectations
- Fails to Meet Expectations

Agency	High-Value Data	Data Integrity	Open Webpage	Public Consultation	Overall Plan	Formulating the Plan	Transparency	Participation	Collaboration	Flagship Initiative
Agency for International Development	■	■	■	■	■	■	■	■	■	■
Department of Agriculture	■	■	■	■	■	■	■	■	■	■
Department of Energy	■	■	■	■	■	■	■	■	■	■
Department of Education	■	■	■	■	■	■	■	■	■	■
Department of Commerce	■	■	■	■	■	■	■	■	■	■
Department of Defense	■	■	■	■	■	■	■	■	■	■
Department of Health and Human Services	■	■	■	■	■	■	■	■	■	■
Department of Homeland Security	■	■	■	■	■	■	■	■	■	■
Department of Housing and Urban Development	■	■	■	■	■	■	■	■	■	■
Department of the Interior	■	■	■	■	■	■	■	■	■	■
Department of Justice	■	■	■	■	■	■	■	■	■	■
Department of Labor	■	■	■	■	■	■	■	■	■	■
Department of State	■	■	■	■	■	■	■	■	■	■
Department of Transportation	■	■	■	■	■	■	■	■	■	■
Department of the Treasury	■	■	■	■	■	■	■	■	■	■
Department of Veterans Affairs	■	■	■	■	■	■	■	■	■	■
Environmental Protection Agency	■	■	■	■	■	■	■	■	■	■
General Services Administration	■	■	■	■	■	■	■	■	■	■

<http://www.whitehouse.gov/open/around>



Accessing High Value Government Data



- Flagship U.S. open government initiative
- Instant, central access to over 400,000 government datasets in easy to use, open formats
- Data from across the federal government
- Enables development of innovative applications
- Drives innovation and knowledge use across the globe



Data.gov Model



- Catalog of high-value, machine-readable datasets generated by U.S. federal government agencies
- 185 agencies and sub-agencies participating
- Includes “raw” datasets, data tools and apps, geospatial and interactive datasets
- Interactive datasets are API-enabled to empower developers to create apps using the data
- Rapid growth and uptake from May 2009 to today:
 - Datasets increased from 47 to 400,000
 - Downloads went from zero to over 2 million



Open Data Fuels Economic Growth

Innovative use of open data creates new businesses, products and services

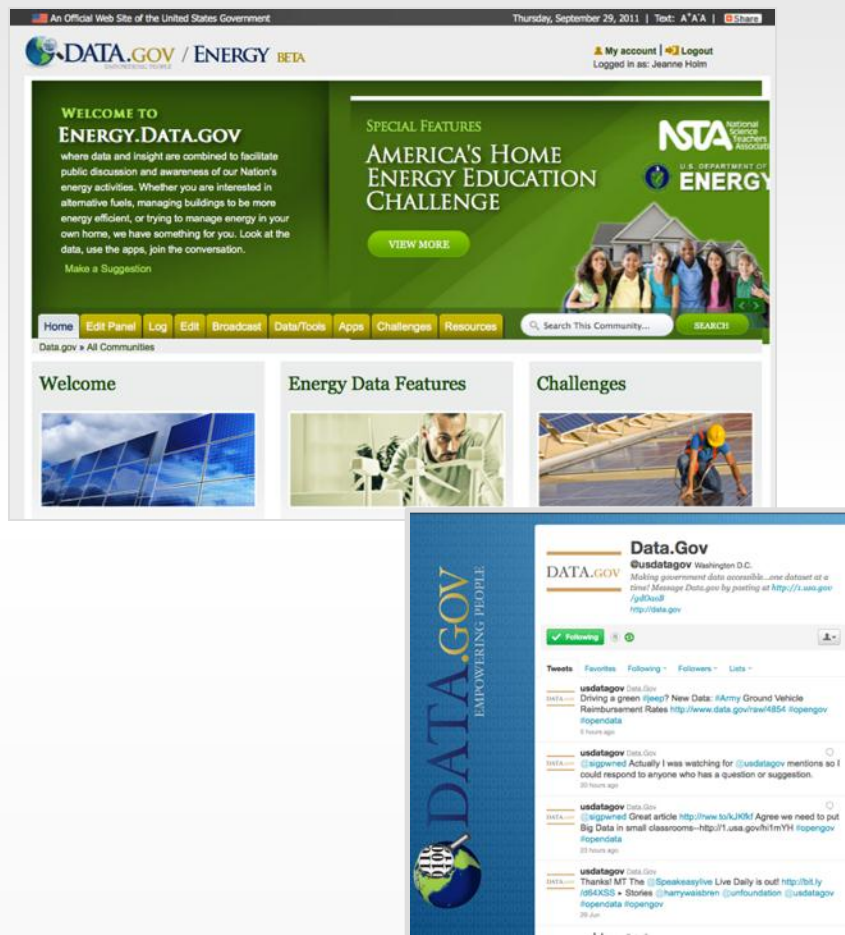
- Department of Defense released satellite data...private industry created affordable GPS devices
- National Weather Service data supports weather-related products, services and businesses



AccuWeather.com
World's Weather Authority™



Data.gov Communities Collaborate to Solve Problems



Community

Restore the Gulf ✓

Open Data ✓

Semantic Web ✓

Health ✓

Law ✓

Energy ✓

Ocean ✓

Education

Research & Development

Public Safety

Human rights

+ *many more...*

Creating Apps that Save Lives: iTriage and Hospital Compare



Data.Medicare.gov

Home | Create an Account on Data.Medicare.gov | Sign In to Data.Medicare.gov

Hospital Compare | Dialysis Facilities | Home Health Agencies | Helpful Contacts | Nursing Home | Medical Equipment Suppliers

Unsaved View | Save As... | Revert

Based on Survey of Patients' Hospital Experiences (HCAHPS)
A list of hospital ratings for the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS). HCAHPS is a

	Hospital Name	Address 1	City	Phone Number	Percent of patients who reported th	Percent of patients who rep
1	VIRGINIA MASON MEDICAL CENTER	1100 NINTH AVENUE (PO BOX 9	SEATTLE	2062236600	3%	
2	SWEDISH MEDICAL CENTER/CHERRY H	500 17TH AVENUE	SEATTLE	2063202000	4%	
3	GROUP HEALTH CENTRAL HOSPITAL	201 - 16TH AVENUE EAST	SEATTLE	2063263000	5%	
4	NORTHWEST HOSPITAL	1550 NORTH 115TH STREET	SEATTLE	2063640500	6%	
5	SWEDISH MEDICAL CENTER	747 BROADWAY	SEATTLE	2063866000	6%	
6	UNIVERSITY OF WASHINGTON MEDICAL	1959 NE PACIFIC ST	SEATTLE	2065983300	4%	
7	HARBORVIEW MEDICAL CENTER	325 9TH AVENUE	SEATTLE	2067313000	7%	

Creating Apps that Improve Lives: Asthmapolis



Knowledge of where asthma attacks occurred historically reduced incidence of daily attacks by 62% in six months.



Sustainable Facilities Tool

Empowers anyone to identify and prioritize cost-effective green building strategies in small building projects

- Realty Specialists
- Project Managers from Governmental Agencies
- Private Sector Developers
- Facility Managers

<http://www.sftool.gov>



Challenges Spark Ideas, Data Drives Decisions

- Data.gov communities identify national issues
- Challenge.gov creates structure for problem-solving events
- Unites developers and innovators with government to solve problems
- Resulting apps transform data to help citizens make better decisions
- Cost is lower than paying for traditional development

CHALLENGES

Want to get involved in helping to solve an energy problem that you see in your home, community, or country? Join in on one of our challenges. Challenges range from brainstorming ideas to creating applications to proposing research. Not ready to jump in? Then come and see how others have responded and look at the winners of previous challenges.

Open Challenges

Sustainable Communities
The Partnership for Sustainable Communities is hosting a code-a-thon to bring together citizens, developers, and government personnel to work on solutions that bring sustainability to the forefront of peoples' everyday lives. Join us on January 21-22, 2011 to make a difference!

Code for Livability
The Partnership for Sustainable Communities is hosting a code-a-thon to bring together citizens, developers, and government personnel to work on solutions that bring sustainability to the forefront of peoples' everyday lives. Join us on January 21-22, 2011 to make a difference!

2011 ENERGY STAR National Building Competition: Battle of the Buildings
It's an energy savings battle as 245 buildings compete to see who can be the most efficient.

Resources:
• CBECS
• CEUS

MOBILE APPS

These apps are available on your mobile device, some are available in only a single format and others in multiple formats. Each icon links to the appropriate format when available. A "mobile web" app is designed for optimum use over your mobile device through its built-in web browser.

AIRNow
Provides real-time air quality information that you can use to protect your health when planning your day.
Download iOS App
Download Android App

Alternate Fuel Locator
Find fueling stations for your alternative fuel vehicle on-the-go with the U.S. Department of Energy's Alternative Fueling Station Locator.
Access Mobile Web

Fuel Economy.gov
Calculate gas mileage (MPG), annual fuel costs, annual petroleum use, and the carbon footprint information for your car or truck.
Access Mobile Web

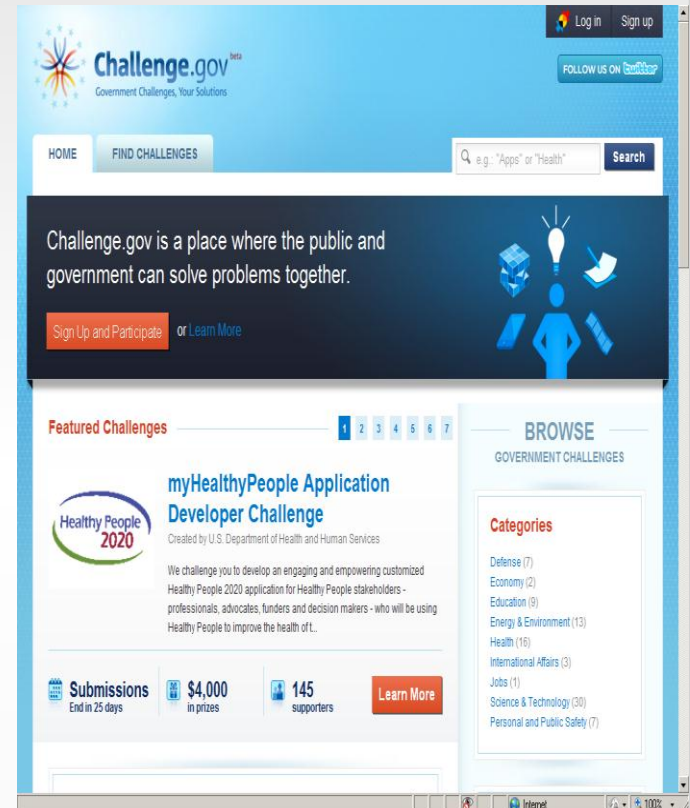
Sustainable Facilities Tool
Identify and prioritize green building strategies to improve environmental and cost performance for small building projects.
Download iOS App
Download Android App
Download BlackBerry App

SF Mobile
Description
Sustainable Facilities Tool (SFT) Mobile brings valuable sustainable building and sustainable design guidance from the U.S. General Services Administration's (GSA) Sustainable Facilities Tool (SFT) Mobile (SFT Mobile) to your mobile device. SFT Mobile makes it easy for GSA employees and private sector users to find, explore, and evaluate sustainable building projects.

Energy Index for Commercial Buildings
BUILDINGS ENERGY DATA BOOK
Benchmarking application for commercial buildings allowing users to compare their energy use to national average.

Creating New Solutions – Challenge.gov

- Crowdsourcing platform for challenges and prizes for solutions to government problems. Many use open data sets.
- Incentives – monetary or other prizes – are awarded to winners
- Cost-effective – pay only for successful entry/solutions
- Broad engagement – innovative ideas and expertise outside traditional sources
- Partner with private sector to fund or expand prizes





Challenge.gov Benefits

- Proven tool for achieving big breakthroughs
- Social & scientific innovations
- Solvers invent products, write software, design systems, develop mobile apps, create videos and games and more
- Creates social network of people who care about an issue: can follow, vote, and share via email, Facebook, and Twitter
- Builds interest and awareness of critical issues at much lower cost than traditional communications



Apps for the Environment Challenge

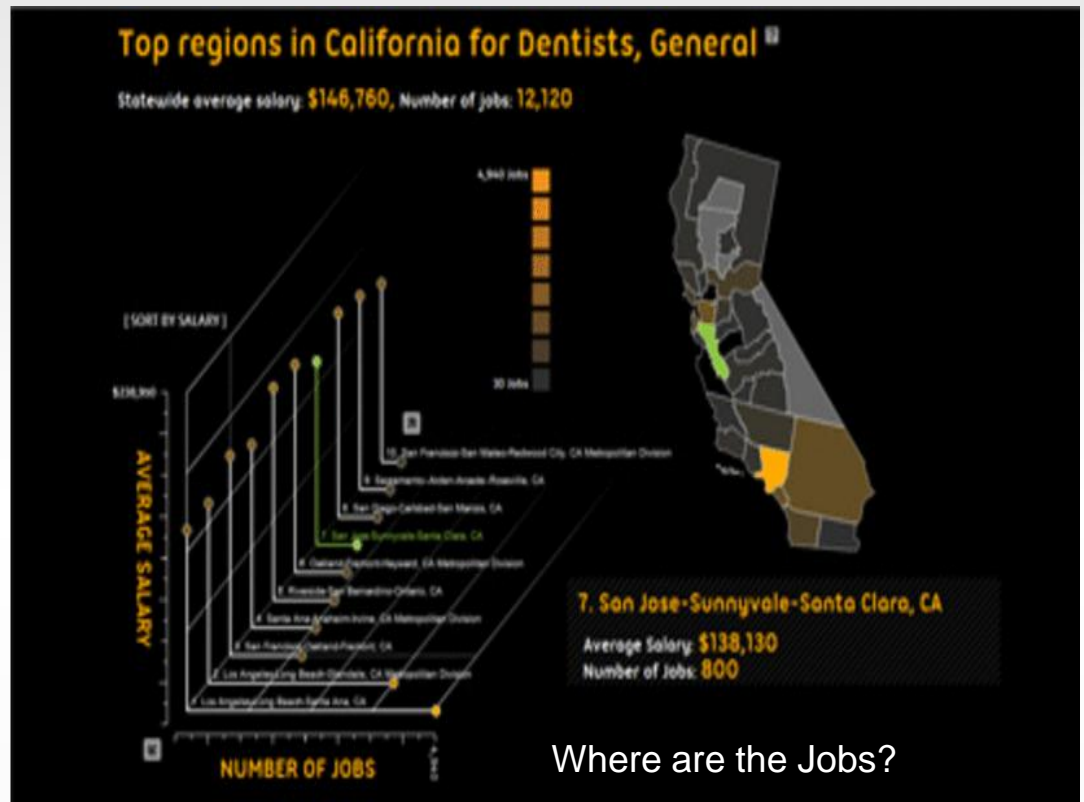
- Environmental Protection Agency (EPA) challenged the public to use its data in new ways to address environmental issues
- 38 developer teams participated
- Five winning apps help Americans:
 - Switch to energy-efficient light bulbs
 - Compare air quality index, air pollutant levels, and energy consumption of U.S. cities
 - Get directions and carbon footprints for driving, transit, flight, walking and biking transportation options
- Prize was recognition event in Washington DC rather than payment





Department of Labor (DOL) Challenge

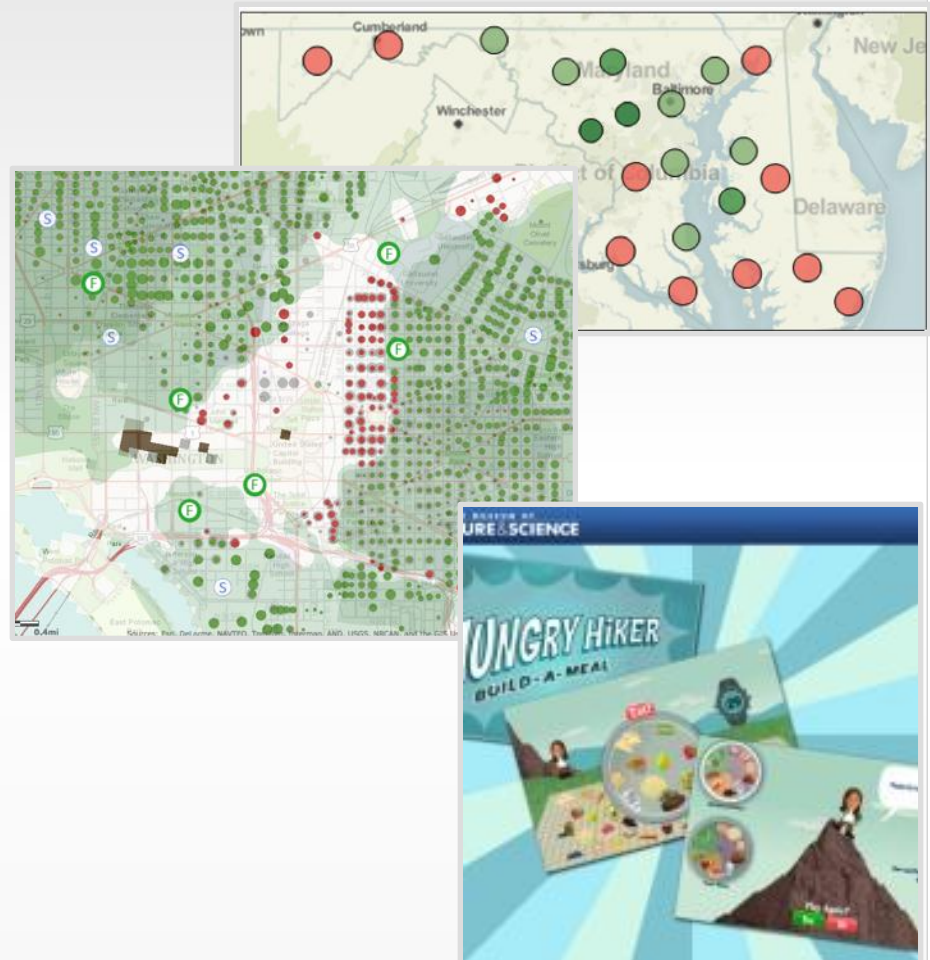
- Challenge to create applications to help citizens find jobs, improve skills, and make informed decisions
- \$68,000 in prizes for 14 winning apps – compared to typical cost of \$40,000 to procure one application
- Winning apps - “Where are the Jobs?” and “Eat, Shop, Sleep”





USDA Challenges: Eat Your Vegetables and Food Desert Apps

- Eat Your Vegetables uses government data and shows obesity rates by county
- Food Deserts shows areas without access to fresh food
- Combined use of apps can inform cities and citizens how to change their behavior
- Apps for Healthy Kids Challenge sponsored by First Lady Michelle Obama
- Games like Hungry Hiker help kids make better choices





Future Direction – National Action Plan



- President Obama announced the Open Government Partnership and US National Action Plan at the UN General Assembly in September
 - 50 countries around the globe participating
- Contribute Data.gov as a platform
 - India and U.S. creating open source platform for use by any country or city
- Foster communities on Data.gov
 - Health, energy, and law plus education, research, and safety
- Launch International Space Apps Challenge
 - NASA and other space agencies will gather scientists and citizens
 - Use data for global challenges: weather impacts on global economy and depletion of ocean resources



Future Direction - Open Government Platform



US and India developing open source platform for global adoption

- Bilateral strategic dialogue to open source data.gov and India's document portal
- Technical teams currently working on code (Drupal based)
- Anticipate completion in 2012
- Will allow any government, at any level, to launch its own open data site
- Expands impact of data.gov - 28 countries have open government data sites

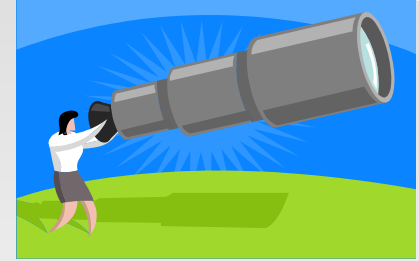
<http://www.data.gov/opengovplatform>

U.S. States	U.S. Cities	Agencies and Subagencies	International
31	13	172	28





Future Direction



- Continued engagement of stakeholders (agencies, the public)
- Making data more accessible and usable
 - Impact vs. quantity
- Focus on data value to create new solutions that improve services and drive economic growth
- Sustainability
 - Data currency
 - Increase use of APIs (application programming interfaces)
- Unify communities around common objectives and mission needs



Critical Success Factors



- Executive level support is essential - not just at start
- Sunshine is the best policy - transparency improves data quality
- Link open government to agency mission - help agencies fulfill their purpose
- ***Key is liberating data to achieve value - rather than focusing on the data itself***



For further information:

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202-501-0705

www.gsa.gov/OCSIT

www.gsa.gov/Open

www.whitehouse.gov/Open

www.data.gov

www.challenge.gov

