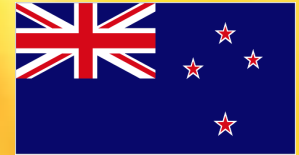




International Open Government Data Conference

International Open Government Data Leaders— Top 10 Issues and Lessons Learned

Richard Best, *Solicitor, Government Technology Services, Department of Internal Affairs, New Zealand*



Stephen Walker, *Senior Director, Information Management Division, Senior Director's Office, Treasury Board of Canada Secretariat*



Trevor Smallwood, *Assistant Secretary, Cyber Security Australian Government Information Management Office, Department of Finance and Deregulation*



Sanjeev "Sonny" Bhagowalia, *Deputy Associate Administrator, Office of Citizen Services and Innovative Technologies, Senior Program Executive, Data.gov, U.S. General Services Administration*



David L. McClure, Ph.D., *Associate Administrator, GSA Office of Citizen Services and Innovative Technologies, U.S. General Services Administration (GSA, Moderator)*



1. Communities are out there and waiting
2. Culture makes a difference
3. Leadership matters
4. Risk aversion
5. Tension between security and delivery
6. Legacy and Architecture
7. Data Quality
8. Measuring value will be a challenge
9. The big picture matters
10. The inevitable direction of technology



International Open Government Data Conference

**International Open Government Data Leaders—
Top 10 Issues and Lessons Learned**



International Open Government Data Conference

International Open Government Data Conference

Sanjeev “Sonny” Bhagowalia

Deputy Associate Administrator, Office of Citizen Services
and Innovative Technologies, Senior Program Executive,
Data.gov, U.S. General Services Administration



Top Ten Issues and Lessons Learned

- 1. The President's Innovation Agenda Requires Many Building Blocks of Innovation – Open Data is Just One Component**
- 2. Are We Getting enough Participation Across Government?**
- 3. Adapt to New Technologies and Ways of Sharing Information and Knowledge**
- 4. Get in Front of the Tsunami of Data**
- 5. Create Communities of Interest**
- 6. What You Measure is What You Get**
- 7. Geo-Spatial Data as A Key Enabler for “Killer Apps”**
- 8. Improved Search with Mobility**
- 9. Continuously Tapping the Ingenuity of the American Public**
- 10. Standards and Governance Along the Information Lifecycle**



Issue/Lesson Learned # 1: The President's Innovation Agenda Requires Many Building Blocks of Innovation – Open Data is Just One Component



Paradigm shift from “Protect everything, share what we must” to “Share everything, but protect what we must”.

- Open Government

+

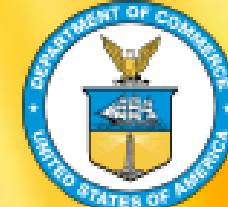
- Partnerships
- Entrepreneurship
- Prizes, Challenges, and Grants
- Idea Generation
- Innovative Science & Technology
- Creative Funding Strategies
- Promoting Competitive Markets
- Scaling IT Infrastructure w/ New Tech (e.g. cloud)
- Open Architectures (e.g. apps, APIs)
- Others...



Issue/Lesson Learned # 2: Are We Getting enough Participation Across Government?



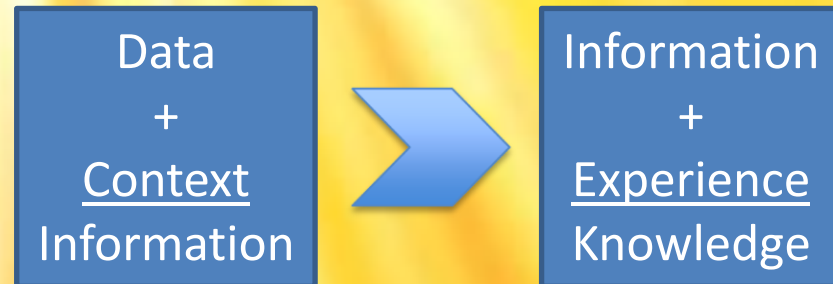
How do we encourage/reward agencies that publish useful and relevant data?





Issue/Lesson Learned # 3: Adapt to New Technologies and Ways of Sharing Information and Knowledge

- 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
- Other...



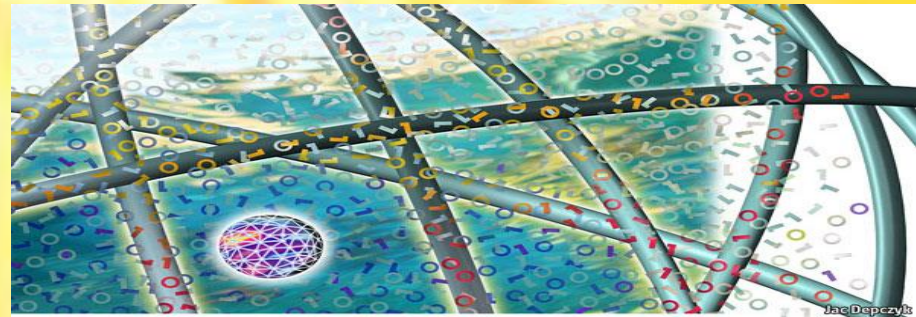
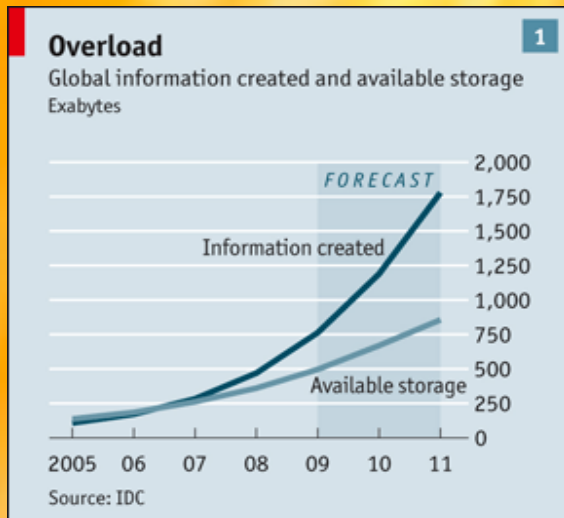
Our goal is to make data and information available to any mission, any where, at any time, securely and reliably

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



Issue/Lesson Learned # 4: Get in Front of the Tsunami of Data!

**Volume of digital information
increases tenfold every 5 years**



Such a vast amount of new data being generated every day presents great opportunities, but also challenges. How do we handle, on a continuous basis:

- Data quality?
- Security, and privacy?
- Classification?
- Data provenance?
- Records management?
- Data duplication?
- Data at rest vs Data in motion?

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

Ray Ozzie
Chief Software Architect
Microsoft





Issue/Lesson Learned # 5: Create Communities of Interest!

- Community pages collect related datasets and other information to help users find data on a single topic of interest in one central location
- Restore the Gulf is an example of a Data.gov community
- Planned communities include Health, Education, Law amongst many others....
- It's not just about policy and technology – it's about *changing the culture*

DEEPWATER HORIZON RESPONSE

Due to the high level of interest in the on-going oil spill in the Gulf of Mexico, Data.gov is featuring data from the Department of Energy (DOE), the Environmental Protection Agency (EPA), the National Oceanic and Atmospheric Administration (NOAA), and the states of Florida and Louisiana related to the spill, its effects, and the cleanup effort. Data include oil and gas flow and recovery measurements, air and water sample data, oil spill-related exposure information, and other data of interest to scientists, recovery workers, and citizens. Data.gov will continue to provide access to as much oil spill-related information as possible.

BP OIL SPILL DATA AND OTHER INFORMATION FROM FEDERAL AGENCIES AND STATE GOVERNMENT

- Department of Energy**
 - Data Summary from Deepwater Horizon
 - Well Configuration
 - Timeline of Key Events
 - Containment System
 - BOP Stack Details
 - Top Kill Operations
- Department of Homeland Security**
 - GeoPlatform
 - Mapping Deepwater Horizon MC252
- Environmental Protection Agency**
 - EPA Response to BP Spill
 - Air Data
 - Water Data
 - Sediment Data
 - Waste Information
- NASA National Aeronautics and Space Administration**
 - NASA Imagery of Oil Spill
 - MODIS Rapid Response System
 - AVIRIS Aids in Gulf Oil Spill Response
- National Oceanic and Atmospheric Administration**
 - Software and Data Sets
 - Surface Oil Maps
 - Digital Coast
- State of Florida**
 - Deep Water Horizon Oil
 - Latest News
 - Authorization
 - Response Numbers
 - Natural Resource Damage Assessment
- State of Louisiana**
 - Oil Spill Resources
 - Health Surveillance
 - Video Coverage
 - News from Louisiana

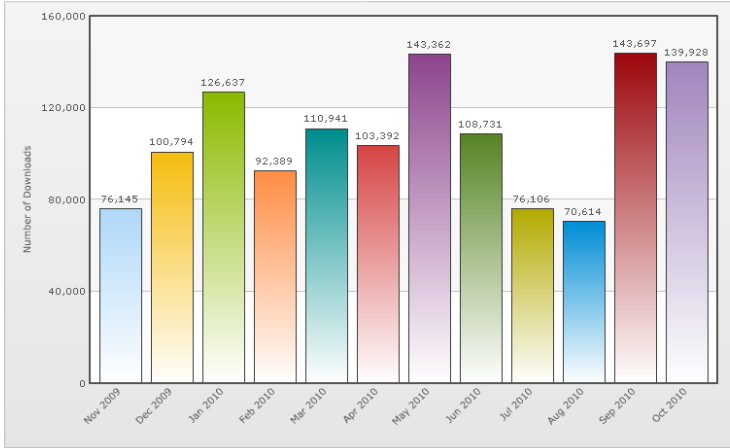
Data.gov/restorethegulf



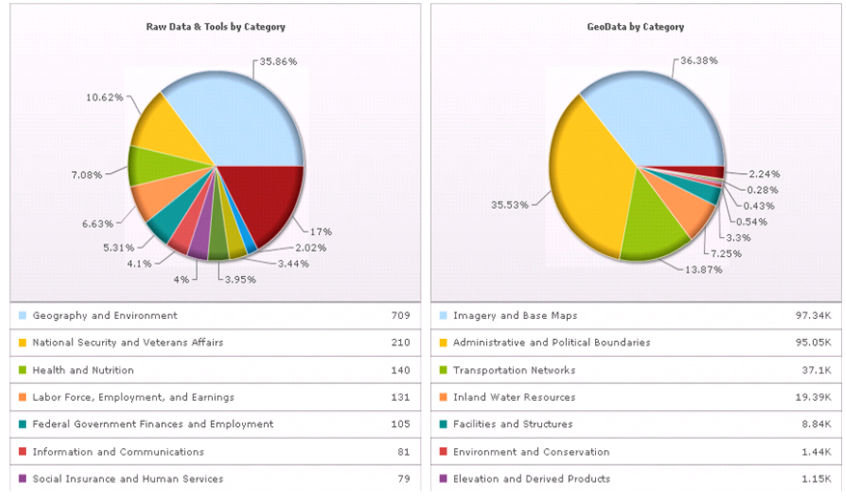
Issue/Lesson Learned # 6: What You Measure is What You Get!

Data.gov Monthly Download Trends

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.
Total Number of Downloads since October 2009: 1,292,736



Data.gov Datasets by Category



What are the right metrics? How are they tied to outcomes?



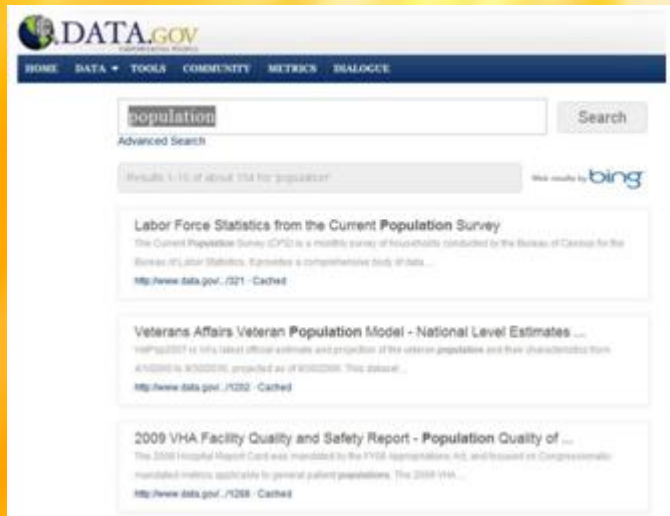
Issue/Lesson Learned # 7: Geo-Spatial Data as A Key Enabler for “Killer Apps”



- **Geo-data Integration** - Combine capabilities of Geodata.gov and Data.gov
- Enhanced visualization, data-mashing and on-line web 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

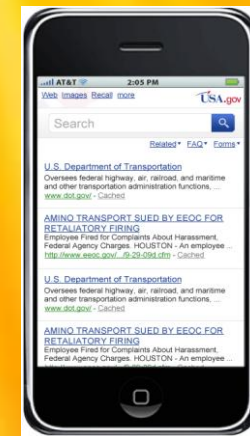


Issue/Lesson Learned # 8: Improved Search with Mobility



How do we categorize data and datasets so that they are easy to browse and find?

- By Statistical Abstract Category?
- By Federal Enterprise Architecture?
- By Owning Organization?
- Other Taxonomies?
- All of the Above?





Issue/Lesson Learned # 9: Continuously Tapping the Ingenuity of the American Public

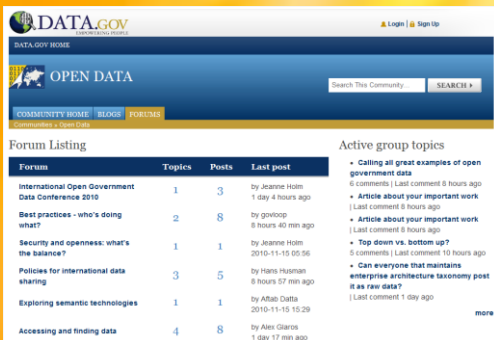
- The Federal government does not have a monopoly on good ideas
- Access to information unleashes creativity
- Innovation drives sustainability
- How do we keep engaging and tapping creativity continuously?
- Example of GPS





Issue/Lesson Learned # 10: Standards and Governance Along the Information Lifecycle

Citizen Feedback



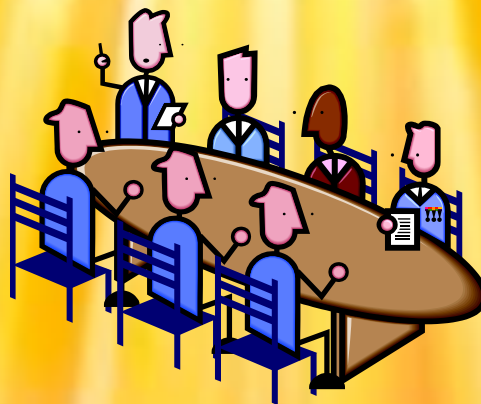
Forum Listing

Forum	Topics	Posts	Last post
International Open Government Data Conference 2010	1	3	by Jacine Holm 1 day 4 hours ago
Best practices - who's doing what?	2	8	by groupop 8 hours 40 min ago
Security and openness: what's the balance?	1	1	by Jeanne Holm 2010-11-15 05:56
Policies for international data sharing	3	5	by Harjo Huomari 8 hours 57 min ago
Exploring semantic technologies	1	1	by Abbas Datta 2010-11-15 15:29
Accessing and finding data	4	8	by Alex Glaros 1 day 17 min ago

Active group topics

- Calling all great examples of open government data
6 comments | Last comment 8 hours ago
- Article about your important work
| Last comment 8 hours ago
- Article about your important work
| Last comment 8 hours ago
- Top down vs. bottom up?
3 comments | Last comment 10 hours ago
- Can everyone that maintains enterprise architecture taxonomy post it as raw data?
| Last comment 1 day ago

Resource Prioritization



Cross Agency Interoperability





International Open Government Data Conference

“Sunlight is the Best Disinfectant.”

-- Justice Louis Brandeis