Data.gov and Open Data in the United States

Data.gov Team
April 2013
Data.gov

- Provides instant access to ~400,000 datasets in easy to use formats
- Contributions from 180 agencies, UN, and World Bank
- Encourage development of innovative applications
- Drive innovation and knowledge use across the globe
US Digital Strategy

• Ensure that as the government adjusts to this new digital world, we seize the opportunity to procure and manage devices, applications, and data in smart, secure and affordable ways

• Unlock the power of government data to spur innovation across our Nation and improve the quality of services for the American people

WhiteHouse.gov/digitalgov
Creating a Data Ecosystem

1. Gather data
   – from many places and give it freely to developers, scientists, and citizens

2. Connect the community
   – in finding solutions to allow collaboration through social media, events, and platforms

3. Provide an infrastructure
   – built on standards and interoperability

4. Encourage technology developers
   – to create apps, maps, and visualizations of data that empower people’s choices

5. Gather more data
   – and connect more people

“A Strategy for American Innovation” published September 2009
Stories Around Open Data

http://alpha.data.gov
Open Communities

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<th>Community</th>
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<td>Developers</td>
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<td>Safety</td>
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<td>Counties</td>
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<td>Cities</td>
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<td>Sustainable Supply Chain</td>
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<td>+ many more…</td>
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Energy.Data.gov connects innovators, industry, academia, and government at federal, state, and local levels.
- Energy.Data.gov works with groups and challenges across the nation to innovate around federal data
• Apps transform data in understandable ways to help people make decisions
Green Button

- Anyone can download their home or business energy use data from their local utility
- Then use apps to manage their energy use to save money and go green
- More at Energy.Data.gov
Easy to Find Data
Helping Others Through a Disaster
Restore the Gulf: Deepwater Horizon
Japanese tsunami, earthquake, and radiation monitoring

Data and apps from EPA via Data.gov
Hurricane Sandy

Early warnings save lives

Data from USGS via Data.gov
The Power of Visualizations
• Provides developers tools and raw data formats to develop new capabilities
• Partnership with
  – W3C: eGov Interest Group + activities, standards, and recommendations
  – RPI for research in semantic web and open linked data
• Data hosted in the cloud
• Open source platform
• Builds on ontologies developed in specific areas
In September 2011, President Obama announced at the UN General Assembly...

- Contribute Data.gov as a platform (Government of India and the U.S.)
- Foster communities on Data.gov
  - Health, energy, and law plus new communities in education, research and development, and public safety

In September 2012, President Obama reported these actions delivered
Open Government Platform (OGPL)

- Open source co-developed by Governments of India and US under a bilateral agreement with Department of State
- Data.gov is running on OGPL (as is India, Ghana, and soon Rwanda and Canada)
- Coordinating with open data providers, platforms, W3C, World Bank, CKAN, and open source developers worldwide
- Public comments and tracker on Github
- Drupal 6 operational code available now
- Drupal.org formal project process underway
- Email, Github, Facebook, Drupal.org, and Twitter for discussion
  - https://github.com/opengovtplatform
  - http://www.opengovplatform.org
Data.gov Capabilities

• Present
  – Dataset Management
    • Workflow engine and metadata editor
    • Extended Dublin Core
  – Search
    • Keyword and faceted filtering
    • 6.7 billion triples
  – Geo
    • Search, harvest, and visualize via www.geoplatform.gov
  – Vocab.Data.gov
    • Vocabulary and schema engine for linked data
    • URIs for all health data

• Future
  – OGPL
    • Open source platform
    • Drupal + CKAN
  – API key registry
    • API key authorization
    • Application statistics
  – Enhanced search
    • Federated catalogs across agencies, cities, and topics
    • ADMS-based metadata
  – Vocab.Data.gov
    • Federated ontologies
    • URIs for all data
US Open Data at Cities, Counties, and States
A Global Movement Has Begun to Provide Transparency and Democratization of Data

Don’t see your site? Update via @usdatagov
The Path Ahead

- Bring data up and out of government to the public ★
- Make data accessible and linked ★★★★★
- Create communities to understand and apply data
- Connect and collaborate with small businesses, industry, and academia to drive innovation
- Continue to develop OGPL with community development
- Share with others to understand global issues

*We need to securely architect our systems for interoperability and openness from conception.*

—Digital Government
Let’s work together to set the data free!

www.Data.Gov
@usdatagov