Big Data for Government Symposium
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Technology Training Corporation
U.S. Dept. of Health & Human Services
Health Data Initiative (HDI)

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The beginning...

• 2010 started with 40 entrepreneurs around a table, 25 datasets, 90 day challenge First Datapalooza

• Health Datapalooza IV -- 2,000 people

• HealthData.gov has over 1,000 datasets cataloged

• Disruption is happening - we see companies springing up led by entrepreneurs who know nothing about healthcare
Data, Tigers & Innovation; oh my! A recap of Health Datapalooza IV

I hear from first-time Paloozer Deneen Stading-Ojo and her recap of Health Datapalooza IV. Plus links to presentations, photos & videos from the event! Read more »
Health Data Initiative (HDI)

• **Mission:** To help improve health, healthcare, and the delivery of human services by harnessing the power of data and fostering a culture of innovative uses of data in public and private sector institutions, communities, research groups and policy making arenas.

• **Goal:** Make health data openly available, disseminate the data broadly across the health and human services ecosystem, and continuously educate internal and external participants in the ecosystem about the value of the data.
The new strategy...

• Advancing the HealthData.gov platform to a more efficient, user friendly, technically advanced map for data discovery.

• Highlighting departmental assets that support achieving HHS strategic initiatives and an increased focus on strategic data liberation.

• Educating new and existing, internal and external participants in the health and humans services ecosystem about data’s availability for innovative applications and disseminating the data for problem solving.

• Enabling and incentivizing the health data ecosystem to utilize all data assets in innovative ways.

• Implementing administration and departmental policies that foster openness and transparency.

• (Measuring the outcomes and impact of the HDI and related activities.)
Advancing the HealthData.gov platform to a more efficient, user friendly, technically advanced map for data discovery.

- Improving metadata quality for better usability
- Area of the platform for non-HHS data
- Obtain future funding
- User feedback loops for better usability
- Developing and publicizing the ability to store and host HHS data
- Improve sort and search
Highlighting departmental assets that support achieving HHS strategic initiatives and increased focus on strategic data liberation.

- Draft a working definition for “Strategically Relevant Data Assets” (SRDA) and generate a list of those HHS data assets.

- Further drive the department’s culture change toward data openness

- Work with departmental divisions on external outreach to broad as well as targeted specific ecosystem participants about the availability and potential creative uses of HHS public data sources.

- Increase the traffic to Healthdata.gov as the discovery zone for Federal & state health & human services data
Educating new and existing, internal and external participants in the health and human services ecosystem.

• Spotlighting the value of openly available health data to health care transformations

• Increasing the percentage of machine readable data assets

• Continuing and expanding external outreach

• Develop use cases and an internal marketing approach to enhance workforce engagement and continue the culture shift toward an understanding of and appreciation for open data.

• Insert the tenets of the HDI into IDEA Lab programs
Enabling and incentivizing the health data ecosystem to utilize all data assets in innovative ways.

• Continue to publicize the availability of the data and draw attention to uses of the data as one of the biggest drivers in the transformation of health, healthcare, and the delivery of human services.

• Seek new ways to engage entrepreneurs who may use the data as fuel for their business.

• Develop relationships and support the needs of federal and non-federal data projects, data enclaves, repositories, and innovation test beds to meet the demand for more powerful analytic capabilities.
Implementing administration and departmental policies that foster openness and transparency.

• Draft an HDI Charter to institutionalize the Health Data Initiative

• Implement the Open Data Policy—Managing Information as an Asset

• Draft plans to address the impacts of the Holdren Memo on Increasing Access to the Results of Federally Funded Scientific Research

• Continue to be a leading agency in the execution of the Executive Order on Making Open and Machine Readable the New Default for Government Information

• Distribute across the department procurement and acquisition language supporting the integration of open data requirements into Federal acquisition and grant-making processes.

• Clarifying the relationship of the Open Data Policy, Holdren Memo, and Executive Order for the implications of each individually and as contrasted with each other.
HealthData.gov

Medicare.gov
The Official U.S. Government Site for Medicare

OBRFSS
Behavioral Risk Factor Surveillance System

CDC
SAFER • HEALTHIER • PEOPLE™

HEALTH INDICATORS WAREHOUSE

AHRQ
MEPS

HRSA
HRSA Data Warehouse (HDW)
Health Resources and Services Administration (HRSA)

• The official repository of HRSA’s data and provides an array of visual and interactive tools for searching, accessing, viewing, and displaying the data.

• The HDW is used by grantees, care providers, HRSA staff, the general public, and other audiences interested in HRSA’s public health services and information.
Medical Expenditure Panel Survey (MEPS) (AHRQ)

The Medical Expenditure Panel Survey (MEPS) is a set of large-scale surveys of families and individuals, their medical providers, and employers across the United States. MEPS is the most complete source of data on the cost and use of health care and health insurance coverage.
Health Indicators Warehouse (CDC)

• Provide a single, user-friendly, source for national, state, and community health indicators.

• Meet needs of multiple population health initiatives. Facilitate harmonization of indicators across initiatives. Link indicators with evidence-based interventions.
WONDER
Centers for Disease Control & Prevention (CDC)

• Data for Epidemiologic Research
• An easy-to-use, menu-driven system that makes the information resources of the CDC available to public health professionals and the public at large. It provides access to a wide array of public health information.
Behavioral Risk Factor Surveillance System (BRFSS) (CDC)

- BRFSS marks its 30th year in 2013
- Remains the gold standard of behavioral surveillance.
- Data are collected monthly in all 50 states, the District of Columbia, American Samoa, Palau, Puerto Rico, the U.S. Virgin Islands, and Guam.
Data.Medicare.gov (CMS)

- Direct access to the official data from the Centers for Medicare & Medicaid Services (CMS) that’s used on the Medicare.gov Compare Websites and Directories. The goal of the site is to make these CMS data readily available in open, accessible, and machine-readable formats.
Researchers will:

• Be able to access Medicare data at a significantly lower cost

• No longer need to maintain expensive data infrastructures of their own because they can access data in a CMS environment by means of a secure virtual desktop.

• Have the ability to refresh their data routinely.
FDA Open Data Initiative

• Focused on the top layer of the most demanded assets
• Using Freedom of Information Act (FOIA) requests as a guide
• Looking at adverse events, drug recalls and structured product labeling
NIH Big Data to Knowledge: Six Big Problems to Solve

1. Locating the data

2. Getting access to the data

3. Extending policies and practices for data sharing

4. Organizing, managing, and processing biomedical Big Data

5. Developing new methods for analyzing biomedical Big Data

6. Training researchers who can use biomedical Big Data effectively
Innovative uses of HHS Data
Thank you!

Read more: HealthData.gov/blog

Questions?...