



Big Data for Government Symposium

<http://www.ttcus.com>



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TTC™

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Linkedin/Groups:
Technology Training
Corporation



HHS Health Data Initiative

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U.S. Department of Health & Human Services,
Office of the Secretary,
IDEA Lab

Innovation, Design, Entrepreneurship & Action





Health care is a
\$2.8T industry in
the U.S., 18% of
our GDP and
growing



We are now living in a
health care system where
data is driving change

Data is changing...



Payment reform



Individual health interaction



Treatment @ the point of care



In the Beginning...

In 2010 - 40 entrepreneurs around a table, 25 datasets, 90 day challenge... First Datapalooza!

4 Years later... 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





CMS released charge data for most
common in- and outpatient hospital
procedures

CHARGE MASTER

COUNTY GENERAL HOSPITAL

CHARGE ID	CHARGE DESCRIPTION	PCS ID	OPT 1	PCS 1	PCS 2
402419	INS REG BLOCK NEEDLE			40.25	379
425886	ADD MODALITY/AREA 1/5 MIN	97101		\$1.70	420
3010010	ICU/CCU MED SURG			2,100.00	290
3000072	MED SURG - SEMI PVT			1,800.00	121
3140032	WEST OPEN			2,100.00	134
3150040	ADOLESCENT PSYCH			2,100.00	134
3360052	EAST			1,400.00	134
3370025	MED SURG 1:1 STAFFING			125.00	339
3370050	PSYCH 1:1 STAFFING			125.00	339
3400062	CSH			2,100.00	204
3400068	PSYCH - 1:1 STAFFING			125.00	339
3540070	DE TOX ADULT			1,400.00	134
3540071	DE TOX ADOLESCENT			1,400.00	134
4020550	MINOR SURGERY 1 HR			672.30	340
4020551	MINOR ADULT 1/4 HOUR			549.00	340
4020552	MINOR SET UP			968.20	340
4020553	MINOR INSTRUMENTS			1,317.60	340
4020559	MAJOR SURG INST			746.80	340
4020560	MAJOR SURGERY SETUP			2,781.60	340
4020561	MAJOR SURGERY 1ST HR			491.40	340
4020562	MAJOR ADDITIONAL 1/4 HR			203.50	340
4020563	OP SURG OBS 1/4 HR			116.30	471
4020564	HS RD AFFINITY STUDY			410.80	949
4020566	EMERGENCY SURGERY			226.30	340
4020567	SECOND PROCEDURE			100.00	340
4020568	BLOOD TRANSFUSION 1 HR			477.00	340
4020569	RECOVERY 1/4 HR				
4020570	RECOVERY 1/2 HR				
4020571	RECOVERY 3/4 HR				
4020572	RECOVERY 1 HR				





LAST 3 YEARS FOCUSED ON LIBERATING DATA

**Changed the default setting for
data from closed to open**





OPEN DATA EXECUTION PLAN 5 GOALS:

Advancing HealthData.gov site

Highlighting departmental assets that support achieving HHS strategic initiatives

Educating new and existing, internal and external participants

Enabling and incentivizing the health data ecosystem

Implementing administration and departmental policies that foster openness

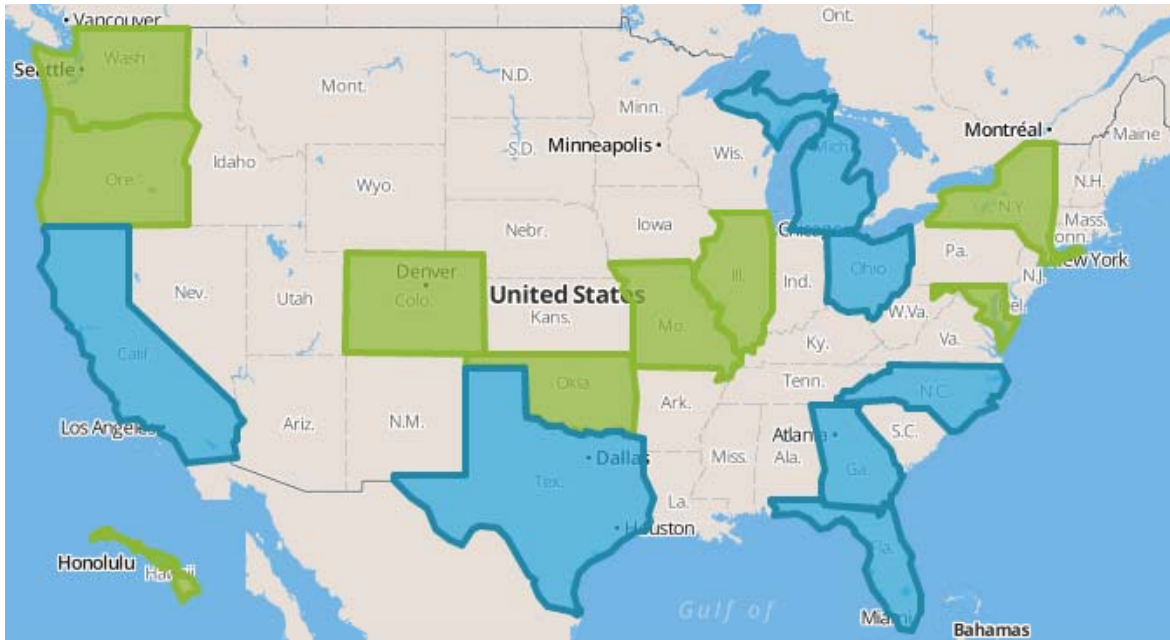


Advancing the HealthData.gov site

- Improving metadata quality for better usability
- Area of the platform for non-HHS data
- User feedback loops for better usability
- Developing and publicizing the ability to store and host HHS data
- Improve sort and search



State Data on HEALTHDATA.GOV



Data catalog has grown 397% in one year

Even more federal data coming soon

More opportunities to use health data

Incorporated data (green) from States: CO, MD, NY, IL, WA, HI, OR, OK, MO

Working to include (blue) from: CA, FL, TX, OH, MI, GA, NC



Highlighting departmental assets that support achieving HHS strategic goals

- 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 each HHS division on external outreach to broad as well as targeted specific ecosystem participants
- Increase the traffic to [Healthdata.gov](https://healthdata.gov) as the discovery zone for federal & state, and local health & human services data



Educating new and existing, internal and external participants

- Spotighting 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 to enhance HHS workforce engagement to 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

- Continue to publicize the availability of the data and draw attention to uses of the data 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 for more powerful analytic capabilities



Implementing administration and departmental policies that foster openness

- HDI Charter to institutionalize the Health Data Initiative
- Implement the Open Data Policy M13-13 – 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
- 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



More data



BLUE BUTTON

Patients can now **view, download** and **transmit** their **health data**

New **Public-Private Partnership** with Nation's largest **retail pharmacy chains**

New rule for direct access to **test results**

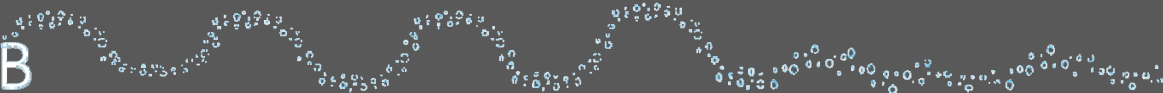
Blue Button Connector



What we're liberating



IDEA LAB



CMS data becoming **more accessible**

Medicare Provider Utilization and Payment
Data **just released**



Already have seen a number of **insights**
and **visualizations** off of this data

New **data enclave** (Virtual Research Data
Center)

More **opportunities** to do things with **CMS**
data than ever before





OpenFDA Project

More data available in more useful formats via **API** and **raw structured file** download

- Recall data
- Adverse events
- Structured product labeling



NIH research **manuscripts** required to be **online 1 year** after publication

Public access policy **expanded** to all of HHS

Speed up translation of research findings

Liberating NIH data with **Big Data to Knowledge** Project

More potential with combination of **multiple** data streams



National Institutes
of Health



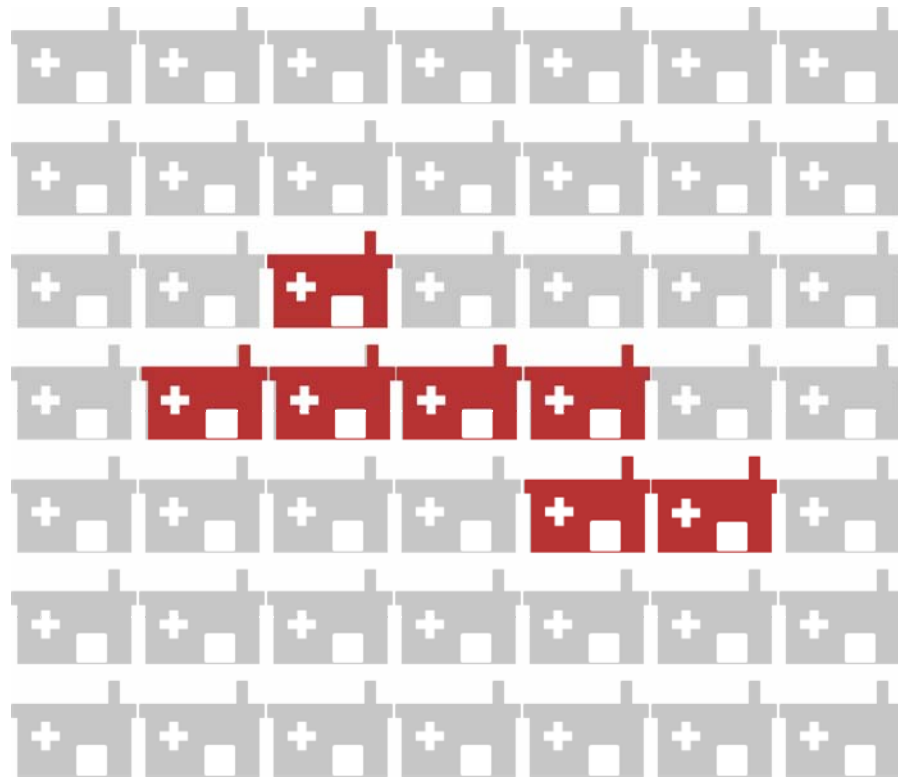


stridehealth





aidin





Purplebinder

Learn more based on your industry



Cities & Funders

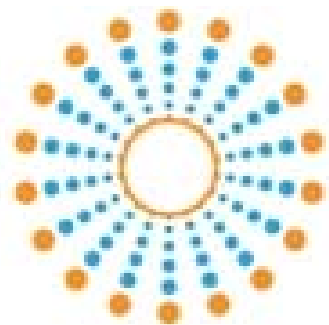


Healthcare



Non-Profits





A HEALTH DATA CONSORTIUM EVENT

HEALTH DATAPALOOZA

UNLEASHING THE POWER OF OPEN HEALTH DATA

Speakers include:



Steven
Brill



Jonathan
Blum



Jonathan
Bush



Francis
Collins



Elliott
Fisher



Atul
Gawande



RT. Hon.
Jeremy Hunt



Vinod
Khosla



Adriana
Lukas



Todd
Park



Hon. Kathleen
Sebelius

Join us June 1-3 in Washington, D.C.

Take advantage of discounted rates through March 31 at:
HealthDatapalooza.org

IDEA LAB



PARTICIPATE IN CODE-A-PALOOZA 2014

Use Medicare Provider Utilization and Payment Data

\$35k in total prizes

Timeline:

- April 9 –Code-a-Palooza opens for submissions
- April 17, 4:00-5:00 p.m. ET – Code-a-Palooza webinar
- April 25 – Visualization proposals of no more than 750 words due
- May 2 – Top five to ten finalists notified
- June 1-3 at Health Datapalooza – Finalists present a live demo to a panel of judges and winners are announced

More info at healthdatapalooza.org



WE **NEED** YOUR HELP

Are you a disruptor?
Follow @HealthDataGov

Help us disrupt the health care ecosystem

- **Tell us what data you want to use**
- Help us define a strategically relevant data set
- Share your data with us
- Tell us how you are using health data



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IDEA LAB

INNOVATION DESIGN ENTREPRENEURSHIP ACTION @ HHS



HHS INNOVATES



HHS ENTREPRENEURS



HHS INNOVATOR-IN-RESIDENCE



HHS IGNITE



HHS VENTURES



HHS COMPETES





**“COME JOIN THE HHS IDEA LAB TEAM! APPLY
TO BE THE NEXT HEALTH DATA INNOVATOR.”**

HHS.gov/IDEALAB





MORE INFORMATION

**On the web at HealthData.gov &
HHS.gov/idealab**

Follow us on Twitter [@HHSIDEALab](https://twitter.com/HHSIDEALab)

Me: [@DamonLDavis](https://twitter.com/DamonLDavis)