



# Open Water Data Initiative

Status – September 25, 2014

Subcommittee on Spatial Water Data

# Please help record minutes

- ◆ Please go to Gdrive doc in calendar invite and enter yourself as an attendee
  - If you are new, add to first section
  - Name, job, and email
- ◆ After first section we'll do introductions and catch anyone that can't add themselves to the document
- ◆ Please join in and help keep notes while we're going



# Lean Startup Principles & Inspiration

◆ Highly recommended:

<http://www.udemy.com/lean-startup-sxsw-2012-videos-and-presentations/>

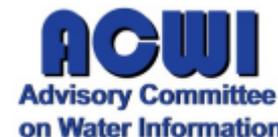
◆ Lecture 12: Todd Park, 2<sup>nd</sup> US CTO Lean Startup in Government

◆ See also:

- Innovative State, by Aneesh Chopra
- The Lean Startup, by Eric Reis
- O'Reilly: Lean Series of books



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# LEAN STARTUP IN GOVERNMENT

# A tale of 3 lean startups in the U.S. government

Macon Phillips (@macon44)

Todd Park (@todd\_park)

- Health Data Initiative
- White House Digital
- HealthCare.gov



# Health Data Initiative: turning HHS into the “NOAA of health data”

Weather data



Made available to the public

FUELS

- Weather newscasts
- Weather websites
- Weather mobile apps
- Weather insurance
- And more



AccuWeather.com  
World's Weather Authority™

# 90 days later, "Datapalooza I:" 20+ new/improved apps built leveraging our data

**Sonoma County Network of Care™ for Healthy Communities**

- Community Dashboard
- Promising Practices

**Healthy People 2020**  
Healthy People 2020 promotion objectives assess their health improvement.

Sonoma County is measuring up to the 2010 Targets.

2010 Targets	Current and Target
<b>Access to Quality Health Services</b>	
Children with Health Insurance	Current: 88.5 percent Target: 100 percent
People with a Usual Source of Health Care	Current: 93.4 percent Target: 85 percent

**New York**  
10010  
18.7 Smoking  
Diabetes  
Unemployment  
Obesity  
College-Healthways Well-Being Index

**Boston**  
02476  
19.8 Smoking (LOSS)  
5.6 Diabetes  
2.7 Unemployment  
17.8 Obesity  
68 Well-Being Index

Is the city or area where you live getting better or worse as a place to live? Track your well-being and compare your score to your friends.

**Twitter: listen to the conversations happening now.**

**Diabetes**  
TotalFocus RT @heycohen If only teens would listen to @TotalFocus's advice... No smoking or drugs, they're bad for your health.

**Obesity**  
endishabab @ishabab There is 1 in the Health Apps, right? Don't know if an app can help u quit smoking, but go 4 it any way you can! =P U can do it!

**MedicalFood** Schwarzenegger stubs out California smoking ban: (Source: Monsters and Critics Health News) MedWom Message Get th... http://DailyLift.net

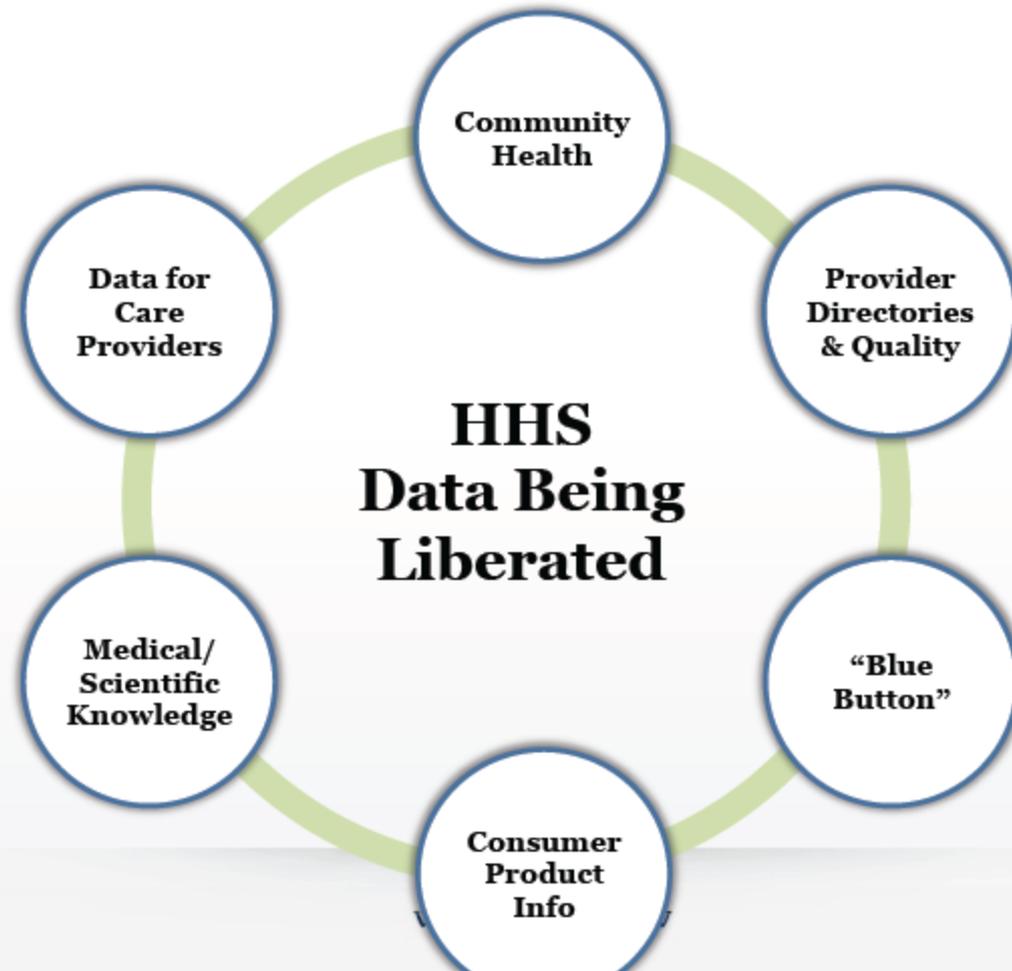
**GuthrieGoldman** Let's be frank, the health lobby always played a pos & thumb trick with the costs of smoking, adding up any cost no matter how doozy...

# The play we discovered we needed to run

1. Publish new data for public/external access
2. Make existing data machine-readable, downloadable, accessible via APIs
3. Energetically market our data to innovators
4. Show HHS data owners what innovators are able to produce with the data



# Unleashed: a growing river of data liberation...



# ... intertwined with a growing river of innovation powered by open data

2011 Health 2.0  
DEVELOPER CHALLENGE

## Imagine

[Skip to Main Content](#)

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### ONLINE CHALLENGES

Healthcare has big challenges. And technology might not solve them all. But we believe in progress one app at a time. Have a technical problem that needs working out? An app you wish existed? Data that's sitting on the shelves getting dusty that could be made more useful? You will be amazed by what's possible. Read the [FAQs here](#).

[Submit a challenge](#) | [Sponsor a challenge](#)

### LIVE CHALLENGE

Want to connect, collaborate real-time? That's what the Code-a-thon is all about. Whether you're a developer, researcher, a physician or a patient, your perspective is an important viewpoint that we'd love to hear. **Check back soon for more about our 2011 schedule.**

Want to sponsor a Code-a-thon?



# “Datapalooza II:” 50 amazing innovations, selected via an “American Idol”-style bakeoff, already serving millions of Americans



# The river of open data and innovation is now becoming a flood

- More data
- More challenges
- More startups, products
- Health Data Consortium



**metLife**  
N Y S D O H



sanofi-aventis U.S. innovation challenge



**Cajun Code Fest 2012**

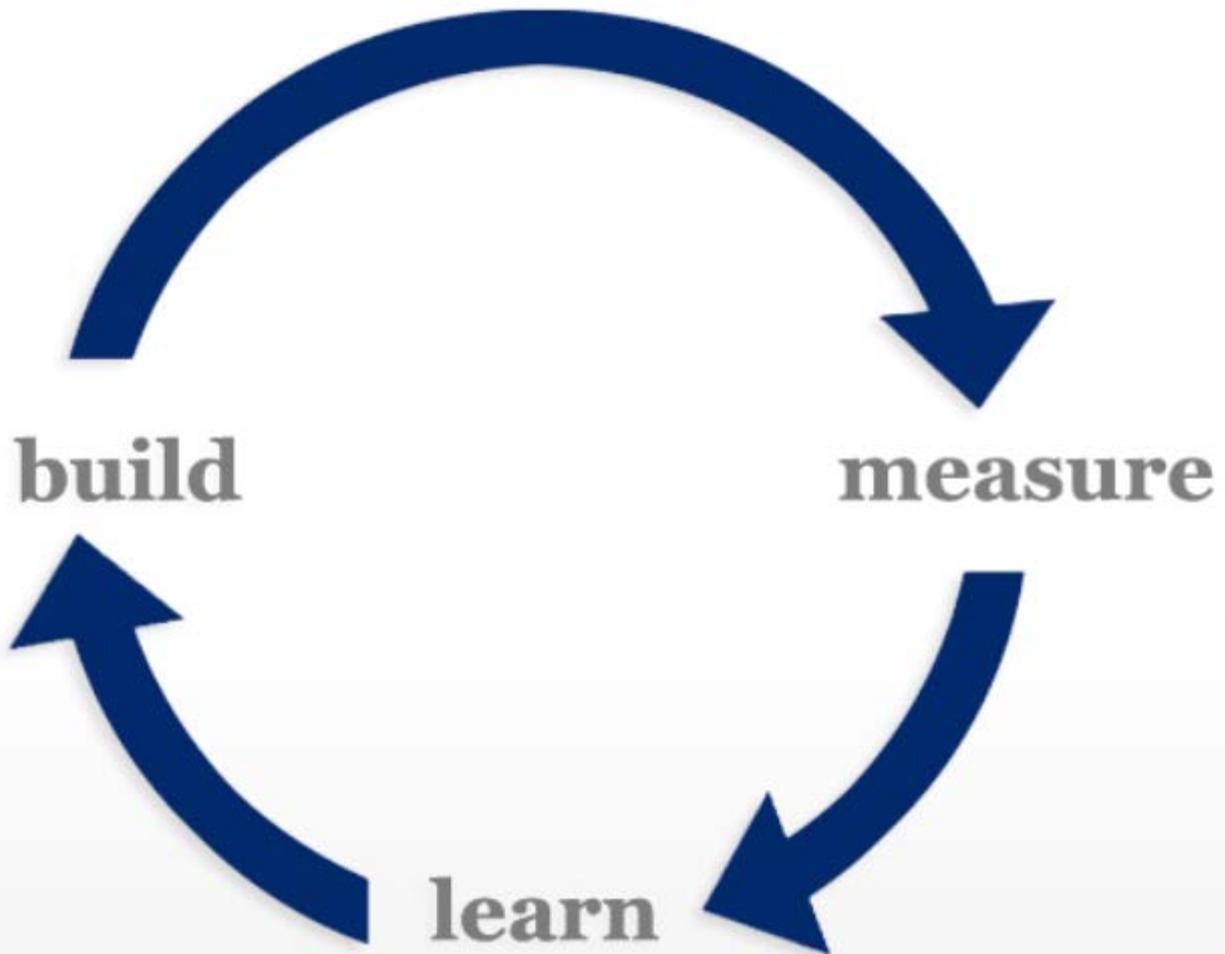
*The Louisiana Code-a-thon*

April 27-28, 2012

University of Louisiana at Lafayette Research Park  
Lafayette, Louisiana



**HealthDataInitiative Forum III**  
**The Health Datapalooza**



WHITEHOUSE.GOV

# Use Case Concepts

- ◆ Define use cases that respond to societal needs and cover broad range of water resources sectors
- ◆ Identify critical data inputs — focus on these first
- ◆ Divide and conquer — separate teams will address each use case in parallel; later teams will work on specific data streams
- ◆ Measure and learn — figure out how to do this

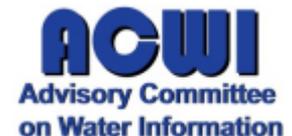


# Initial Use-case Proposals

- ◆ National Flood Interoperability Experiment (NFIE) – flood and inundation information at high spatial/temporal resolutions)
- ◆ Regional Water Supply Decision Support
- ◆ Chemical Spill Response – event driven water quality information needs



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# Timeline:

## ◆ This meeting

- Settle on priority use cases
- Assign teams to develop use cases

## ◆ October meeting

- Compare use case data needs, identify overlaps
- Assign teams to develop solution space (e.g. existing systems and services) for data service requirements



# Mid-range plan:

- ◆ Late November 2014
  - Prioritize data requirements
  - Identify requirements for any missing standards
  - Identify information structure i.e. *hydrofabric*
- ◆ December-March 2015:
  - Initial design and implementation of services/UI's
  - Testing and user feedback
- ◆ April-May 2015
  - Second version of services/UI's
  - All services supporting NFIE online by late May



# Use Cases Deeper Dive

- ◆ Describe use case well enough to understand what it is about
- ◆ Assign teams that will develop further and identify data needs
- ◆ Focus is on the data
- ◆ Figure out what we mean by *Open*
- ◆ We are not trying to design the solution, just identify the data needed



# Is anything missing?

◆ Big stuff?



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# Boring Stuff...

- ◆ Terms of Reference on web site
- ◆ Update of membership roster: need letter (snail mail, on letterhead) from organization
  - Pledge to support (attend meetings, etc.)
  - Identify primary, alternate (optional) contacts
  - Send to:

Attn: Wendy Norton

U.S. Geological Survey, MS 417

12201 Sunrise Valley Dr

Reston, VA 20192-0002



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# Next Steps:

- ◆ Lean Startup – learn what we can
- ◆ Identify your key technical people to design services
- ◆ Think about who can test services as end users
- ◆ Regular meetings: 4<sup>th</sup> Fridays 1-3 ET
- ◆ Nov, Dec: 3<sup>rd</sup> Fridays



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