Technology and Innovation for Disaster Preparedness, Response, and Recovery

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Subcommittee on Disaster Reduction Sept. 2014 meeting

July 29 Demo Day

- 20+ talks including FEMA, DHS S&T, HHS, DOE, NGA, USGS, EPA, USAID, NSC, OSTP, Google, Microsoft, Airbnb, NPR, Twilio
- 30+ commitments from public and private sector
- Tech showcase featuring free/open source solutions
- 6 workshops on Open Data, Predictive Analytics, Social Media, Sharing Economy Platforms, Standards, User-Centered Design

Resources: Video, Fact Sheet, Blogposts

10:30-11:00 BRAINSTORM
-10:50 SEEDS OF CHALLENGES
11:00-11:50 FORMULATE CHALLENGE STATEMENT
11:50-12:05 CHALLENGE STATEMENT
12:05-12:30 WORKSHOP SHOW & TELL

Decisions
Cascading
New/Novel
uses for current
Distro channels
Data
Machine Readable
vs
Human Understandable
Capture
Best Practices
Over Load
Parallel
by
Analysis
Measure
Tradition
≠
Technology
Not one
way
Event Prediction
Event Triage/
Response
Reliability
&
Integrity
DB
Who is your
end user?
(or customer)
(aka garbage in garbage out)
What is your decision
timeframe?
Time
dollars/cents
computational cost
Scope
Make it
Actionable
Recovery Solutions
Communication
How can Predictive
be used to build
"playbooks" &
support for

Ongoing efforts + ways to get involved

- National Preparedness Month and PrepareAthon!: share tech/innovation activities we could feature
- Save the date + provide input/feedback: Civic Hardware Hackathon on disaster preparedness projects, Oct. 10-11, Red Hook, Brooklyn, co-hosted by The Feast, Intel, DHS S&T (see flyer for details)
- Preparing for launch of disasters.data.gov: open data, apps/tools, and Challenge Statements identifying gaps where free tools/platforms could improve outcomes
  - Share new datasets, free apps/tools that could be featured
  - Help develop Challenge Statements

Challenge Statement Example:

The Homeland Security Enterprise of over 3.5 million first responders and emergency managers must make difficult decisions in the field to safeguard our Nation, often triaging multiple streams of information.

How might we provide 'Social Media, Unplugged'— ***a means for response organizations to easily and securely extract emerging insights*** *to better inform and coordinate disaster response?*

(1) Challenge details: How is this done today? What are the limitations?

(2) Example 'wish list' capabilities: frame without dictating specific tech details

(3) Impact: What does success look like?

(4) Info for planning team: what opportunities are available? (pilot testing, collaborations...)

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