

Crisis Informatics

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AP/Jae C Hong



FEMA photo/Ed Ahi



FEMA photo/Andrea Booher



FEMA photo/Booher

Mass Convergence

People
Resources
Information

OFFICIAL RESPONSE “Formal”



PUBLIC RESPONSE “Informal”







USCG photo/Chief Brandon Brewer



PUBLIC RESPONSE “Informal”



**OFFICIAL
RESPONSE
“Formal”**



**PUBLIC
RESPONSE
“Informal”**



“information interface”

Two Forms of Public Response:
Spontaneous
Solicited



@pulsemusic_t

Satti March 15, 2011

Tweet

4



福島市 ヨークベニマル太平寺店 レジ待ち。惣菜、パンまだあります。水、米、ラップ無し。野菜、魚に肉が想像以上に豊富にありました。 #Fukushima

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Satti March 15, 2011



福島市 ヨークベニマル太平寺店 レジ待ち。惣菜、パンまだありま、ラップ無し。野菜、魚に肉が想像以上に豊富にありました。 #F

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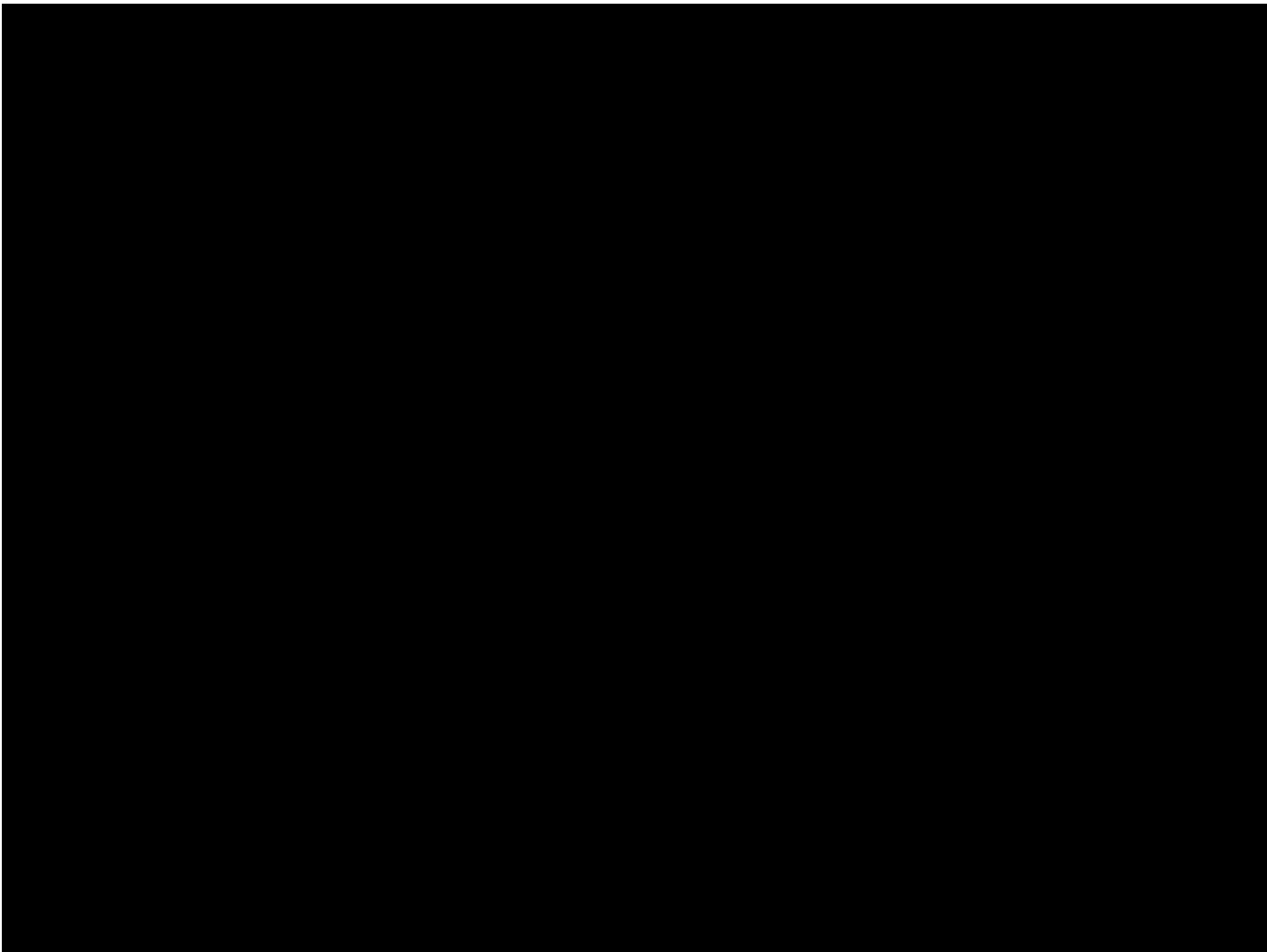
Fukushima city,
 "Youkubeni" (?)
 mall, Peace
 Temple store,
 waiting in the
 checkout line.
 There's no bread
 yet. As for daily
 items, (we are)
 without water,
 rice and plastic
 wrap. There used
 to be more than
 enough, an
 abundance, of
 everything you
 could imagine,
 from vegetables
 to fish and meat.



FEMA/Andrea Boohar

Self-Organization of Digital Helper Networks

Geeks for Haiti
CrisisCamps



day 0



Humanitarian Open Street Map: Haiti

Red River Flood Community Sandbagging Effort, 2009



FEMA/Andrea Booher

A large crowd of people is working in a warehouse or gymnasium, filling sandbags for disaster relief. The scene is filled with people of various ages and ethnicities, many wearing casual clothing. They are gathered around large piles of sand and stacks of white sandbags. Some people are sitting on the floor, while others are standing and talking. In the background, there are yellow forklifts and a large yellow truck. The ceiling of the building is high and has a complex structure of beams and supports. The overall atmosphere is one of busy, organized activity.

What are good disaster-based crowdsourcing tasks?



FEMA/Jocelyn Augustino

What's Ahead?

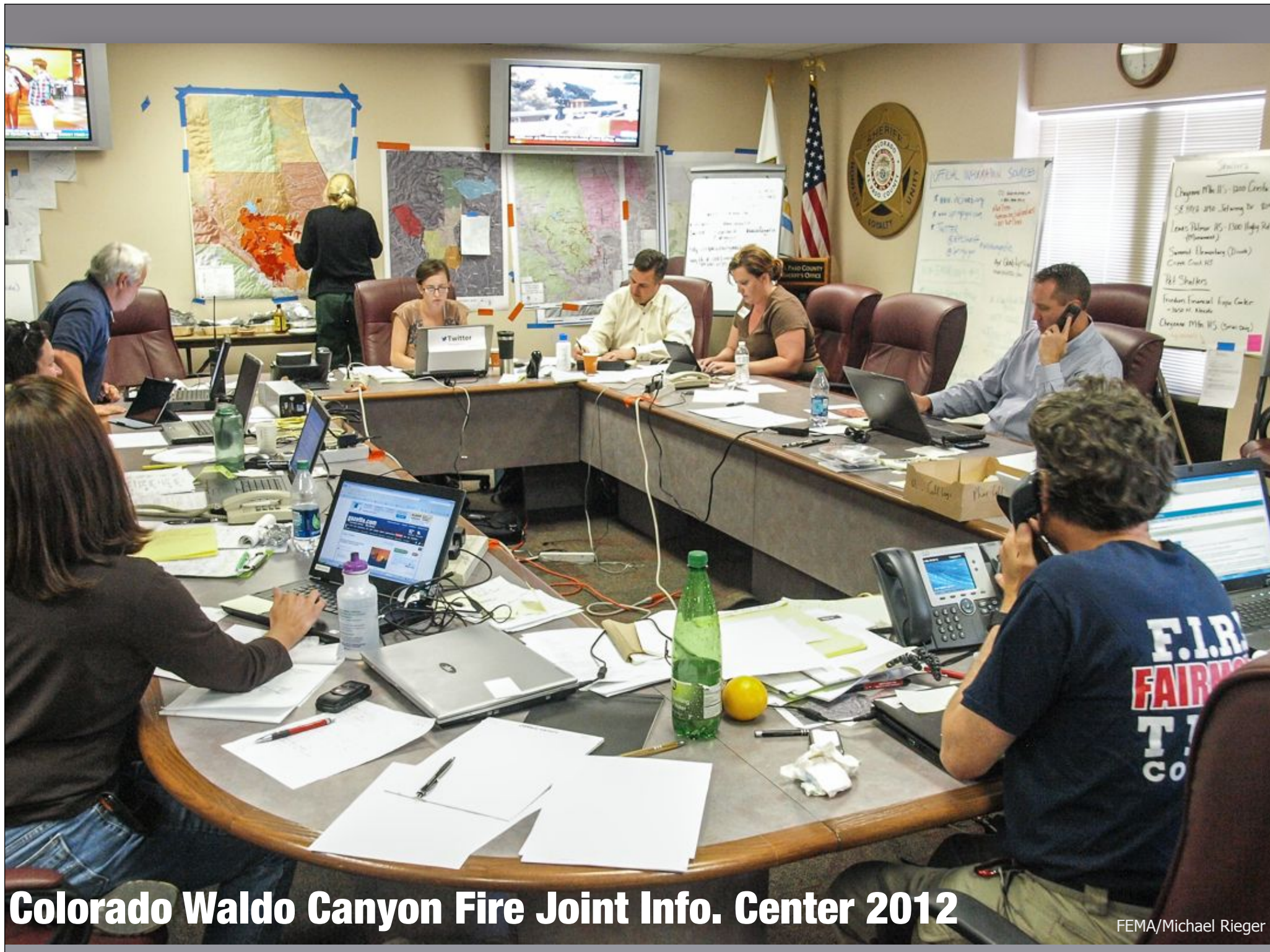
Crises are Places of Innovation



Fundamental Institutional Shifts in Practice & Policy



Leysia Palen



Colorado Waldo Canyon Fire Joint Info. Center 2012

FEMA/Michael Rieger



Astrodome Shelter, Katrina Aftermath

FEMA/Andrea Bocher

Perilous but Promising:
CS Research is Deeply Consequential

Thank you

National Science Foundation

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 @palen

@epiccolorado



API/Jae C Hong