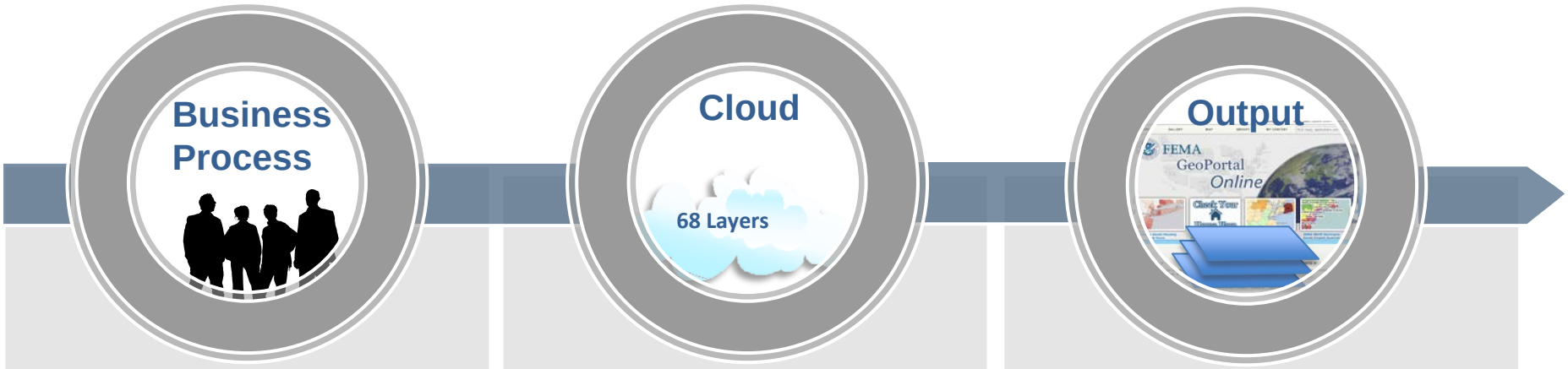
GeoSupport to Sandy

FEMA

Feb 2013

FEMA GeoCONOPS



GeoCONOPS

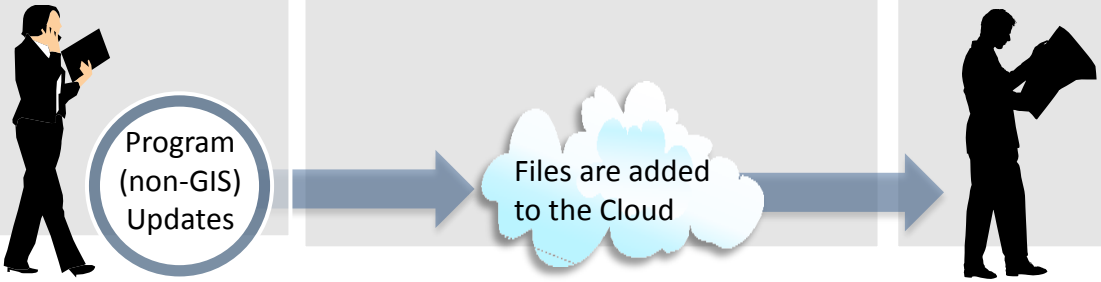
- 5 year study provided by DHS
- 1000 Total Layers
  - 68 FEMA Layers
- Enter data once, view in multiple systems
- Information management

Common Storage

- Reduces operation and maintenance cost
- Enhances information sharing and distribution of work to Regions, IMATs, USAR, etc.
- Only limited by ideas, not technology

Dissemination

- Discovery
- Whole Community
- "Create your own" view
- Easily integrated in other mediums (i.e., mobile, web)



FEMA Geo*Operations*

Whole Community approach to geospatial operations

FEMA's Modeling Task Force

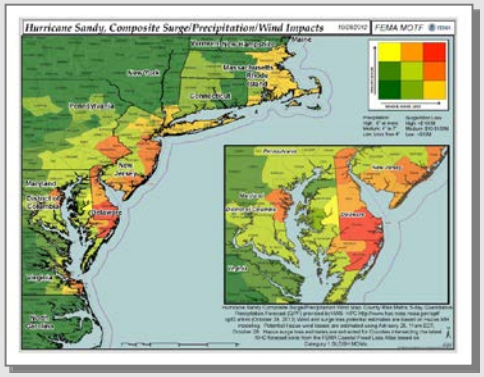
- On-call, distributed analysis
- Real-time storm surge sensors
- 850+ High Water Marks

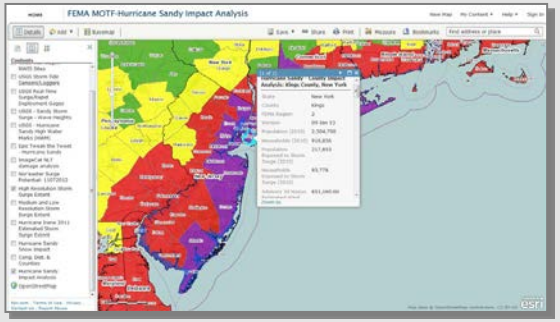
Civil Air Patrol/NOAA collected 157,000+ images

Over 147,000 individual structural assessments

- 44,000 applicants received expedited rental assistance
- Supported IA housing and planning efforts

FEMA Modeling Task Force (MOTF)





Pre-Landfall Risk Matrix

Relative County risk based on:

- Precipitation (QPF)
  - High: 8” or greater
  - Medium: 4” to 7”
  - Low: Less than 4”
- Hurricane Storm Surge and Wind Loss:
  - High: >$100M
  - Medium: $10-$100M
  - Low: <$10M

County Impact Analysis

- Comprehensive list of exposure and loss impacts aggregated to the county level

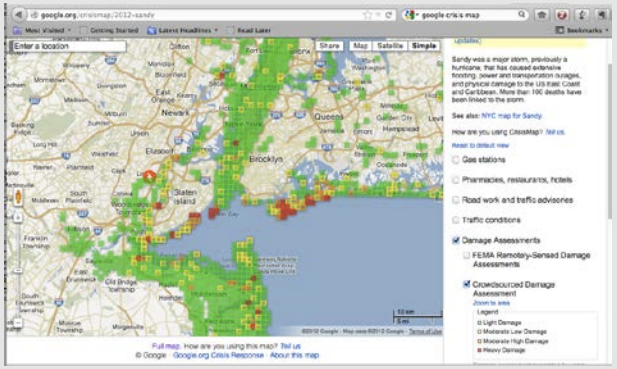
Storm Surge Analysis

- Mission Assignment to USGS
- 850+ High Water Marks collected

FEMA Geo*Innovation*

MAPMILL
http://sandy.hotosm.org/

Crowd-Sourced Damage Assessments

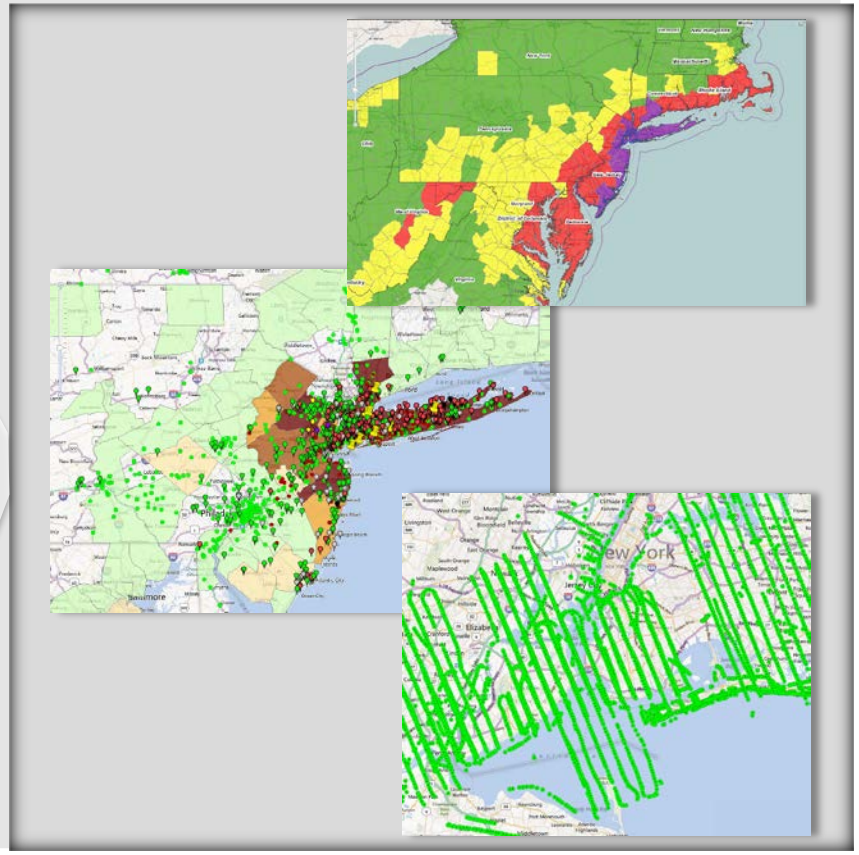


- 35,527 aerial images (CAP/NOAA)
- *Potentially* 157k

- ~6000 volunteers
- Volunteers take (approx.) 15 sec to make an assessment

- 137,000 individual assessments
- Coordinated with Google Crisis Map

FEMA Geo*Dissemination*



FEMA GeoPlatform

http://fema.maps.arcgis.com/home