

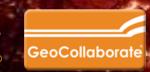
## Collaboration & Communication

# Improving Access & Sharing of Trusted Information for a Unified Approach to Fighting Wildfires

ATFRSAC Update on: GeoCollaborate

**Wednesday May 29, 2019** 1:15pm-3:00pm PT NASA Ames Research Center, CA

Dave Jones, StormCenter Communications, Inc. dave@stormcenter.com & GeoCollaborate®







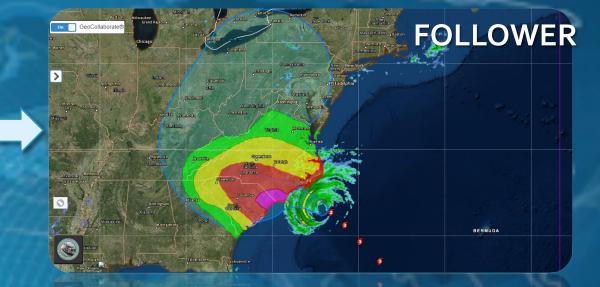
# Accelerating Trusted Data Sharing Collaborative Data-Driven Decision Making 3DM



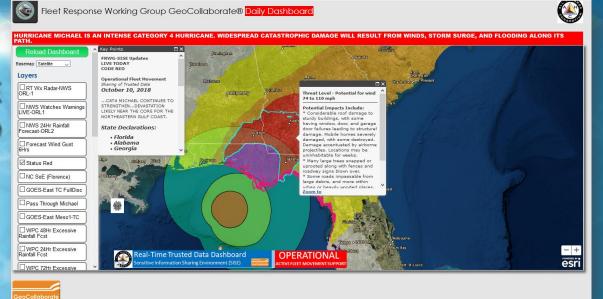








#### **COLLABORATIVE DASHBOARD**







Trusted Data CLOUD

#### Federal to State/Private Sector Sharing



















**BRIEFINGS** 

STATUS

**KEY POINTS** 

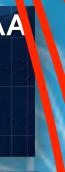
**DASHBOARD** 





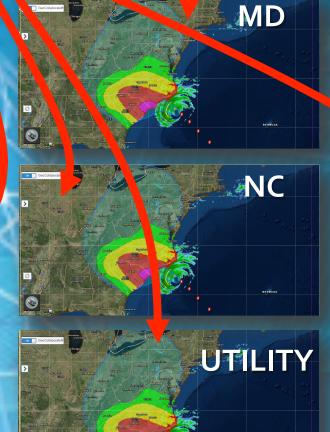
Trusted Data Sources NOAA

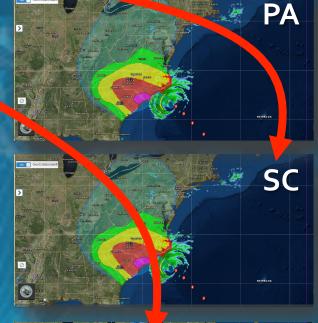
#### Federal to State/Private Sector Sharing















STATUS

**KEY POINTS** 

**DASHBOARD** 





## FLEXIBLE DATA SHARING (requires individual license & Data Sharing Agreement)









**TRUSTED CLOUD SERVICE** 











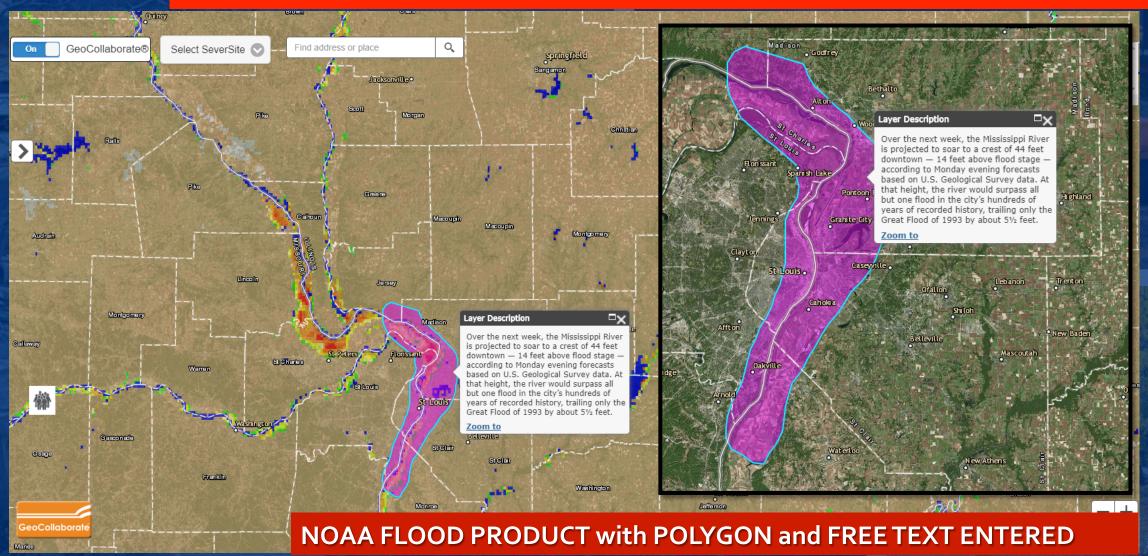


#### Functionality (Data Sharing Across All Platforms)

- Able to connect disparate instances of GeoCollaborate
- Able to add any type of information on the fly outlined by any type of polygon
- Advanced evolution of ORLs
  - Operational Readiness Levels
  - Rapid assessment of trusted data for 30-second decisions
- Increasing access to trusted data services and share them in real-time (i.e.NOAA damage assessment, smoke model data, observations)

## Developments Since Last Briefing

Last briefing: Dec 14, 2017



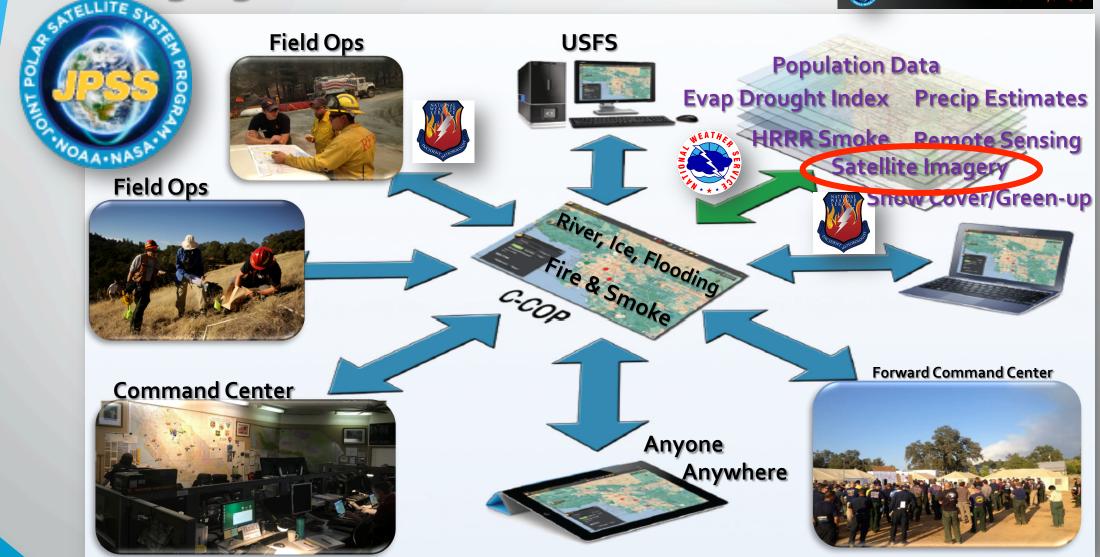
FAST ACCESS TO DATA FROM MULTIPLE AND DISPARATE TRUSTED SOURCES

#### Contracts – SBIR Phase III (sole source basis)

- WMATA Washington Metro Area Transit Authority
- DHS CyberSecurity & Infrastructure Security Agency
- NOAA JPSS Fire & Smoke; River, Ice & Flooding Initiatives
  - GC used to deliver NOAA data into DM environments
- US Census Bureau
- PEMA Pennsylvania Emergency Management Agency
- NOAA JPSS Production: The Promise of JPSS <a href="https://youtu.be/eulPPfwexaE">https://youtu.be/eulPPfwexaE</a>

## Leveraging GeoCollaborate® within Initiatives









## Developments Since Last Briefing

Last briefing: Dec 14, 2017







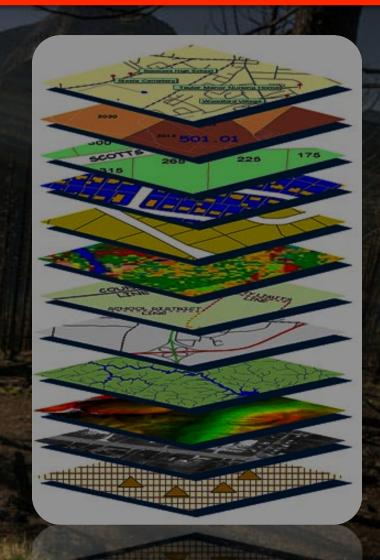
All Hazards Consortium (AHC)
Sensitive Information Sharing Environment

- Establishing an environment for private sector to share sensitive information for Federal & State Decision-Making
- State & Private sector share critical information to keep commerce moving, businesses operating
- 3DM, ORL (really taking off)
- Transportation, Food, Fuel, Utilities, Medical Supplies
- DHS establishing long-term sustainability approach for AHC

FAST ACCESS TO DATA FROM MULTIPLE AND DISPARATE TRUSTED SOURCES

#### Each trusted data source is a separate layer

- Weather Observations
- Pictures of soil conditions in burn scars
- Remote Sensing
- Declarations, Waivers, Guidance
- Critical Infrastructure
- Drone Data
- Cameras
- Federal Open Datasets
- Video
- Municipality Datasets



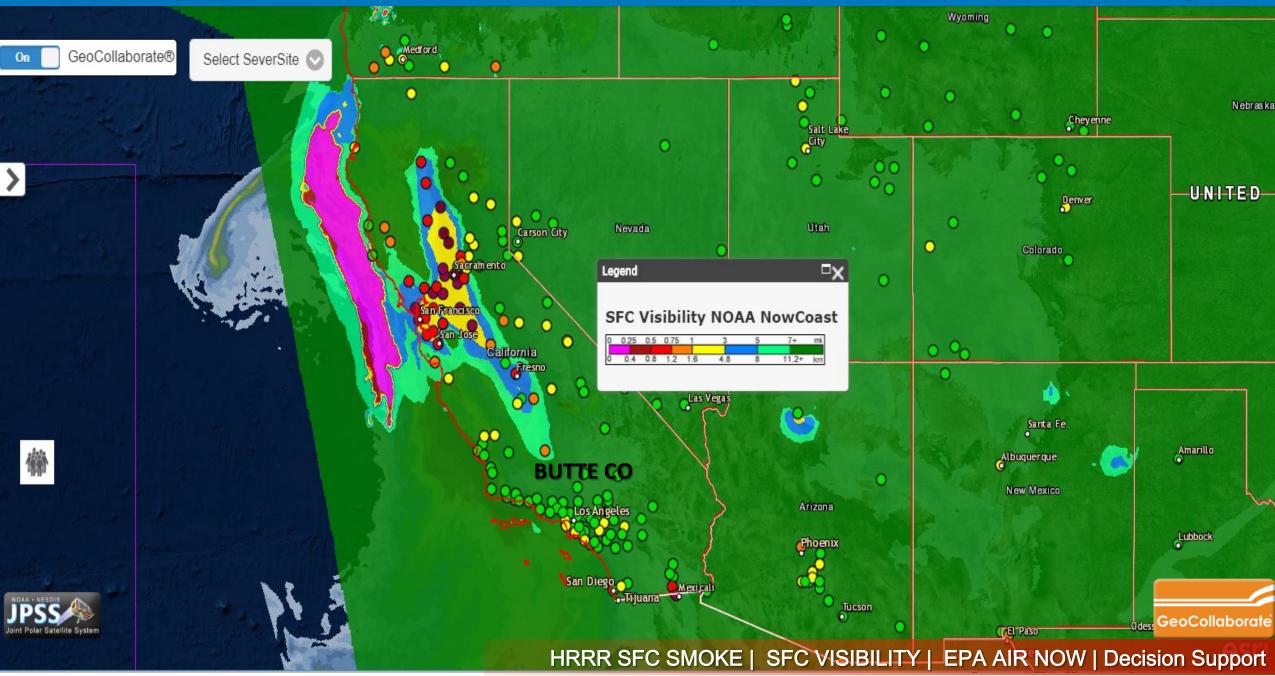


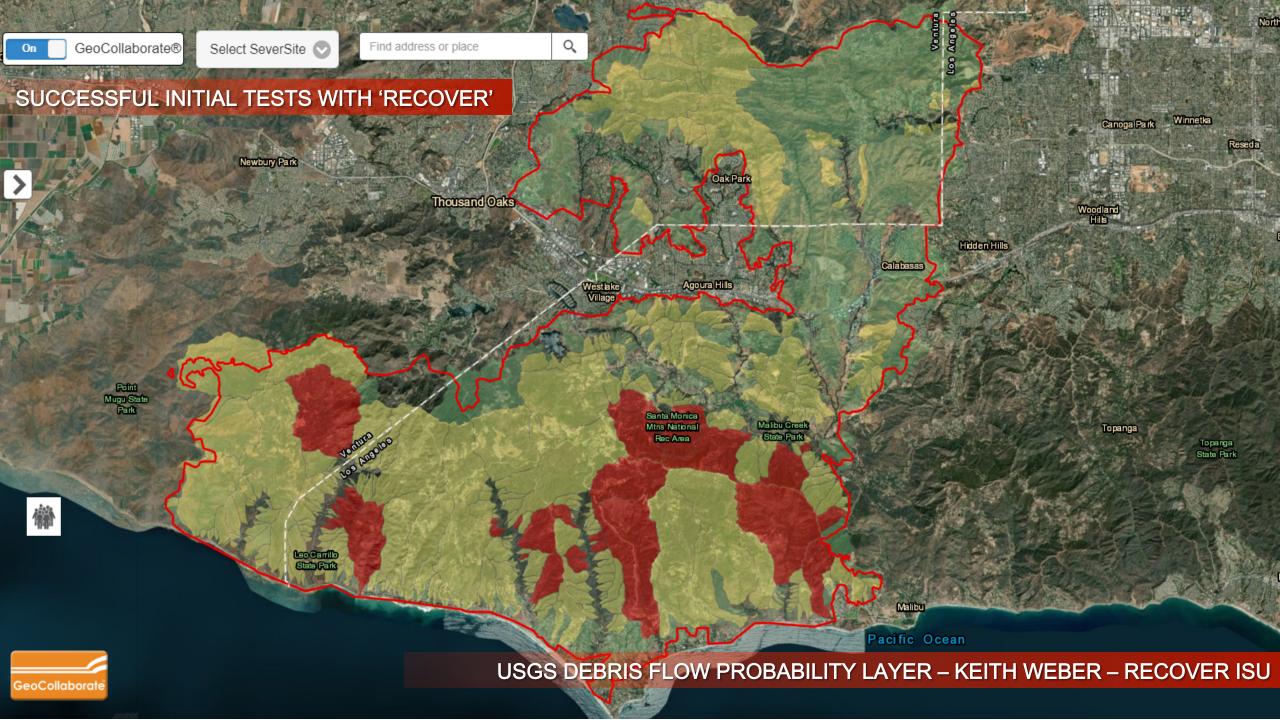


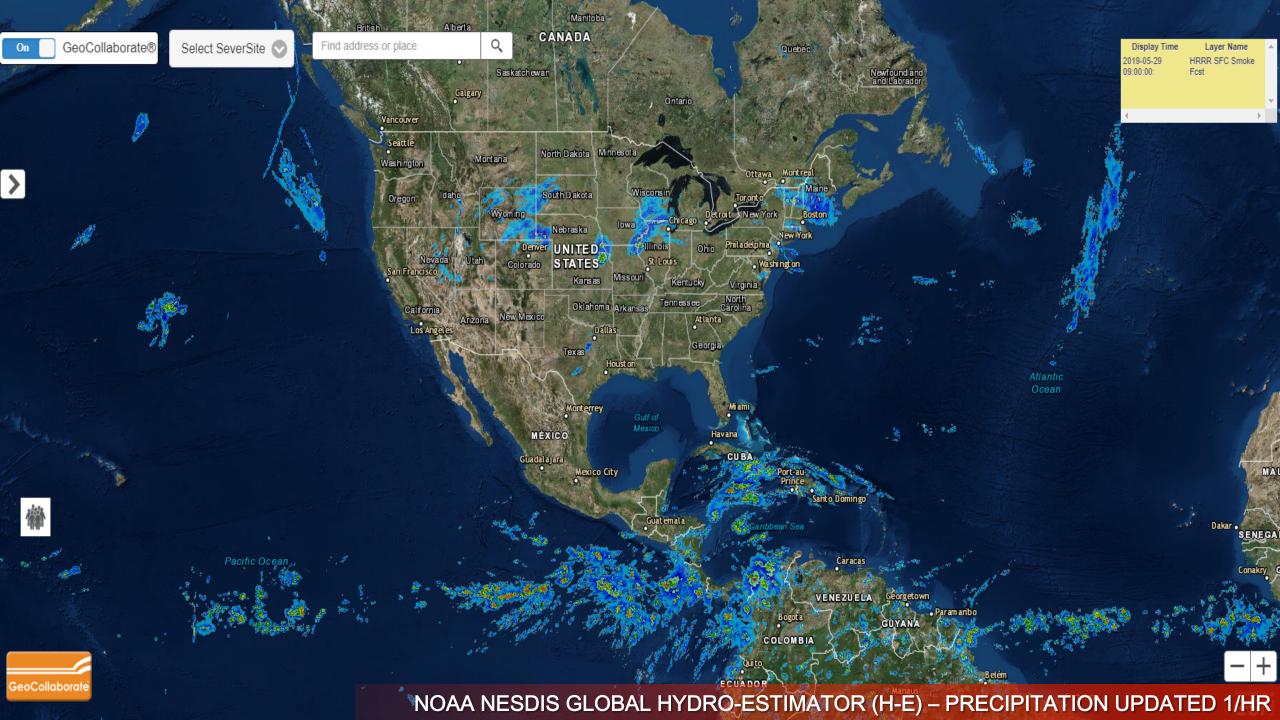


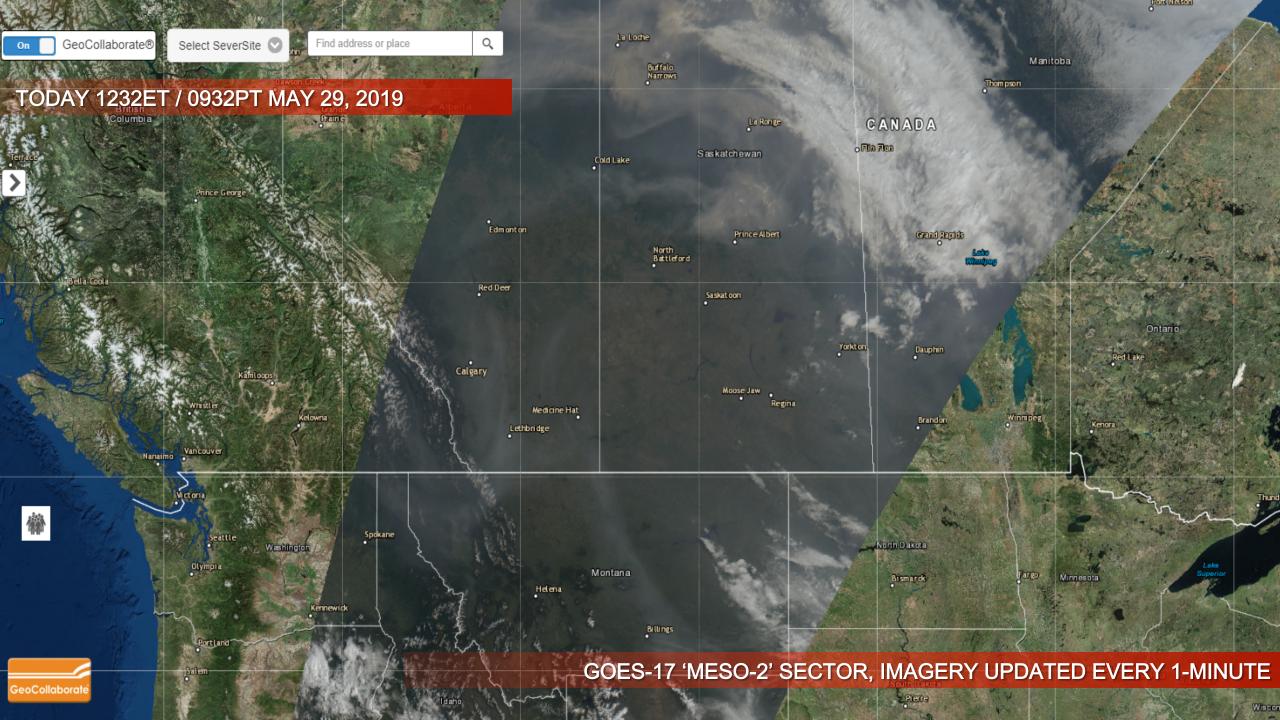
FIRE & SMOKE

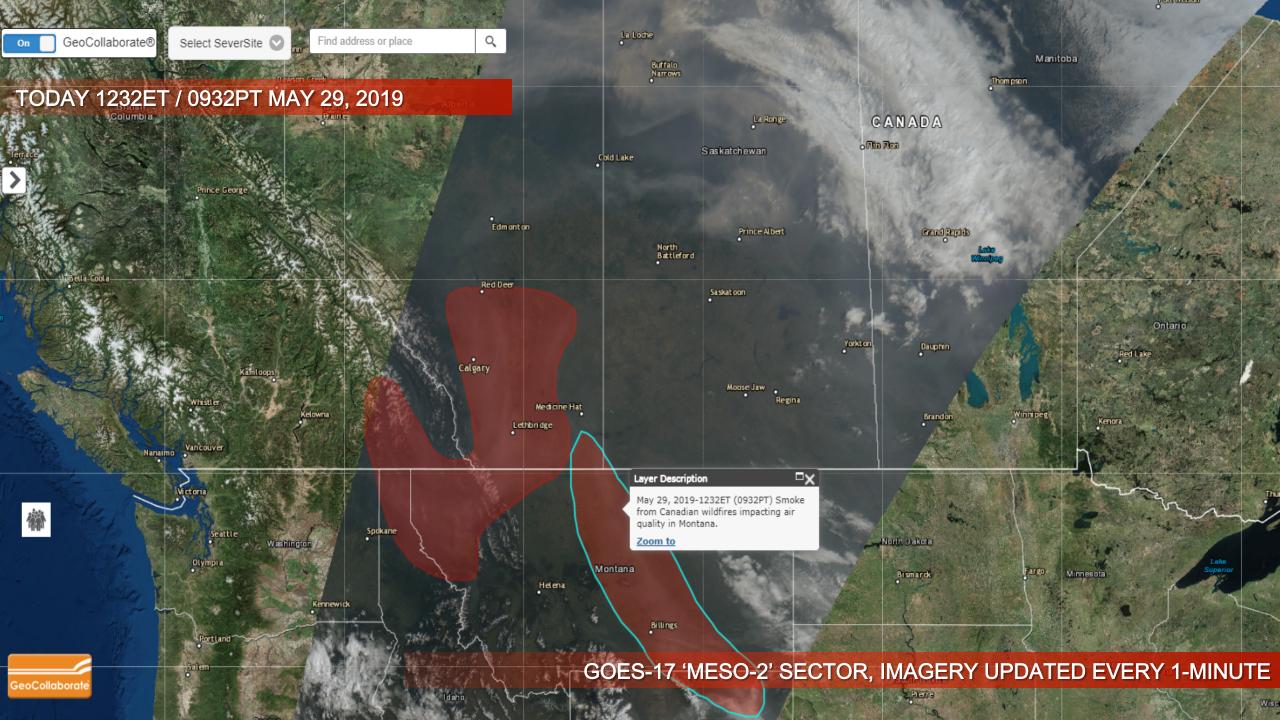
#### CA FIRES - November 16, 2018











#### AFTER THE FLAMES...WORKSHOP

Denver, CO April 1-3, 2019



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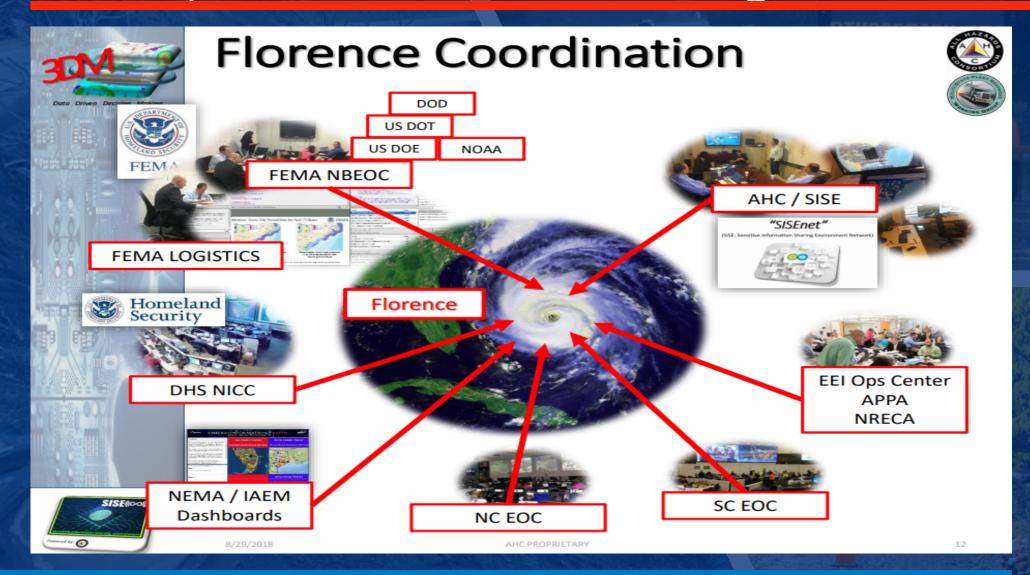






#### Developments Since Last Briefing

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**EXAMPLE OF GEOCOLLABORATE USE DURING HURRICANE FLORENCE - AHC** 

#### Improving Communication & Collaboration

- Leverage Fed Gov't investment in SBIR program to implement cross-platform data sharing rapidly (sole source)
- Enable communication across agencies and organizations to improve situational awareness
- Placing responders and decision makers on the same map at the same time
- Disseminating trusted information across all platforms and devices (ie. NOAA, NASA Satellite Data, Federal Data sources)
- Information collection from the field

CREATING A UNIFIED APPROACH TO KEEPING COMMUNITIES PREPARED & RESILIENT

## Improving Communication & Collaboration



Hand out there at meeting...

- Use case one-pagers
- Focus ways to access and share data services
- Federal & State agency
- Cross-platform information sharing
- Private sector data sharing

**CREATING A UNIFIED APPROACH TO KEEPING COMMUNITIES PREPARED & RESILIENT** 

#### Webinars & Workshops

- ESIP Webinar: Managing Disasters Through Improved Data-Driven Decision Making
- JPSS Science Seminar Series: Delivering JPSS Data to Improve Situational Awareness and Decision Making
- All Hazards Consortium: Sensitive Information Sharing Environment Webinar on GeoCollaborate
- Natural Hazards Workshop: July in Broomfield, CO
- AmericaView & Disaster Response: November 2019

CREATING A UNIFIED APPROACH TO KEEPING COMMUNITIES PREPARED & RESILIENT



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- GeoCollaborate is an SBIR Phase III technology