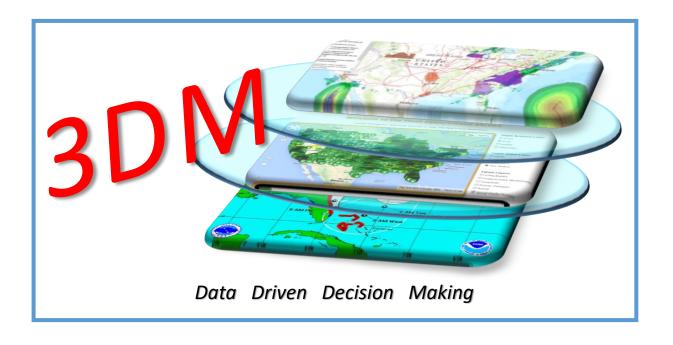


Improving Resiliency w/Better Data





Safety Message



Opening Remarks



John Shaner

Chair Multi-State Fleet Response Working Group



Erin Robinson

Executive Director
Earth Science Information Partners (ESIP)



Agenda

Time	Description			
7:30am	Registration			
8:00am	Dam Opening Remarks & Welcome			
8:15am	8:15am Session #1 – Why Are We Here? Where Are We Going			
8:45am	Session #2 – Better Decisions w/Better Data User Panel			
10:00am	Session #3 - The Private Sector Disaster Challenge			
12:00pm	Lunch			
12:30pm	Session #4 – Defining What Are Usable and Un-Usable Data Sets			
1:00pm	Session #5 – Applying Data to Real World Disasters			
3:45pm	Wrap Up / Next Steps			
4:00pm	Conclusion			
5:00pm	Happy Hour Reception – Marriott Lobby Bar			



Why Are We Here?



Background

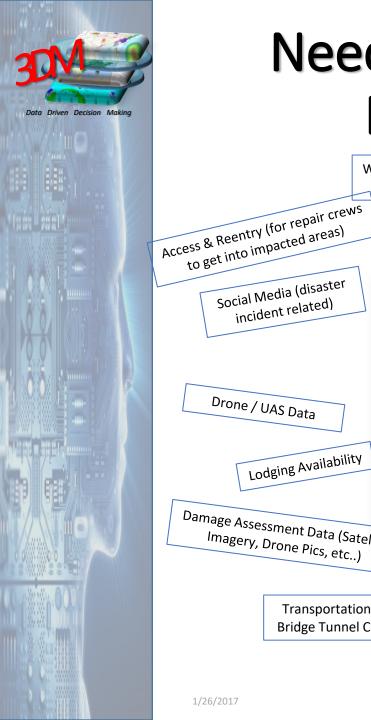
•	2014 AHC FRWG Objectives	2015 AHC FRWG Objectives	2016 AHC FRWG Objectives	
a D	Training and Education Educating people on the operational products, procedures, and benefits of them to the private & public sectors.	Training and Education Public Sector Webinar on Declarations and Waivers	 Education Sustain ongoing education efforts to create shared perspectives for coordinated action during disaster response Develop programs that integrated disaster management and business continuity professionals 	
	Information Sharing & Technology Explore policies, approaches, and technologies that can support secured information charing	Information Sharing w/CYBER ID Pilot Regional Secure Information Sharing Pilot Legal, Policy, Process Drafted	Sensitive Information Sharing Operationalize the SISE (Sensitive Information Sharing Environment) Expand circle of trusted data providers and users Expand data sources Explore Mobile data apps and solutions	
	Joint Exercises Conducting tabletop exercises, drills, and the development of sector specific exercise modules	JOINT EXERCISES CATEX 2015 (January 13 Planning Meeting w/states)	Sustainment of Regional Integrated Planning Framework & Working Groups Integration and coordination of government and private sector exercises	
· · · · · · · · · · · · · · · · · · ·	Partnerships Continue to identify operational partners that can expand the capabilities and resources of the Working Group Partnerships Continue to identify new and develop existing public and private sector partnerships		 Partnerships Continue to identify and formalize strategic relationships that add capability and resources Leverage government and industry investments Implement 2016 Membership Model 	
	Sustainment Develop a sustainment plan to support the continued work of the Working Group	 Sustainment Evolve the Working Group and Mission Develop new products and services Enhance fleet movement processes 	 Operations Continued development of operational solutions to expedite disaster logistics and comm. Develop disaster help desk services Expand base of participating government and industry stakeholders Leverage existing tools and resources 	
	Define Short-Medium-Long- Term Goals Continue to define and prioritize the list of short, medium and long-term goals that address fleet movement choke points for all sectors	Short-Medium-Long-Term Goals Review and update	Underlying these objectives is the FRWG's vision and guiding principles I long-term sustainability Integration of public sector and the private sector share critical, sensitive operational information Building trusted relationships	

• short, mid and long-term solutions



Regional Disasters Expose Coordination Issues





Need for Better Data For Decision Makers

Weather Forecasts (Snow, Ice, Tornado, Hurricane)

Security (Looting, Active Shooter, etc..)

Fuel Availability

Coastal Flooding / Surges

Flooding / Surge / Tidal

Social Media (disaster incident related)

to get into impacted areas)

Drone / UAS Data

Lodging Availability

Damage Assessment Data (Satellite Imagery, Drone Pics, etc..)

Transportation (Road,

Bridge Tunnel Closures)

Food/Water

Weigh Stations Open/Closed

Building Supplies / Retail Stores

Power Outages & Restoration

Critical Infrastructure Locations (Towers, Pipes, Buildings, **Underground Assets)**

Toll Stations Open/Closed

US/Canadian Border Crossing

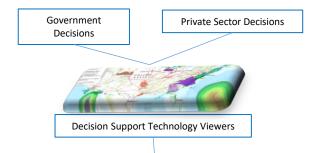


3DM Initiative Process

- Establish Work Group
- Leverage SISE Trust Framework & Philosophy
 - Simple, Operational Benefit, Results
- Develop Operational Use Cases
- Identify & Integrate Data Sets
 - Short, Mid and Long-Term Data Sets
- Leverage Technology Partners
- Test, Validate and Operationalize



Use Case Methodology



SECTORS

Electric

Fuel

Telecom

Food

Finance Transport

Operational Problems and Related People, Data, Security

People = Cultures,
Perspectives,
Intents,
Terms/Language

Data = Timing, Formats, Reliable Sources, Formats, Labeling, Handling

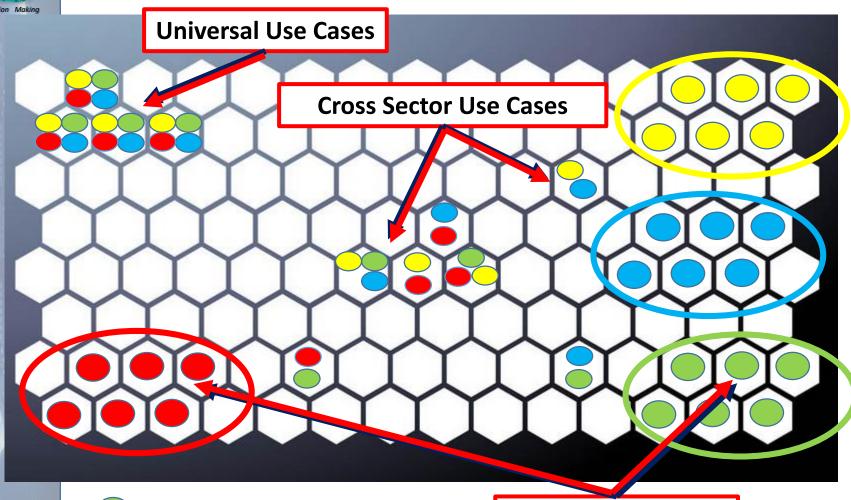
Security – Legal, Governance, ID Vetting, Permissions, Credentials, Agreements

Sector Use Cases

Data Sets

Data Driven Decision Making

Use Case "Honeycomb" Approach





Electric Sector



Fuel Sector



Food/Water Sector

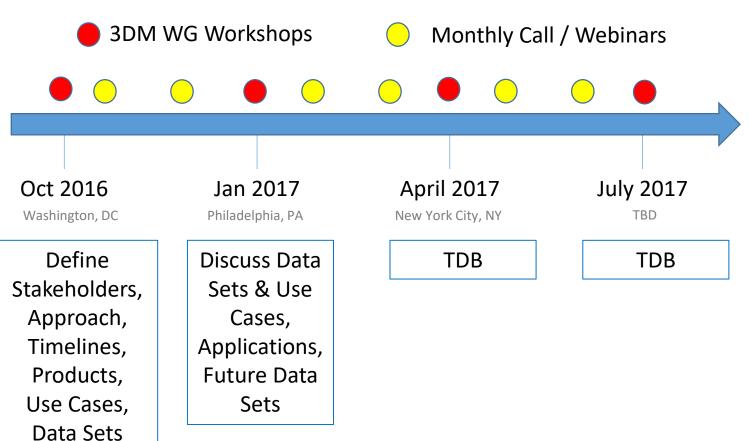


Telecommunications Sector

Sector Use Cases



3DM Initiative Timeline





Better Decisions w/Better Data Users



Session #2 – Better Decisions w/Better Data User Panel

 Description: This session will discuss the GeoCollaborate Daily Dashboard technology and the challenges, issues, benefits, and possible opportunities to improve data sets, use cases and visualization tolls to enhance public and private sector regional security/disaster decision making.

Objectives:

- Gain common understanding of FRWG technology's history & development
- Demonstration of current uses FRWG collaborative technology (GeoCollaborate platform) in recent regional storms/disasters
- Feedback from stakeholders on current data sets and their usefulness
- Recommendations on improvements to technology and/or data sets



FRWG Requirements for Regional Disaster Coordination

- Merge information and data from multiple state, feds and companies for situational awareness
- Needs to be Simple & Visual
- Overlay information into Common Operating Picture
- Does require replacement of other systems
- Cloud based, works on any device
- Support data collaboration
- Sustainable platform



Collaborative Information Sharing

Dave Jones

CEO



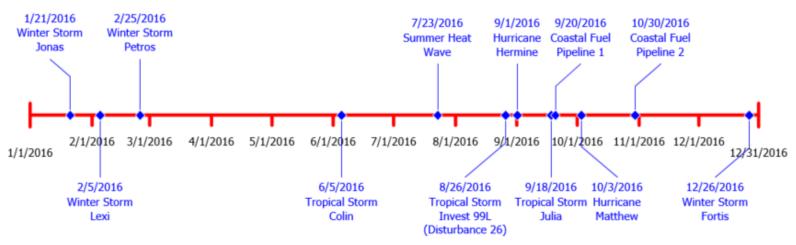


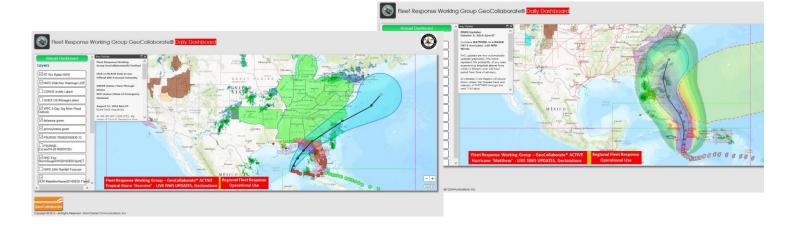


Demonstration



Private Sector Discussion on Data Collaboration Needs







The Private Sector's Disaster Challenge



Private Sector Disaster Stories



Table Work Exercise



Table Exercise

Objective:

Building awareness of Use Cases and data sources/sets alignment

• Activity:

- Write you name on top of MATRIX form
- Private sector person will brief how Use Case #1 applies to real world disaster situation.
- Table will discuss what data sets could be used for Use Case #1.
- After discussion, participants place "X" in boxes under Use Case #1 where you think the data sets apply. Discuss findings as a group
- Repeat for Use Case #2 and #3.
- Pick one person to report out at end of session

• Table Exercise Tools:

Use Case / Data Set Matrix

In your folder





Report Outs from Table Discussions



LUNCH

1/26/2017



Defining Usable and Un-Usable Data Sets



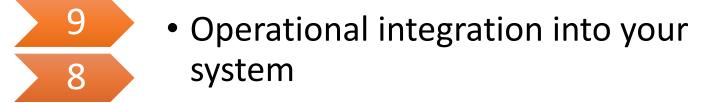
FRWG Understanding For Data Set Usability

- Short-Term
 - Data Is Usable Now Or Within 90 Days
- Mid-Term
 - Data Is Usable Within 6-12 Months
- Long-Term
 - Data Is Usable With 12-18 Months
- Other Guidelines?????



6

ESIP Operational Readiness Levels



Testing within AHC

- Discovery & Feasibility
 - Exposure through Data-Driven Decision
 Making Workshops



Applying Data to Real World Disasters



Dataset Showcase

SEDAC



Questions

- How is this information relevant to your sector or organization?
- What are other possible uses of this data?
- Are there recommendations to improve it?



Dataset Showcase





Questions

- How is this information relevant to your sector or organization?
- What are other possible uses of this data?
- Are there recommendations to improve it?



Dataset Showcase

GeoDecisions



Questions

- How is this information relevant to your sector or organization?
- What are other possible uses of this data?
- Are there recommendations to improve it?



Dataset Showcase

HazardHub



Questions

- How is this information relevant to your sector or organization?
- What are other possible uses of this data?
- Are there recommendations to improve it?



Dataset Showcase

All Hazards Consortium



Emergency Resource Library Data Sets To Support Decision Makers

Dri	Currently Available		In Development	Future
	Weather Radar/Storms	•	Banks Branches	Mold Removal Fire Restoration
	State Declarations & WaiversFlooding Rivers	•	ATM Machines for Cash Commercial Fueling Stations (For Large Trucks and Commercial	 Propane Heating Oil Oxygen- Bottled Storage Facilities- Refrigerated Storage Facilities- Controlled Environment Storage Facilities- Warehouse Lighting- Portable Laundry Services Pumps- Industrial (Flood Alleviation) Trucks- Rental
	 Low Height Bridges & Tunnels 		Vehicles) Convenience Stores	
	 Open/Closed Retail Facilities (Hughes)- Fuel, Pharmacies, 	•	Home Improvement Centers (Hardware & Supply Stores)	 Trucks- Refrigerated Trucks- Storage Trailers Rental Equipment Facilities- Forklifts, Bucket Trucks, etc.
	Hotels	•	Commercial Generators- Mobile	Cleanup- Bulk Sorbents & ProductsWaste Disposal ServicesWaste Disposal Services- Hazardous
200	 State Post Disaster Re-Entry Procedures 	•	Commercial Generators- Fixed Units	Wastes Mitigation Services- Business Continuity/Disaster Recovery Portable Satellite Equipment & Services Satellite Phones/Radios
À.		•	Ice- Dry Ice	Trunk Repair FacilitiesMedical Supplies & Equipment
100 mm		•	Ice- Bagged Ice	 Available Housing Units/Apts Drone Resources (Training, Operations, Equipment, Countermeasures)



Questions

- How is this information relevant to your sector or organization?
- What are other possible uses of this data?
- Are there recommendations to improve it?



Wrap Up / Next Steps



Wrap Up / Next Steps

Objective:

- Gain common agreement on the following:
 - Importance & value of this 3DM initiative
 - Overall approach & timelines
 - Organizational participation

Products

- Working Group Directory
- Communication Website
- Data Set URLs Library
- Other Ideas?

Next Meetings

- Monthly Conference Call / Webinar
- 3Dm Workshop, April 3 at Con Edison in NYC
- Other Meetings?



Happy Hour Reception

5:00pm to 7:00pm

In Marriott Hotel Lobby Bar

Sponsored by:



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Thank You



Data Driven Decision Making

In Coordination With:

- Edison Electric Institute (EEI)
- Federation of Earth Science Information Partners (ESIP)
- DHS NPPD, Office of Infrastructure Protection (DHS-IP)
- NOAA/ National Weather Service
- Multi-State Fleet Response Working Group (FRWG)
- East Coast Corridor Coalition (EC3)