



MULTI-STATE FLEET RESPONSE WORKING GROUP GEOCOLLABORATE[®] TESTBED

Dave Jones, StormCenter Communications, Inc.
Co-chair: Disasters Lifecycle Cluster
Founder & CEO, StormCenter Communications
dave@stormcenter.com



All Hazards Consortium





THE UNIVERSITY OF
ALABAMA IN HUNTSVILLE



Jet Propulsion Laboratory



All Hazards Consortium



StormCenter
COMMUNICATIONS, INC.™
Redefining Collaboration through Data Sharing

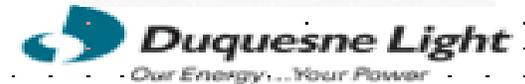
FRWG TESTBED PARTICIPANTS



Southeastern Electric Exchange
Founded in 1933, the Southeastern Electric Exchange is a non-profit, non-political trade association of investor-owned electric utility companies.



Edison Electric Institute



GOAL OF TESTBED



- Support Fleet-Response Working Group (FRWG) Key Goals
 - Expedite Power/Utility Interstate Restoration & Supply Chain Recovery
- Establish GeoCollaborate™ for Real-Time Data Sharing between testbed participants – Creating Interoperability Between Organizations
- **Identify Key Data Sets from Disparate sources that have Value**
- Support the expediting of private sector fleet and resource movement across multiple state lines in response to a disaster
- **Gather feedback from partners, impact of real-time data sharing to IMPROVE PRODUCT PRODUCTION – DATA LIFECYCLE**



DATA CONTRIBUTORS

- **States**: Declarations of 'State of Emergency', SITREPS, Cameras...
- **Telecom Sector**: open/close status, inventories
- **RMAGS**: Routing of Fleet-Response, planning
- **NOAA NWS**: Real-Time environmental obs, Forecast Products, IDSS
- **Private Sector**: Proprietary Data, Decision Support Environment
- **ESIP Federation**: Test data products from ESIP members
- **NASA ASP Project datasets, model outputs???**



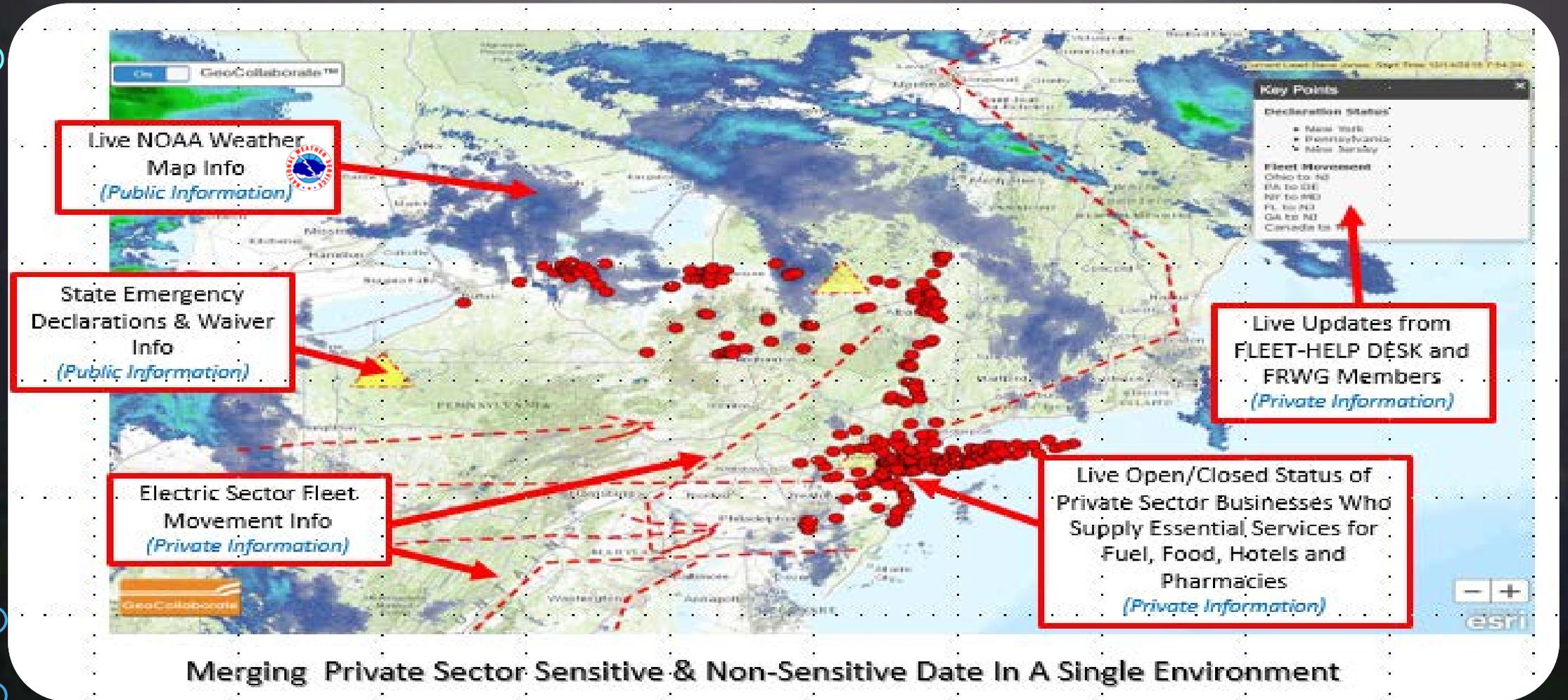
FLEET MOVEMENT PLANNING - CURRENTLY REAL-TIME SITUATIONAL AWARENESS FOR FLEET-RESPONSE

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
01/23/16 @ 1830hrs	Confidential Information Note			NOTE - Information in this document is for operational use only. These are approximate numbers for fleet movement ONLY. This Information does not replace any information exchange between Private Sector and it's local jurisdiction its serves. This information is not used for any media releases. Each company is responsible for their media releases that is shared with their Jurisdictions.																										
Responding States (Private Sector Resources)				US CAN	Pass Through States																Pass Through Possible Impacted States					Requesting States (Private Sector)				
States	Departure Date	ETA	Intra Inter	Cross	AL	GA	SC	IN	MO	KY	LA	MS	AR	TN	IN	OH	DE	NY	NJ	NH	VT	MA	NC	VA	WV	PA	MD	DC	NY (LI)	State
South Carolina	1/21/2016	1/22 - 1/23	Intra																				X	X				X		District of Columbia
New York	1/21/2016	1/22 - 1/23	Intra														X									X	X	X		District of Columbia
Connecticut	1/21/2016	1/23/2016	Intra														X	X	X							X	X	X		District of Columbia
Maine	1/21/2016	1/23/2016	Intra															X	X	X	X	X				X	X	X		District of Columbia
Illinois	1/21/2016	1/23/2016	Intra							X														X	X		X	X		Maryland
New Jersey	1/22/2016	1/23/2016	Intra														X									X	X			Maryland
New York	1/22/2016	1/23/2016	Intra														X									X	X	X		Maryland
Maine	1/22/2016	1/23/2016	Intra															X	X	X	X	X				X	X	X		Maryland
New York	1/22/2016	1/23/2016	Intra															X										X		New York - Long Island
New England	1/22/2016	1/23/2016	Intra															X		X	X	X						X		New York - Long Island
Canada	1/22/2016	1/23/2016	Intra	X														X										X		New York - Long Island
Florida	1/20- 1/21	1/21-1/22	Intra			X	X																X	X						North Carolina
Alabama	1/21/2016	1/23/2016	Intra		X	X	X																X							North Carolina
Mississippi	1/21/2016	1/23/2016	Intra		X	X	X																X							North Carolina
Texas	1/21/2016	1/23/2016	Intra		X	X	X				X	X											X							North Carolina
Oklahoma	1/21/2016	1/23/2016	Intra										X	X									X							North Carolina
Arkansas	1/21/2016	1/23/2016	Intra											X									X							North Carolina
Georgia	1/21/2016	1/22 - 1/23	Intra				X																X							North Carolina
Indiana	1/21/2016	1/23/2016	Intra					X	X	X													X	X						North Carolina
Ohio	1/21/2016	1/22 - 1/23	Intra																				X	X	X					North Carolina
Kentucky	1/21/2016	1/22/2016	Intra											X									X	X						North Carolina
Illinois	1/21/2016	1/23/2016	Intra												X	X									X	X				Pennsylvania
South Carolina	1/20- 1/21	1/21-1/22	Intra																				X	X						Virginia



FLEET MOVEMENT PLANNING - TESTBED

REAL-TIME SITUATIONAL AWARENESS FOR FLEET-RESPONSE



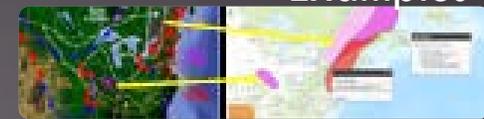
Merging Private Sector Sensitive & Non-Sensitive Data In A Single Environment





FEEDBACK TO BENEFIT NWS & FRWG

- Review and provide feedback to NWS and other data providers for possible product improvement
 - Provide feedback on GIS products, formats, services, timeliness, consistency
 - Work with National Centers on product production provide feedback for modifications to operations
 - Validate products in a collaborative environment
 - Easier to connect and work with PIs, co-Investigators, collaborators, END USERS



FEEDBACK TO BENEFIT NWS & FRWG

•FRWG will provide input on products that would be helpful to their decision making environment

- Such as...
- Psurge 2.5 – Inundation on a common reference
- Road closure information - helpful to responding fleets
- River Stream Flooding Information (NWS AHPS & API for Streamer at USGS..investigating)
- Impacts to Roadways (i.e. washed out, collapsing, 1 lane passable...)
- Soil Moisture Content Pre-Storm/Post-Storm – NWS Model output / NASA SMAP?
[Good to determine if trees may topple in high winds]
- %Tree Cover / State of Cycle (i.e. budding, leaves, bare) – Landsat / USGS / NASA
- Wind Speeds – Current and forecast [Sustained and Gusts] - NWS
- Tidal Surge – Coastal Implications, Flooding (NWS)
- LIVE Road Cameras. Can they be accessed and shared? (States, Skyline)
- LIVE Watches/Warnings/Advisories – Updated constantly/short interval (NWS IDP)
- Trusted forecasts as far out as possible (FRWG makes decisions 5-6 days ahead of time)

GEOCOLLABORATE™ IN THE MARKETPLACE

• Feedback from Vertical Markets

• Power Companies

- First Energy – New Jersey - “We would like to include GeoCollaorate™ into our Exercise
- American Electric Power (AEP) – Columbus, OH - GeoCollaborate™ looks incredible. We look forward to learning more in Philadelphia (Demo set for May 9th)
- National Grid – Looking forward to seeing more about GeoCollaborate™

• Emergency Management

- New Jersey – “The applications are endless” Steve Gutkin, Deputy Dir of NJOHSP
- Dr. Bruce Davis, on Louisiana Emergency Management - There is a large opportunity emerging for GeoCollaborate™ from states/counties/parishes that are having to cut budgets yet serve the people. These budget cuts are forcing agencies to leverage services and innovation.



ABOUT TESTBED PARTICIPANTS



THE UNIVERSITY OF
ALABAMA IN HUNTSVILLE

Automated production of “Event Albums”
Easier to access targeted event information
NASA ASP Grant work



Jet Propulsion Laboratory

Earthquake Response
Partnerships with State of California
Interface with XchangeCore for multi-
data access, display and sharing
NASA ASP, AIST grant support

EVERY DAY USE - GEOCOLLABORATE

1

Start your Daily Disaster Dashboard

2

Turn Layers ON and OFF for PERSONAL situational awareness briefing

3

Activate GeoCollaborate™ Session to Expand RT SA and Data Sharing