Collaborative Decision Making Innovations
Powering Readiness, Response & Recovery

Connecting Federal, State, Local & Regional Partners
For Improved Situational Awareness, Coordination and Response

Dave Jones, Founder & CEO, 2013 AMS Fellow
StormCenter Communications, Inc.

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IHC & Tropical Cyclone Research Forum
Invited Presentation
EVCM Collaboration Technology Evolution

**NASA ASP Grant 1yr**
Introduce EVTT Technology to NWS, FEMA & TDEM – Realtime Collaboration

**NASA ASP ROSES Grant 2yr**
GOMA Collaboration Technology Applications

**NASA SBIR Phase II 2yr**
Develop Innovation

**Launch EVCM NWS OPG/IBW**
Enable real-time provision of IDSS within NWS

**2008**
- **EVCM INNOVATION**
  - Internal development and innovation

**2009**
- NASA ASP ROSES A.18 Grant 4yr
  - Visualization & Collaboration in AWIPS II environment

**2010**
- NASA SBIR Phase I 9mo
  - Enable real-time collaboration on other platforms

**2011**
- GOES-R 1yr Collab Capacity ARH

**2012**
- GOES-R Phase II 1yr Collab Capacity ARH

**2013**
- Multiplatform Collaboration
  - Expand collaboration capability across geo-browsers

Setting the stage for End-To-End Data Services Chained by Workflows

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EVCM – Geospatially Enabled Cyber-Infrastructure

- StormCenter EVCM Support
- NWS LWX IMET Support
- EVCM Display/Projection Computer
- EVCM Montgomery Co.
- EVCM Baltimore City
- Governor, Lt. Governor & MD State Police Commander
- IHC & Tropical Cyclone Research Forum Invited Presentation
- EVCM Installed on SEOC Commanders Computer
“StormCenter’s technology allowed us to access data that we had not been able to access in the past. By combining NASA, NOAA and our own GIS information, we were able to improve our situational awareness in real time so we could better serve the citizens of Maryland.”

Martin O’Malley
Governor of Maryland
Collaboration Across NWS

Collaboration Enabled
National Centers
Regional Collaboration
Regional-WFO
WFO-County EOC
National Centers-WFO
NHC-Carib Islands
NHC-Hurr Hotline
Training
Deployment of ERS
Remote Support
Research to Ops-Models

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Cross-Agency Collaboration Examples

Real-Time Geospatial Collaboration in a Cloud Cyber-Infrastructure Can Enable:

• Cross-Agency data sharing for improved understanding of events, processes, interactions, impacts

• Connecting Federal Agencies to States / Federal Agencies Vertically / International
  • Joint Product creation (i.e. Volcanic Ash Collaborative Coordination)
  • New way to deliver NHC products & data to International Partners

• NWS-FEMA-USACE-USGS-DoD – Data sharing in a secure environment, including classified

• NASA-NWS NHC-WFOs – NASA HS3 Data to NHC, NCEP

• Acceleration of science data into state EM EOCs (Tsunamis Warning, Aviation, H. Security)

• Federal Agency data to be accessed and used for decision making by multiple locations

• Scientist to scientist – data sharing for discussion and accelerated

• NSF – NWS for improved Visiting Scientist Program (Tuesday Dr. Michael Morgan)

• NSF ability to enable PI sharing of geospatial data and information (Ramamurthy)
Water Rescues in Progress Due to Levee Overtopping in PLAQUEMINES PARISH

NHC Advisory 34B - 2PM CDT
Isaac Downgraded to Tropical Storm
Water Rescues in Progress Due to Levee Overtopping in PLAQUEMINES PARISH

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Flex Viewer & GeoCollaborate™

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Flex Viewer & GeoCollaborate

Flex Viewer Technology – Pervasive through many state EOCs

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StormCenter selected as the Federal Government’s Preferred Provider of Geospatial Collaboration Technologies

Sole Source contract vehicle to implement geospatial collaboration within ANY Federal Agency – No Ceiling, No Timeframe, Sub-contracting allowed

This SBIR vehicle lowers the procurement process by 10-24 months

Thank You.

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