Real-Time Geospatial Sharing Between Agencies

An Update

Dave Jones & Rafael Ameller
StormCenter Communications, Inc.
March 6, 2014
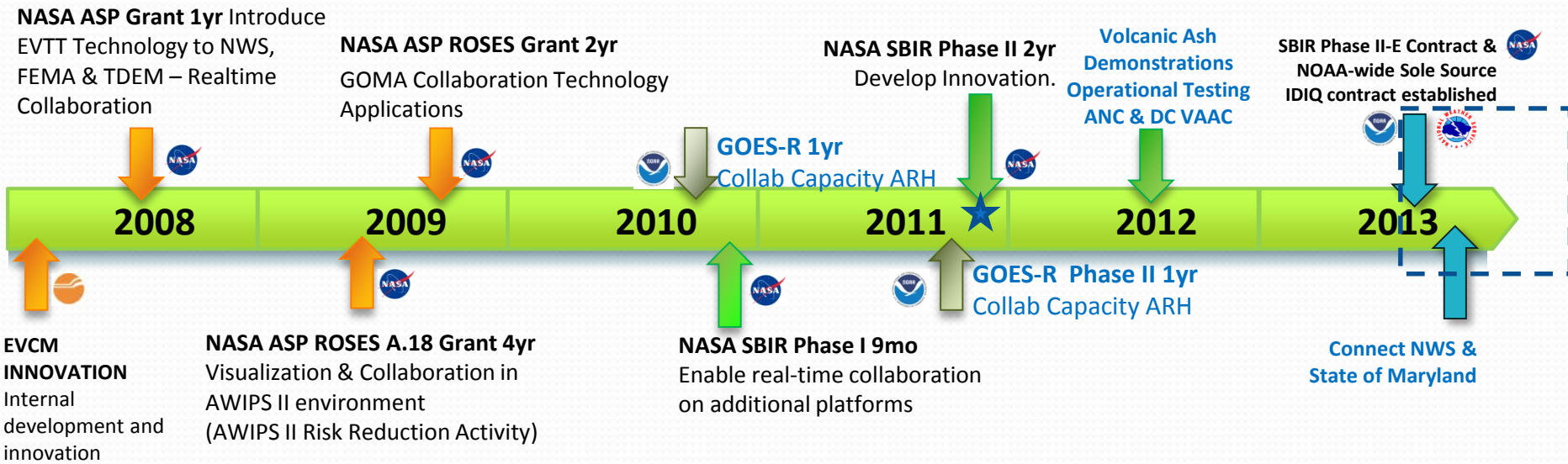
OFCM IHC & Tropical Cyclone Research Forum
Invited Presentation

NASA SBIR·STTR

StormCenter
COMMUNICATIONS INC.

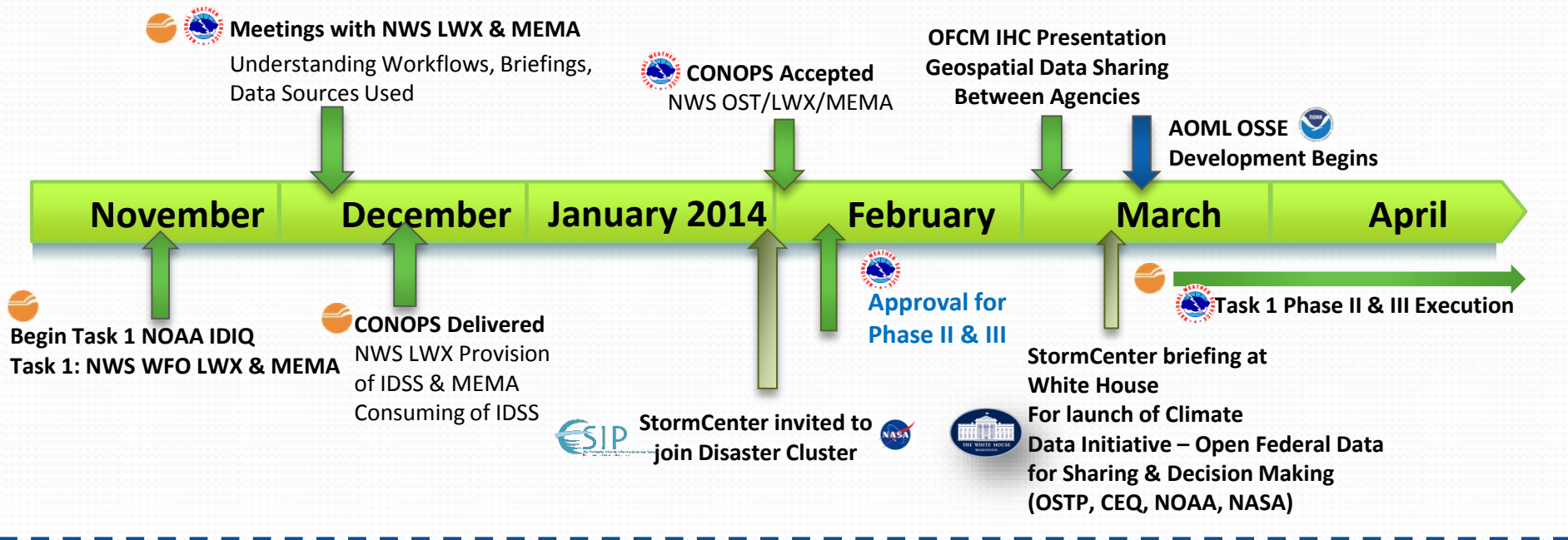# StormCenter Geospatial Collaboration Technology Evolution 2008-2013

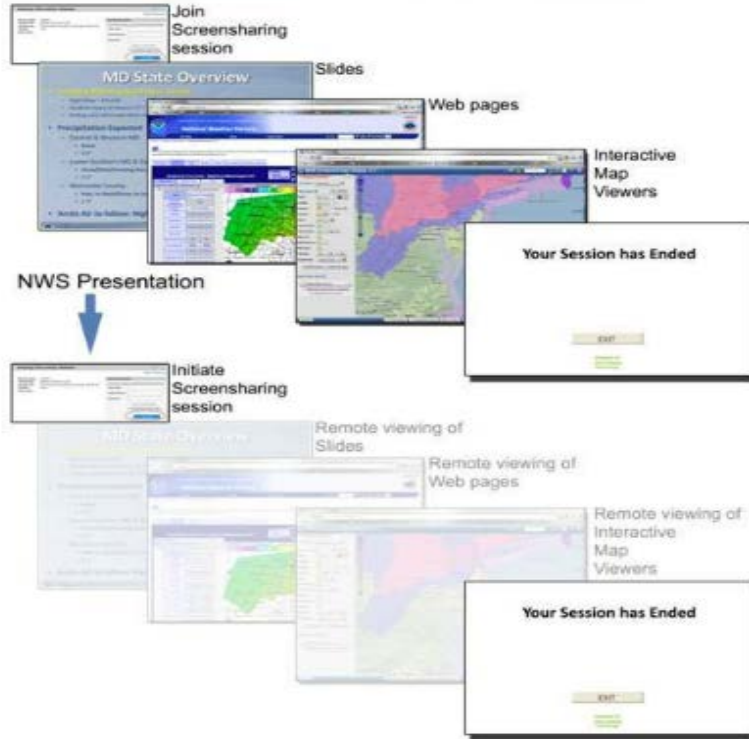*Transition of Innovation to Operations*

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.

Volcanic Ash Demonstrations Operational Testing ANC & DC VAAC

SBIR Phase II-E Contract & NOAA-wide Sole Source IDIQ contract established

GOES-R 1yr Collab Capacity ARH

2008	2009	2010	2011	2012	2013

GOES-R Phase II 1yr Collab Capacity ARH

EVCM INNOVATION Internal development and innovation

NASA ASP ROSES A.18 Grant 4yr Visualization & Collaboration in AWIPS II environment (AWIPS II Risk Reduction Activity)

NASA SBIR Phase I 9mo Enable real-time collaboration on additional platforms

Connect NWS & State of Maryland

★ Down-selected to Federal Government-wide sole source contract vehicle (NNX12CA85C)

© **StormCenter** COMMUNICATIONS, INC.

StormCenter Geospatial Collaboration Technology Evolution 2013-2014

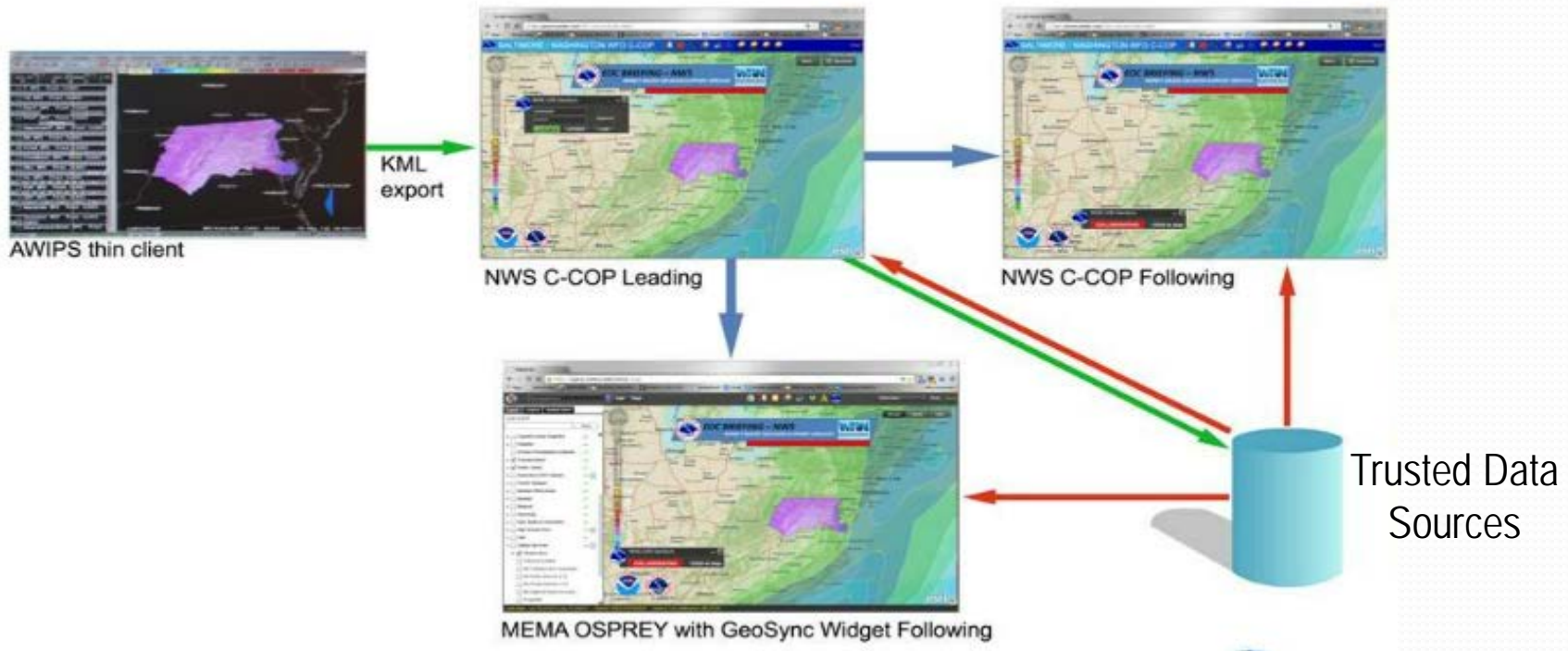**NOAA-wide sole source IDIQ contract DG133W-13-CQ-0041**

Meetings with NWS LWX & MEMA
Understanding Workflows, Briefings, Data Sources Used

CONOPS Accepted
NWS OST/LWX/MEMA

OFCM IHC Presentation
Geospatial Data Sharing Between Agencies

AOML OSSE
Development Begins

| November | December | January 2014 | February | March | April |

Begin Task 1 NOAA IDIQ
Task 1: NWS WFO LWX & MEMA

CONOPS Delivered
NWS LWX Provision of IDSS & MEMA Consuming of IDSS

StormCenter invited to join Disaster Cluster

Approval for Phase II & III

StormCenter briefing at White House
For launch of Climate Data Initiative – Open Federal Data for Sharing & Decision Making (OSTP, CEQ, NOAA, NASA)

Task 1 Phase II & III Execution

StormCenter
COMMUNICATIONS, INC.

Connecting Federal & State Agencies

Current Screen-Sharing Technologies:
- Web-Ex, G2M, Adobe Connect, etc.

Limitations

- When screen sharing session Ends

- "Your Session has Ended"

- No further information

- Presentation content must be downloaded from somewhere or e-mailed (if file size is manageable)

IDIQ contract DG133W-13-CQ-0041

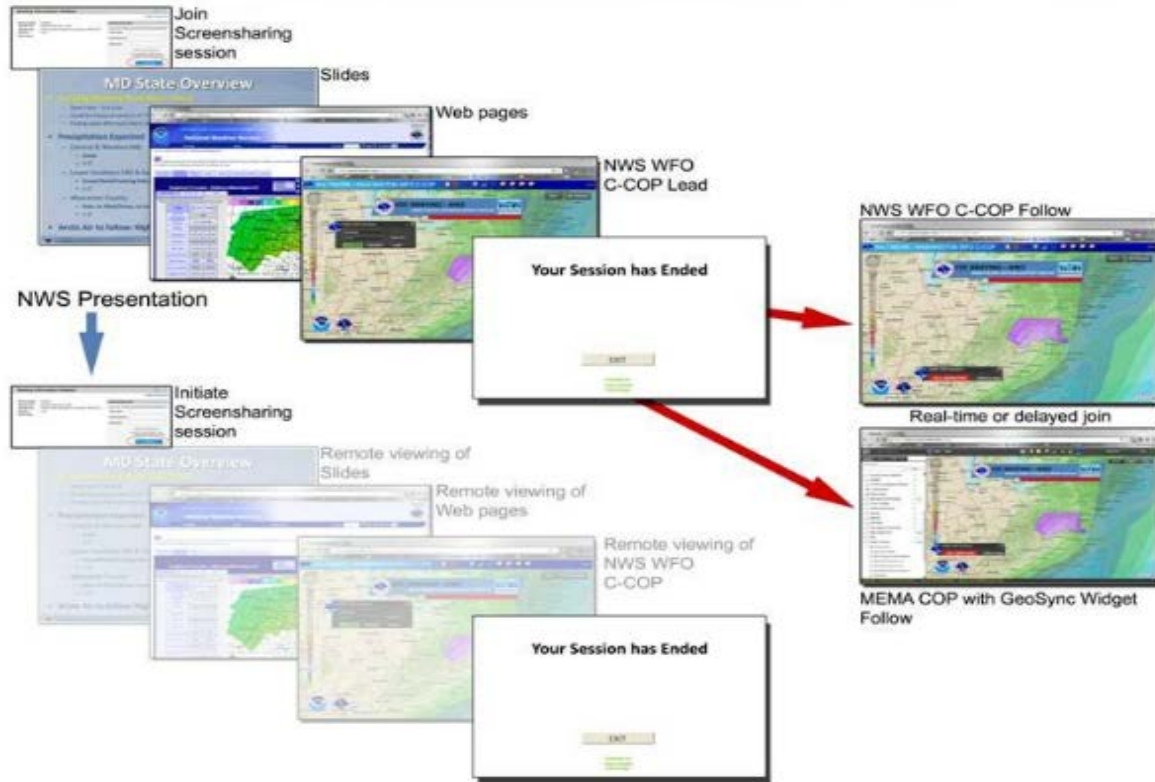**OFCM IHC & Tropical Cyclone Research Forum
Invited Presentation**

NOT FOR RE-DISTRIBUTION

StormCenter
COMMUNICATIONS, INC.

Connecting Federal & State Agencies

AWIPS thin client

KML export

NWS C-COP Leading

NWS C-COP Following

MEMA OSPREY with GeoSync Widget Following

Trusted Data Sources

OFCM IHC & Tropical Cyclone Research Forum
Invited Presentation

StormCenter
COMMUNICATIONS, INC.

Connecting Federal & State Agencies

NWS Presentation

Real-time or delayed join

MEMA COP with GeoSync Widget Follow

StormCenter Geospatial Data Sharing Technologies:

- GeoSync – One to Many
- GeoCollaborate – Exchange Leadership
- GeoSession – Session Based

Limitations of Screen Sharing

- When screen sharing session Ends
- "Your Session has Ended"
- No further information
- Presentation content must be downloaded from somewhere or e-mailed (if file size is manageable)

Connecting Federal & State Agencies

Geospatial Data Sharing & Collaboration:
- Enabling Provision of IDSS
- Leveraging Agency Datasets
- Promotes Open Government

Benefits of
Collaborative Decision Making (CDM):

- Same Map at the Same Time

- Shared Data Across Platforms

- Accelerates Situational Awareness

- Accelerates Decision Making

- Leverages Common Operating Pictures already in use

- BIG DATA put to use across agencies and partner organizations

Connecting Federal & State Agencies
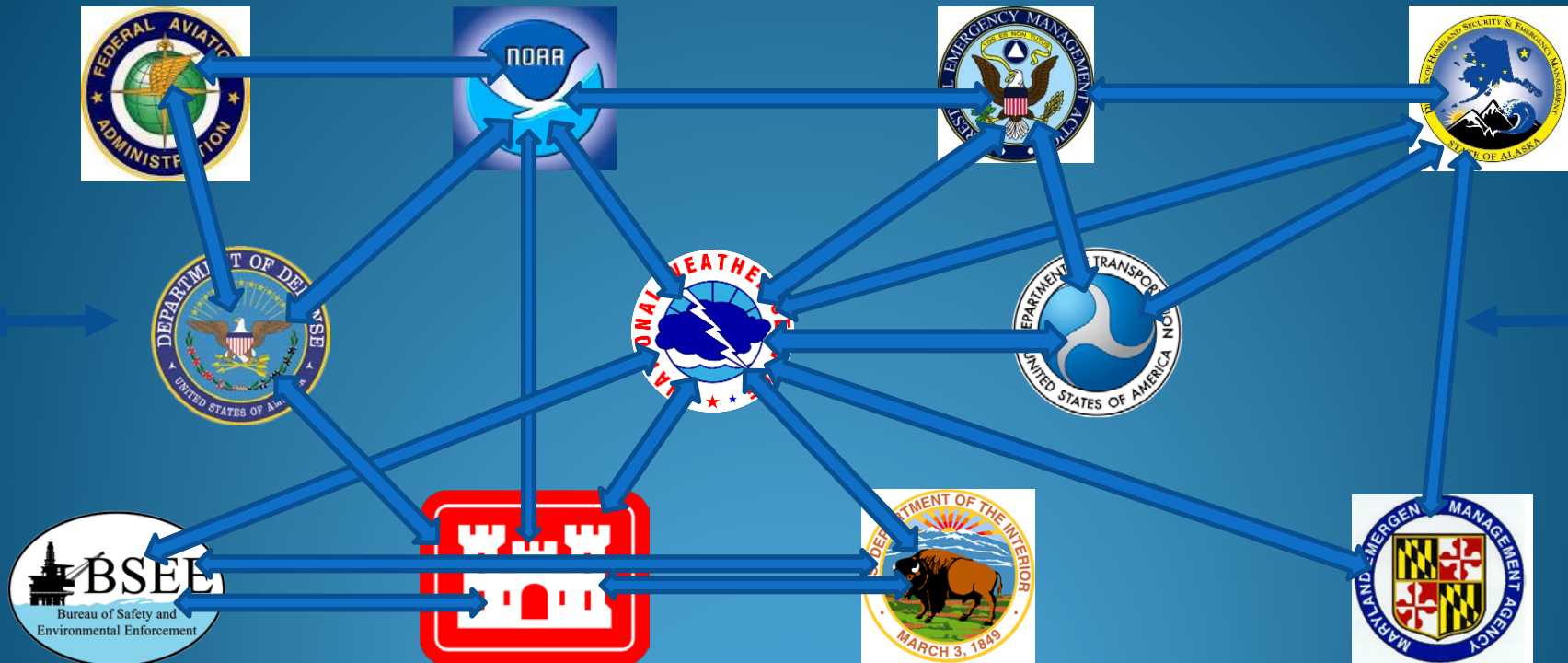
Geospatial Data Sharing & Collaboration:
- Enabling Provision of IDSS
- Leveraging Agency Datasets
- Promotes Open Government

Benefits of Collaborative Decision Making:

- Same Map at the Same Time

- Shared Data Across Platforms

- Accelerates Situational Awareness

- Accelerates Decision Making

- Leverages Common Operating Pictures already in use

- BIG DATA put to use across agencies and partner organizations

Connecting Federal & State Agencies (A Vision of the Future)

Academic Partners & Researchers

International Partners

OFCM IHC & Tropical Cyclone Research Forum
Invited Presentation

Maryland's 2012 Technology Incubator
Company of the Year for Cyber and Homeland Security

StormCenter
COMMUNICATIONS INC