

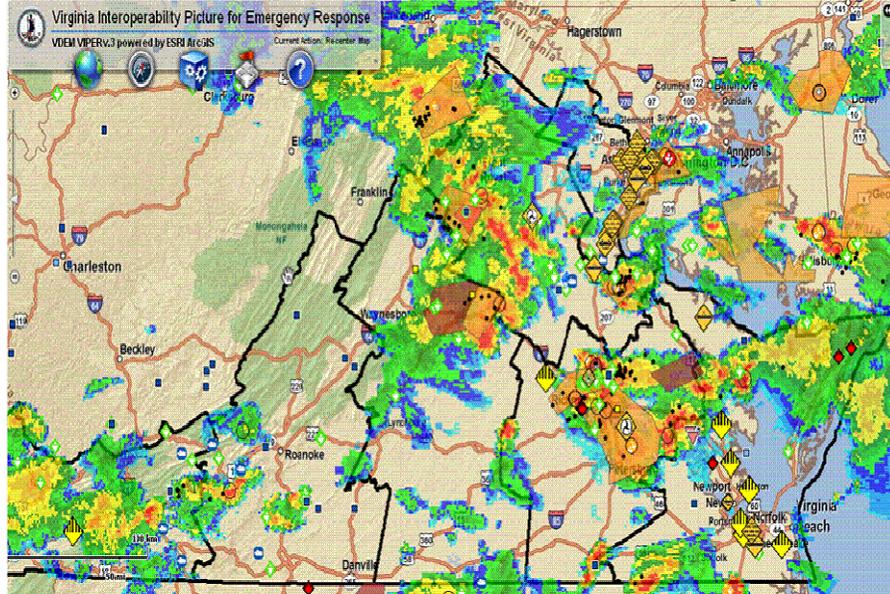


Homeland Security

VIRTUAL USA

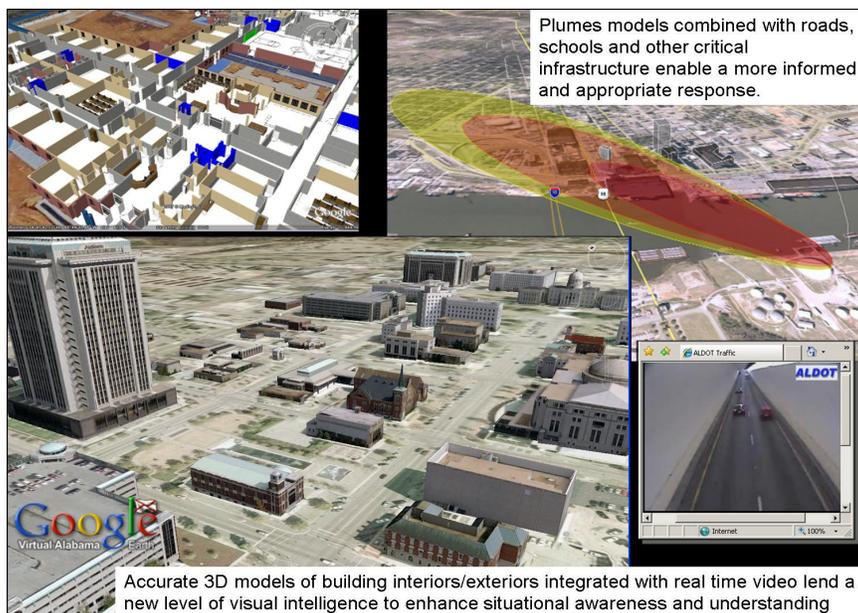
Virginia Interoperability Picture for Emergency Response (VIPER)

VIPER is a strategic view providing statewide situational awareness coupling analytics with information from numerous sources including: the National Weather Service; Virginia Department of Transportation; and the Virginia Emergency Operations Center's Crisis Management System.



Virtual Alabama

Virtual Alabama provides access to current geospatial information and live information feeds for over 5,300 users representing 1,450 government agencies. The system supports daily operational requirements and enhanced situational awareness during and after emergencies.



Accurate 3D models of building interiors/exterior integrated with real time video lend a new level of visual intelligence to enhance situational awareness and understanding

VIRTUAL USA

Virtual USA (vUSA) creates a cost effective nationwide capability that improves information sharing and decision making during emergencies and day to day operations (*see illustrations on left*).

Based on current and emerging technologies, vUSA integrates existing information sharing frameworks and technologies to enable collaboration at the local, state, tribal and Federal levels by providing critical context for information thereby making it actionable.

Developed by the U.S. Department of Homeland Security Science and Technology Directorate's (DHS S&T) Command, Control and Interoperability (CCI) Division, in partnership with the response community, vUSA improves emergency response by ensuring that practitioners at all levels have immediate access to the information they need to make critical decisions.

REGIONAL PILOTS

Southeast Regional Operations

Platform Pilot (ROPP):

In February 2009, CCI, in partnership with the First Responder Technologies (R Tech) program, formed a partnership with seven states (Alabama, Florida, Georgia, Louisiana, Mississippi, Texas, and Virginia) to create a scalable and replicable model for seamlessly integrating disparate information management applications, thus enabling more effective multi jurisdictional, multi disciplinary incident management operations.

Pacific Northwest (PNW):

In September 2009, CCI and R Tech invited five Pacific Northwest states (Alaska, Idaho, Montana, Oregon, and Washington) to partner with DHS on the second regional information sharing pilot.

Link – Georgia Governor Sonny Perdue using a VIPER tool during Atlanta Floods September 2009 (3rd video at 0:00:24 secs)
http://www.myfoxatlanta.com/dpp/news/Perdue_Askes_for_Federal_Disaster_Declaration_092209

Regional Operations Platform Pilot (ROPP) Demonstration Overview

The ROPP demonstration is designed to validate the technical integration and operational practices required to link disparate visualization platforms and share information among ROPP members for multi-jurisdictional incident response.

Six States Participating: Alabama, Florida, Louisiana, Mississippi, Texas, and Virginia

States Observing: Georgia and Tennessee

Six Visualization Platforms

1. Virtual Alabama
2. Geospatial Assessment Tool for Operations and Response (GATOR, *Florida*)
3. Virtual Louisiana
4. Virtual Mississippi
5. TexMap (*Texas*)
6. Virginia Interoperability Picture for Emergency Response (VIPER)

Demonstration Roles

- Federal Emergency Management Agency (FEMA)
 - IMSID's NIMS SC*– host of the Master Control Cell (MCC), Simulation Cell (SIMCELL); developed the Master Scenario Events List (MSEL) in coordination with the states; provides national view
 - National Response Coordination Center (NRCC); National Exercise Simulation Center (NESC) – provided venue and technical support for demonstration and viewing, as well as relevant static data
- National Weather Service – provided the weather background information for the demonstration
- States – respond to the MSEL situation presented and share information based on expert knowledge of response procedures, current plans and procedures, and insights derived from training
 - Alabama State Emergency Operations Center (EOC)
 - Florida State EOC
 - Louisiana Emergency Management Center (EMC)
 - Mississippi State EOC and Jackson State University
 - Texas State EOC
 - Virginia State EOC

Data Layers Shared During Demonstration

- Alabama: EOC status; shelter status; traffic feeds; road closures; asset tracking layer; damage reports
- Florida: County EOC status; road closures; power outages; shelter status; response to events
- Louisiana: Hospital and school listings; shelter status; traffic feeds; road closures; evacuation routes
- Mississippi: Roads; shelters; medical facilities; law enforcement locations
- Texas: Homeless shelters; shelter hubs; electric transmission lines; affected counties
- Virginia: EOC status; resource requests; shelter status; traffic feeds; hazmat incidents; 911 dispatch
- NIMS SC: MSEL injects; weather and environment data
- NRCC: FEMA headquarters and FEMA Region office locations; possible declared counties; staging areas; recovery offices; and US&R locations and their operational status

* IMSID - Incident Management Systems Integration Division; NIMS SC - National Incident Management System Support Center