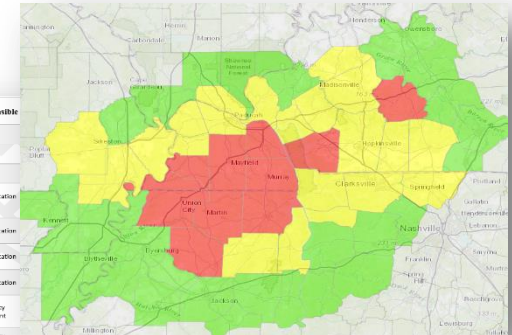
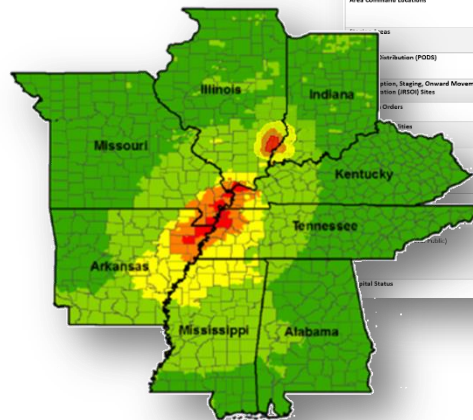


# CUSEC – Capstone 2014 GIS/IT Next Steps

October 24, 2013



EEI	Feature Type	Required Attributes	Responsible
Electricity Grid	⚡	Power type, name, location	13-Energy
Natural Gas Grid	⚡	Power type, name, location	12-Urban
Public Water Grid	⚡	Power type, name, location	13-Energy
Road Status (including bridges)	🛣️	Road name, location (e.g. mile marker, left/right, address, intersection), type (e.g. bridge, broken pavement, obstacle), distance of closure	1-Transportation
Rail network (including bridges)	🚂	Location (e.g. mile marker, left/right, address, intersection), type (e.g. bridge, broken pavement, obstacle), distance of closure	1-Transportation
Navigable waterways	🚢	Location (e.g. river mile, left/right, Name, Note (e.g. distance, closure...))	1-Transportation
Air Transportation Infrastructure	✈️	Airport name, location (left/right, address)	1-Transportation
Area Command Locations	📍	Name of EOC, address/location, primary phone number, status	5-Emergency Management
Emergency Services	📞	Name, address/location, primary phone number, POC, Type (e.g. vehicle, personnel, equipment)	5-Emergency Management
Distribution (PODS)	📍	Name, address/location, primary phone number, POC	?
Shelter, Staging, Onward Movement (SSOM) Sites	📍	SSOM Name, Address, POC, Capacity	5-Emergency Management
Cholera	📍	County name, incident name, alert type, threat level, area of concern, POC	5-Emergency Management
County name, number of reports, time last updated	📍	County name, number of reports, time last updated	5-Emergency Management
Name, address, max capacity, current capacity, NIS and FEMA shelter data required	📍	Name, address, max capacity, current capacity, NIS and FEMA shelter data required	5-Emergency Management
Refactor name/type, location, POC	📍	Refactor name/type, location, POC	5-Emergency Management
Magnitude, Alert Level, VIMS, Location (left/right, Mile, VIMS)	📍	Magnitude, Alert Level, VIMS, Location (left/right, Mile, VIMS)	?
County Name, Communications network type, name, owner, location, primary phone number	📍	County Name, Communications network type, name, owner, location, primary phone number	2-Communications
Alert Status	📍	Name, address, max capacity, current capacity, phone number	8-Public Health and Medical Services



Homeland  
Security

Science and Technology



CAPSTONE





## **What we discussed**

- The process to create and share EEs
- Creation/fusion of WebEOC boards
- Publishing, sharing and discovering information in the ArcGIS Online CUSEC Group
- Third party applications to discover and consume information locally including the portal widget and vUSA web app
- MASS updates and using the MRP web app

- Mashup key datasets and publish on ArcGIS Online
  - State DOT/511 data publicly available on websites
  - Emergency Service Routes
  - Airport status
- Conduct WebEOC fusion test series
- Publish EEIs that are not created in WebEOC in ArcGIS Online (e.g. USGS, NTAD et al)
- Develop an EEI Information Sharing Annex template and propose to the Board for integration into state SOPs/CONOPS



# Near Term Tasks

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- Work with operations staff to get data from key partners
- Develop a process for sharing geotagged photos (e.g. FEMA tool, CAP photo upload tool, etc.)
- Prepare a GIS/IT brief for the November 3 CUSEC Board Meeting
  - Provide EEI excel templates
  - Provide recommended WebEOC strategy (#boards)
  - EEI Information Sharing Annex in state SOPs
  - Decision points –
    - Doug Eades to brief the Board on GIS/IT progress
    - Need Director-level support for creating processes with operations and planning staff to update status of EEIs in WebEOC



# VA Model - EEI SOP Annex

ESF #6 – Mass Care, Emergency Assistance, Housing, & Human Services

**Annex 1.1 – Mass Care, Emergency Assistance, Housing, & Human Services Information**

**Purpose:**  
To outline the required Essential Elements of Information (EEI) needed to inform decision-making information provided in this annex will be used to help build the awareness packages in the Virginia Interoperable Information Sharing Environment (VIISE). Found below is one example of information that will be covered in the ESF#6 Information Sharing Annex found within the State ESF#6 Annex.

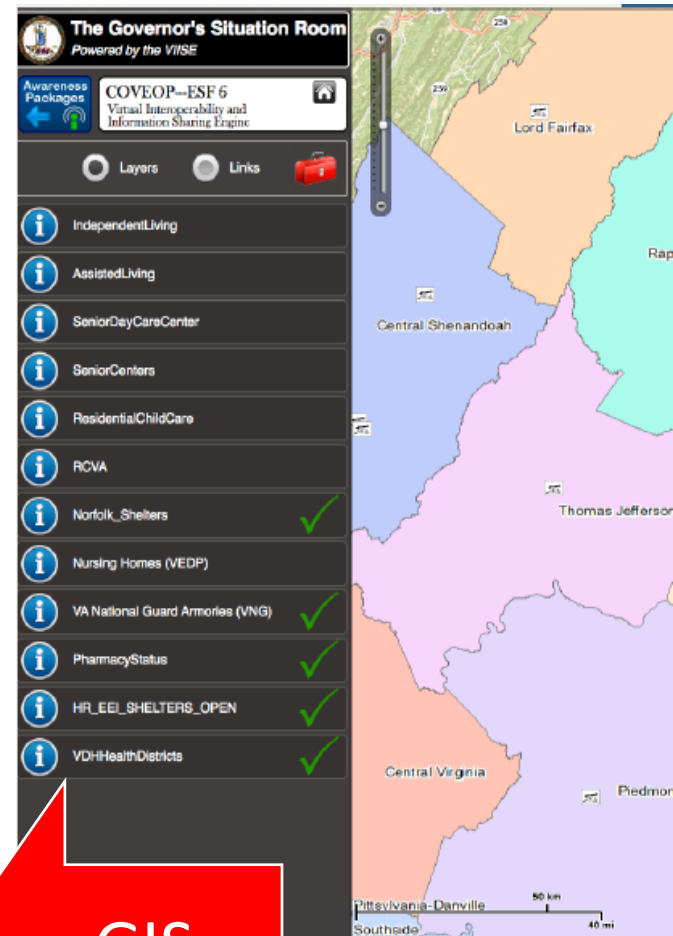
**Organizational Structure:**  
Information being provided will be determined by the State or Local information sharing organization.

**Scenario 1.1:**  
Hurricane Response

**Role:**  
ESF 6

**EEI(s):**

- Emergency Calls for Service
- Major Incidents and Incidents of Regional significance
- Local Shelters
- State Managed Shelters
- Refuges of Last Resort
- Pet Shelters
- Cooling and Warming Centers
- Local Transfer Points
- State Transfer Points
- Evacuation Assembly Centers (EAC's)
- Family Assistance Centers (FAC's)
- Hotel/Motel
- DSS Licensed Facilities
- Foster Care Facilities
- DSS Offices
- Status of Public Safety Answering Points (PSAP's)
- Status of Emergency Communications Network



SOP

GIS

The convergence of policy, procedures and GIS



# GIS/IT Timeline

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- **October 31:** Prepare GIS/IT brief to CUSEC Board
- **November 1 at 9:30am CDT:** WebEOC fusion test
- **November 3:** CUSEC Board meeting
- **November 4-5:** RAW II invite affiliate states and CSX to WebEOC test
- **November 22:** WebEOC EEI board test
- **November 30:** CUSEC States review and update the EEI list, identifying how EEIs will be managed
- **December 23:** GIS/IT Monthly Call, Review November 30 inputs and update WebEOC EEI board template
- **January 31:** Integrated WebEOC/ArcGIS Online

Future GIS/IT meeting at RAW 3? March in St. Louis?

# Technology-Specific Timeline

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## WebEOC:

- **November 1 and 22:** WebEOC fusion tests
- **November 30:** Selected/identified WebEOC boards
- **January 15:** Fuse WebEOC boards

## ArcGIS Online:

- **November 30:** All states up and running with AGOL, groups established, users established, etc.
- **January 31:** View WebEOC fused boards, EMITS and all EEIs in ArcGIS Online
- **January 31:** Install AGOL Portal widget/web app to locally view WebEOC data
- **February – March:** Create / configure 3<sup>rd</sup> party applications, briefing views / Story Maps, Operations Dashboard, etc.



















## MASS/MRP:

- **November 4-5:** RAW2 - MRPs in MASS
- **December 15:** Install MRP widget/Web app
- **January 31:** WebEOC Req-A Board link to EMAC OS

## Test IPAWS Integration:

- **December 31:** Arkansas test publish alert to NMSZ states; feed accessible on AGOL; Tennessee WebEOC IPAWS plugin test

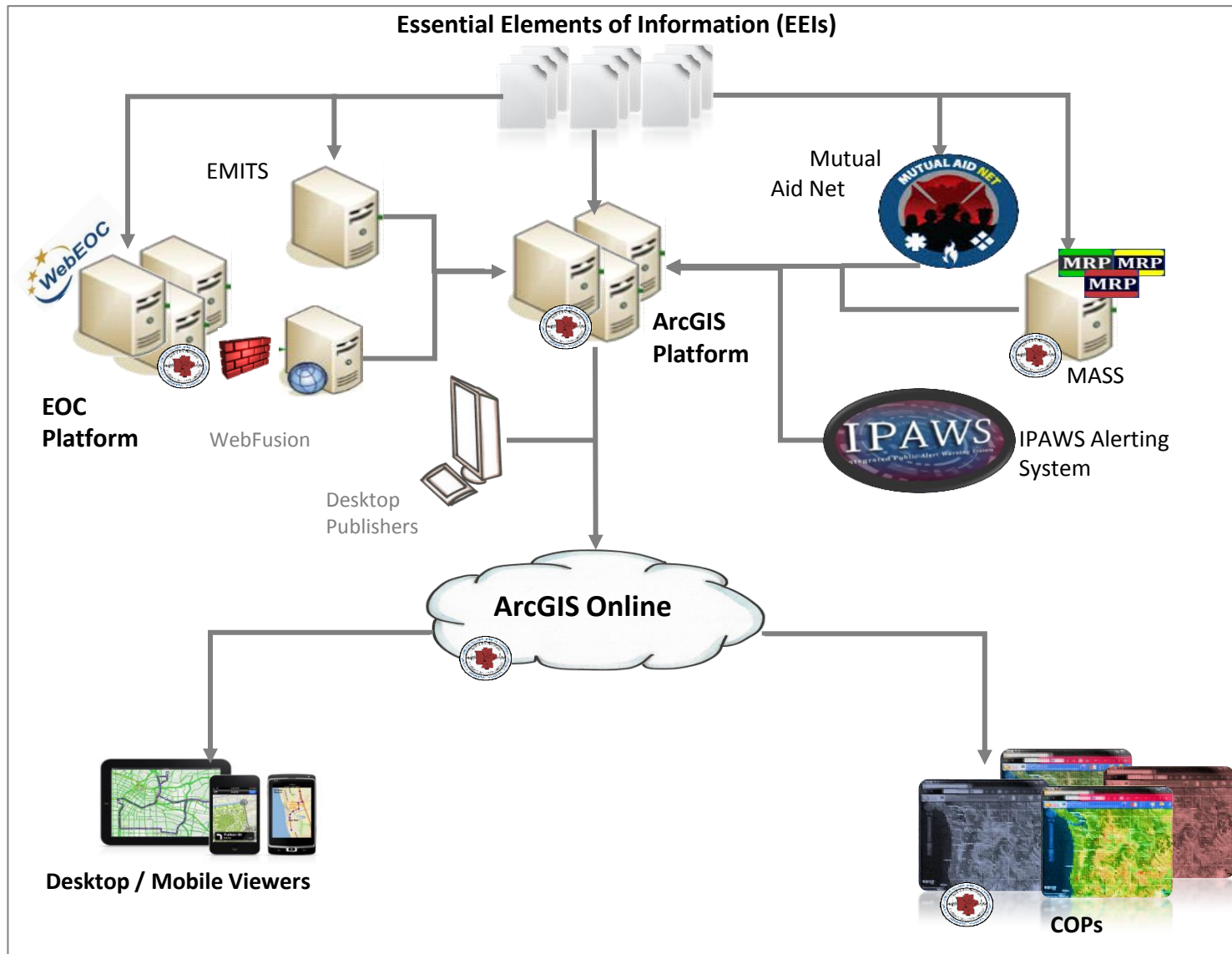
# Essential Elements of Information

EEI	Feature Type	Required Attributes	Responsible ESF	Status Red	Status Yellow	Status Green	Status Unknown	Status Inactive
Electricity Grid		Power type, name, <a href="#">location</a> .	12-Energy	No availability	Limited availability	Available	Unknown	Inactive
Natural Gas Grid		Power type, name, <a href="#">location</a> .	12-Energy	No availability	Limited availability	Available	Unknown	Inactive
Public Water Grid		Power type, name, <a href="#">location</a> .	12-Energy	No availability	Limited availability	Available	Unknown	Inactive
Road Status (including bridges)		Road name, location (e.g. mile marker; lat/long; address; intersection), type (i.e. bridge, broken pavement, sinkhole), distance of closure.	1-Transportation	Major delays or closed	Minor delays due to road conditions	Passable	Unknown	Inactive
Rail network (including bridges)		Location (e.g. mile marker; lat/long; address; intersection), type (i.e. bridge, broken pavement, sinkhole), distance of closure.	1-Transportation	Major delays or closed	Minor delays due to road conditions	Passable	Unknown	Inactive
Navigable waterways		Location (e.g., river mile; lat/long), Name, type (e.g., debris closure...).	1-Transportation	Major delays or closed	Minor delays due to road conditions	Passable	Unknown	Inactive
Air Transportation Infrastructure		Airport name, location (lat/long; address).	1-Transportation	Closed	Limited use/emergency use only	Open	Unknown	Inactive
Area Command Locations		Name of EOC, address/location, primary phone number, status.	5-Emergency Management	Level 1-full activation	Level 2-partial activation	Level 3-operational/monitoring	Unknown	Inactive
Staging Areas		Name, address/location, primary phone number, POC, Type (e.g., vehicle, personnel, equipment).	5-Emergency Management	Closed	Limited use/emergency use only	Open	Unknown	Inactive
Points of Distribution (PODS)		Name, address/location, primary phone number, POC.	?	Closed	Limited use/emergency use only	Open	Unknown	Inactive
Joint Reception, Staging, Onward Movement and Integration (JRSOI) Sites		JRSOI Name, Address, POC, Capacity.	5-Emergency Management	Closed	Limited use/emergency use only	Open	Unknown	Inactive
Evacuation Orders		County name, Incident name, alert type, threat level, area of concern, POC.	5-Emergency Management	Mandatory	Voluntary/phase d	None	Unknown	Inactive
Injuries and Fatalities		County name, number of reports, time last updated.	8-Public Health and Medical Services	Confirmed fatalities/injuries	Fatality/injury confirmation underway	No fatality reports	Unknown	Inactive
Shelters		Name, address, max capacity, current capacity; NSS and FEMA shelter data required.	6-Mass Care-Emergency Assistance-Housing-Human Services	Full or over capacity	Open-more than 50% occupancy	Open-less than 50% occupancy or Closed	Unknown	Inactive
Private Sector Infrastructure		Retailer name/type, location, POC.	Other	Not Available	Deployed	Available	Unknown	Inactive
US Geological Survey Data (e.g., Prompt Assessment of Global Earthquakes for Response or PAGER)		Magnitude, Alert Level, Time, Location (lat/long), Max MMI.	?	1000+ Est. Fatalities / \$1 billion+ Est. Losses	1-999 Est. Fatalities / \$1M-\$1B Est. Losses	0 Est. Fatalities / < \$M Est. Losses	Unknown	Inactive
Communications (Public Safety and General Public)		County Name, Communications network type, name, owner, location, primary phone number.	2-Communications	Emergency communication failed or limited	Emergency communication up; commercial failed or limited, including cellular	Normal operations	Unknown	Inactive
Hospital Status		Name, address, max capacity, current capacity, phone number.	8-Public Health and Medical Services	Not operational	At or above capacity	Available capacity	Unknown	Inactive



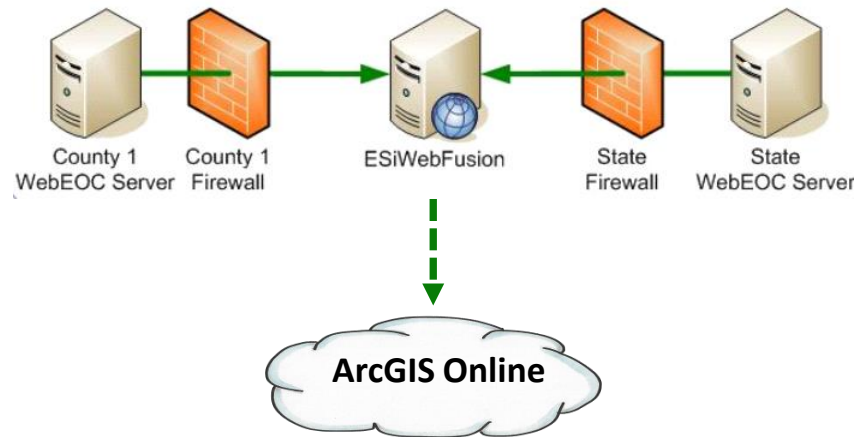


# EEIs in CUSEC-Capstone14



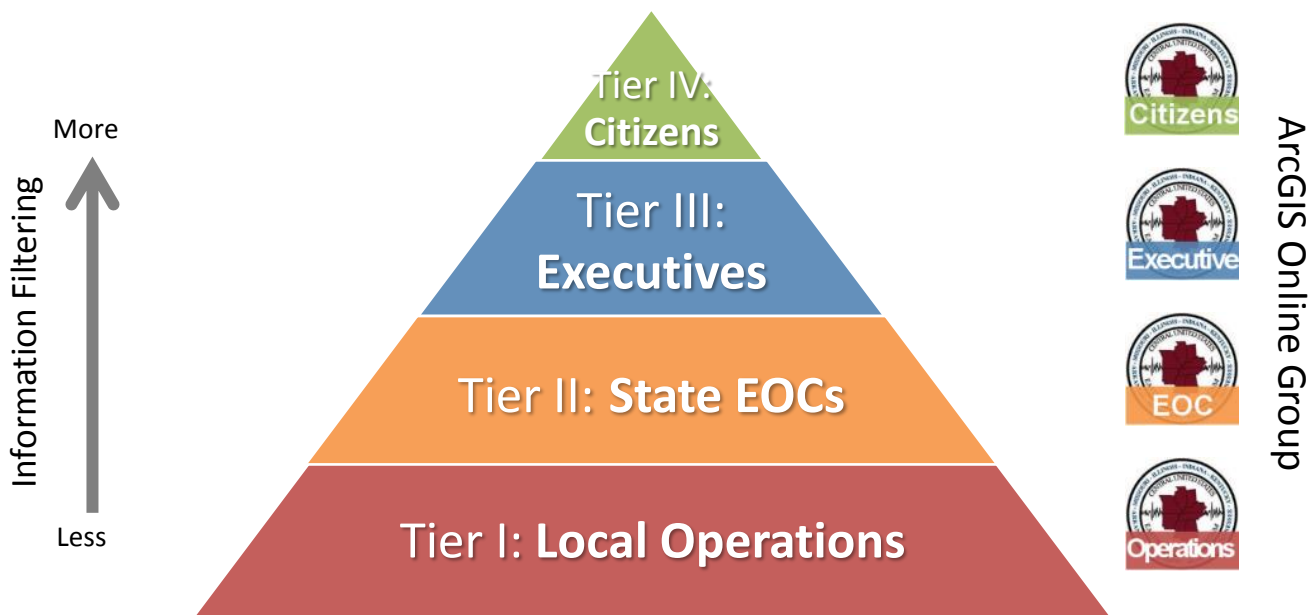


# ArcGIS Online / WebFusion Integration





# Exchanging / Sharing EEIs





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# Homeland Security

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Science and Technology