

Ending Analysis Paralysis by Implementing Best Practices in Your Dashboards



November 13, 2019

Hosted by National Alliance for Public Safety GIS (NAPSG) Foundation

napsgfoundation.org | [@napsgfoundation](https://twitter.com/napsgfoundation)

Introductions

Session: Ending Analysis Paralysis by Implementing Best Practices in Your Dashboards

Tricia Lawson, NAPSG Foundation

- Doug Eades and Dir. Dossett, KY Division of Emergency Management
- Chris Vaughan, FEMA Response Planning and Exercise Division
- Chief Jeff Dulin, International Association of Fire Chiefs

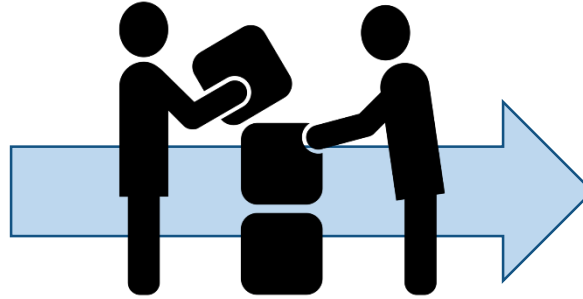
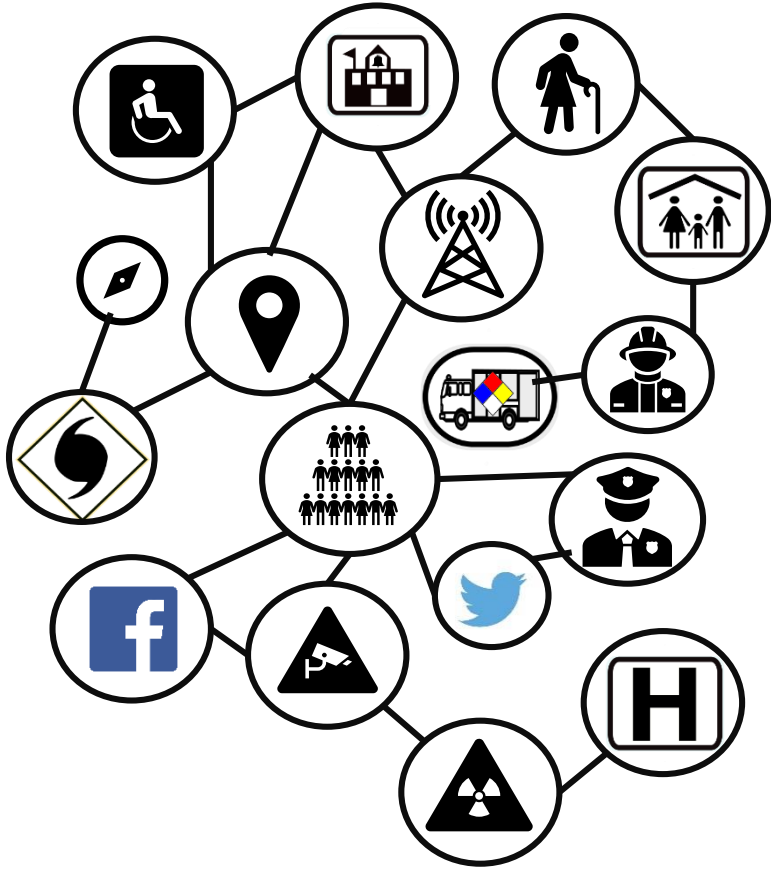
Agenda

- 10:10 – 10:15 Welcome & Introductions
- 10:15 – 10:35 KY Division of Emergency Management (20 min)
- 10:35 – 10:45 Facilitated Group Discussion (10 min)
- 10:45 – 11:05 FEMA National Hurricane Journal (20 min)
- 11:05 – 11:15 Facilitated Group Discussion (10 min)
- 11:15 – 11:35 National Mutual Aid System (20 min)
- 11:35 – 11:45 Facilitated Group Discussion (10 min)
- 11:45 – 11:50 Wrap-Up & Break for Lunch

How Did We Get Here?



GIS as a Decision Support Tool



Untangle, Organize, and Intelligently Present Information

1. What is the problem you are trying to solve?
2. What are the key operational questions needed to arrive at a decision?
3. What information is needed to answer that question? Both in data and analysis.



KY Division of Emergency Management

Director Michael Dossett

Doug Eades, IT Supervisor, GIS Lead

Innovations in Emergency Management Data Transfer

Michael E. Dossett, Director
Doug Eades, GIS Lead

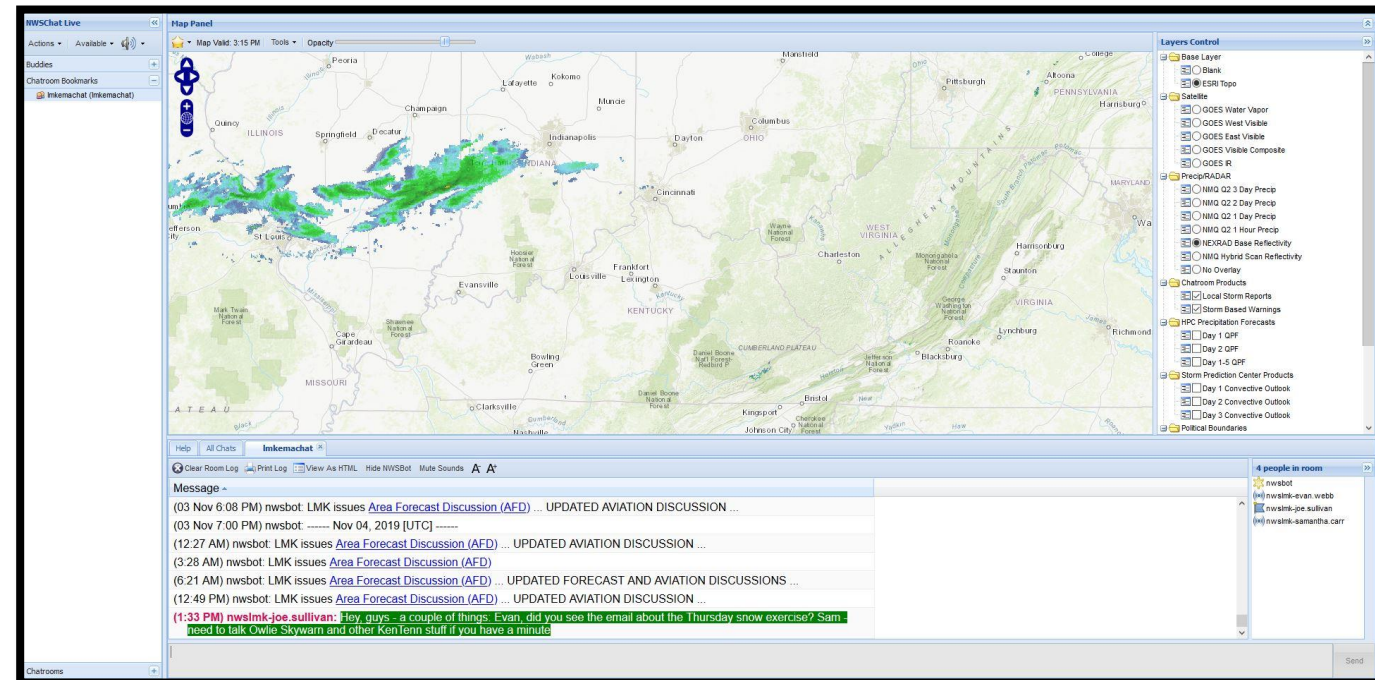


Problem:

During large scale weather events, counties are using multiple platforms to report county level information...

- *Bifurcated reporting*
- *Incomplete reporting*
- *Difficult to track county impact*
- *Difficult to assemble & distribute data*

NWSChat Live



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Twitter



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Facebook



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and finally...
WebEOC

Last Updated	Priority	Posted by	Log	Ref #	Options
11/03/2019 20:18:20	High	Marshall - ESF 05 Emergency Management Marshall County 270-205-8947	Event Type: Vehicle Crash > EM Area: 01 > Jurisdiction: Marshall > Community: Aurora Call cleared at 24:00 Backlog Date and Time: 11/02/2019 23:00 Rescue Squads water team responded to vehicle driven by a Marshall Co Sheriff Deputy who was responding to an overdose emergency and turned to hard on a curve and ran off the road into a pond. The Marshall Co Rescue Dive Team responded to assist in rescuing the deputy and he was transported to a local hospital for treatment of possible hypothermia. Marshall - ESF 05 Emergency Management - Curt Curtner at 20:12:27 on 11/03/2019 Files: 97C82C76-95B8-475C-9219-F526169AE409.jpeg FE23E714-7E41-4983-BD4E-A1B8719FD423.jpeg For further inquiries contact: Curt Curtner Marshall County Emergency Management at 270-205-8947	RN-28908	Update
10/31/2019 10:25:33	High	Marshall - ESF 05 Emergency Management Marshall County 270-205-8947	Event Type: Vehicle Crash > EM Area: 01 > Jurisdiction: Marshall > Community: Calvert City SCENE CLEARED @ 21:15 Backlog Date and Time: 10/30/2019 17:00 Agencies responded to a semi fire on Interstate 24, Eastbound about the 21 mile marker. A 18 wheeler caught fire and also leaked diesel for a few miles along the road resulting in shutting down eastbound lanes. Also, a few westbound vehicles not paying attention and watching the fire collided and resulted in the westbound lane being limited to one lane for awhile. Luckily no serious injuries reported, and after almost 4 hours all lanes eventually cleared and open to traffic. Agencies responding were Marshall County Sheriff Department, Marshall County EMS, Possum Trot Sharpe Fire, Palma Brienburg Fire, multiple wrecker companies, Ky Dept of Transportation, Marshall County Emergency Management Marshall - ESF 05 Emergency Management - Curt Curtner at 10:16:56 on 10/31/2019 Files: IMG-4907.jpg IMG-4901.jpg For further inquiries contact: Curt Curtner Marshall County Emergency Management at 270-205-8947	RN-76915	Update
10/21/2019 09:54:20	Low	Marshall - ESF 05 Emergency	Event Type: Environmental > EM Area: 01 > Jurisdiction: Marshall > Community: Aurora	RN-05634	Update

Key operational questions needed:

What's happening on the ground w/in the last 24 hours?

- *Level of impact experienced by a county*
- *What key elements are impacted?*
- *Identify priority and resource needs*
- *Rise in impact – leveling off - decreasing*

What?

Where?

How bad? (level of impact)

Now what? (better/worse)



Information needed to answer these questions:

- *deaths*
- *injuries*
- *persons evacuated*
- *sheltered*
- *residences damaged*
- *government buildings affected*
- *roads & bridges affected*
- *businesses closed*
- *hospitals/long term care facilities affected*
- *schools closed*



Solution to the problem:

ESRI's Survey123 (browser version) connected to Juvare's WebEOC for reporting

KYEM County Spot Report

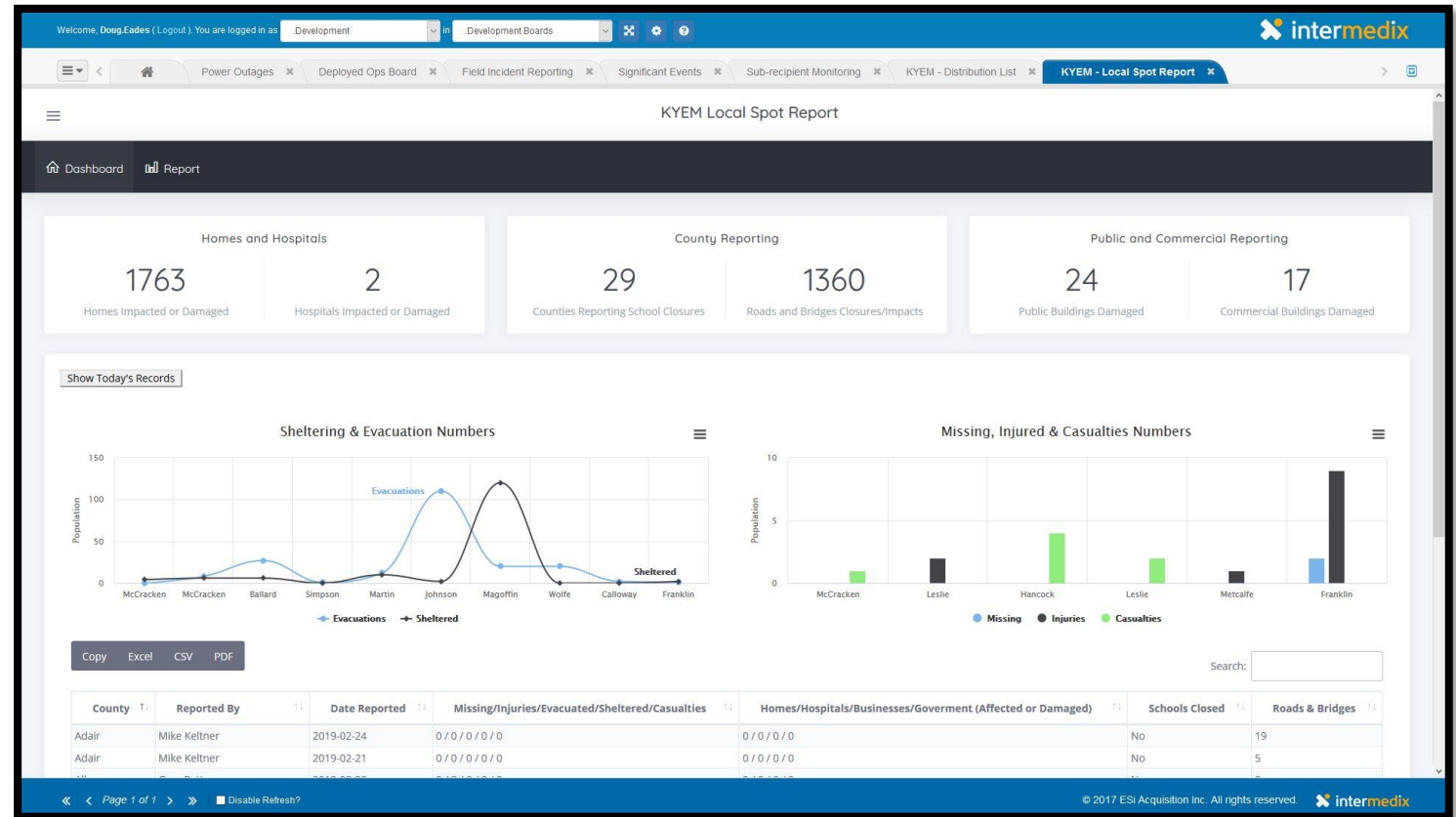
Due to federal reporting protocols, this survey must be completed and submitted to KYEM by noon each day until further notice.
Please report data only for the previous 24-hour period.
Please enter any resource requests into WebEOC.

Report completed by*
Your name

Phone #*
Please enter your best contact number.

County:*
Select or type county report is being submitted for

of deaths w/in last 24 hours*



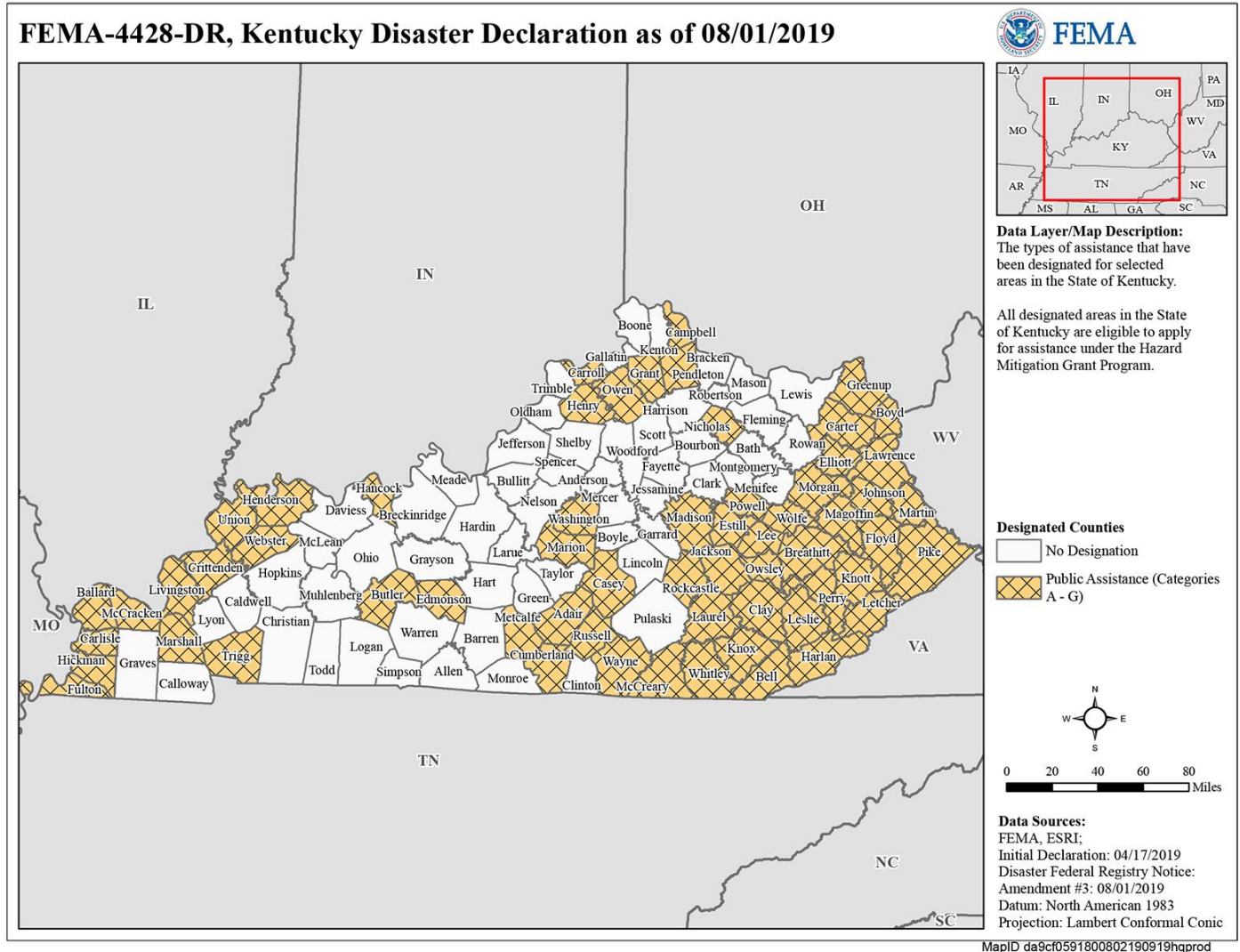
<https://webeoc.kyemweb.com:8232/eoc7/>

<https://arcg.is/vGKzy>

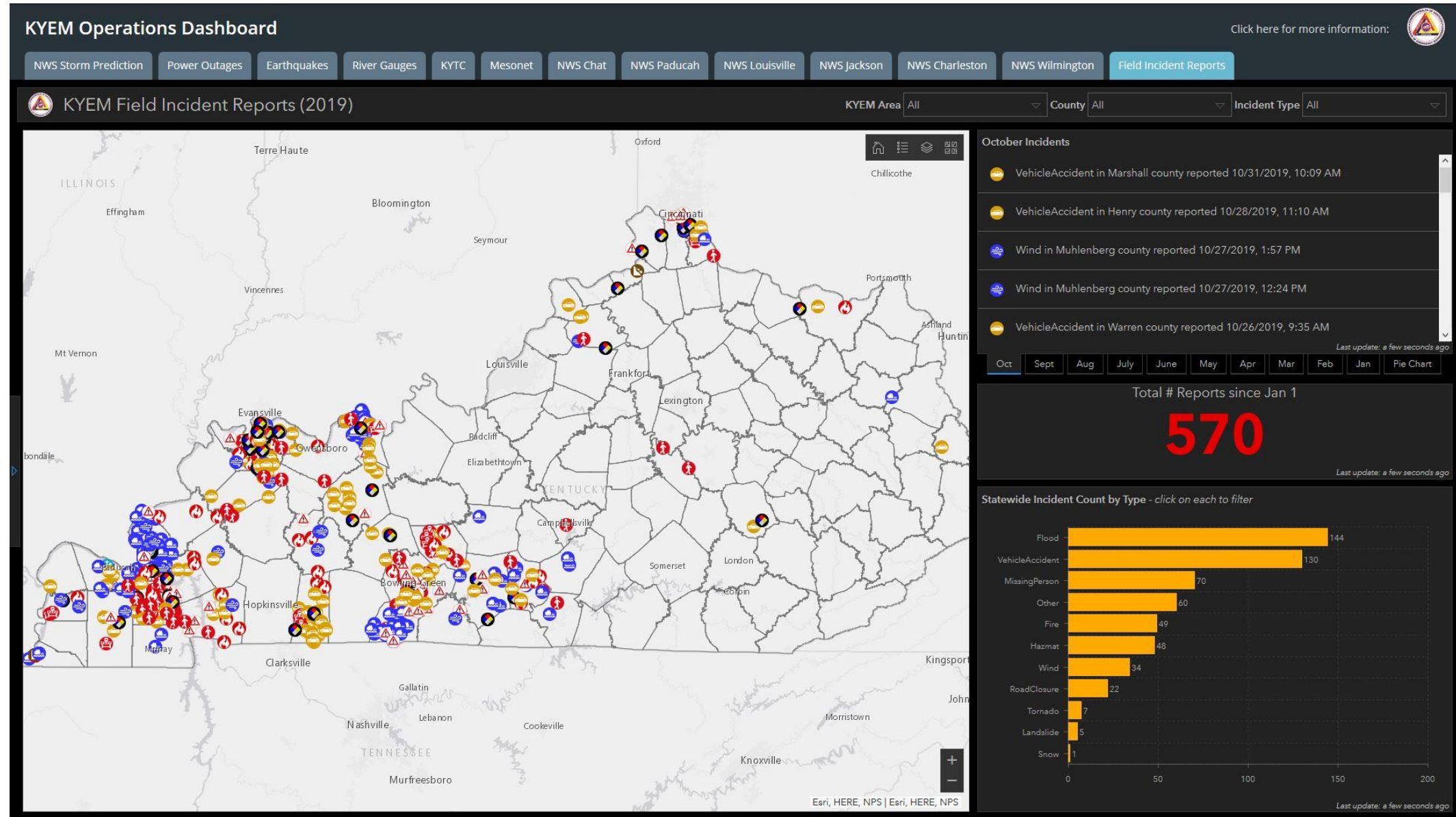
Specific incident:

February - March 2019 flooding event (DR-4428)

- *Over \$125 million in damages*
- *55 counties reported*
- *229 reports*



The next step – rolling up the data:





Questions?

FEMA Response Planning and Exercise Division

Chris Vaughan, Geospatial Information Officer, FEMA

DISASTER DASHBOARDS

*Ending Analysis Paralysis by Implementing
Best Practices in Your Dashboards*

InSPIRE 2019

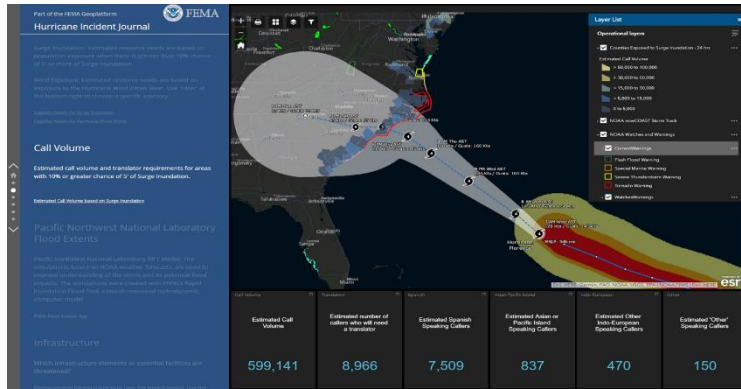


FEMA

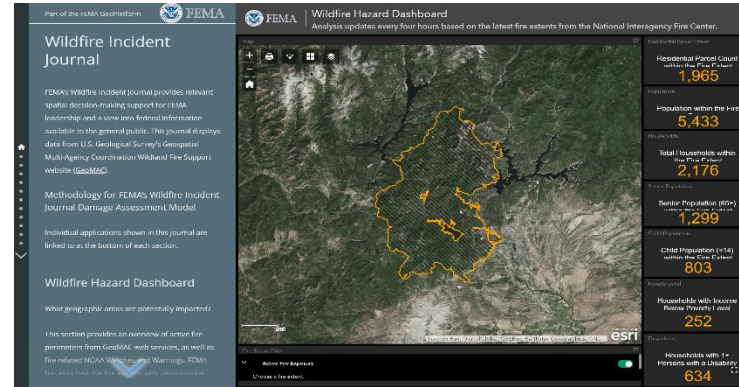
Chris Vaughan
Response Geospatial Office
November 13, 2019

Incident Journals

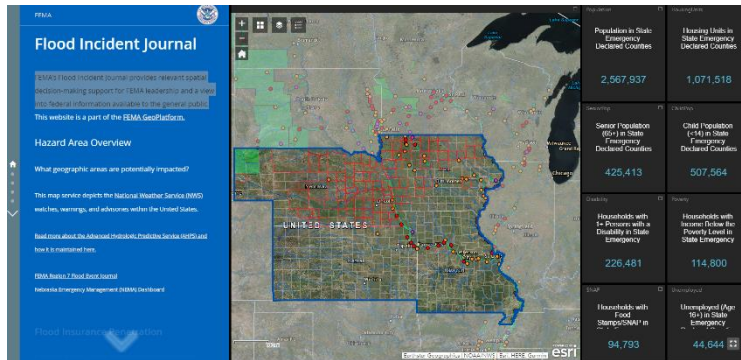
Hurricane



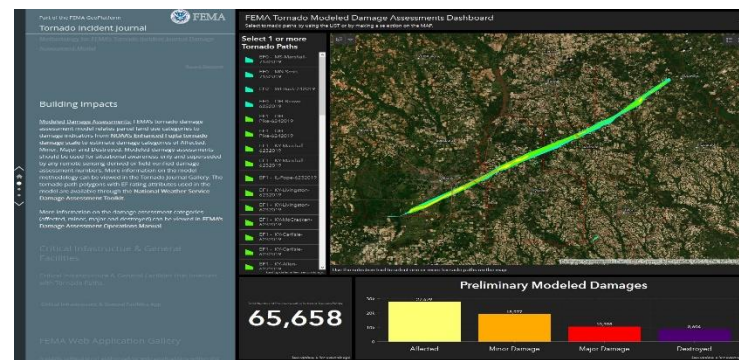
Wildfire



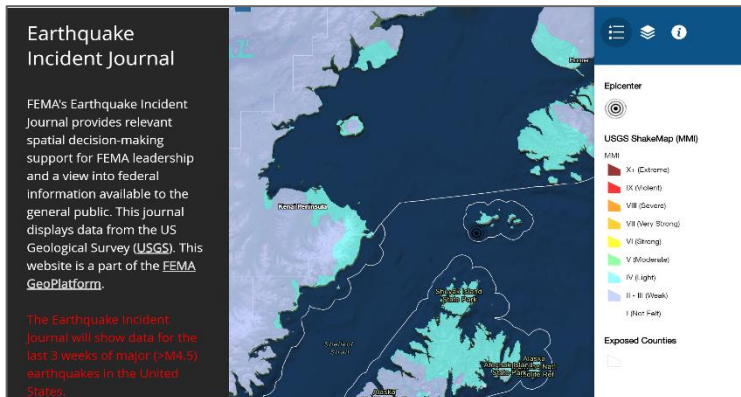
Flood



Tornado



Earthquake



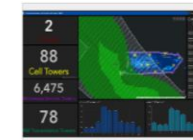
Links:

<https://disasters.geoplatform.gov>

<https://fema.maps.arcgis.com>

FEMA Web Application Gallery - Hurricane Incident Journal

Search



Communication Lifeline Dashboard

FCC's Disaster Information Reporting System (DIRS) data is used to visualize and report cell tower outages, Public Safety Access Points (PSAP), AM transmission towers, and Microwave Service Towers aggregated to the county level.



Critical Infrastructure & General Facilities

Draw a polygon or find locations around a point, and analyze information using the situational awareness tool, within a specified area. Results are exportable.



Energy Lifeline Dashboard (Internal Geoportal)

Energy Lifeline Dashboard for Power & Fuel. Must be on the FEMA internal network in order to view this dashboard.



FEMA Disaster Declarations

Counties that have requested federal disaster support in 2019. A major disaster declaration provides a wide range of federal assistance programs for individuals and public infrastructure, including funds for both emergency and permanent work.



FEMA Geospatial Damage Assessments

Modeled and remotely sensed building level damage assessments. Observed damage assessments from the best available remote sensing data. Data includes historical disaster damage assessments.



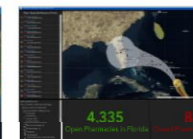
FEMA Individual Assistance

FEMA's Individual Assistance (IA) applicant, Eligibility Obligations, and Inspections, aggregated to US National Grid 1km and 5km grids. Data is updated every morning at 3am. Approved amounts are not reflective of any adjustments to awards performed.



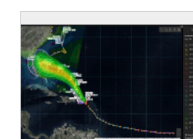
FEMA Prioritizing Operations Support Tool (POST) Outputs

FEMA's POST layer is a predictive output that displays areas of greatest risk for a given event based on social vulnerability, population, building location and types, and hazard data.



Health and Medical Lifeline Dashboard

All aspects of medical services required during a disaster, including survivor medical care, public health, and the medical industry. HHS's emPOWER Program supplies electricity-dependent medical equipment data, Rx Open live open pharmacy data.



Hurricane Hazard Overview

The hurricane hazard overview application is based on NOAA's Surge Inundation and Hurricane Force Winds data. This application also provides an overview of active watches, warnings, 3-day Rainfall QPF and Stream Gauge Forecasts.



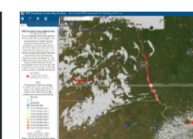
Hurricane Logistics Overlay Dashboard

Logistics and commodities data, along with estimated needs based on the latest NOAA advisory data.



Transportation Lifeline Dashboard: Waze (Internal)

WAZE's Connected Citizens Program (CCP) Live Alerts Layer, as well as HERE's traffic service, through ESRI's World Traffic Service. This information is updated every 30 minutes.



VIIRS Floodwater Fraction Map Products

The VIIRS Floodwater Fraction Map Products Web App is a tool that displays daily flood extents covering the entire CONUS derived from the Visible Infrared Imaging Radiometer Suite (VIIRS).

Community Lifelines

A CONSTRUCT FOR OBJECTIVES-BASED STABILIZATION EFFORTS

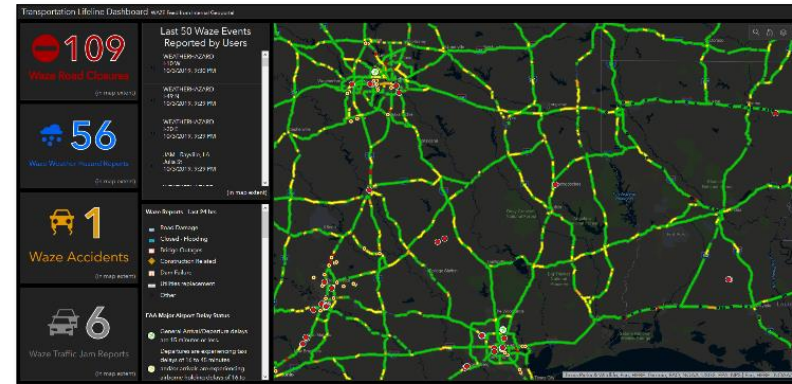
A lifeline enables the continuous operation of critical government and business functions and is essential to human health and safety or economic security.



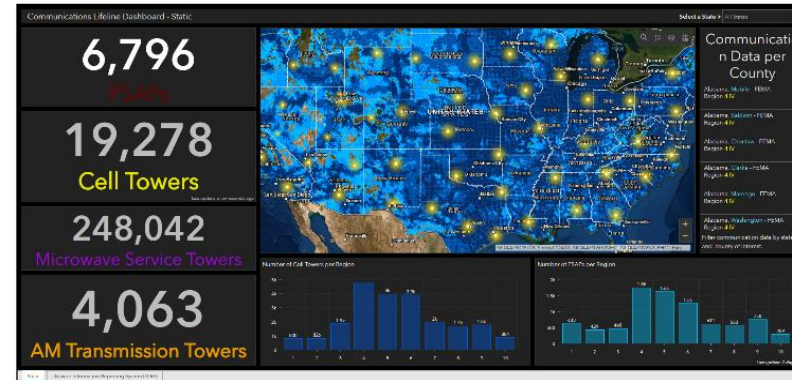
- Lifelines are the most fundamental services in the community that when stabilized enable all other aspects of society
- Lifelines exist during steady-state and are normally provided by sources organic to the community.
- When disrupted, decisive intervention (e.g., rapid service re-establishment or employment of contingency response solutions) is required.

Lifeline Dashboards

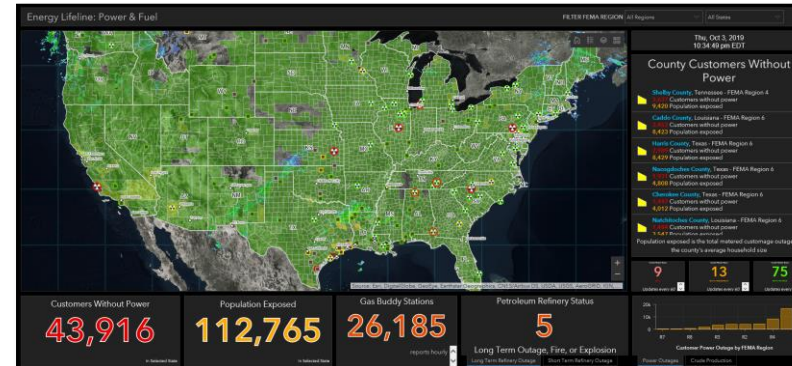
Transportation



Communications



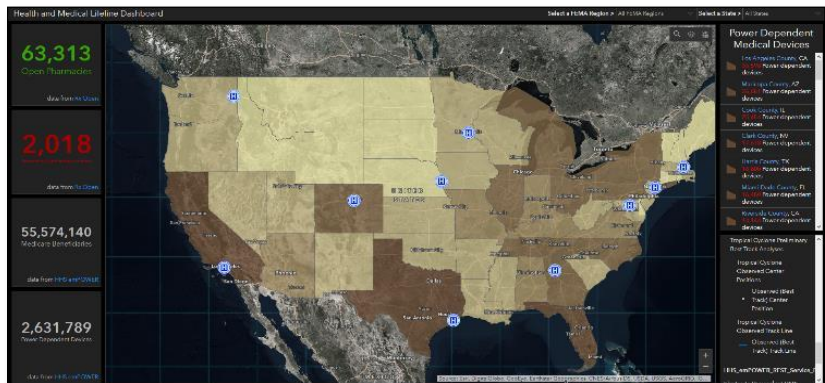
Energy



Hazardous Material



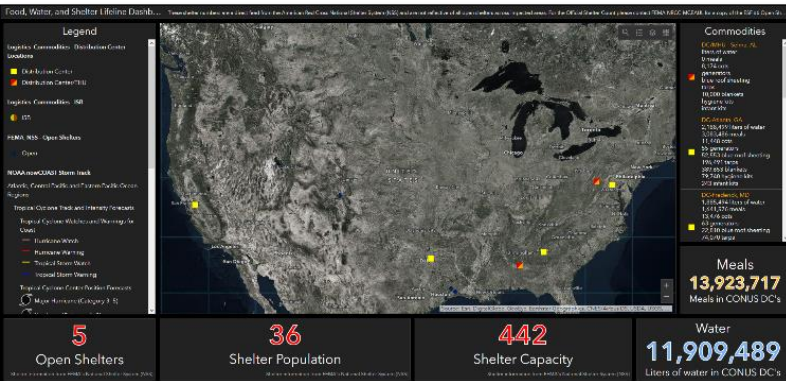
Health and Medical



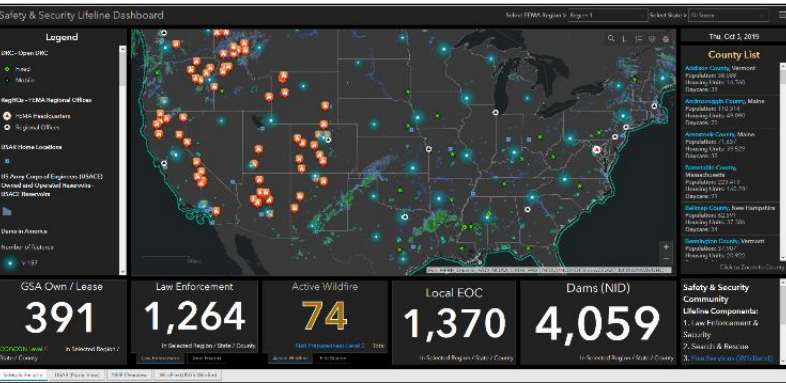
NAPSG Foundation Symbol Library

<https://naps-web.s3.amazonaws.com/symbology/index.html#/subcat?Lifelines>

Food, Water, Shelter



Safety and Security



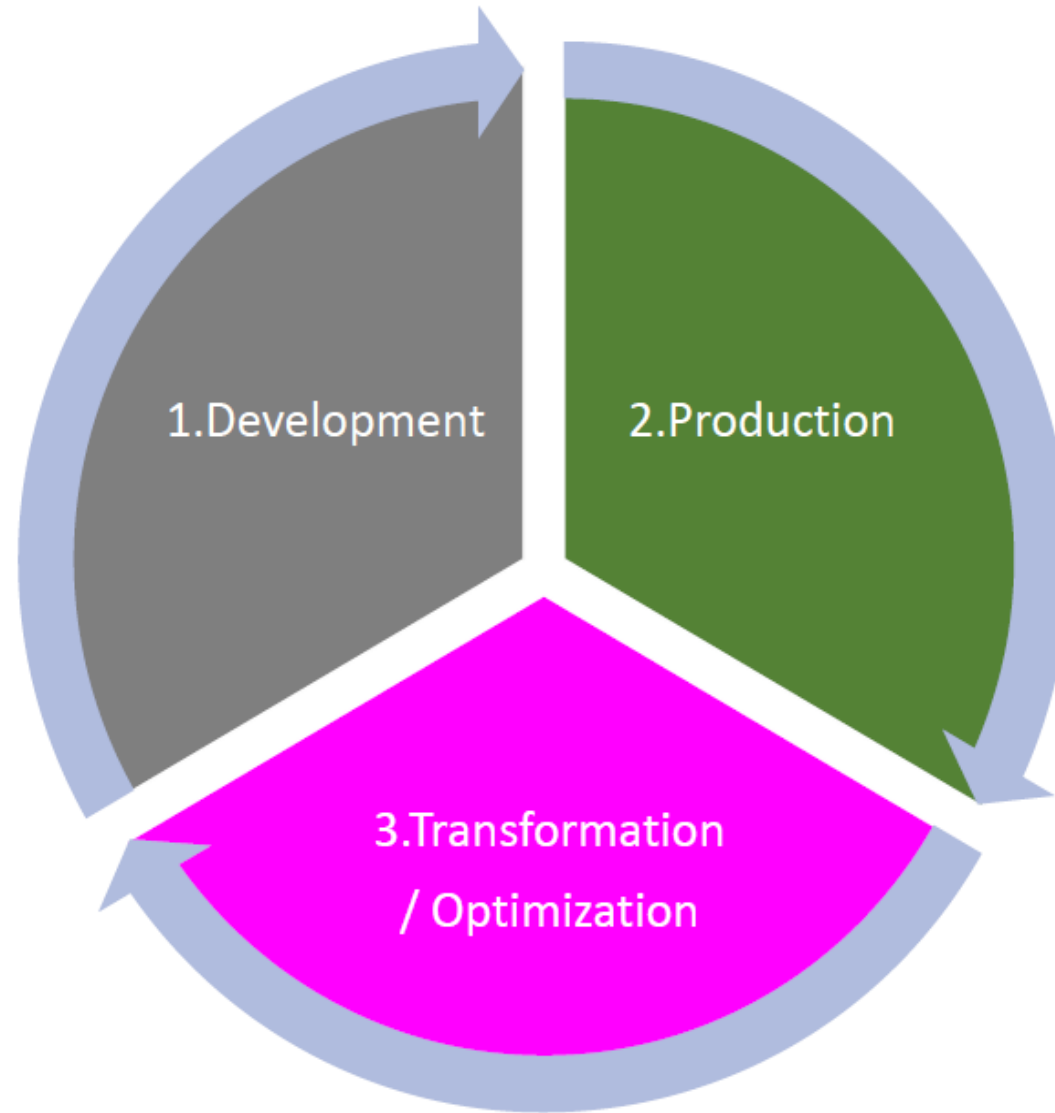
Community Lifeline Dashboard Capability Development Phase

Initial Planning

- Identify capability Owner
- Capture & Define requirements
- Define & Identify stakeholders/ audiences
- Identify Dashboard Champion/ Advocate
- Scope resource requirements / communicate shortfalls
- Form project work team & Select team member with required skills
- Prioritize Dashboard Development
- Assign dashboard & tasks to the appropriate team member
- Develop QA & QC Plan
- Develop project plan

Dashboard Focus Areas

- Data (Static & Live)
- Dashboard creation
- Design
- Outreach & Coordination

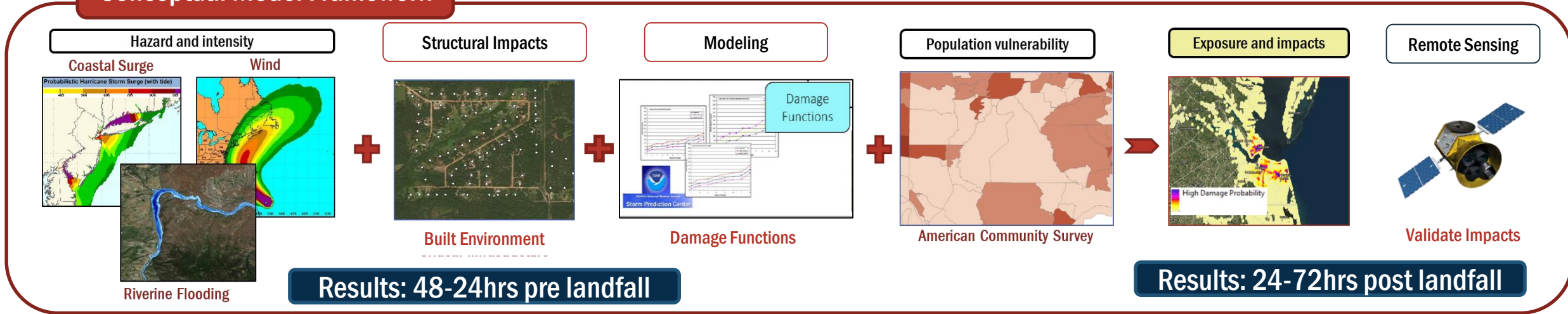


- Process improvements from lesson learn, incident response activation & feedback
- Integration of additional live and near real time data (operational status)
- Design & functional improvements
- Requirements change & update

- Paradigm Shift / Total information requirement change
- Platform innovation (Dashboards, infographics, AI)
- Managed & integrated transactional incident information (Live & near real-time data) / Predictions
- Full integration into organization (program areas) business workflows

CONOPS | Prioritizing Operational Support and Resource Requirements

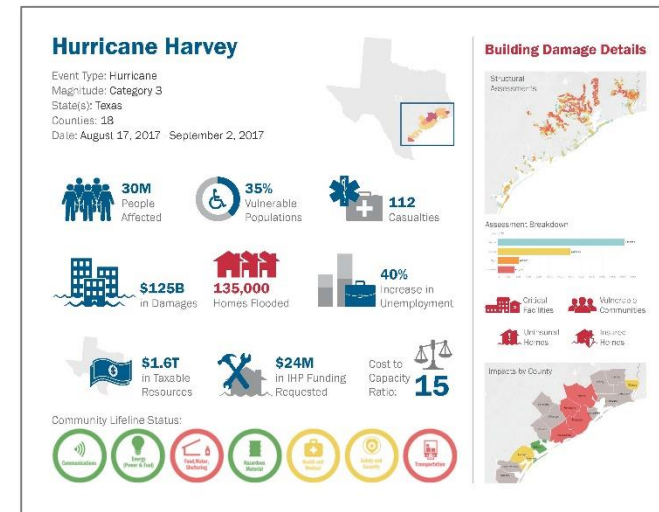
Conceptual Model Framework



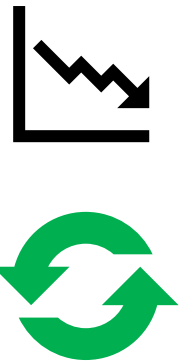
Estimated Resource Requirements:



Results



Trend Analysis:

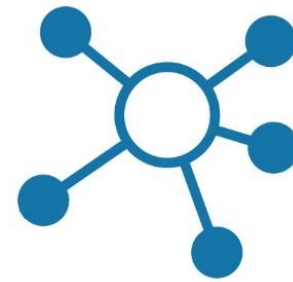


Questions?

International Association of Fire Chiefs

Chief Jeff Dulin, Strategic Advisor, International Association of Fire Chiefs

The National Mutual Aid System



NMAS

Request. Locate. Deploy.

Powered by



esri

THE
SCIENCE
OF
WHERE™



JUVARE



Evolution over Time

1999



2004



2016



Technology For the Emergency Services

Today WebGIS and other Technologies provide the Emergency Services the capability to support Information Sharing From Pre-planning through Demobilization of Resources. Providing the Right Information to The Right Audience Is The Key!



Book1 - Microsoft Excel									
FileHomeInsertPage LayoutFormulasDataReviewView									
Clipboard		Font		Alignment		Number		Styles	
G35									
	A	B	C	D	E	F	G	H	I
1	Department	Resource Identifier	Chief's Name	Chief's Phone Number	Station Phone Number				
2	Springdale FD	Springdale - E1	Homer Roberts	479-221-3456	479-342-2211				
3	Springdale FD	Springdale - E2	Homer Roberts	479-221-3456	479-342-2211				
4	Springdale FD	Springdale - E3	Homer Roberts	479-221-3456	479-342-2211				
5	Springdale FD	Springdale - E4	Homer Roberts	479-221-3456	479-342-2211				
6	Springdale FD	Springdale - E5	Homer Roberts	479-221-3456	479-342-2211				
7	Springdale FD	Springdale - L6	Homer Roberts	479-221-3456	479-342-2211				
8	Springdale FD	Springdale - L7	Homer Roberts	479-221-3456	479-342-2211				
9	Springdale FD	Springdale - MED2	Homer Roberts	479-221-3456	479-342-2211				
10	Springdale FD	Springdale - MED3	Homer Roberts	479-221-3456	479-342-2211				
11	Springdale FD	Springdale - MED4	Homer Roberts	479-221-3456	479-342-2211				
12	Springdale FD	Springdale - MED6	Homer Roberts	479-221-3456	479-342-2211				
13	Springdale FD	Springdale - R1	Homer Roberts	479-221-3456	479-342-2211				
14	Springdale FD	Springdale - BC1	Homer Roberts	479-221-3456	479-342-2211				
15	Fayetteville FD	Fayetteville - E1	Bobby King	479-342-2211	479-876-2745				
16	Fayetteville FD	Fayetteville - E2	Bobby King	479-342-2211	479-876-2745				
17	Fayetteville FD	Fayetteville - L3	Bobby King	479-342-2211	479-876-2745				
18	Fayetteville FD	Fayetteville - E4	Bobby King	479-342-2211	479-876-2745				
19	Fayetteville FD	Fayetteville - E5	Bobby King	479-342-2211	479-876-2745				
20	Fayetteville FD	Fayetteville - L6	Bobby King	479-342-2211	479-876-2745				
21	Fayetteville FD	Fayetteville - L7	Bobby King	479-342-2211	479-876-2745				
22	Fayetteville FD	Fayetteville - L4	Bobby King	479-342-2211	479-876-2745				
23	Fayetteville FD	Fayetteville - E6	Bobby King	479-342-2211	479-876-2745				
24	Fayetteville FD	Fayetteville - HAZMAT5	Bobby King	479-342-2211	479-876-2745				
25	Fayetteville FD	Fayetteville - USAR3	Bobby King	479-342-2211	479-876-2745				
26	Fayetteville FD	Fayetteville - R1	Bobby King	479-342-2211	479-876-2745				
27	Fayetteville FD	Fayetteville - BC1	Bobby King	479-342-2211	479-876-2745				
28	Rogers FD	Rogers - L1	Tommy Jenkins	479-876-2745	479-221-3456				
29	Rogers FD	Rogers - E2	Tommy Jenkins	479-876-2745	479-221-3456				
30	Rogers FD	Rogers - E3	Tommy Jenkins	479-876-2745	479-221-3456				
31	Rogers FD	Rogers - E4	Tommy Jenkins	479-876-2745	479-221-3456				
32	Rogers FD	Rogers - L5	Tommy Jenkins	479-876-2745	479-221-3456				
33	Rogers FD	Rogers - E6	Tommy Jenkins	479-876-2745	479-221-3456				
34	Rogers FD	Rogers - E7	Tommy Jenkins	479-876-2745	479-221-3456				
35	Rogers FD	Rogers - R2	Tommy Jenkins	479-876-2745	479-221-3456				
36	Rogers FD	Rogers - MED1	Tommy Jenkins	479-876-2745	479-221-3456				
37	Rogers FD	Rogers - MED2	Tommy Jenkins	479-876-2745	479-221-3456				
38	Rogers FD	Rogers - MED4	Tommy Jenkins	479-876-2745	479-221-3456				
39	Rogers FD	Rogers - MED5	Tommy Jenkins	479-876-2745	479-221-3456				
40	Rogers FD	Rogers - BC1	Tommy Jenkins	479-876-2745	479-221-3456				
41	Siloam Springs FD	Siloam Springs - L1	Cleve Mason	479-657-3122	479-876-2745				



Resource Typing Library Tool

RTLT[Home](#)[Browse](#)[Links & Tools](#)[About](#)[Help](#)

Welcome to the Resource Typing Library Tool (RTLT), an online catalogue of national resource typing definitions, position qualifications and Position Task Books (PTBs) provided by the Federal Emergency Management Agency (FEMA) National Integration Center (NIC).

[Search](#)[Browse](#)[Links & Tools](#)[About](#)[Help](#)

State

County

Area/Branch

Region/District

Availability

Response Mode

Tier 1

Tier 2

Tier 1 & 2

Category

Law Enforcement Operat... x

Name

Bomb Response Team x

1 - 15 of 29 (32 Total)

BombFilterClear

Org Id ^	Resource Name	Type	Identifier	Category	Resource Status	Availability	Response Mode
FL-301	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Region	Immediate Need (within 30-mins)
FL-301	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Region	Immediate Need (within 30-mins)
FL-302	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Region	Initial Attack (ASAP)
FL-302	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Region	Initial Attack (ASAP)
FL-303	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Region	Initial Attack (ASAP)
FL-306	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Statewide	Immediate Need (within 30-mins)
FL-306	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Statewide	Immediate Need (within 30-mins)
FL-307	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Statewide	Immediate Need (within 30-mins)
FL-307	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Statewide	Immediate Need (within 30-mins)
FL-310	Bomb Response Team	Type 1	Bomb Team-2	Law Enforcement Operations	Available	Statewide	Immediate Need (within 30-mins)
FL-310	Bomb Response Team	Type 1	Bomb Team-1	Law Enforcement Operations	Available	Statewide	Immediate Need (within 30-mins)
FL-310	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Statewide	Immediate Need (within 30-mins)
FL-311	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Statewide	Immediate Need (within 30-mins)
FL-311	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Statewide	Immediate Need (within 30-mins)
FL-312	Bomb Response Team	Type 1		Law Enforcement Operations	Available	Region	Immediate Need (within 30-mins)

<<

1

2

>>

Request Form

Organizations List

1 - 14 of 14

Filter... Filter Clear

Organization	Available Quantity	Requested Quantity	Distance
FL-Gainesville Police Department	2	0	3.56 Miles
Jacksonville Sheriff's Office	2	0	58.21 Miles
FL-Orange County Sheriff's Office	2	0	93.40 Miles
FL-Orlando Police Department	2	0	94.76 Miles
FL-Hillsborough County Sheriff's Office	2	0	118.62 Miles
FL Tampa Police Department	2	0	119.63 Miles
FL-Tallahassee Police Department	1	0	131.57 Miles
FL-Broward County Sheriff's Office	3	0	276.43 Miles
FL-Miami-Dade Police Department	2	0	292.21 Miles
FL-Miami Police Department	1	0	297.13 Miles
NC-Charlotte-Mecklenburg Police Department	1	0	391.16 Miles
TN-Emergency Management	3	0	513.37 Miles
VA-Virginia EM	3	0	602.85 Miles
MO-Missouri EM	3	0	829.45 Miles

NMAS Incident Dashboard

Filter by Organization

Select one or more

Active Incidents



Highway 70 Avalanche
| 4/12/2019, 11:26 PM
Authority: CO-Boulder
County EM
IC: Charles N. Charge -



American Crash
| 3/30/2019, 5:23 AM
Authority:
IC: -



Highway 81 MVA
| 3/30/2019, 5:23 AM
Authority: Salem Fire
Rescue
IC: -



Animal Outbreak.
| 3/29/2019, 12:00 AM
Authority:
IC: -



Hurricane Cassie
| 2/27/2019, 1:23 AM
Authority: FL-State Fire
Marshal
IC: -



Downtown Fire
| 2/14/2019, 8:25 AM

All Resources

1,915

Last update: a few seconds ago

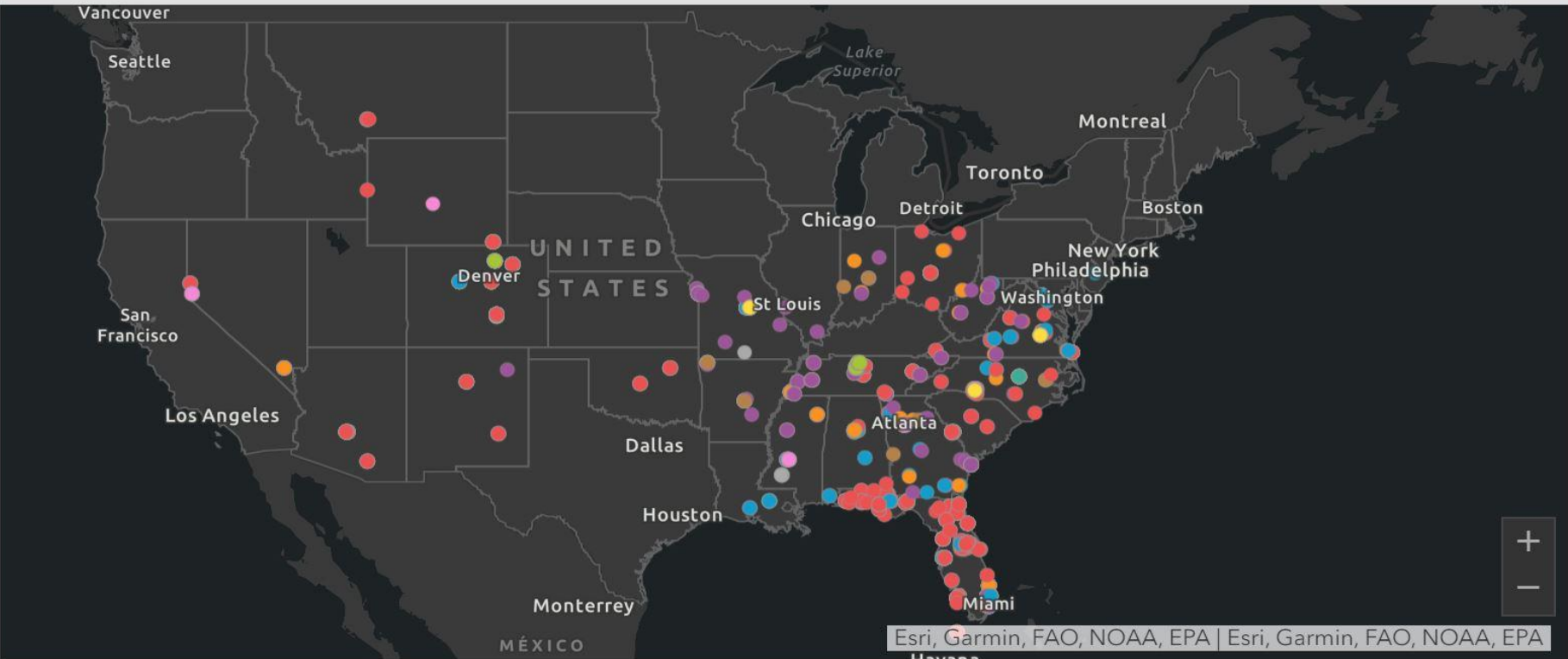
Incident Summary



Availability | Fire and Hazmat Resources



- Available
- Engine, Fire (Pumper) / E-009
- Available
- Chief\Command Vehicle / Battalion-4 - Available
- Chief\Command Vehicle / Battalion-5 - Available
- Chief\Command Vehicle / Chief-7 - Available
- Heavy Rescue / Squad-20 - Available
- Heavy Rescue / Squad-101 - Available
- Engine, Fire (Pumper) / Engine-1 - Available



Fire	EMS	SAR	IMT	LE	Ani	GIS	EM
2,327	738	177	101	60	6	15	15

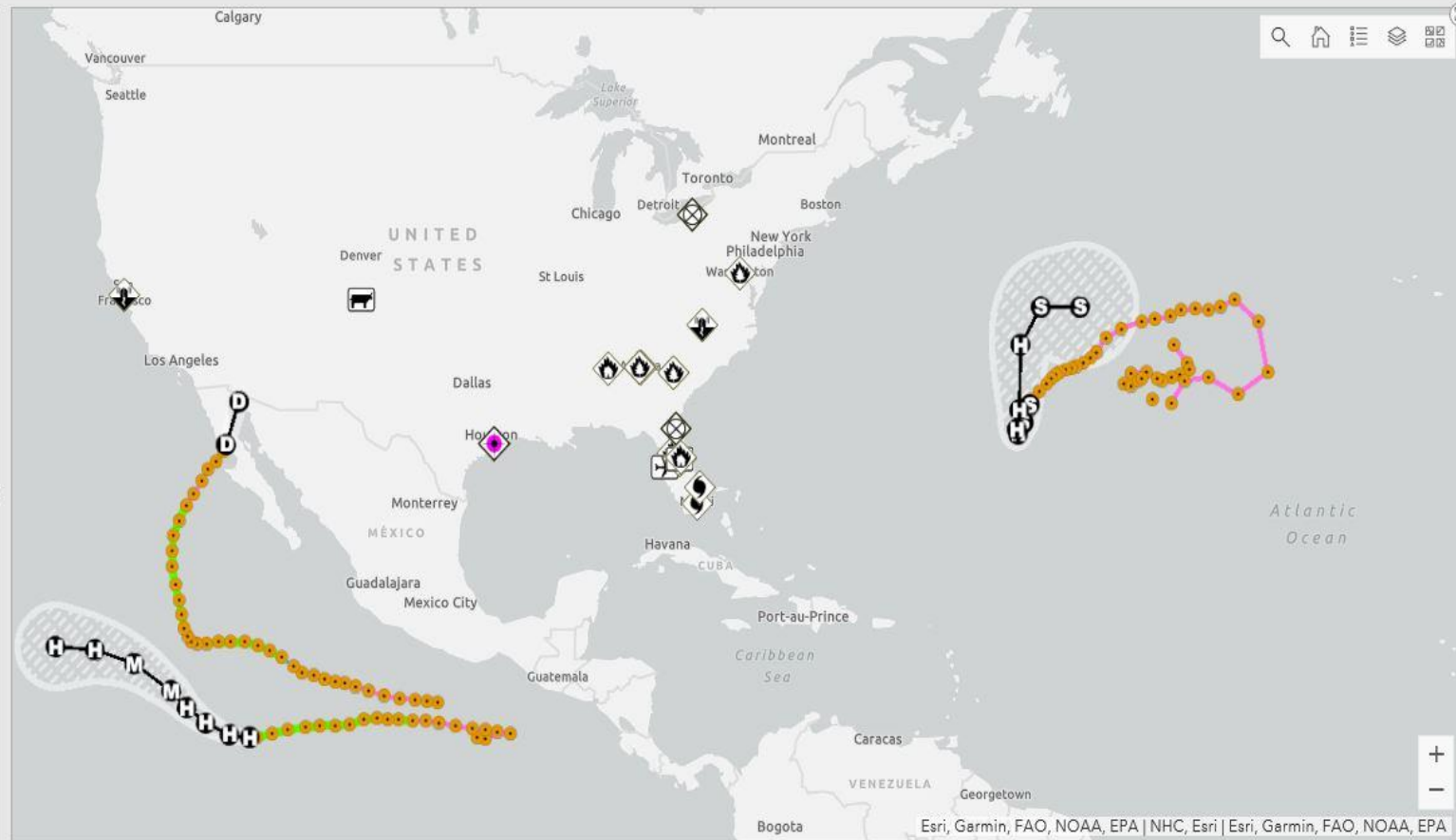
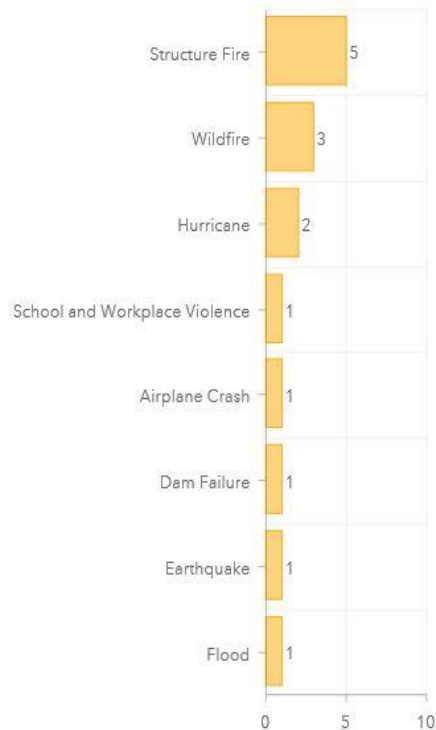
Active Incidents

- Brad Dam Failure | 9/27/2018, 3:40 PM
Authority:
IC: brad pond - 8032156449
- Hurricane Brad | 9/20/2018, 2:22 PM
Authority:
IC: -
- Hurricane Cassie | 9/20/2018, 1:57 PM
Authority:
IC: -
- Bank of America Building Fire | 9/17/2018, 4:39 PM
Authority:
IC: -
- ABC Building Fire | 9/16/2018, 7:57 PM
Authority: FL-Orlando Fire Dept.
IC: Charles N. Charge -
- St. Johns River Flood | 9/7/2018, 12:31 PM
Authority: Florida Department of Health
IC: -
- Patrick Ln Fire | 9/3/2018, 5:12 AM
Authority:
IC: -
- FRI-2018 Test Incident | 8/9/2018, 11:10 AM
Authority: Orange County Fire Rescue
IC: Charles N. Charge - 123-123-1234
- Santa Fe Shooting | 8/9/2018, 11:07 AM
Authority: Brazoria County Sheriff
IC: Patrick Lane - 7041234567
- Blue Ridge Fire | 8/9/2018, 11:06 AM
Authority: Greater Naples Fire & Rescue District
IC: -
- Orlando Structure Fire | 8/9/2018, 9:46 AM
Authority: FL-Orange County Fire Rescue
IC: -
- Washington DC Fire | 8/9/2018, 9:14 AM
Authority:
IC: -
- North Tower Fire | 8/6/2018, 11:43 AM
Authority:
IC: -
- Sumter Wildfire | 8/6/2018, 11:43 AM
Authority:
IC: -
- Madras Fault Earthquake | 8/6/2018, 11:43 AM
Authority: Guilford County Sheriff

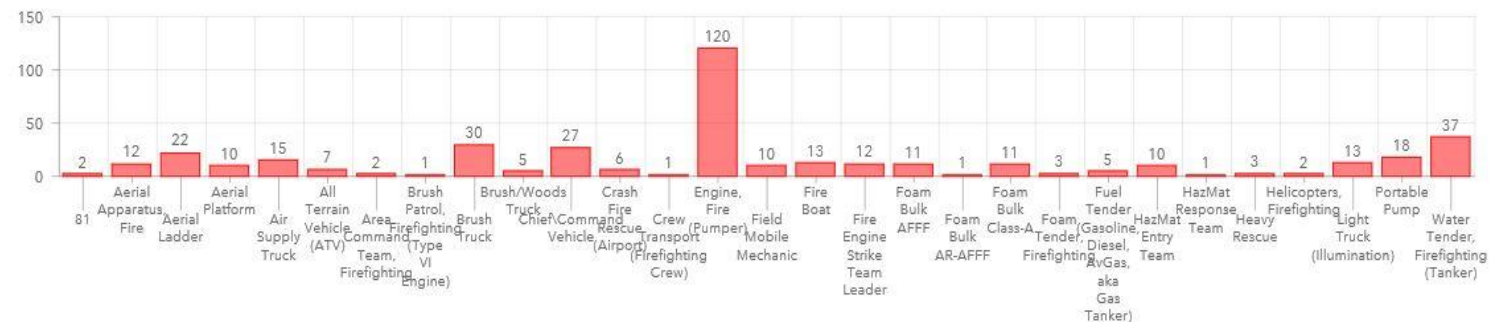
Available Resources

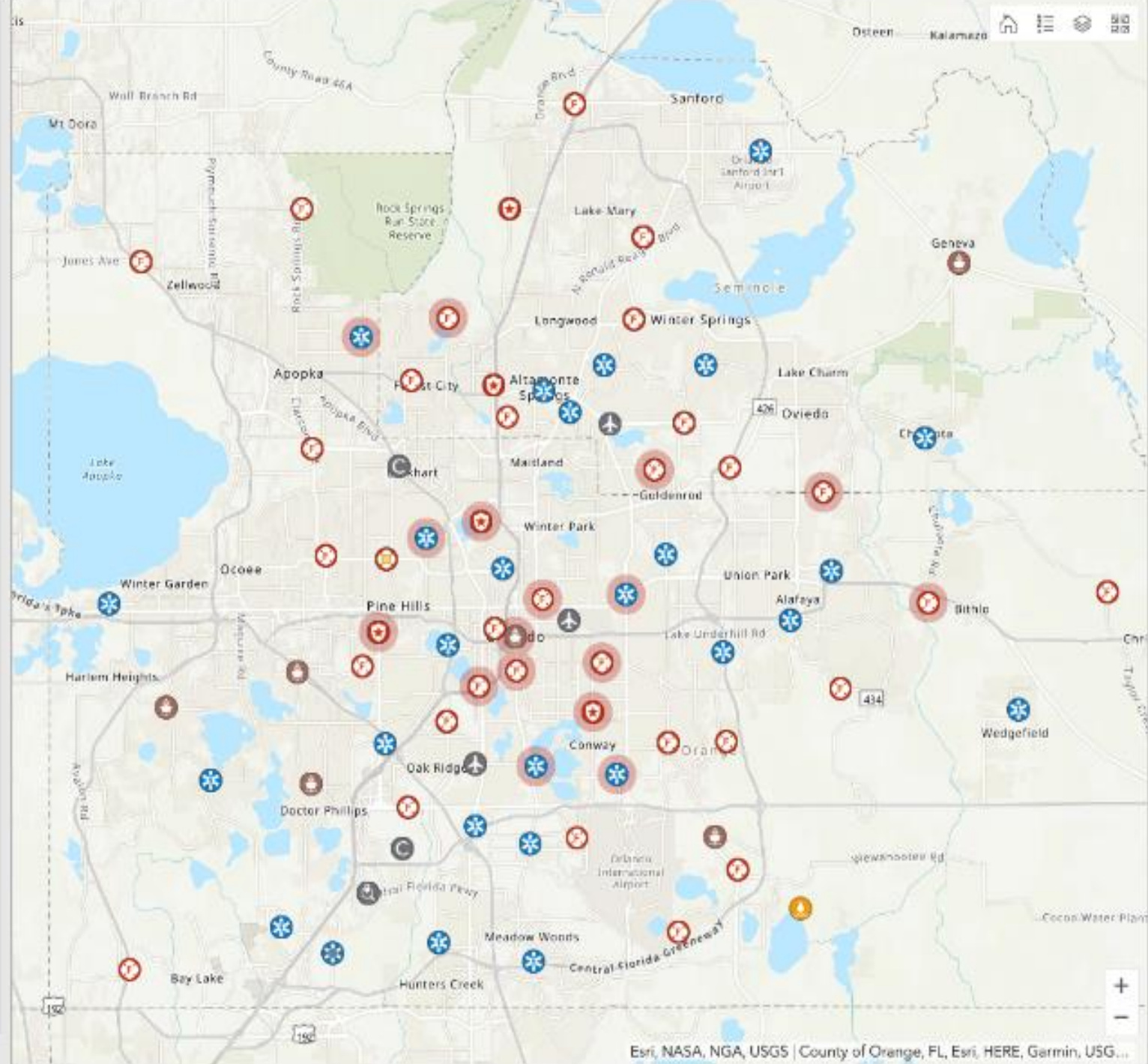


Incident Summary



Availability | Fire and Hazmat Resources





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National Mutual Aid System (NMAS)

The National Mutual Aid System (NMAS) takes mutual aid to the next level, creating a system where all users can access cutting-edge technology to request, geospatially locate and strategically deploy response resources.

System is operational, no service disruptions

NMAS is operational in support of the
National Mutual Aid Technology Exercise (NMATE)

The National Mutual Aid System



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Questions?

Thank you!

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