NAPSG Foundation Resources

Presentation for the California Geographic Information Association

Paul J Doherty

May 29th, 2019

National Alliance for Public Safety GIS (NAPSG) Foundation

napsgfoundation.org | @napsgfoundation

bit.ly/20190529CGIA

Agenda

- Who is the National Alliance for Public Safety GIS (NAPSG) Foundation?
- What resources are available for you to use?
- How can you get involved?

bit.ly/20190529CGIA

Who is the NAPSG Foundation?

About NAPSG Foundation

Our Vision

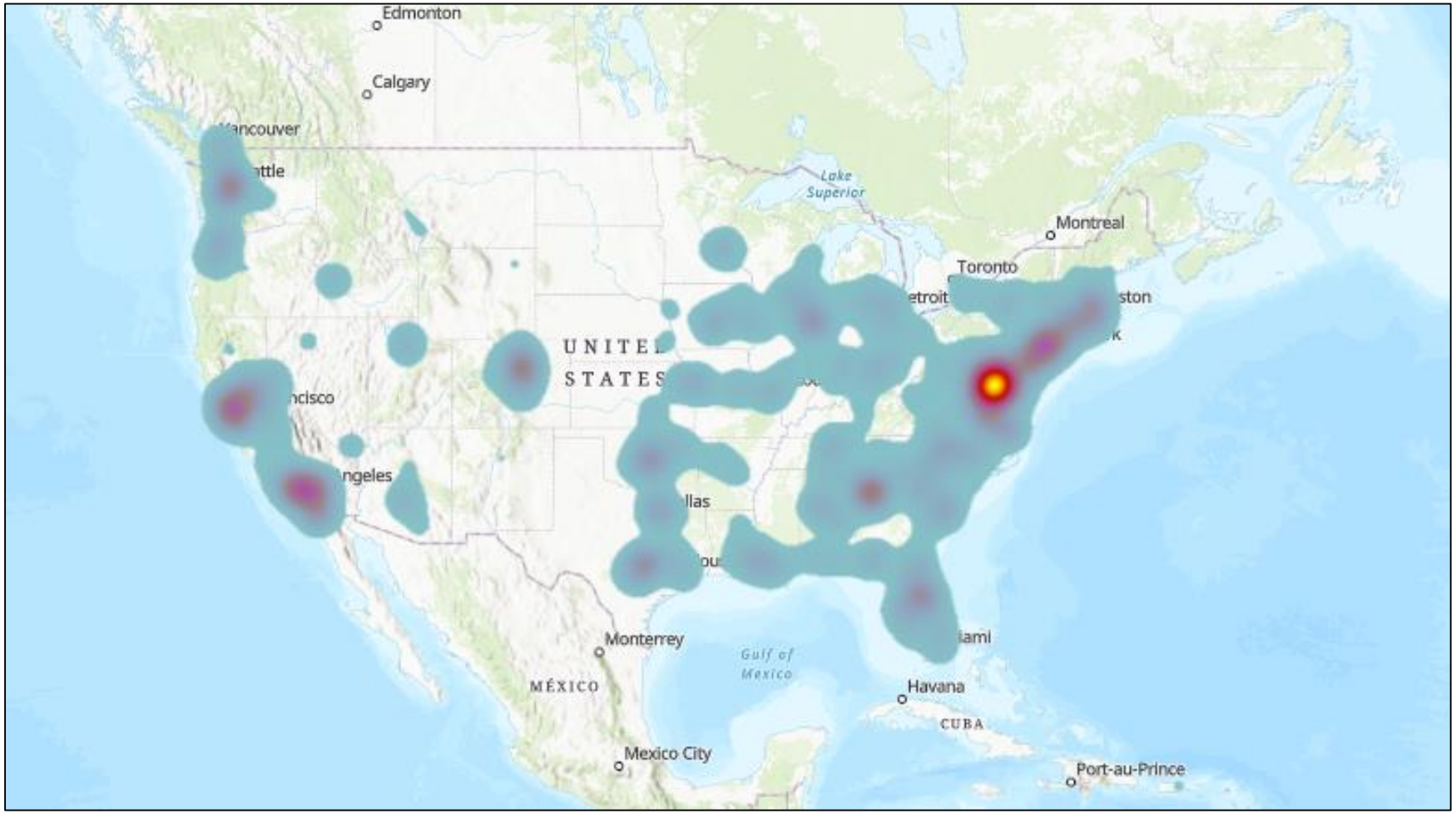
A Nation of emergency responders and leaders equipped with the knowledge and skills in applying technology and data to change the outcome for survivors.

- 501(c)(3) Non-profit organization established in 2005
- +20,000 member network: Public Safety leaders, first responders, and GIS practitioners
- Board of Directors comprised of public safety & emergency management industry leaders

NAPSG Foundation

Local Focus – National Reach

- 20,000+ member network
- 12 primary national & international associations
- All Disciplines
- All levels of government
- Private sector



From Preparedness through Response and into Recovery

First Responders, Operators, and Decision Makers have access to and know how to use the **right actionable information at the right time.**

NAPSG Foundation

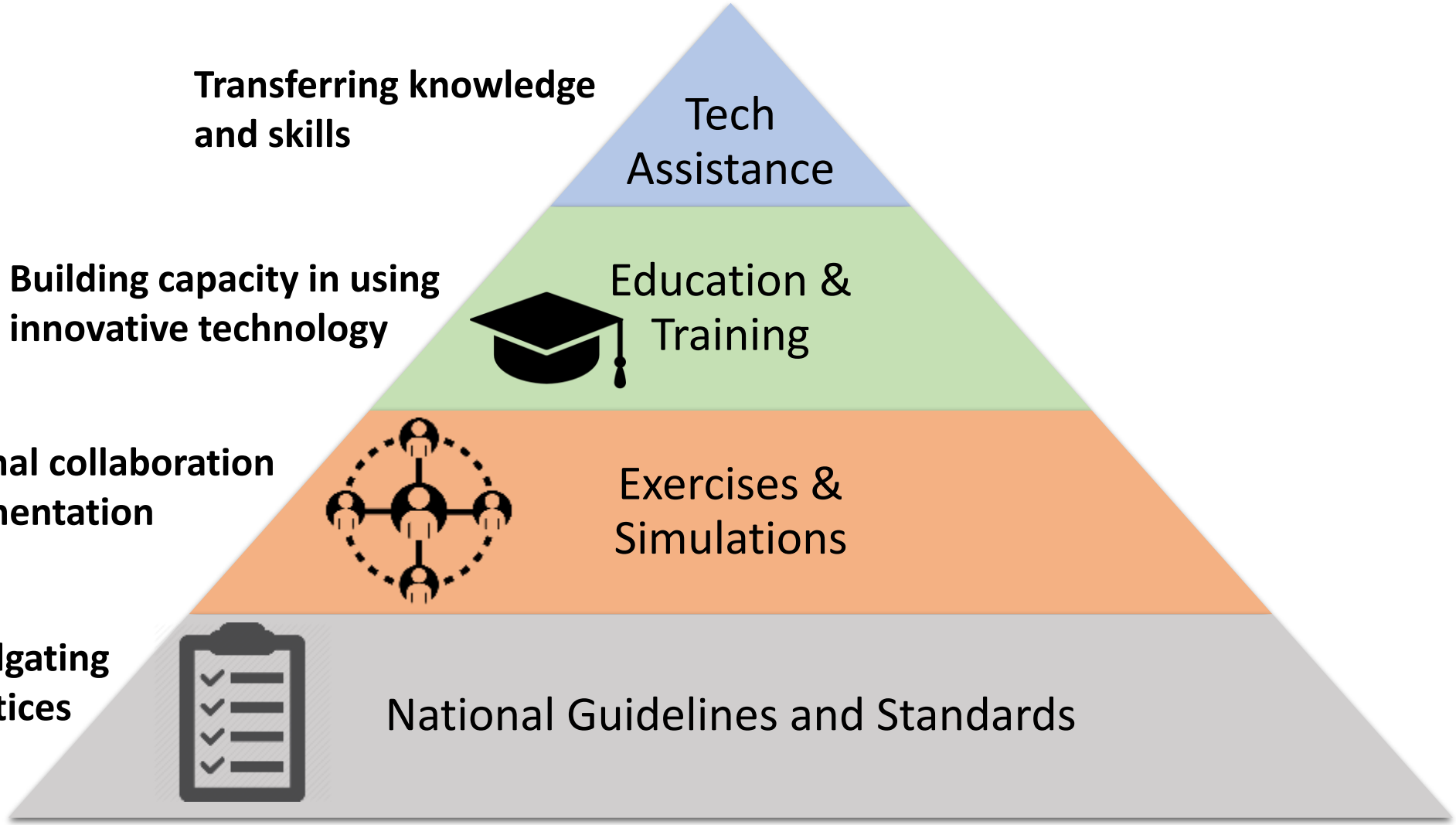
How Do We Do It

Transferring knowledge and skills

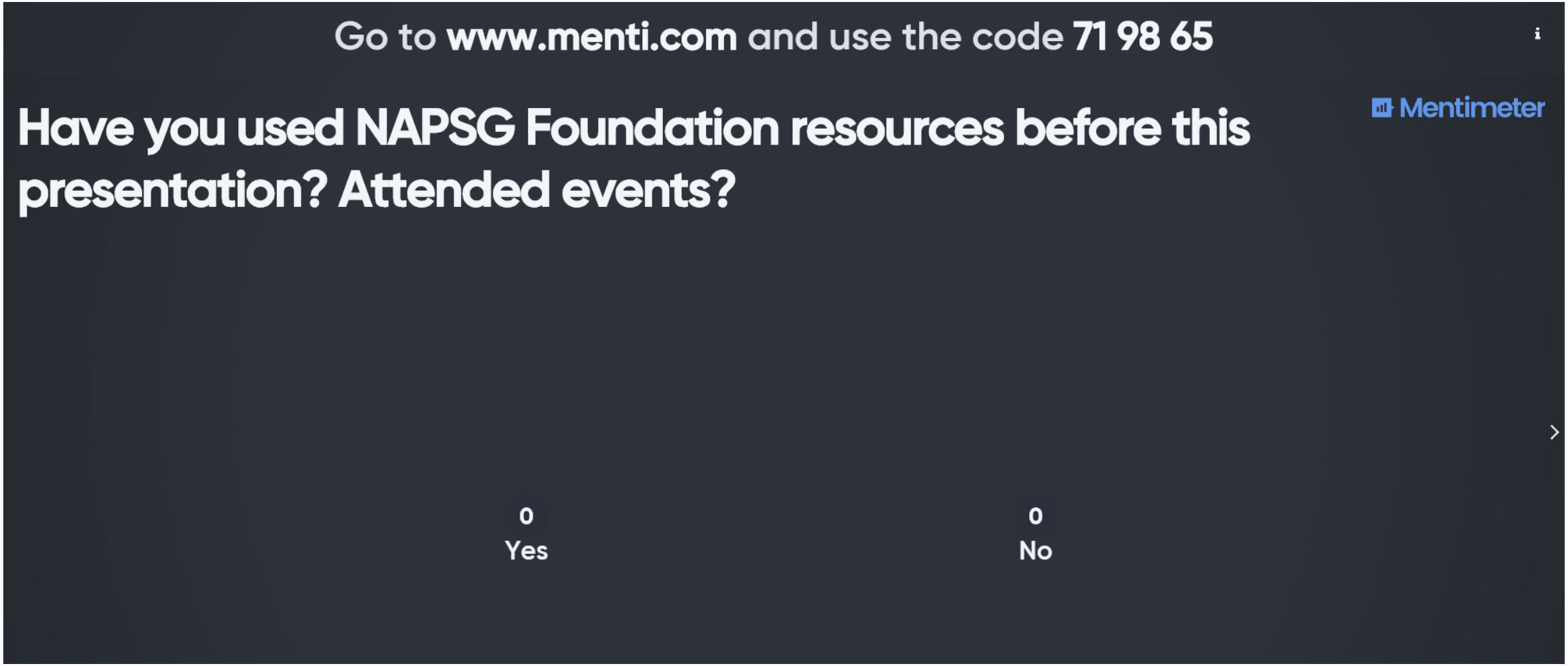
Building capacity in using innovative technology

Fostering regional collaboration through implementation

Defining and promulgating consistent best practices



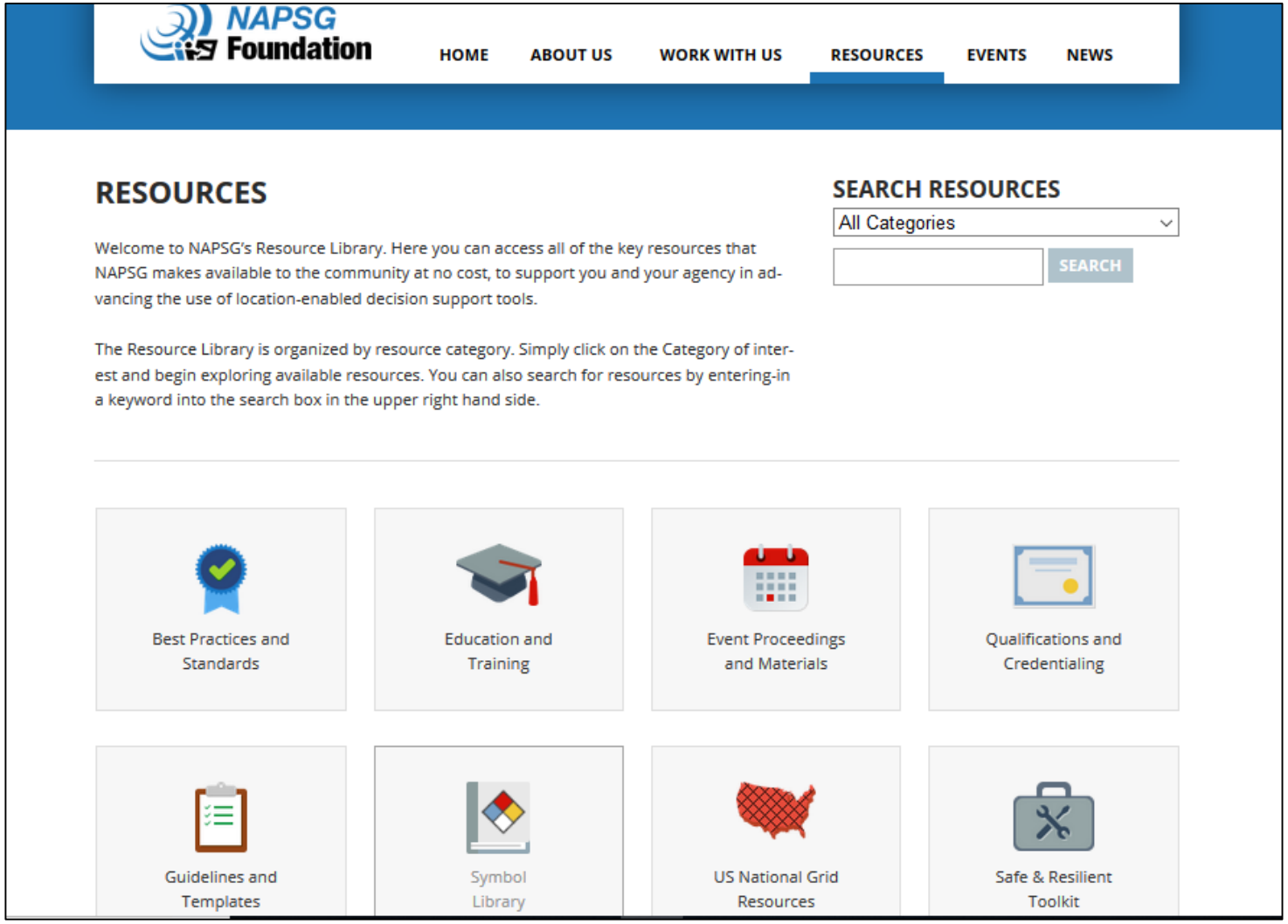
Quick Poll


Go to www.menti.com and use the code 71 98 65
Mentimeter
Have you used NAPSG Foundation resources before this presentation? Attended events?
0
Yes
0
No

Resources

What resources are available for you to use?

Resource Library



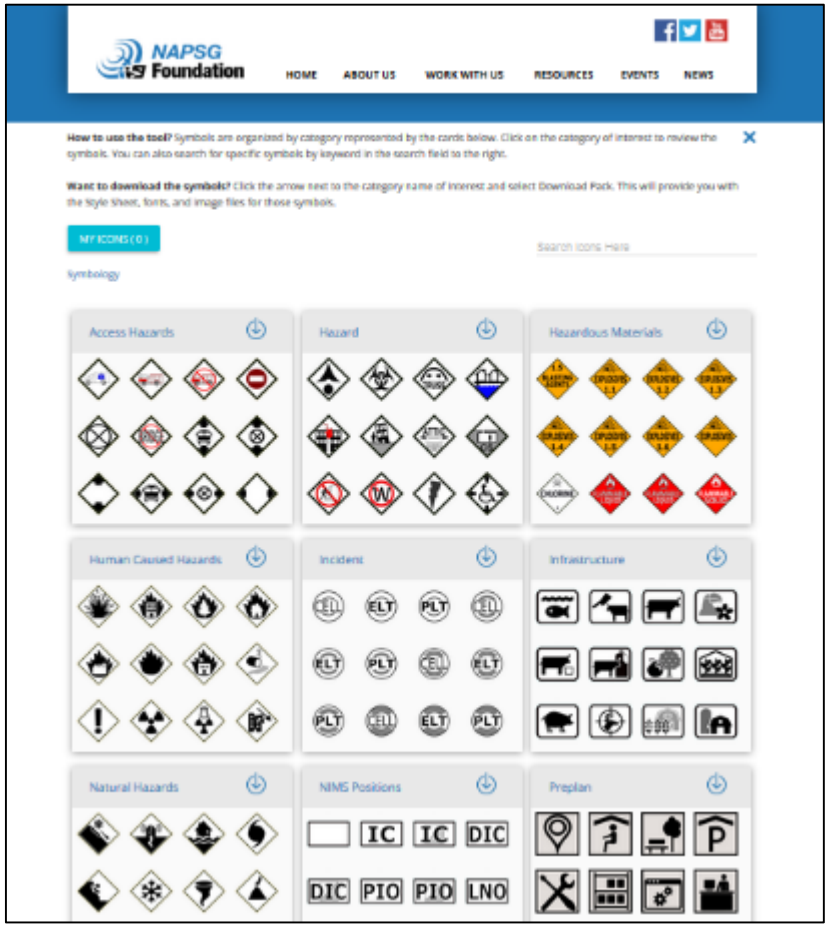
NAPSG Foundation

Guidelines and Standards

First Responder Core Information Guideline

Resource Management Dashboard Guidance

Standardized Incident Symbology



NAPSG Foundation

Demonstration – NAPSG Symbology in ArcGIS Online Maps

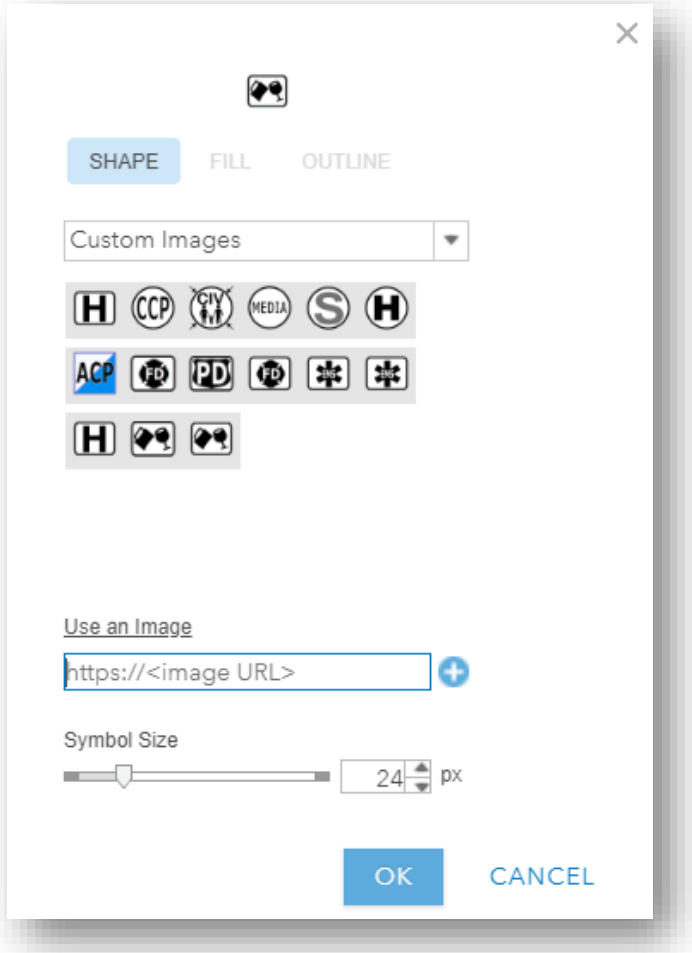
Step 1 – Find the symbol

Example

Step 2 – Copy the web address for the graphic*

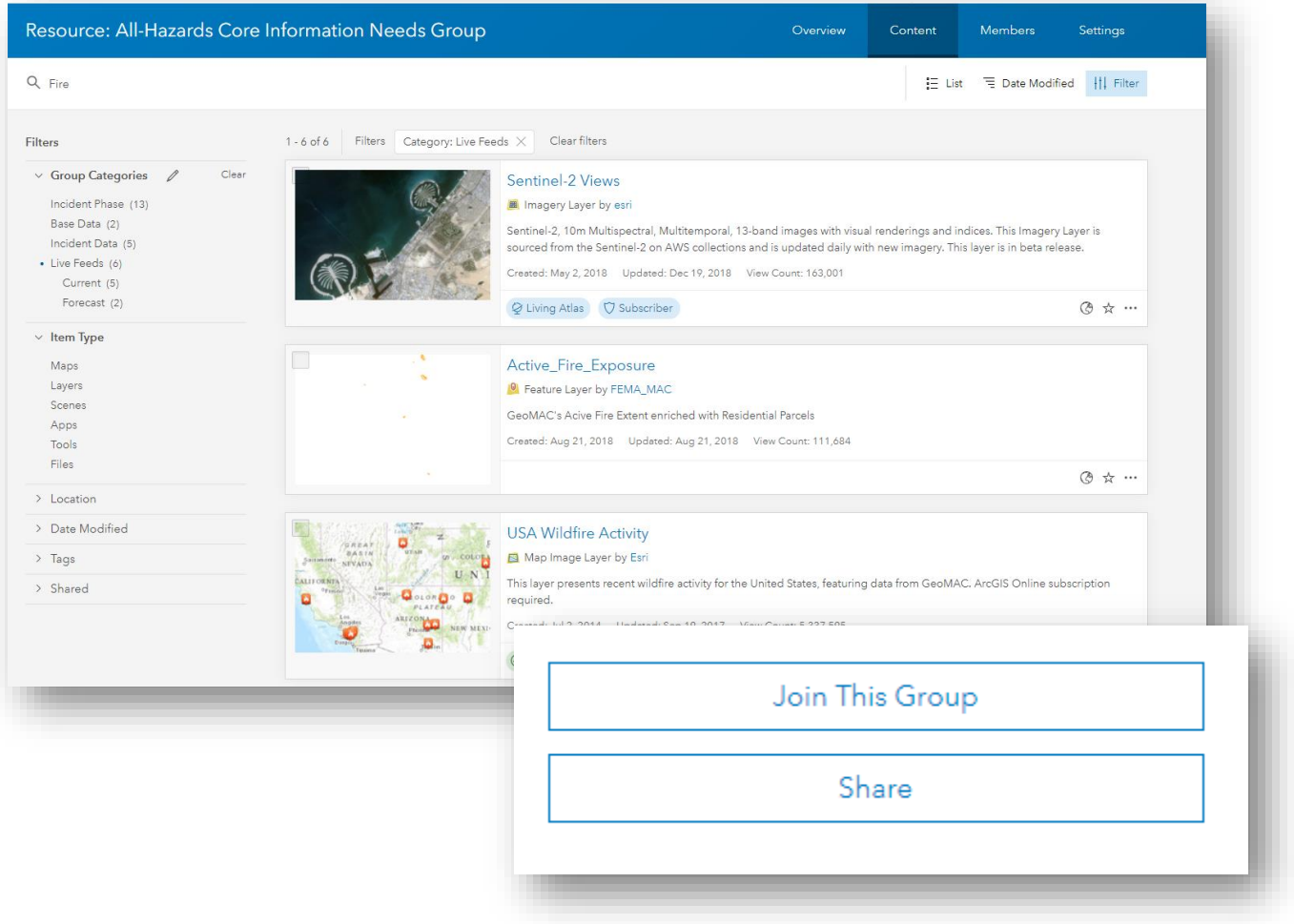
Example

Step 3 – Paste into the ArcGIS Online Style Tool under “Custom Images”

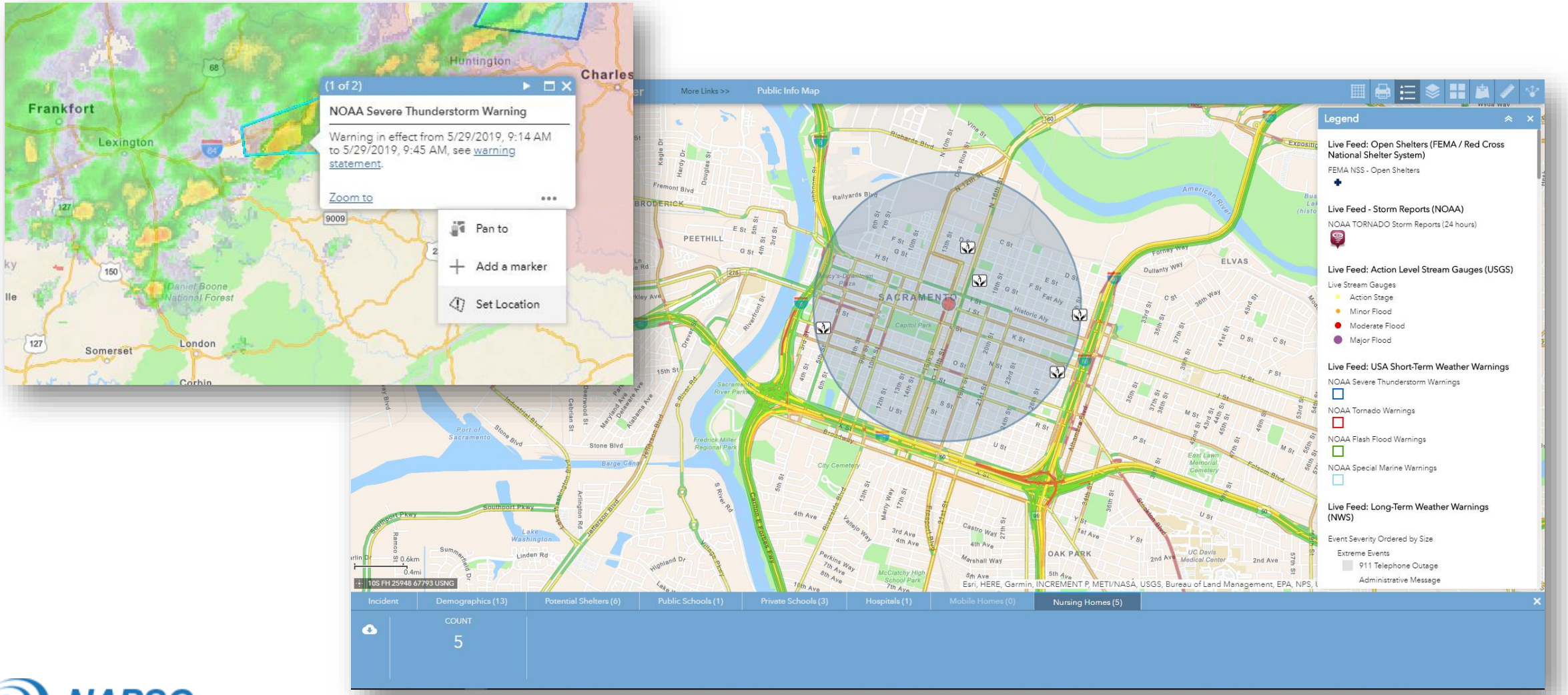


Demonstration –Core Information Needs Group

- Public Group
- Catalog for Core Information
- Link: https://arcg.is/iS8am

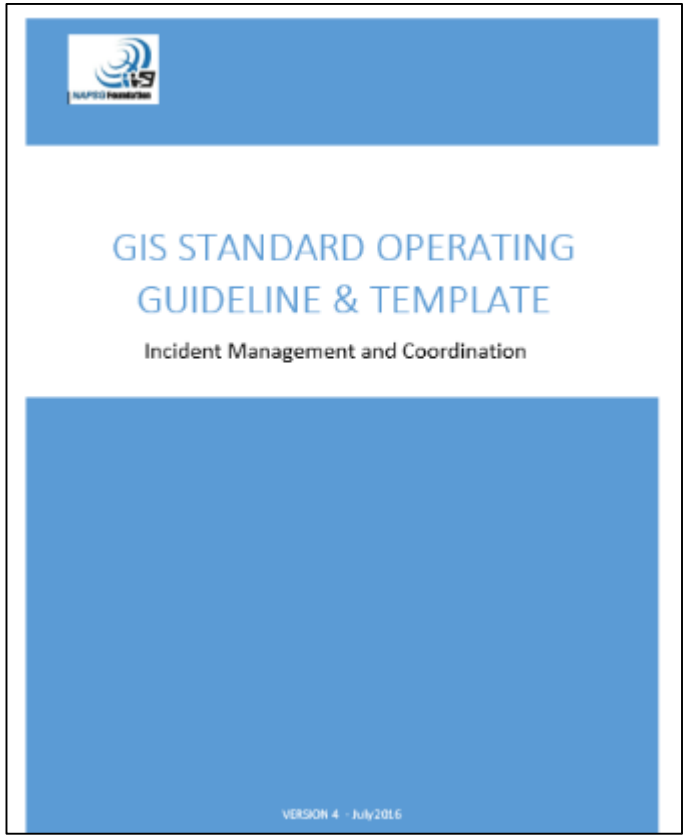


Demonstration – NAPSG Situational Awareness Viewer



Templates

GIS SOP Templates



Information Collection Plan Template

In your email to the Situation Unit, please reference the Essential Element of Information number to which you are responding.

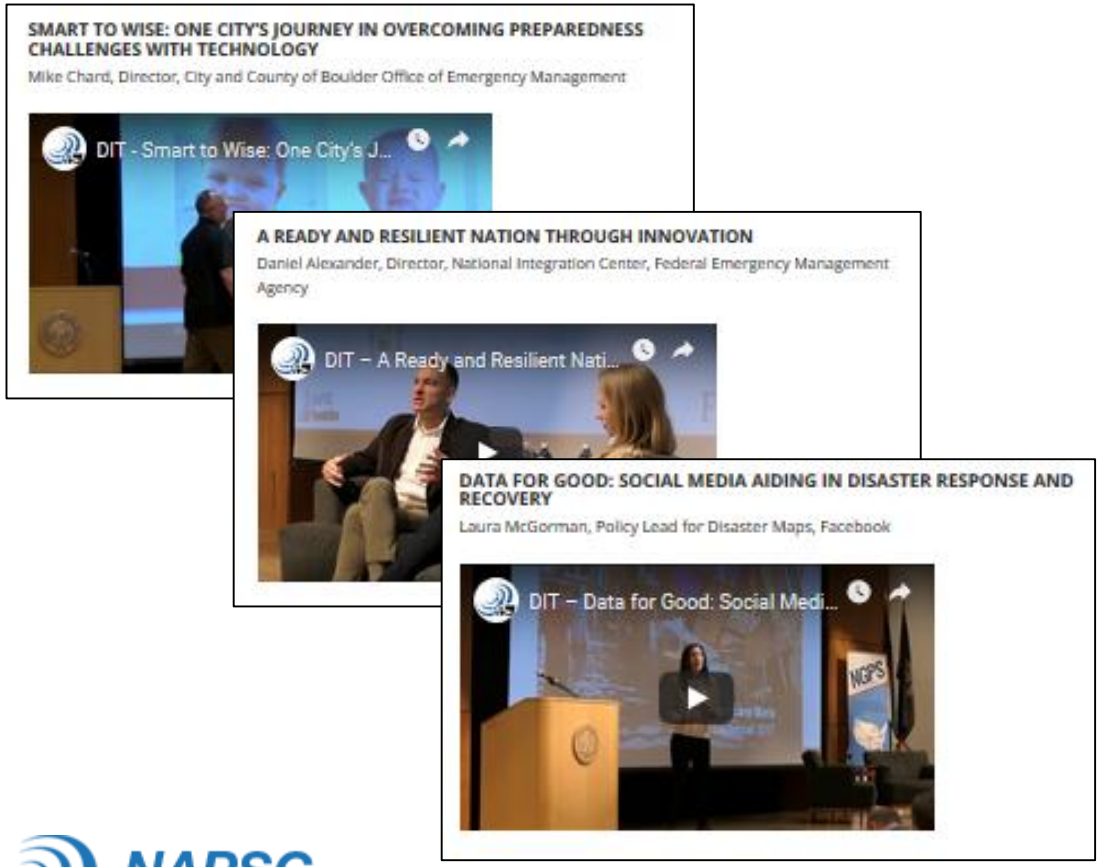
ESSENTIAL ELEMENTS OF INFORMATION (EEIs)

Organization	EEI#	EEI	Specific Information Required	Submission Instructions	Proposed Methodology	Suspense	Proposed Source(s)	Responsible Element	Lifeline/ Operational / Threat	Finished Product	INFO
All	1	Personnel Communications Information	Name, Phone Number, Email, and Position/Title of all Leadership (ESF Leads, Section Chiefs, Branch Directors, Division/Group Supervisors, and Unit Leaders	Email to the RESL	List and/or Table of detailed information	Beginning of O-Period	Sections/ESFs /Areas	All Sections/ESFs/OFAs/ Areas/Command Staff RESL	Operational	205a 207	
All	2	Federal Footprint	supporting the incident Number, Types, and Locations of Teams deployed to the incident (DMAT, USAR, 249th Prime Power, MERS, EPA/USCG Strike Teams,	Email to the RESL	List and/or Table of detailed information	Beginning of O-Period	Operations/ESFs/Areas	ESFs/OFAs RESL	Operational	Resource Tracker Federal Force Laydown	
All	3	Field Operations	Work Assignments/Tasks for Field Personnel	Input ICS-215 within WebEOC IAP Builder Tactics View	WebEOC Form	Every Operational Period	Operations/ESFs/Areas	All Operations/ESFs/OFAs/Command Staff RESL	Operational	204s	
Command Staff	4	Historic or Natural Resources affected	Types and locations of historic or natural resources affected Are there any major issues? EHP Obligated vs Program Obligated	Email to the [SITL/Planning Inbox]	Table	Daily 1500	State EOC EHP Advisor	EHP	Operational	SITREP EXSUM GIS Products	
Command Staff	5	External Affairs	What messaging is being shared by the Joint Information Center? Are there any Congressional Meetings/Intergovernmental Meetings and Purpose or Inquiries? What Planning and Products have been produced? Any Emerging/Hot Issues? Are there any upcoming Interviews/Media Visits/Events/Other Issues of note	Email to the [SITL/Planning Inbox]	Daily Communication Summary (if IA is declared) Report	Daily 1500	State EOC ESF #15	ESF #15	Operational	SITREP EXSUM	

Education and Training

Leaders & Decision Makers

Disaster Innovation Talks



GIS Professionals

Suite of Self-Paced Hands-On Tutorials

Basic GIS Skills for Public Safety Using ArcGIS Online	Training Tutorial
Geocode and Symbolize Data in ArcGIS Online	Training Tutorial 1 Sample Dataset 1 Sample Dataset 2
Use Basic Routing Features in ArcGIS Online	Training Tutorial 2 Sample Dataset 3
Analyze Public Safety Data in ArcGIS Online	Training Tutorial 3 Sample Dataset 4
Presenting GIS Analysis for Public Safety	Training Tutorial 4 **Uses sample dataset 4*

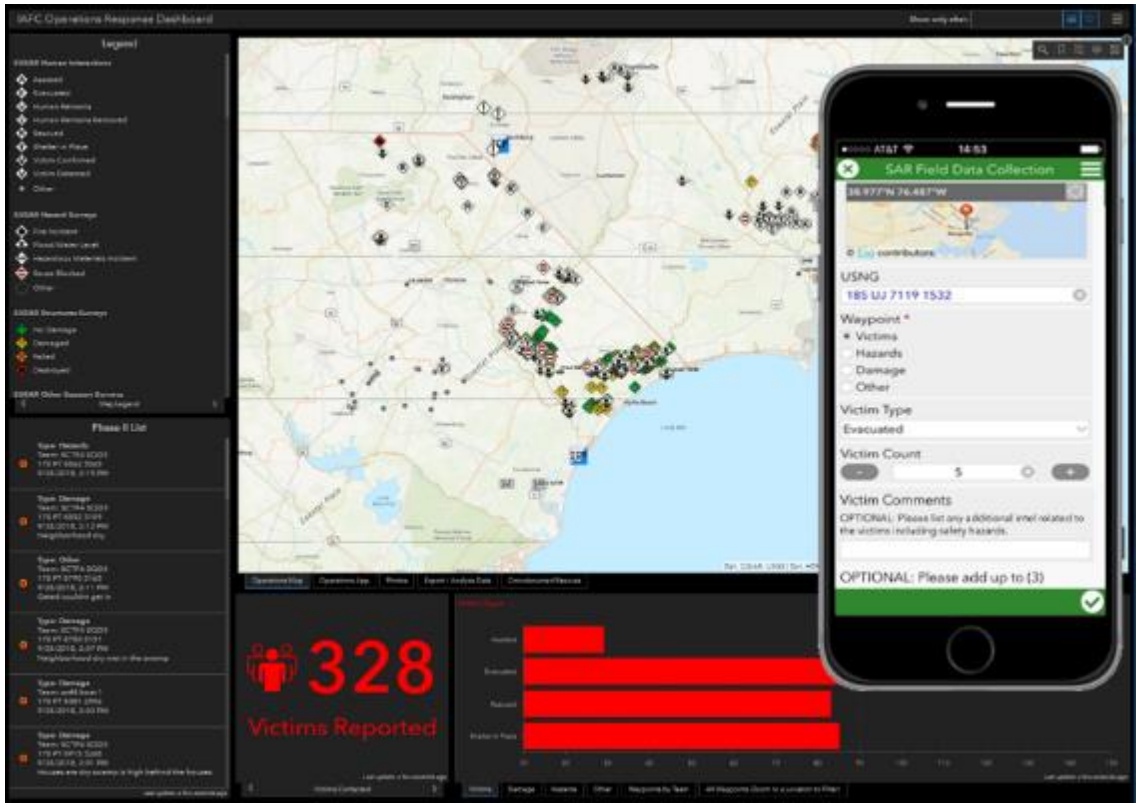
Intermediate Skills Using ArcGIS Pro and AGOL	Training Tutorial
ArcGIS Pro and ArcGIS Online Training for Public Safety	Tutorial and Map Package
Developing Geo-Enabled Plans	Self-Paced Tutorial
Deploying a Regional Situational Awareness Viewer	Self-Paced Tutorial

NAPSG Foundation

2018 Disaster Response Support

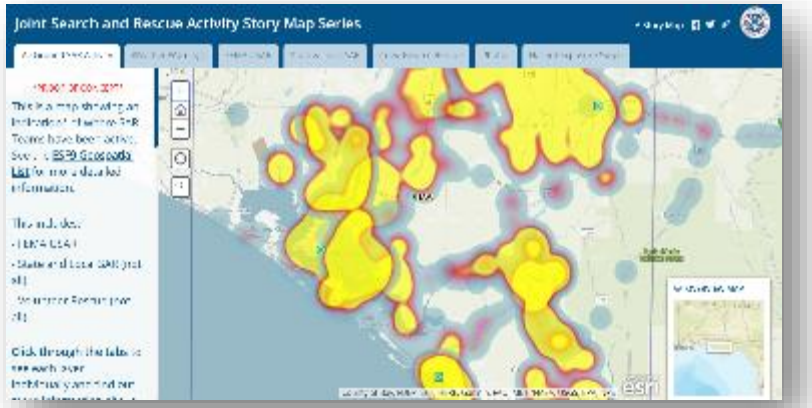
- In partnership with the IAFC, deployed the suite of SAR decision support and analysis toolkit
  - **Hurricane Michael**
    - 126 SAR Teams from 11 states
    - 51,532 Field Forms Submitted by 400+ Users
  - **Hurricane Florence**
    - 60 SAR Teams from 11 States
    - 2,600 Field Forms Submitted by 340+ Users

https://arcg.is/1zaby4



Additional Tools and Resources

Joint SAR Activity Application - Prototype



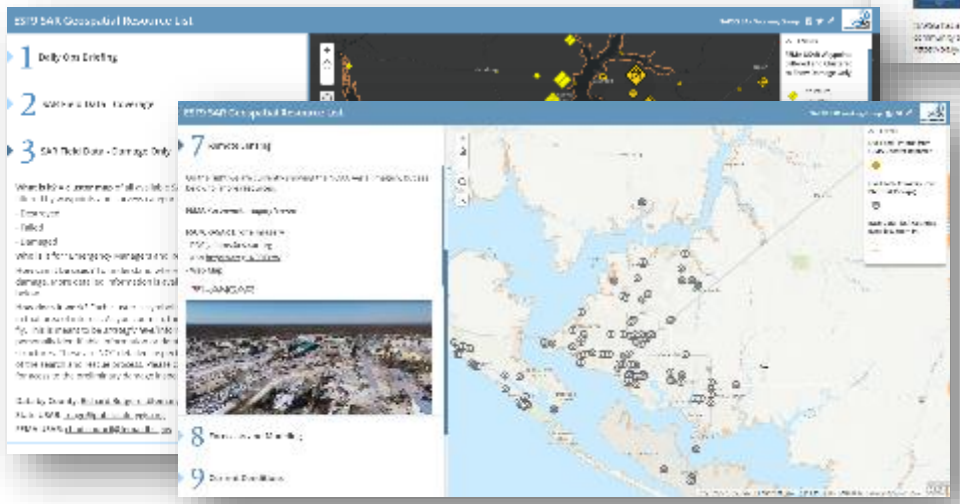
https://arcg.is/1Wi1GH

Hurricane Resources

Crowdsourced Photo Map

http://bit.ly/2018HurricanePhotos

ESF9 – Geospatial Resource Call/List

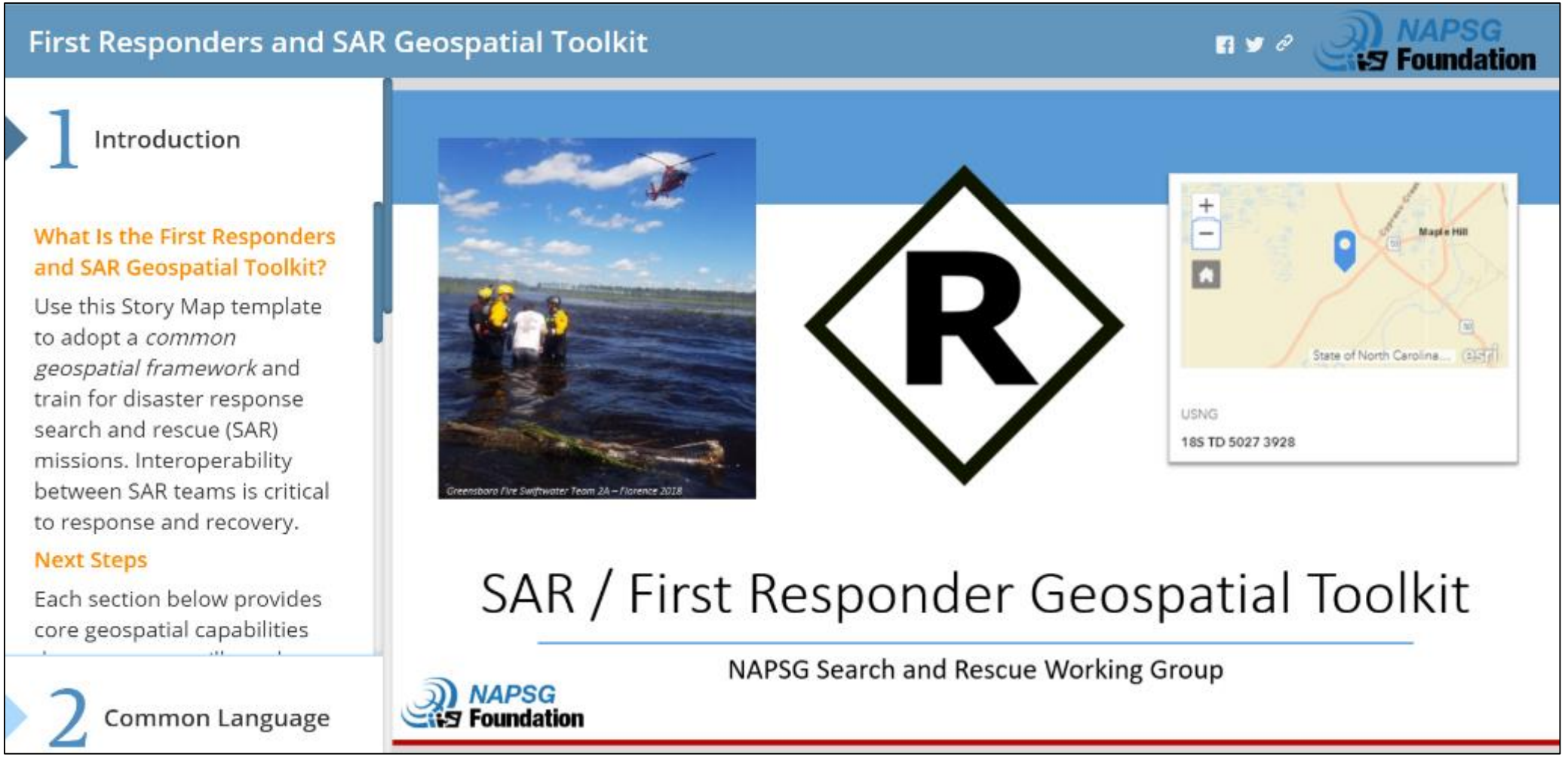


NAPSG Foundation

Behind the Scenes: 2018 Hurricane Crowdsourced Story Map

NAPSG Foundation

First Responders and SAR Geospatial Toolkit

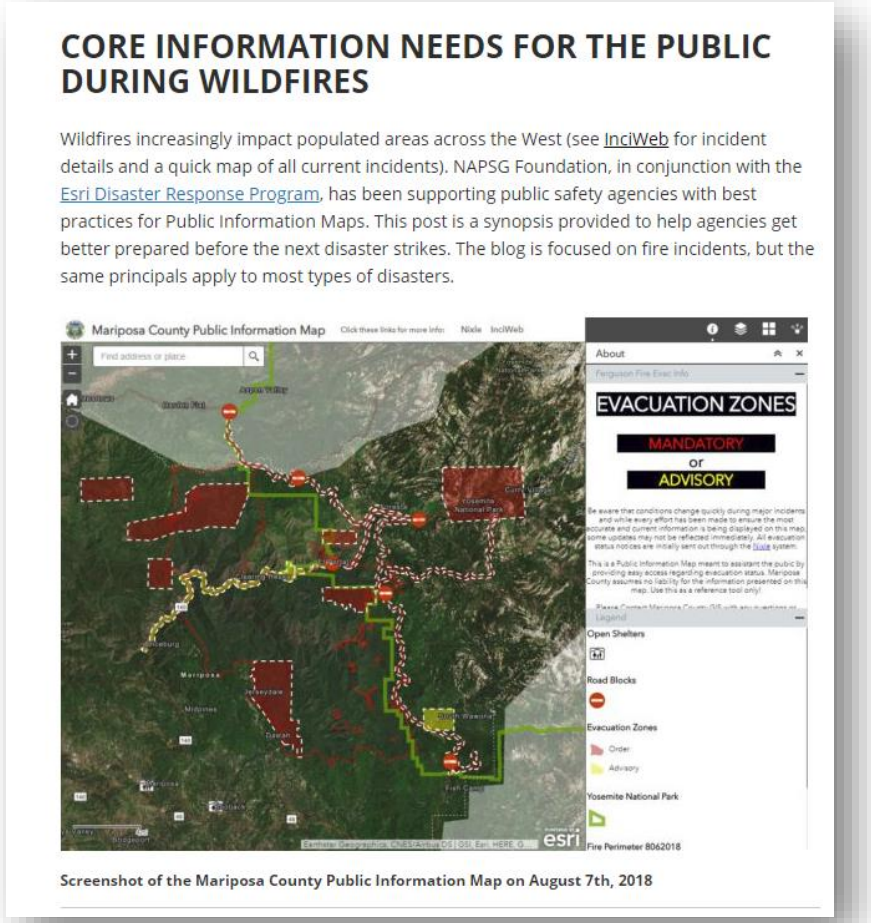


NAPSG Foundation

Core Information Needs for the Public

- Evacuation Notices
- Open Shelters
- Road Closures
- *Hazards?*

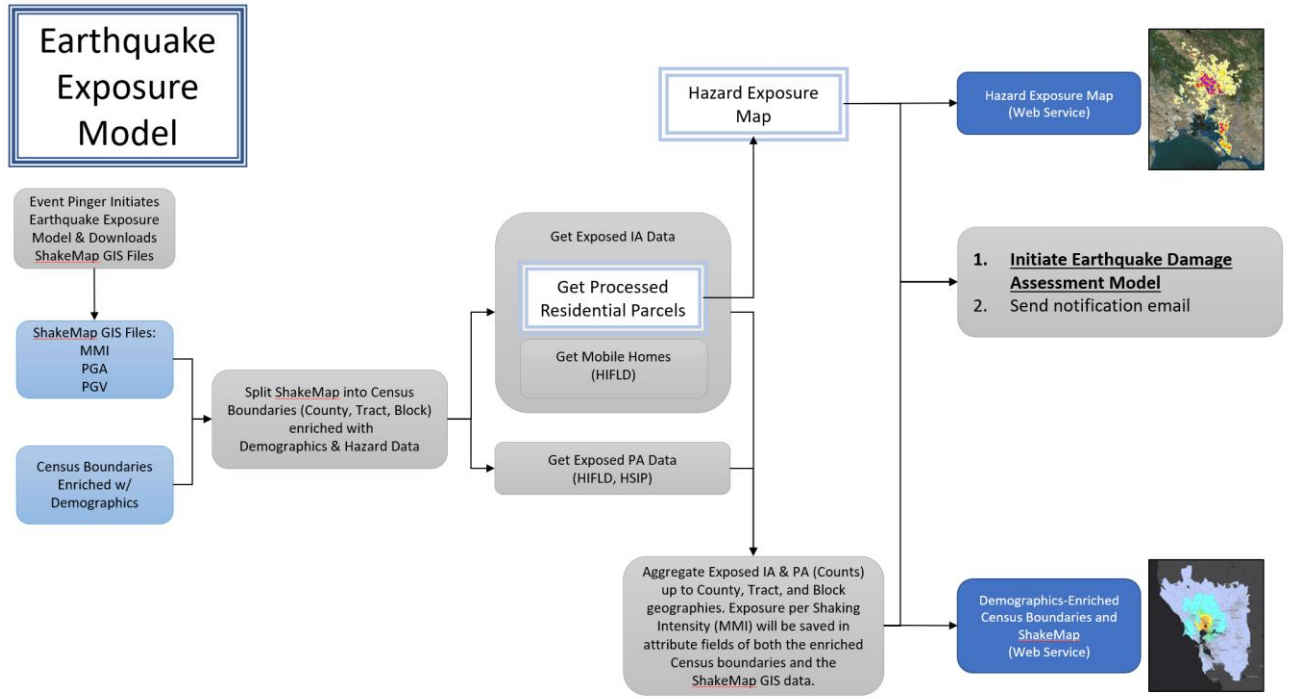
Everything else may be “extra” information that overwhelms the audience.



FEMA GIS Resources

fema.maps.arcgis.com

www.geoplatform.gov

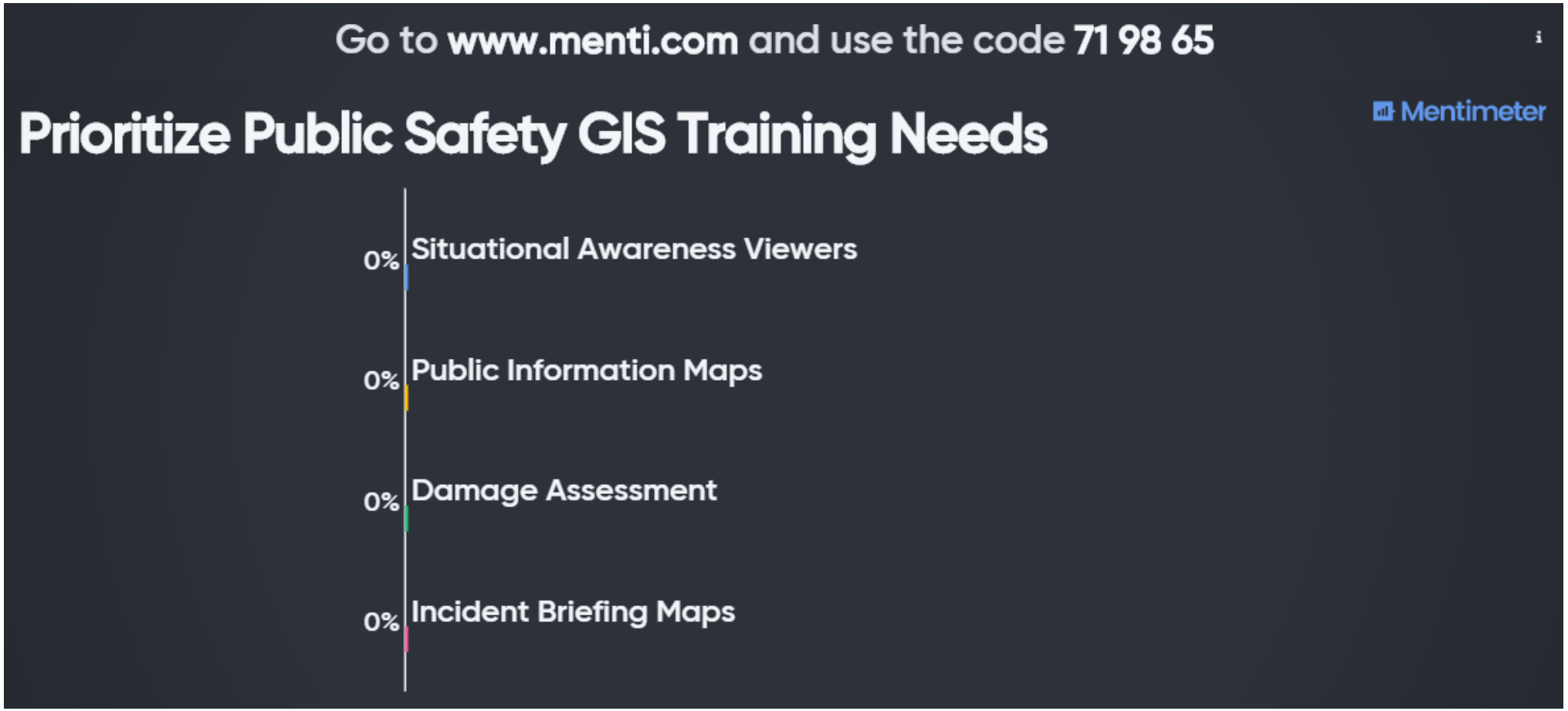


Did you know FEMA has an automated process for Earthquake Exposure? Wildfire?

Current Projects

- DHS S&T Mutual Aid Technology
- DHS S&T Technology Innovation for Preparedness and Operations
- DHS HIFLD Symbology
- NIST i-Axis: Indoor Mapping, Tracking, and Navigation
- FEMA GIS Training
- FEMA Preparedness Toolkit
- Facebook Disaster Maps for Lifelines

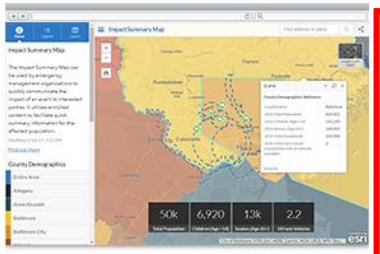
Quick Poll – if you had $100 to spend…



Esri Solutions

Emergency Management

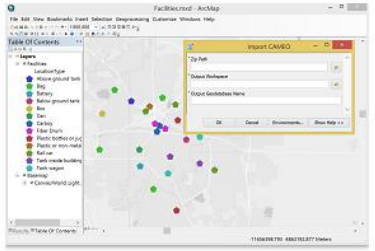
Response: Address the short-term impacts of an incident; maintain situational awareness; conduct initial damage assessments; and inform key stakeholders and the general public.



Impact Summary Map
Emergency Management

Damage Assessment
Emergency Management

Emergency Management Maps
Emergency Management



CAMEO Tools
Emergency Management

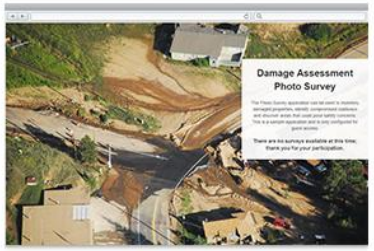
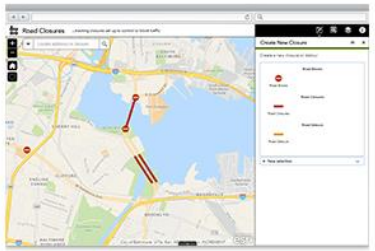


Photo Survey
Emergency Management



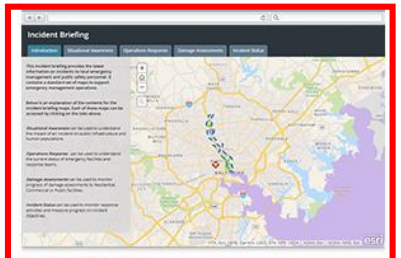
Road Closures
Emergency Management

Evacuation Zones
Emergency Management

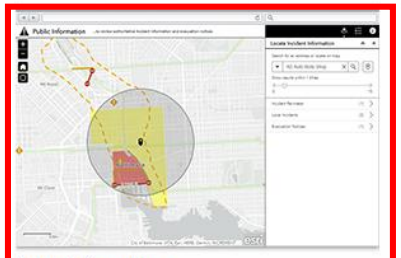
Situational Awareness Viewer
Emergency Management

Operations Response
Emergency Management

Logistics Planning
Emergency Management

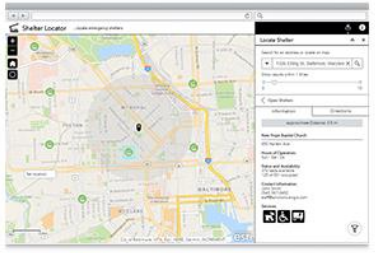


Incident Briefing
Emergency Management

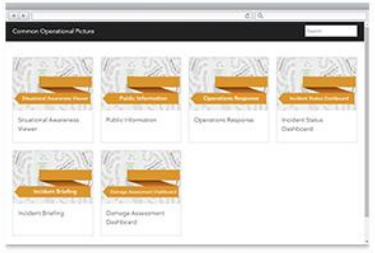


Public Information
Emergency Management

Incident Status Dashboard
Emergency Management



Shelter Locator
Emergency Management



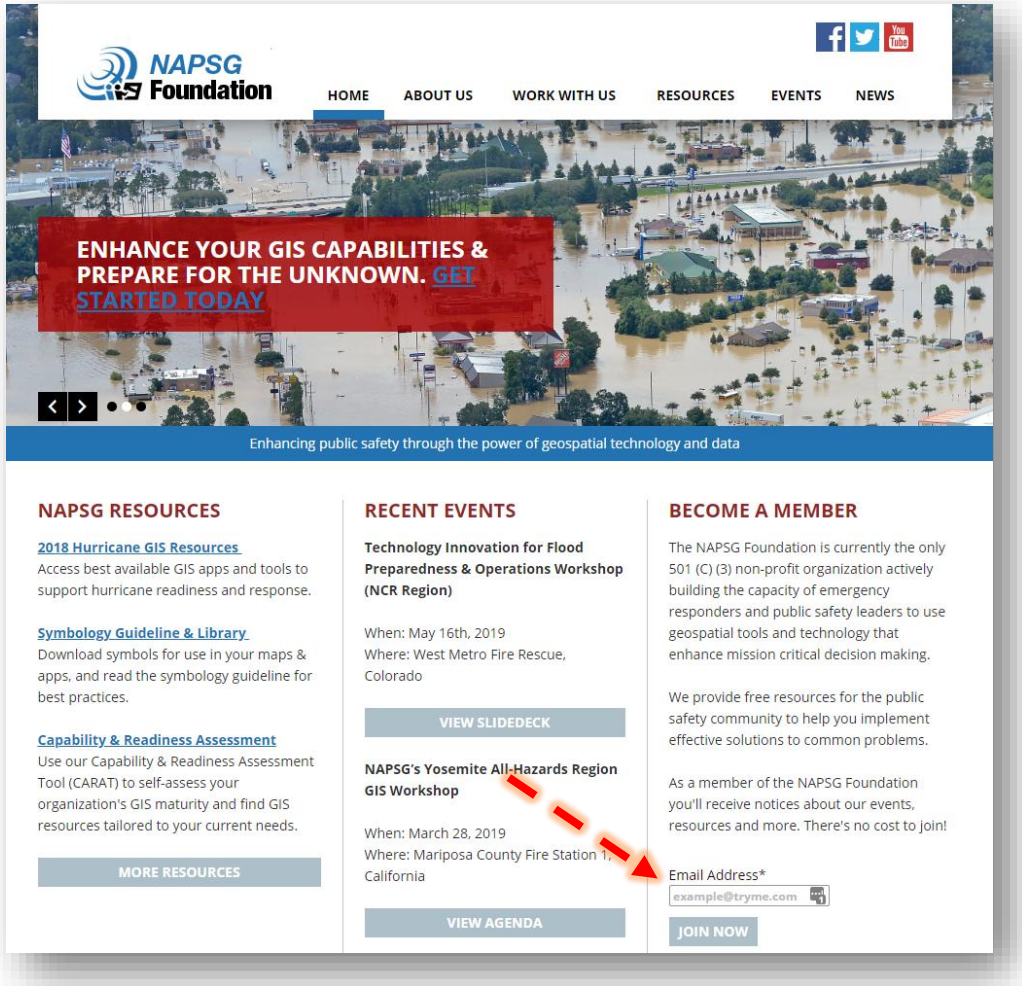
Common Operational Picture
Emergency Management

Get Involved!

Become A Member

1. Go to www.napsgfoundation.org
2. Provide your email address
3. Receive newsletter and updates about events

NO COST!



Virtual Trainings

- Share best practices
- Recorded

NO COST!

EVENTS

UPCOMING EVENTS

Date	Location	Event	Registration
June 26, 2019	Webinar	Geo-Enable Search & Rescue in Disasters	Opening soon!
July 31, 2019	Webinar	Aligning and Standardizing Response Map Products to Community Lifelines	Opening soon!
August 29, 2019	Webinar	Get Smart on Information Sharing Standards for Crisis Management	Opening soon!

https://www.napsgfoundation.org/events/

Working Groups

Symbology Working Group

Yosemite All-Hazards Region (YAHR)

Search and Rescue Working Group

Annual Summit

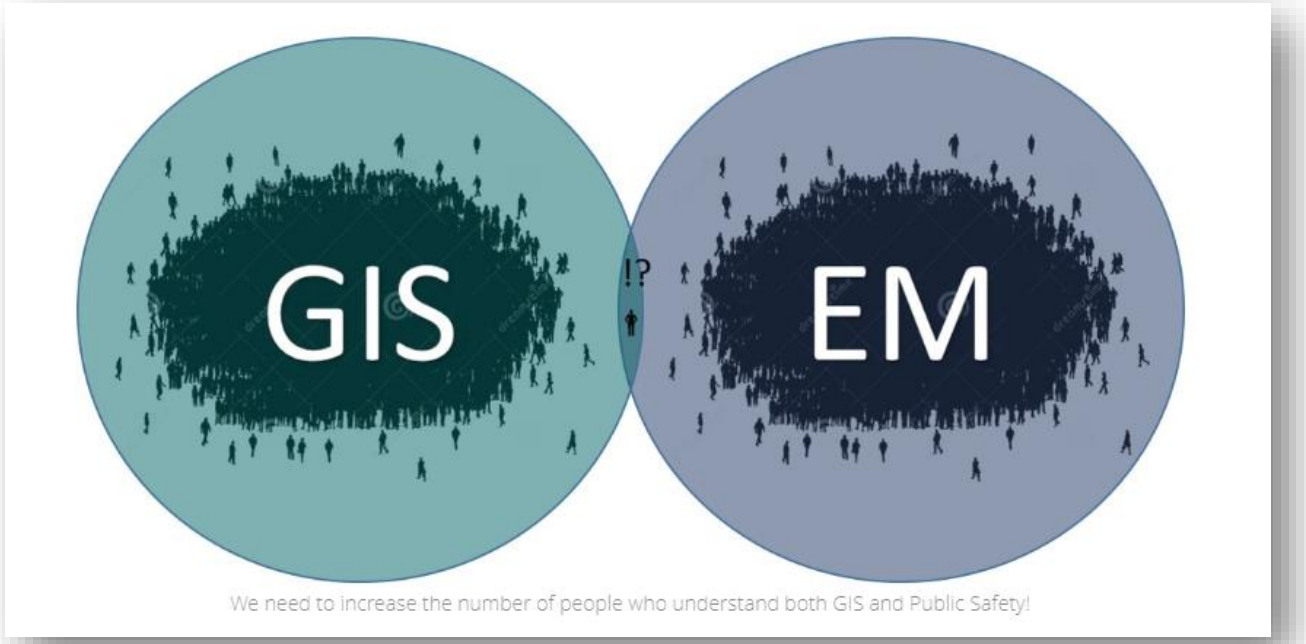
2019 Innovation Summit for Preparedness & Resilience (InSPiRE)

- November 12-14, 2019
- Texas A&M in Galveston, TX
- Registration Opening Soon!

NAPSG Foundation

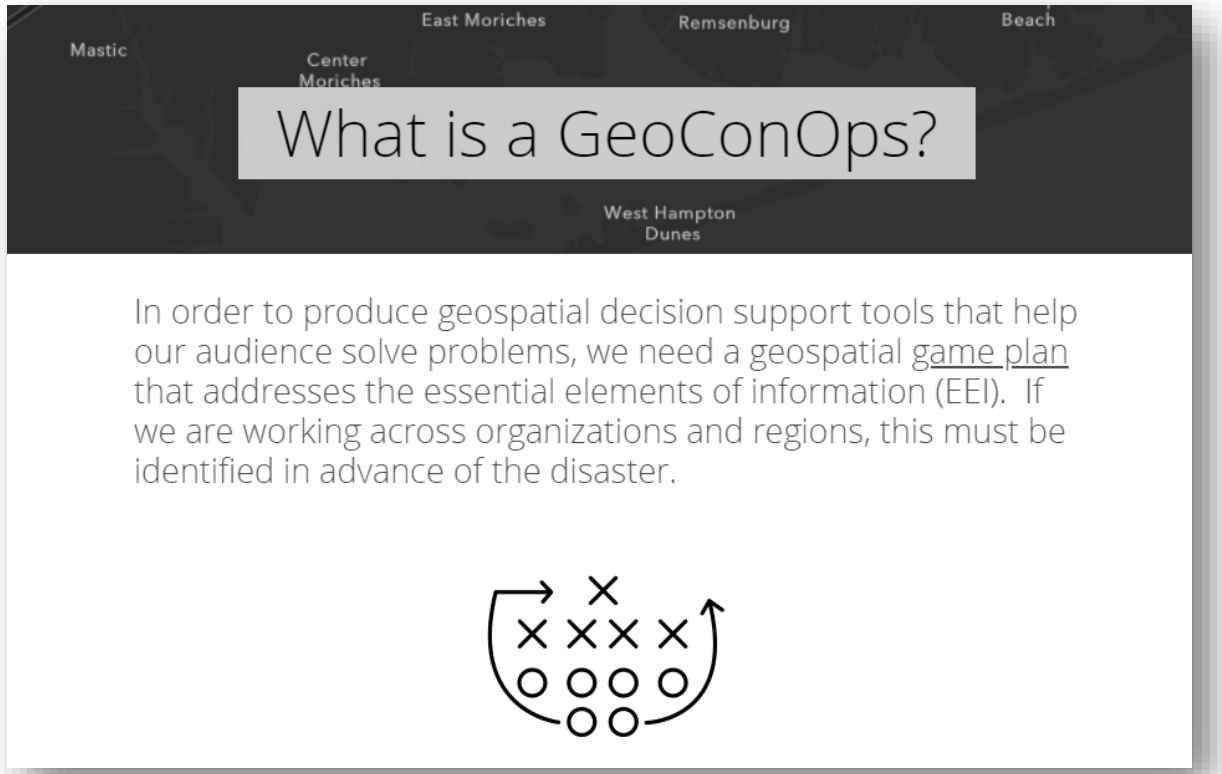
Closing Thoughts

- Start within your organization
- Connect with partners
- Exercise Exercise Exercise



What is a GeoConOps?

- Story Map https://arcg.is/0njXi



Thank you!

bit.ly/20190529CGIA

Paul Doherty * pdoherty@publicsafetygis.org

@pjdohertygis