

Joint HIFLD/GeoPlatform Session

Use Case: SAR Support in 2018 Hurricane Season

November 1, 2018

National Alliance for Public Safety GIS (NAPSG) Foundation

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

About NAPSG Foundation

- National Alliance for Public Safety GIS (NAPSG) Foundation
 - 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
- Our vision is to provide the resources and support necessary to equip emergency responders and leaders with the knowledge and skills to apply technology and data to change the outcome for survivors.



Information Needs:

- From Readiness through Response and Recovery - Field Teams, Operators and, Decision Makers need the right actionable information at the right time



Need: First Responders

- First boots on the ground in the early stages of a disaster
- Dealing with life safety calls for service
- Protecting people and the built environment



Need: Decision Makers

- Have limited visibility to the extent and severity of an incident in the early stages
- Need forecasted data and best available modeled data for safety and operations
- Need to track and anticipate resource needs - and account for their first responders



Need: Field Teams

Search and Rescue:

- Teams are deployed as local SAR teams, state SAR and SUSAR, National US&R, USCG, Volunteer Rescues,...
- Use different data models and systems for capturing information in the field.
- Rarely have visibility of other teams (both current or where they have been)
- Capabilities vary widely from real-time to days later
- Can be deployed for any number of duties, can provide immediate help to those impacted and provide unparalleled intel to operators and decision-makers.



Overview of SAR Tools

NAPSG formed a **SAR Field Data Collection Working Group**, which worked to define a **standard schema** and **priority information collection requirements**.

In partnership with the International Association of Fire Chiefs (IAFC), a suite of SAR decision support and analysis tools were created, forming a standardized toolkit consisting of the following:

Mobile Application

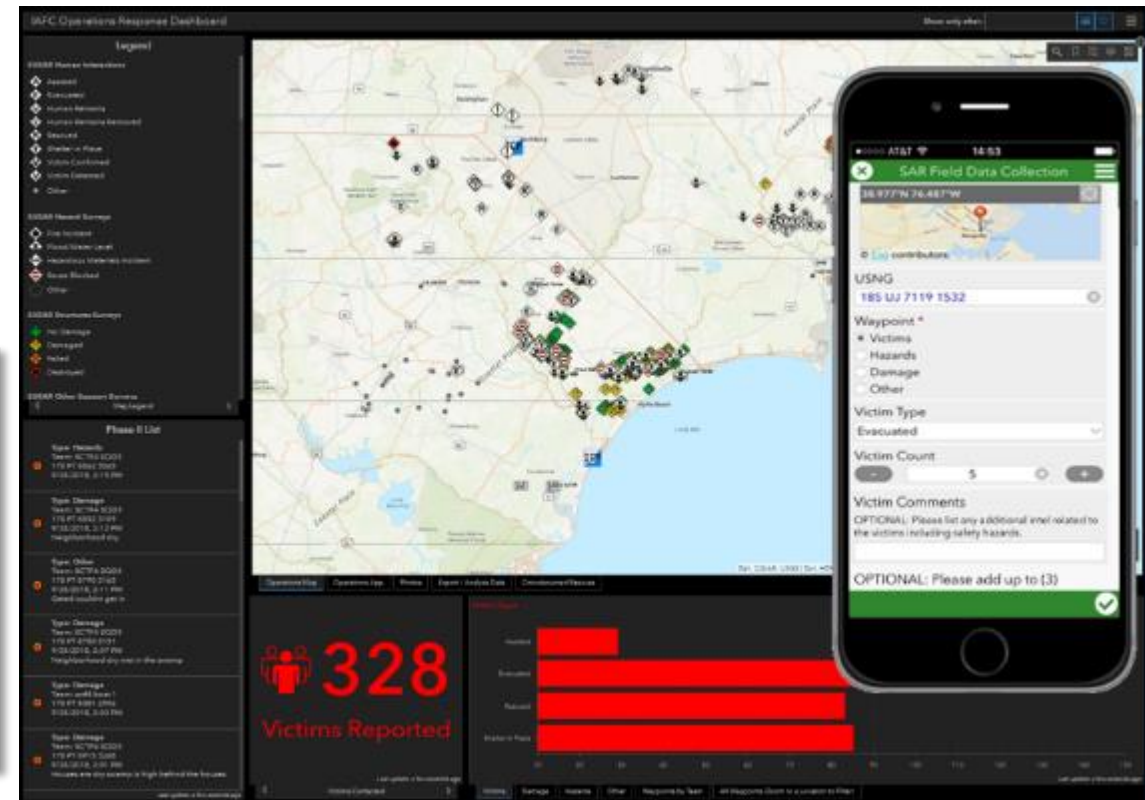
- Standardized mobile form (Survey123), based on schema developed by the SAR Field Data Collection Working Group
- Ability to capture photos
- See where other teams have been

Command Dashboard

- Consumed, analyzed, and visualized data collected in the field in real-time
- View base data (Infrastructure, base maps)
- View Live data (Traffic, Weather, Flood model predictions)

2018 Hurricane Deployment

- 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

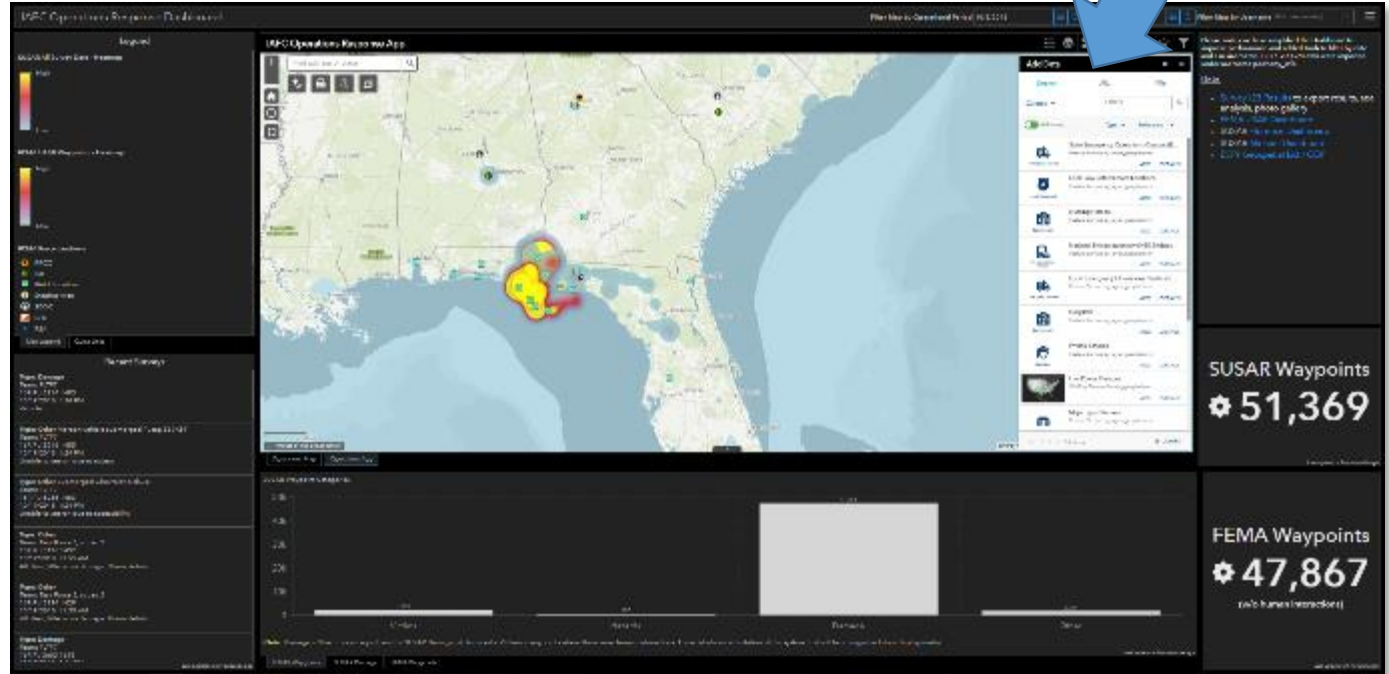
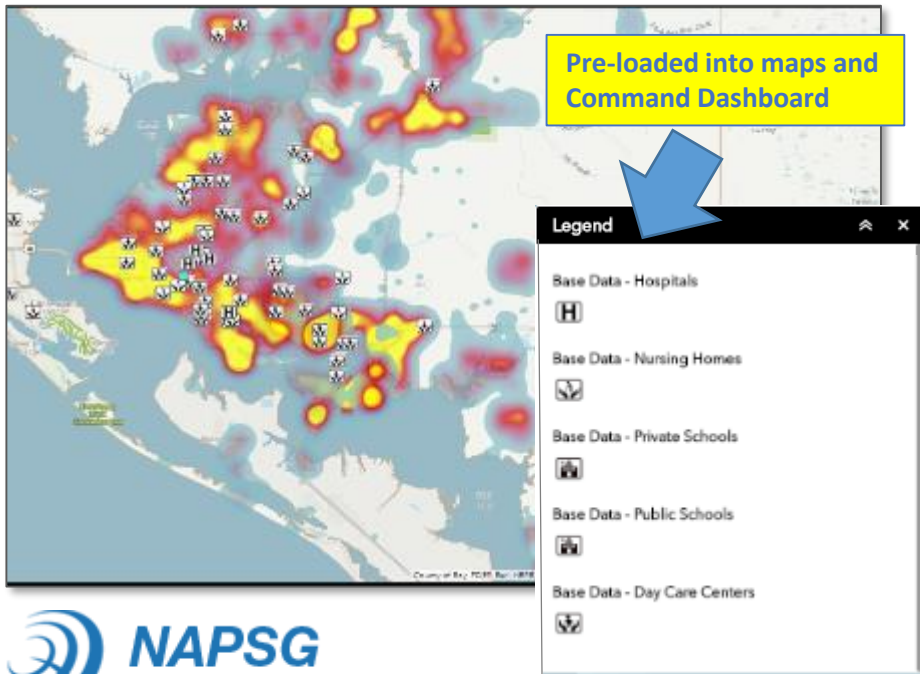


HIFLD Data for SAR in 2018 Hurricanes

HIFLD data was used in 2018 hurricane response, providing seamless base data for:

- Search & Rescue Teams deploying across the region
- Transitioning tools for implementation across multiple events (Florence and Michael)
- Use of a common and consistent information for decision making

Curated Data includes links to HIFLD to add additional content to Dashboard as needed

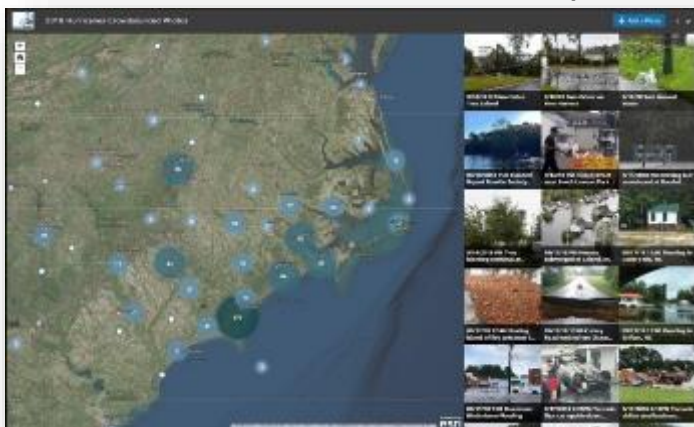


Live Demo

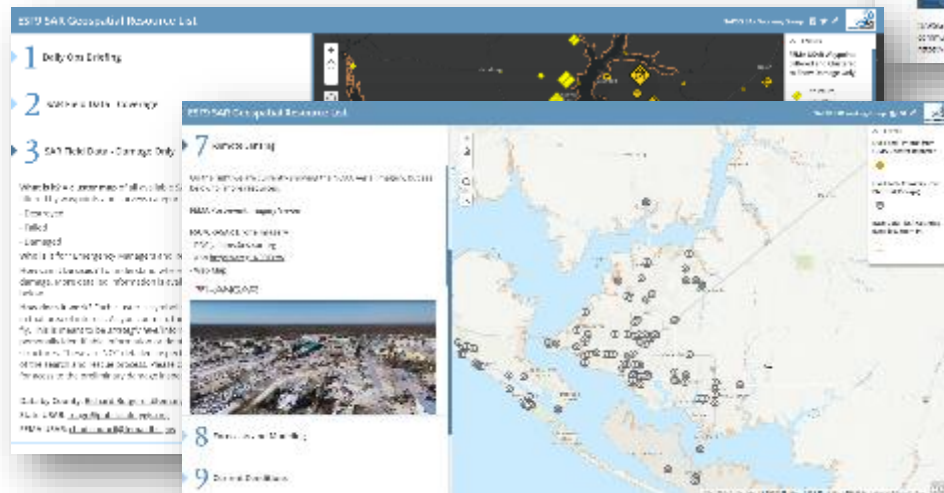


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Foundation

Crowdsourced Photo Map



ESF9 – Geospatial Resource Call/List



A collage of various web resources and social media posts related to hurricane preparedness and response. The collage includes screenshots of websites like NAPS3 Foundation, Florida Hurricane GIS Resource, Hurricane and Advis, Hurricane Awareness, SAR Decision Support Analysis Tools, Search and Rescue Decision Support, Open Data DN National Infrastructure, Identify Local and State Data Sources and Contacts, Core Information Needs ArcGIS Online Group, and American Red Cross Tropical Cyclone Maps, Apps, and Graphics. It also features social media posts from Twitter and Facebook, and a map of the United States showing hurricane tracks.

2018 National Geospatial Preparedness Summit

- December 3-4 * University of Colorado, Boulder
- 220+ participants from local, state, tribal, and Federal agencies
 - Emergency Management, Fire Service, Law Enforcement
- Hands-on training, field simulation, workshops, and a functional exercise
 - Data Preparedness Workshop - *learning about HIFLD data*
 - Hands-On Technical Training - *applying HIFLD data in practical public safety apps*
 - Functional Exercise – *stress test to bring it all together*
- **Registration Open**, waitlist starting Friday, November 2
 - <https://bit.ly/2AEdnj8>

Questions?

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National Geospatial Preparedness Summit: <https://bit.ly/2AEdnj8>

NAPSG Resource Library: <https://www.napsgfoundation.org/all-resources/>