

Connecting Field Operations to EOC Operations

Use Case: SAR Support in 2018 Hurricane Season

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National Alliance for Public Safety GIS (NAPSG) Foundation

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

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

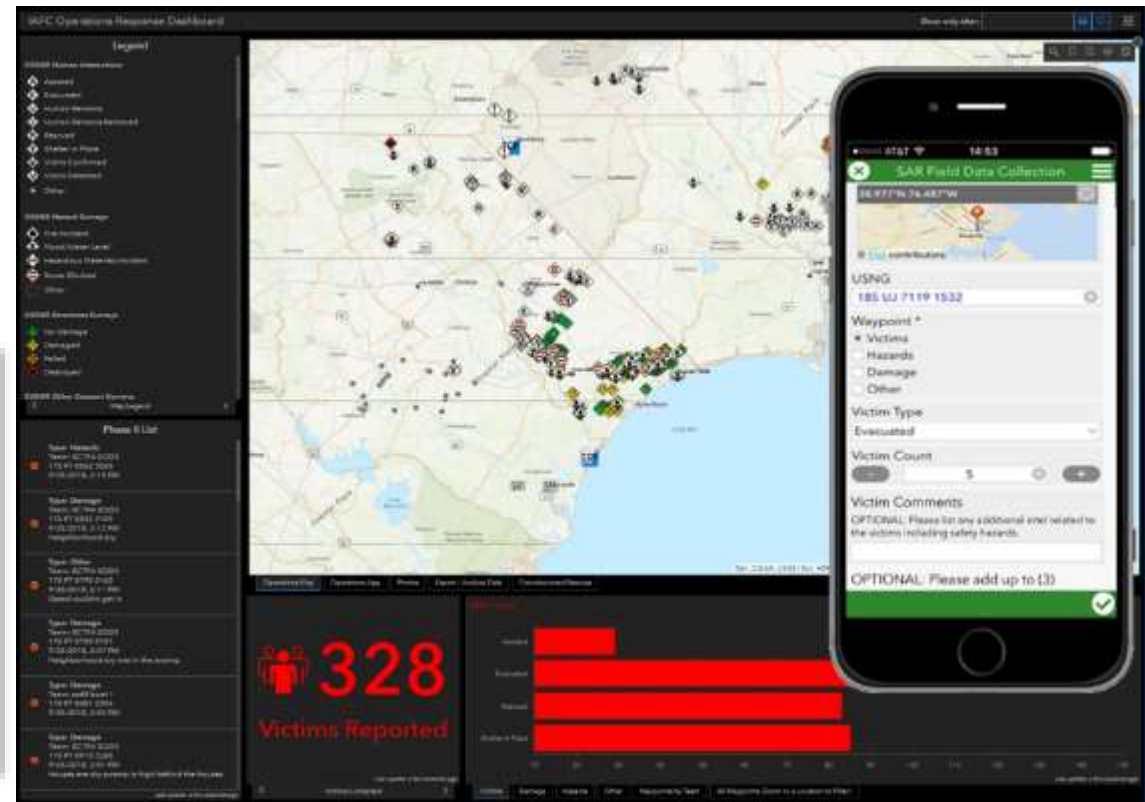
- Consumed, analyzed, and visualized data collected in the field in real-time
- View base data (Infrastructure, base maps)
- View Live data (Traffic, Weather, Flood model predictions)

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



<https://arcg.is/1zaby4>

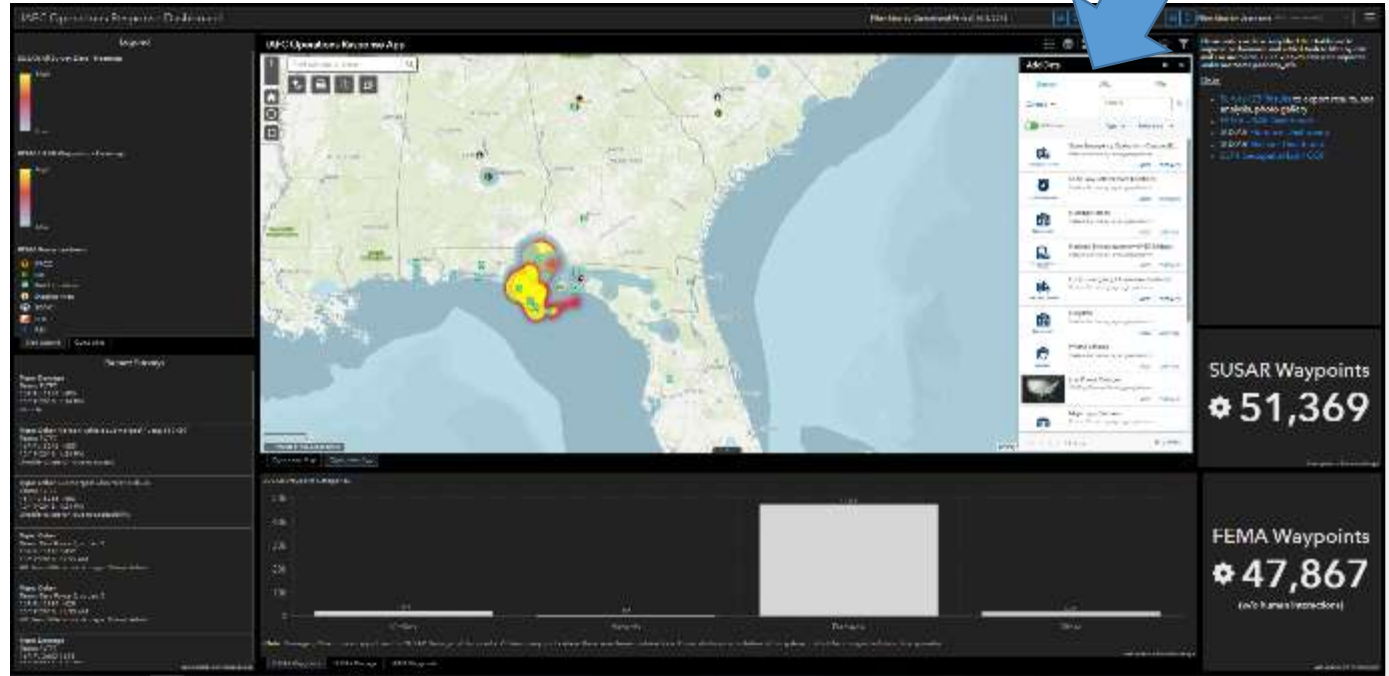
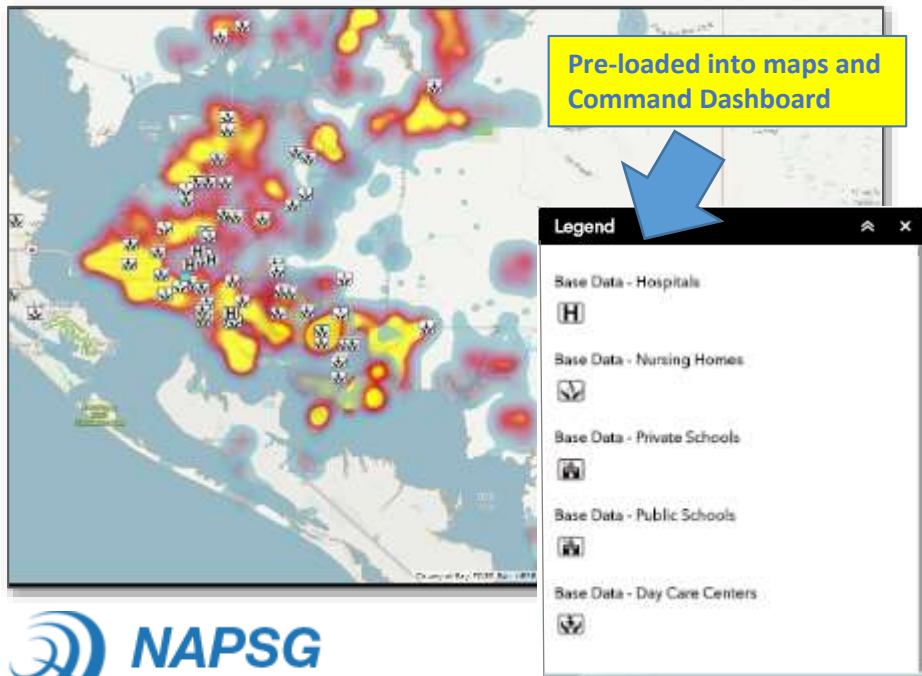


HIFLD Data for SAR in 2018 Hurricanes

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

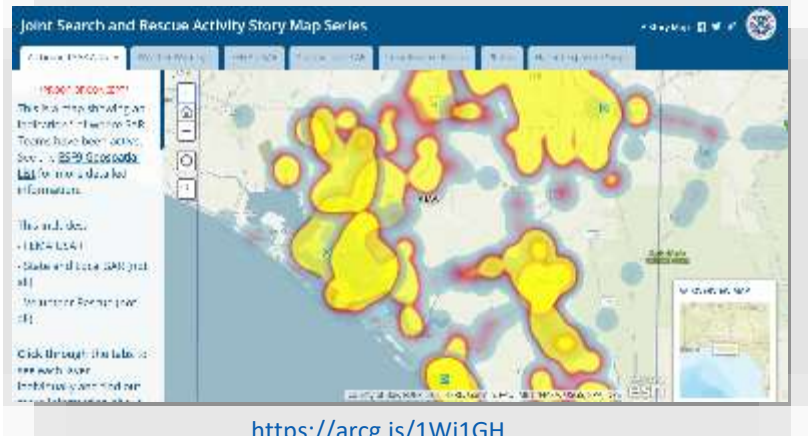
- Search & Rescue Teams deploying across the region
- Transitioning tools for implementation across multiple events (Florence and Michael)
- Use of a common and consistent information for decision making

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



Technology Connecting Field to EOC Operations

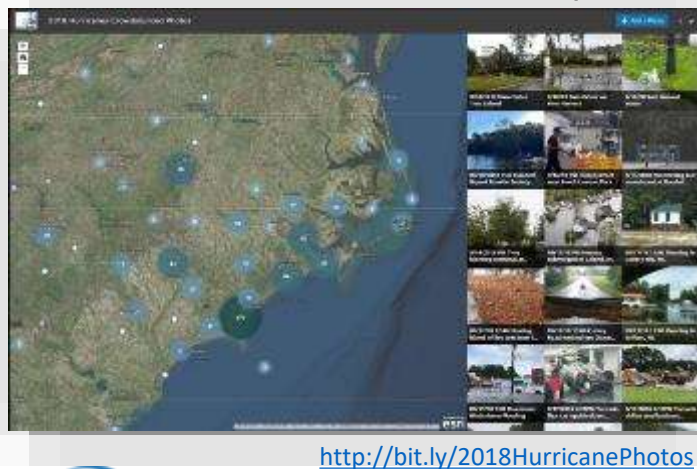
Joint SAR Activity Application - Prototype



Hurricane Resources



Crowdsourced Photo Map



ESF9 – Geospatial Resource

