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
napsgfoundation.org | @napsgfoundation
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.
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)
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
Technology Connecting Field to EOC Operations

Joint SAR Activity Application - Prototype

Crowdsourced Photo Map

ESF9 – Geospatial Resource

Hurricane Resources

https://arcg.is/1Wi1GH