



AGENDA

National Geospatial Preparedness Summit 2018

December 3-5, 2018

University of Colorado 📍 University Memorial Center 📍 1669 Euclid Avenue, Boulder, CO

Day 1 • December 3

7:15 a.m.	Registration & Hosted Breakfast
8:15 a.m.	Welcome and Opening Ceremonies Rand Napoli, Chairman, NAPSG Foundation Honor Guard Presentation of Colors • Boulder County Sheriff's Office
8:45 a.m.	Disaster Innovation Talks • Smart to Wise: One City's Journey in Overcoming Preparedness Challenges with Technology • Mike Chard, Director, City and County of Boulder Emergency Management • Connecting the Human Dimension of Hazards and Disasters • Dr. Lori Peek, Director of the Natural Hazards Center, University of Colorado Boulder

9:45 a.m. Morning Coffee Break

	Leaders & Decision Makers	First Responders & Planners	GIS & Technologists		
10:00 a.m.	<p>Master Class: Creating Change & Impact Gain insight and develop skills for influencing, instituting, and managing change in public safety agencies. The goal is to equip you with the skills needed to maximize impact in our common goal of moving your agency and community to a higher level of resilience and preparedness through fostering innovation and cultivating the use of advanced technology. Participants will be provided with practical tools for use in cultivating and instituting change in their agencies.</p> <p>Instructors:</p> <ul style="list-style-type: none"> Mohit Mukherjee, Sr. Instructor Rebecca Harned, NAPSG <p>Materials:</p> <ul style="list-style-type: none"> Master Class Sliddeck Video: Educating Changemakers <p>Supporting Resources:</p> <ul style="list-style-type: none"> Power of Stories Appreciative Inquiry Switch Framework on Change 	<p>National Roundtable: Emerging Technology for Daily Operations & Crisis Management Learn about 4 major technology developments impacting location-based solutions for public safety. Together with leading technologists, leaders and decision makers will share the challenges they face in the field, IC Post, and EOC and explore how the latest in emerging technology can be implemented.</p> <p>Facilitators:</p> <ul style="list-style-type: none"> David Alexander, DHS S&T Peter O'Rourke, NAPSG <p>Materials:</p> <ul style="list-style-type: none"> Roundtable Sliddeck Disaster Resilience Video <p>Preparedness Module:</p> <ul style="list-style-type: none"> PrepToolKit Sliddeck PrepToolKit Website <p>Mitigation:</p> <ul style="list-style-type: none"> Flood Video Results from Survey <p>First Responder Field Operations:</p> <ul style="list-style-type: none"> NGFR Video EDGE Video <p>Emergency Operations Center:</p> <ul style="list-style-type: none"> Connecting Field Ops to EOC HurricaneVac Video 	<p>Workshop: Core Information Needs & Model Solutions from Recent Disasters Emergency responders and planners will come together to validate core information needs in preparedness through response and into recovery. Participants will also test drive the latest solutions deployed during recent disasters and learn how similar capabilities can be implemented in their agencies.</p> <p>Instructors and Facilitators:</p> <ul style="list-style-type: none"> Paul Doherty, NAPSG Foundation TJ Lyon, Fl. Fire Chiefs Assoc. (FL) Richard Butgereit, Florida Division of Emergency Management Jared Doke, NAPSG Foundation <p>Materials:</p> <ul style="list-style-type: none"> Workshop Sliddeck Core Info Needs for ESF 4 and 9 in Hurricane Michael Sliddeck State EOC and ESF 5 Core Info Sharing Sliddeck 	<p>Session A Training: Latest in Web GIS for Public Safety Participants complete a series of hands-on training exercises using and the Esri Solutions Deployment Tool in ArcGIS Pro and ArcGIS Online to develop products for practical use by decision makers in public safety:</p> <ul style="list-style-type: none"> Situational Awareness Applications Dashboards for Decision Making <p>Instructors:</p> <ul style="list-style-type: none"> Tari Martin, NAPSG Foundation Chris Rogers, Kirkland Fire Department (WA) <p>Materials:</p> <ul style="list-style-type: none"> Training Material 	<p>Session B Training: Latest in Web GIS for Public Safety Participants complete a series of hands-on training exercises using and the Esri Solutions Deployment Tool in ArcGIS Pro and ArcGIS Online to develop products for practical use by decision makers in public safety:</p> <ul style="list-style-type: none"> Situational Awareness Applications Dashboards for Decision Making <p>Instructors:</p> <ul style="list-style-type: none"> Jeff Baranyi, Esri Shelby Zelonis, Montgomery County Police Department (MD) <p>Materials:</p> <ul style="list-style-type: none"> Training Material

Day 1 • December 3

12:00 p.m.

Hosted Lunch

Disaster Innovation Talks

- [Uniting Response and Communications with FirstNet](#) •

Jeff Bratcher, Chief Technology and Operations Officer, First Responder Network Authority

- [Reducing Complexity and Improving Decision Making with Response Lifelines](#) •

Joshua Dozor, Deputy Assistant Administrator for Response, Federal Emergency Management Agency

Glenn Miller Ballroom – Center

1:15 p.m.

2:30 p.m.

Afternoon Coffee Break

Leaders & Decision Makers

First Responders & Planners

GIS & Technologists

Master Class: Creating Change & Impact

Gain insight and develop skills for influencing, instituting, and managing change in public safety agencies. The goal is to equip you with the skills needed to maximize impact in our common goal of moving your agency and community to a higher level of resilience and preparedness through fostering innovation and cultivating the use of advanced technology. Participants will be provided with practical tools for use in cultivating and instituting change in their agencies.

Instructors:

- Mohit Mukherjee, Sr. Instructor
- Rebecca Harned, NAPSG

Materials:

- [Master Class Sliddeck](#)
- [Video: Educating Changemakers](#)

Supporting Resources:

- [Power of Stories](#)
- [Appreciative Inquiry](#)
- [Switch Framework on Change](#)

2017-2018 Disaster Rewind: Wildfires & Hurricanes

Wildfires

- [Lessons Learned from 2018 California Wildfires](#), Stephen Lai, California Governor's Office of Emergency Services (CA)
- [Best Practice in Fire Evacuation Data in Oregon](#), Daniel Stoelb, Oregon Office of Emergency Management (OR)

Hurricanes

- [Determining Impacts and Monitoring Recovery Using Geospatial Analytics](#), Catherine Bohn, Dewberry
- [Applying NOAA Imagery for SAR, Damage Assessment, and Debris Management](#), Jon Sellars and Jason Woolard, NOAA
- [Ground Truth from Team Rubicon Disaster Response](#), William Porter, Team Rubicon

Field Simulation: Collecting Data in the Field for Readiness & Response

Get into the field with the latest standardized solutions for collecting data in support of planning, preparedness, and incident response. Data collection will focus on early damage and search & rescue information.

Learn first-hand how field data can be automatically integrated into dashboards and other applications for enhanced situational awareness in real-time.

Facilitators:

- Paul Doherty, NAPSG Foundation
- Jeff Dulin, International Association of Fire Chiefs

Materials:

- [Field Simulation Story Map](#)

Vignettes from the Field:

- [Field Operations in Hurricane Florence](#), Chad Beam, Branch Chief, South Carolina Emergency Response Task Force (SC)
- [Incident Pre-Planning with Field Applications](#), Katie Steele, GIS Analyst, City of San Marcos (TX)

Session A Training: Best Practices in Deploying Field Data Collection Solutions

Through hands-on training, learn technical skills for deploying a standardized form for field data collection into your web GIS infrastructure.

Participants will also develop skills for incorporating live data collected in the field into situational awareness applications and other solutions.

Instructors:

- Tari Martin, NAPSG Foundation
- Chris Rogers, Kirkland Fire Department (WA)

Materials:

- [Training Sliddeck](#)

Session B Training: Best Practices in Deploying Field Data Collection Solutions

Through hands-on training, learn technical skills for deploying a standardized form for field data collection into your web GIS infrastructure.

Participants will also develop skills for incorporating live data collected in the field into situational awareness applications and other solutions.

Instructors:

- Jeff Baranyi, Esri
- Shelby Zelonis, Montgomery County Police Department (MD)

Materials:

- [Training Sliddeck](#)

2:45 p.m.

Day 1 Wrap-Up and Closing Remarks

Peter O'Rourke, NAPSG Foundation and David Alexander, DHS Science and Technology Directorate

4:45 p.m.

Day 2 • December 4

Registration & Hosted Breakfast

University Memorial Center • 1669 Euclid Avenue • Boulder, CO

7:30 a.m.

Day 2 Welcome and Opening Remarks

Rand Napoli, Chairman, NAPSG Foundation and David Alexander, DHS Science and Technology Directorate

8:30 a.m.

Disaster Innovation Talks

- [A Ready and Resilient Nation through Innovation](#) •

Daniel Alexander, Director, National Integration Center, Federal Emergency Management Agency

- [Cracking the Code on Indoor Incident Operations](#) •

Jeb Benson, Public Safety Communications Research, National Institute of Standards and Technology

- [Data for Good: Social Media Aiding in Disaster Response and Recovery](#) •

Laura McGorman, Policy Lead for Disaster Maps, Facebook

8:45 a.m.

Morning Coffee Break

10:15 a.m.

	Leaders & Decision Makers	First Responders & Planners	GIS & Technologists	
10:30 a.m.	<p>Workshop: Current and Future State of the Union on Preparedness Data This session will weave together a series of lightning briefings, providing a baseline on the current and future state of preparedness data, and breakout discussions to define high priority unmet needs and requirements in preparedness data nationwide.</p> <p>Facilitators:</p> <ul style="list-style-type: none"> • Tricia Lawson, NAPSG Foundation • Travis Hardy, Ardent MC <p>Lightning Briefs:</p> <ul style="list-style-type: none"> • Disaster Data: Chris Vaughan, FEMA GIO • Geospatial Coordination: Rob Pitts & Rebecca Kollmeyer, New Light Technologies • National Risk Index: Jesse Rozelle, FEMA R8 • Census Data for Disaster Planning: Jim Castagneri, US Census Bureau <ul style="list-style-type: none"> ○ Census Resources for Developers ○ Census of Population and Housing • HIFLD: Jimmy Nerantzis, HIFLD Program Manager 	<p>Work Session: Mutual Aid and Crisis Management Technology Challenges and Solutions This session opens with an overview of the most common challenges with mutual aid and the latest in crisis management technology capabilities. You will then engage in an interactive work session focused on defining real-world solutions to the most vexing challenges around resource management, mutual aid, and crisis management technology.</p> <p>Facilitators:</p> <ul style="list-style-type: none"> • Rebecca Harned, NAPSG Foundation • Paul Doherty, NAPSG Foundation • Jeff Dulin, International Association of Fire Chiefs <p>Materials:</p> <ul style="list-style-type: none"> • Work Session Sliddeck <p>Supporting Resources:</p> <ul style="list-style-type: none"> • NMAPS Resources 	<p>Session A Training: Deploying Core Operational Information with Web GIS Hands-on training session participants will receive an in-depth overview of the standardized framework for Core Operational Information relevant across all hazards. Through this training you will:</p> <ul style="list-style-type: none"> • Learn technical workflows and best practices • Gain access to a catalog of open data for use in creating geospatial decision support tools • Develop a web GIS application that applies the standardized framework <p>Instructors:</p> <ul style="list-style-type: none"> • Tari Martin, NAPSG Foundation • Chris Rogers, Kirkland Fire Department (WA) <p>Materials</p> <ul style="list-style-type: none"> • Training Sliddeck 	<p>Session B Training: Deploying Core Operational Information with Web GIS Hands-on training session participants will receive an in-depth overview of the standardized framework for Core Operational Information relevant across all hazards. Through this training you will:</p> <ul style="list-style-type: none"> • Learn technical workflows and best practices • Gain access to a catalog of open data for use in creating geospatial decision support tools • Develop a web GIS application that applies the standardized framework <p>Instructors:</p> <ul style="list-style-type: none"> • Jeff Baranyi, Esri • Shelby Zelonis, Montgomery County Police Department (MD) <p>Materials</p> <ul style="list-style-type: none"> • Training Sliddeck

Hosted Lunch

12:00 p.m.

Day 2 • December 4

1:00 p.m.

Winter Wrath 2018 • Exercise Overview & Introduction

NGPS Exercise Planning Team & Control/Simulation Cell

StartEX • Winter Wrath 2018

GOAL: Increase knowledge & skills in using location-enabled situational awareness, field collection, & resource management tools for improved operational coordination & decision making

OBJECTIVES:

- Validate and strengthen understanding of operational decision points, information requirements, and GIS capabilities
- Build knowledge on how to use live field data from rapid damage assessments to inform operational decision making
- Develop an understanding of technology-enriched resource management and mutual aid operations
- Strengthen GIS staff understanding of how to develop and deliver the right data collection and information products to decision makers at the right time to enable more effective operational coordination
- Strengthen decision maker and operator understanding of GIS capabilities, products, and analysis available to support decision making in an event
- Bridge communication gaps between decision makers, operators and GIS staff to better anticipate and fulfill information requirements

1:20 p.m.

LOGISTICS:

- This is an all-hands exercise, with all NGPS participants actively playing in the exercise
- NGPS participants will be pre-assigned into one of the six simulated groups outlined below
- This exercise is not simulating how incident operations are conducted in Colorado, rather the exercise scenario and simulated groups provide operational context

MATERIALS:

- [Exercise Situation Manual](#)
- [Exercise Facilitator's Guide](#)
- [Exercise Overview & Hot Wash Sliddeck](#)
- [Winter Wrath 2018 Story Map with Injects](#)

**Group A: State of CO
Emergency Operations
Center**

**Group B: FEMA Region 8
Regional Response
Coordination Center**

**Group C: City & County
of Boulder Emergency
Operations Center**

**Group D: City & County
of Denver Emergency
Operations Center**

**Group E: Jefferson
County Emergency
Operations Center**

**Group F: Douglas
County Emergency
Operations Center**

4:30 p.m.

Hot Wash • Exercise After Action Debrief

NGPS Exercise Planning Team & Control Cell

5:00 p.m.

NGPS Debrief • Critical Take A-Ways & Next Steps

Rand Napoli, NAPS Foundation and David Alexander, DHS Science and Technology Directorate

Day 3 • December 5 • Optional Post-NGPS Workshops & Closed Meetings

Kittredge Central Hall • 2480 Kittredge Loop Drive Boulder, CO 80310

8:30 a.m.

Check-In and Coffee

9:00 a.m.

National Geo-Enabled Planning Workshop

Purpose: Collaboratively validate and refine standardized frameworks and guidance around deliberative and crisis action planning across local, state, territory, tribal, and Federal agencies.

This interactive workshop builds from the NGPS program and exercise. We will work together to:

- Understand limitations in applying plans during real-world events
- Identify and address key challenges in integrating geo-enabled technology and analysis in planning
- Define model practices in geo-enabling the deliberative, operation, and crisis action planning process.

Emergency Operations Planning Module 1:

- Regional Example: [New Madrid Zone Planning](#)
- Local Example: [North Central Region of Colorado](#)
- Example Templates
 - [All-Hazards Response Plan: Information Collection Plan](#)
 - EEI and Data Matrix: Information Collection Plan

Pre-Incident Planning Module 2:

- Current and Future State of Pre-Incident Plans
- [Next Generation First Responder Video](#)
- [Next Generation First Responder Program](#)

Crisis Action Planning Module 3:

- Regional Example: [Hawaii Volcano Journal](#)
- State Example: [State of Arizona ESF Dashboard](#)

12:00 p.m.

Lunch

On Your Own

1:00 p.m.

- 5:00 p.m.

Closed Meetings

• By Invitation Only •