

AGENDA

Innovation Summit for Preparedness & Resilience 2019

November 12-14, 2019

Texas A&M University * Aggie Special Events Center * 200 Seawolf Parkway Galveston, TX, 77554

Day 1 * November 12

7:15 a.m.	Registration & Hosted Breakfast Aggie Special Events Center • Building 3035 • 200 Seawolf Parkway • Galveston, TX <i>Building Foyer & Room 205</i>			
8:15 a.m.	Welcome and Opening Ceremonies Rand Napoli, Chairman, NAPSG Foundation * Dr. Sam Brody, Texas A&M University * David Alexander, DHS Science and Technology Directorate Maritime Cadets Presentation of Colors Event Logistics and Overview, Rebecca Harned, NAPSG Foundation <i>Room 203</i>			
8:40 a.m.	Disaster Innovation Talks <ul style="list-style-type: none"> • Applying Science & Technology to Drive State Flood Mitigation and Resilience Policy • Dr. Sam Brody, Director, Center for Texas Beaches & Shores, Texas A&M University • Enhancing Life Saving Missions with Innovative Technology & Policy • Jeff Maunder, Lead, New Zealand Disaster Assistance Response Team and New Zealand Urban Search & Rescue National Management Team <i>Room 203</i>			
10:00 a.m.	Morning Coffee Break <i>Room 205</i>			
	Leaders & Decision-Makers	First Responders & Technologists	GIS Staff	
10:15 a.m.	<p>Master Class: Bridging the Communications Gap Oftentimes, leaders and technologists are struggling to communicate effectively, which can result in missed opportunities to bring innovation into their agencies that will increase their effectiveness in the community. This training session will focus on breaking down communication barriers successfully and will provide participants the tools needed for success.</p> <p>Instructors: - Tom Jenkins, Fire Chief, City of Rogers, Arkansas - Tommy Hicks, NAPSG</p>	<p>Workshop: Demystifying Mutual Aid Policy and Technology As emergency response agencies face increased budget shortfalls and resource constraints, advanced technology has evolved rapidly to help fill the gap. Yet, mutual aid policy rarely keeps pace with technology development. This session will define fact versus fiction in the current and future state of affairs in mutual aid policy and technology.</p> <p>Vignettes from the Field: - TJ Lyon, ESF 4/9 Coordinator (FL) - U.S. Forest Service / U.S. Department of Agriculture - FEMA, National Integration Center</p>	<p>Workshop: Technology Innovation for First Responders This workshop will provide First Responders and GIS Staff with practical training on the latest available tools and resources to support local-level preparedness, readiness, and response operations. This session will also feature use cases and best practices from the Southeast, Yosemite All Hazards Region, and Colorado North Central Region.</p> <p>Facilitators: Paul Doherty and Jared Doke, NAPSG</p> <p>Vignettes from the Regions: - Kevin Kay, Arapahoe County (CO) - Chad Beam, South Carolina OSFM - Kevin Henson, Greenville City Fire - Ansley Singer, Yosemite All Hazards Region (CA)</p>	<p>Training: Core Web GIS Skills for Public Safety This training session will provide a review and refresh on the most common web GIS tools, solutions, and applications in use by public safety today. It will include basic training on how to use available templates and data to configure web GIS solutions to support public safety needs and requirements.</p> <p>Instructors: - Shelby Roberson, Montgomery County Police Department - Peter Hanna, Baltimore City Fire Department</p>
12:00 p.m.	Hosted Lunch <i>Room 205 & Pre-Function Space</i>			
1:15 p.m.	Disaster Innovation Talks <ul style="list-style-type: none"> • Advancing Statewide Preparedness and Mitigation Policy • Director Nim Kidd, Texas Division of Emergency Management • Turning Science & Technology into Disaster Decision Making • Jacqueline Meszaros, Science & Engineering Policy, National Science Foundation <i>Room 203</i>			

2:30 p.m.	Afternoon Coffee Break <i>Room 205 & Pre-Function Space</i>			
	Leaders & Decision-Makers	First Responders & Operators	Planners & Technologists	Intermediate & Advanced GIS Staff
2:40 p.m.	<p>National Roundtable: Emerging Technology for Preparedness and Mitigation Learn about the latest technology developments in the public safety sector. Together with technologists, leaders and decision-makers will share the challenges they face during blue skies in the preparedness phase and mitigation. We'll validate needs, review relevant policy, and explore how the latest in emerging technology can be implemented while identifying key gaps where policy and technology innovation are needed.</p> <p>Facilitators: - David Alexander, DHS S&T - Tommy Hicks, NAPSG</p> <p>Emerging Technology Highlights: - Session will feature a panel of experts sharing the latest in emerging technology</p>	<p>Field Simulation: Collecting Data in the Field for Search & Rescue and Debris Management This hands-on training and simulation for Operators, First Responders, and GIS Staff will demonstrate how to implement and use standardized workflows and tools for field data collection during incident operations. This simulation will include field data collection to support damage assessment and debris management.</p> <p>Facilitators: - Paul Doherty and Jared Doke, NAPSG</p> <p>Vignettes from the Field: - Jennifer Lana, Cobb County - Katie Picchione, FEMA Office of Response and Recovery - Jeff Dulin, International Association of Fire Chiefs</p>	<p>Training: Geo-Enable Your Plans: From Binders to Interactive Web-Based Plans Planners and Technologists will learn best practices for turning their plans (IAP, Hazard Mitigation Plans, EOP's, etc.) into living web-based plans that are now being used every day. This will include training on tools for aligning map-based planning to the community lifeline and vignettes from the field from innovators who are successfully sharing and geo-enabling data and achieved interagency buy-in and collaboration.</p> <p>Instructor: - Tari Martin, NAPSG</p> <p>Vignettes from the Field: - Rob Long, FEMA - Eric Shreve, Arizona Department of Emergency Management - Jason Ray, Florida Division of Emergency Management - Others To Be Announced</p>	<p>Technology Update: Advanced Web GIS Skills and Emerging Solutions for Public Safety This session will provide an update and review on the latest emerging web GIS solutions and applications for use across the public safety community. During this session, GIS staff will learn what new web-based GIS tools and templates were recently released and how they can be applied to support the most common public safety use case scenarios. This will include, but is not limited to:</p> <ul style="list-style-type: none"> - Drone 2 Map - Experience Builder - New Story Map Templates - Others <p>Instructor: - Jeff Baranyi, Esri</p>
4:40 p.m.	Day 1 Wrap-Up and Closing Remarks Peter O'Rourke, NAPSG Foundation and David Alexander, DHS Science and Technology Directorate Room 203			
5:00 - 7:00 p.m.	NAPSG Foundation Hosted Social * Emerging Technologies Showcase Lightning Talks and Networking with Technology Partners to Learn What's Next and How You Can Bring it to Your Agency Waterfront Pavilion & Patio * Room 183 <i>Heavy Hors d'oeuvres and Beverages Will be Provided</i>			
Day 2 * November 13				
7:30 a.m.	Registration & Hosted Breakfast Aggie Special Events Center • Building 3035 • 200 Seawolf Parkway • Galveston, TX <i>Building Foyer & Room 205</i>			
8:30 a.m.	Welcome and Opening Remarks Rand Napoli, Chairman, NAPSG Foundation * Dr. Sam Brody, Texas A&M Galveston * David Alexander, DHS Science and Technology Directorate Day 2 Logistics and Overview, Rebecca Harned, NAPSG Foundation Room 203			
8:45 a.m.	Disaster Innovation Talks <ul style="list-style-type: none"> • Achieving Interoperability for Crisis Management in the Field and at the State EOC • Steve Batson, Chief of Staff, South Carolina Division of Emergency Management<i>(Invited)</i> • Embracing the Science of Where for Emergency Preparedness and Response • Ryan Lanclos, Director Public Safety Industries, Esri Room 203			

10:00 a.m.	Morning Coffee Break Room 205			
	Leaders & Decision-Makers	First Responders & Technologists	Leaders, Planners, & GIS Staff	PIOs & Technologists
10:10 a.m.	<p>Work Session: Fostering Agency-Wide Adoption and Implementation of Innovative Technology Participants will learn about best practices and resources available and discuss how they can be used as a framework for cultivating adoption and implementation of advanced and innovative technology across agencies and communities. Participants will come away from this session with framework to bring back to their agencies to guide long-term adoption and implementing. This session, and the supporting framework, will focus on the following areas:</p> <ul style="list-style-type: none"> - Governance - Standard Operating Procedures - Technology - Training and Exercises - Use in Preparedness and Response <p>Instructors: Travis Hardy and Rebecca Harned, NAPSG</p> <p>Session will Feature Lightning Briefs by Key Experts To Be Announced</p>	<p>Workshop: Developing a Drone/UAS Program for your Public Safety Agency This workshop will lead participants through critical considerations and lessons learned in starting and implementing a drone/UAS program for public safety operations:</p> <ul style="list-style-type: none"> - Update on Drone/UAS standards and regulations for public vs. private drone/UAS programs - Best practices from public drone/UAS programs: Boone County, MO - Understand what drone/UAS imagery is best suited to support different mission needs - Selecting the best drone/UAS platform for your mission and imagery needs - Determining what your product is going to be and associated imagery processing <p>This workshop will be developed and delivered in partnership with Civil Air Patrol and involves a panel of experts on drone/UAS for public safety.</p> <p>Instructors:</p> <ul style="list-style-type: none"> - John Demaris, Civil Air Patrol - Austin Worcester, Civil Air Patrol - Tari Martin, NAPSG 	<p>Workshop: Ending Analysis Paralysis by Implementing Best Practices in Your Dashboards With the advent of the common operating picture and dashboard for public safety, we've quickly gone from not enough information to too much information, which often leaves us in analysis paralysis. This workshop will explore how we can overcome this challenge by implementing best practices in situational awareness dashboards & tools versus best practices in resource management dashboards.</p> <p>We'll guide you on how to focus your decision-support solutions to presenting and analyzing only the most actionable information needed to inform specific decisions in risk assessment, resource planning, incident forecasting, incident operations, and initial recovery operations.</p> <p>Lead Instructor: Tricia Lawson, NAPSG</p> <p>Lightning Briefs</p> <ul style="list-style-type: none"> - Director Dossett and Doug Eades – KY Division of Emergency Management - David Kang and Chris Vaughan – FEMA Response Planning and Exercise Division - Lance Gilmore and Adam Barker – FEMA Urban Search & Rescue - Chief Jeff Dulin - International Association of Fire Chiefs 	<p>Work Session: Best Practices in Using Technology for Public Information This work session will feature proven and emerging best practices in using technology to support effective public information. This will include:</p> <ul style="list-style-type: none"> - Tools & Best Practices for Providing Public Information Using the Latest Technology and Applications - Public Information Map Demonstrations - A Geospatial Decision Support Tool for Targeted External Communications from the US Forest Service - A Panel Session on Public Information Maps <p>Participants will be provided with a toolkit of resources to support implementing the latest technology to support public information workflow.</p> <p>Facilitator: Paul Doherty, NAPSG</p> <p>Panelists:</p> <ul style="list-style-type: none"> - Dirk Fillpot, External Affairs, US Department of Agriculture - Ansley Singer, National Park Service - Emily Martuscello, FEMA Region I
12:00 p.m.	Hosted Lunch Room 205 & Pre-Function Space			
1:15 p.m.	<p>Disaster Innovation Talks</p> <ul style="list-style-type: none"> • Technology Enabling the Community Lifelines for Local and State Incident Operations • Michael Dossett, Director, Kentucky Emergency Management and Doug Eades, GIS Lead, Kentucky Emergency Management <i>(Invited)</i> • Integrating Intelligence and Technology to Drive Operational Planning • David Kang, Director, Response Planning and Exercise Division, Federal Emergency Management Agency <p style="text-align: center;">Room 203</p>			
2:30 p.m.	Blended Sessions Involving Participants Representing All Roles and Perspectives			

2:30 p.m.	<p>Session: Lessons Learned and Best Practices in Cyber Security for Public Safety GIS, Data, & Technology This session is designed to provide a basic understanding of how to secure and protect your agency's crisis management and GIS systems from cyber-related threats and hazards. This training will cover:</p> <ul style="list-style-type: none"> - Developing systems for maximum resilience - Mitigating malware attacks in crisis management and GIS systems - Protecting Personally Identifiable Information (PII) in disaster data - Safety and securely sharing data and information among agencies and systems for improved operational coordination <p>Panelists:</p> <ul style="list-style-type: none"> - Dan Bout, Utility Cyber Security Branch, California Public Utilities Commission (CA) - Ted Okada, CTO, FEMA - Nate Workman, FEMA OCIO - Dave Williams, Cloud Architect, New Light Technologies Inc. 	<p>Workshop: Mission Critical Decision Making with Field Data This workshop will bring together Public Safety and Private Sector decision-makers to discuss the types of data being collected today and the latest in innovative decision-support tools and practices in using field-collected data to answer this key question "how can all this real-time data and information be used to make better decisions during an actual disasters?".</p> <ul style="list-style-type: none"> - Outreach to the private sector community - Policy and governance - Live examples in use today - Panel discussion <p>Instructors:</p> <ul style="list-style-type: none"> - Chief Hezendeane Smith, City of Orlando Fire - Jon Wickersham, Colonial Pipeline - Tommy Hicks, NAPS Foundation - Kenneth Elkins, Bureau of Explosives, Association of American Railroads 	<p>Hands-On Simulation & Tabletop: Great Galveston Hurricane Exercise This session is structured as a hands-on technology simulation and tabletop discussion for the "Great Galveston Hurricane" scenario to provide context. The objective of the simulation is to bring together the knowledge and skills all participants developed in the first day and a half, and put them to use in a simulated incident.</p> <p>During this exercise Leaders, First Responders, Planners, and GIS/Technologists will work together to apply the latest technology and skills to "real-world" public safety operations and technology workflows across three phases of the simulated incident.</p> <ul style="list-style-type: none"> - Preparedness & Readiness Phase - Initial Response Phase Focused on Shelter Management - Response and Transition to Recovery Phase <p>Facilitators:</p> <ul style="list-style-type: none"> - Mike Chard, Director, City & County of Boulder Office of Emergency Management (CO) - Mike Ouimet, Unit Chief, Operations Technology, Texas Division of Emergency Management (TX) - Jared Duke and Tricia Lawson, NAPS Foundation 	<p>Hack-A-Thon: Crowdsourcing Data & Information to Support the Community Lifelines Learn how to fill gaps in data and information, and how you can support your organization to report and make decisions within the framework of community lifelines through the use of crowdsourcing.</p> <p>Participants will learn the basics of crowdsourcing and how federal, state and local level officials work with Digital Volunteers Networks. The presenters will use the outcomes of previous workshops, and lessons learned from crowdsourcing support during recent disasters towards developing a shared foundation of knowledge on crowdsourcing. Participants will then build on that information to test updates to the CrowdsourcingEM.org Toolkit, and develop innovative solutions to policy and technology challenges.</p> <p>Facilitators & Instructors:</p> <ul style="list-style-type: none"> - Emily Martuscello, FEMA Region 1 - Justin Kates, City of Nashua, NH - Rob Neppell, CEDR Digital Corps. - Erin Arkison, GIS Corps - Tari Martin, NAPS Foundation
4:30 p.m.	<p>Day 2 Debrief • Critical Takeaways David Alexander, DHS Science and Technology Directorate and NAPS Foundation Leadership Room 203</p>			
5:00 - 7:00 p.m.	<p>NAPS Foundation Hosted Reception Annual Awards for Excellence in Public Safety GIS Heavy Hors d'oeuvres and Beverages Will be Provided Waterfront Pavilion & Patio * Room 183</p>			
<p>Day 3 * November 14</p>				
8:30 a.m.	<p>Check-In & Coffee Aggie Special Events Center • Building 3035 • 200 Seawolf Parkway • Galveston, TX Building Foyer & Room 205</p>			
<p>Concurrent Workshops and Special Meetings</p>				

9:00 a.m.	<p>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>Facilitator: - Julie Eckert, HIFLD Sub-Committee Secretariat/Ardent MC</p> <p>Panelists: - Homeland Infrastructure Foundation Level Data: Jimmy Nerantzis, NGA - Transportation Data: Cliff Allison, HERE - Census Data for Disaster Planning: Jim Castagneri, US Census Bureau - Disaster Data: Chris Vaughan, FEMA GIO - Modeling and Data Working Group: Siddharth Panday, Modeling & Data Working Group/Dewberry - Geospatial Coordination: Rebecca Kollmeyer, New Light Technologies</p>	<p>Remote Sensing, Imagery, and Drones for Response and Recovery Workshop This workshop will bring Emergency Managers together with scientists and experts in remote sensing to develop a roadmap for how we can address emergency management's highest priority imagery needs through the latest in remote sensing capabilities.</p> <ul style="list-style-type: none"> - Define emergency management's priority needs for imagery in response and recovery - Learn the latest in defining specific and priority target lists for information/imagery collection plans - Review best available imagery, derived products, and models for disasters - Understand legal and privacy considerations with remote sensing operations - Hurricane Dorian Rewind on remote sensing collection, exploitation, coordination - Latest in innovative imagery exploitation, automation, and artificial intelligence <p>Facilitators: - John Desmarais, Civil Air Patrol - Austin Worcester, Civil Air Patrol - Glen Russell, FEMA, Remote Sensing Coordinator - Tari Martin, NAPSG</p> <p>Workshop will feature Lightning Briefs & Technology Demonstrations by Key Experts</p>	<p>Indoor Mapping, Tracking, and Navigation for Public Safety In this interactive workshop, participants will develop knowledge on the current and future of building-level pre-incident planning. The workshop kicks-off with a group discussion on the current state of pre-planning at the local level nationwide. This will be followed by a live demonstration of existing and emerging technology indoor mapping, tracking, and navigation for public safety, specifically to support pre-planning efforts and the use of location-based services. The workshop culminates with an interactive session on defining how the latest indoor mapping technology can be adopted and implemented locally, and what is needed in terms of training, SOPs, guidance, etc. to support adoption.</p> <p>Facilitators: - Jeb Benson, National Institute of Standards and Technology - Peter Hanna, Baltimore City Fire Department (MD) - Paul Doherty, NAPSG</p> <p>Workshop will feature Lightning Briefs & Technology Demonstrations by Key Experts</p>	<p>NIMS Technology Sub-Group Meeting Morning Session</p> <p>Closed Session Only for Working Group Members</p>
12:30 p.m.	<p>Hosted Lunch <i>Room 205 & Pre-Function Space</i></p>			
Concurrent Workshops and Special Meetings				
1:00 p.m.	<p>National Search & Rescue Committee's Geospatial Working Group Meeting</p> <p>Closed Session Only for Working Group Members</p>	<p>FEMA Geospatial Working Group Meeting</p> <p>Closed Session Only for Working Group Members</p>	<p>Concurrent Open Meetings</p> <p>Participants are encouraged to join a working group meeting of interest:</p> <ul style="list-style-type: none"> - NAPSG Symbolology Working Group - Remote Sensing Innovation Working Group - Pre-Planning, Indoor Mapping, & Tracking Working Group - Others To Be Announced 	<p>NIMS Technology Sub-Group Meetings Afternoon Session</p> <p>Closed Sessions Only for Working Group Members</p>
4:00 p.m.	<p>InSPIRE Adjourned</p> <p>Safe Travels!</p>			