Preparing Smart & Safe Communities for the Unknown

NAPSG Foundation Virtual Training
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Instructors

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Objectives for Today

• Learn about success stories in Texas and Florida in building and organizing GIS emergency response capabilities.

• Learn about standardized resource typing and mission ready packaging templates for qualifying and rostering GIS response personnel and teams in your agency.

• Gain access to tools you can use to assess and measure your agency’s geospatial maturity, serving as a starting point for prioritizing GIS investments to achieve the greatest outcomes.
TX Emergency Response GIS Team (EGRT)

David Allen, Texas EGRT
FL Emergency Response GIS Team (EGRT)

Richard Butgereit, Florida Division of Emergency Management
Scott Warner, Bay County (FL) Emergency Services
Tools & Resources

Ryan Lanclos, NAPSG Foundation
Position Qualification & Resource Typing

QUALIFICATIONS AND CREDENTIALING

GIS professionals and staff that are dedicated to supporting the public safety mission require a unique combination of knowledge, skills, and abilities in order to effectively support emergency operations. Establishing minimum criteria and qualifications for GIS personnel and teams for the Nation is critical to building the Public Safety GIS Workforce. NAPSG has developed the first version of Position Qualification Sheets and Resource Types/Packages for use by agencies nationwide, and across all disciplines, as guidance in the following:

- Informing the hiring process for GIS personnel in public safety
- Establishing professional development pathways for GIS personnel in public safety
- Achieving consistency in the request and deployment of GIS personnel and teams for mutual aid operations
- Building and sustaining GIS resource packages for use in support of emergency management
- Serving as a foundation for the development of credentialing processes and tools for GIS personnel and teams

<table>
<thead>
<tr>
<th>Level</th>
<th>Position</th>
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<tbody>
<tr>
<td>Basic 1</td>
<td>Field Data Entry Technician</td>
</tr>
<tr>
<td>Basic 2</td>
<td>GIS Technician</td>
</tr>
<tr>
<td>Intermediate 1</td>
<td>GIS Analyst</td>
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<tr>
<td>Intermediate 2</td>
<td>GIS Team Leader</td>
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<tr>
<td>Advanced</td>
<td>GIS Supervisor</td>
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</tbody>
</table>

Resource Type: GIS Map Support Team
Example Position: GIS Analyst

- Each Position Qualification Covers:
  - Description of duties
  - Education
  - Training
  - Experience
  - Physical / Mental Fitness
  - Currency
  - Professional / Technical Licenses & Certs
  - Ordering Specifications
Capability and Readiness Assessment Tool (CARAT)
Online Self-Assessment

• Help organizations build a **solid foundation**

• Provide **examples at each level of maturity**
  • Expand current Crawl, Walk and Run

• **Be more discipline specific**
  • Emergency Management
  • Fire/Hazardous Materials
  • Emergency Medical Services
  • Intelligence & Fusion Centers

• **Assess overall maturity**
  • Geospatial Continuum

• **Guide the user** through the process
EMERGENCY MANAGEMENT

- Threat and Hazard Identification and Risk Assessment (THIRA)
- Mitigation Project Planning, Monitoring & Evaluation
- Response Planning
- Recovery Planning
- Special Event Planning
- Evacuation Planning and Management
- Operational Coordination
- Logistics Planning and Management
- Damage Assessment
- Public Information and Communications
- Volunteer Engagement (Crowdsourcing)
- Field Operations & Information Collection
- Agency Accreditation or Evaluating Performance (AAR)
- Search & Rescue Operations

Damage Assessment

CRAWL
Map damage locations using GIS tools. This may be done manually, or automatically using mobile devices. Include the use of a common reference grid (USNG) for coordination.

WALK
Connect with citizens to allow additional reporting, and use analytics to determine estimates more quickly in the initial phases.

RUN
Use dashboards to monitor damage assessment progress and thresholds for valuation.

Damage Assessment
- DAMAGE ASSESSMENT
- USNG MAP
- CITIZEN REPORTING
- IMPACT SUMMARY MAP
- PHOTO SURVEY
- OPERATIONS DASHBOARD
CARAT Online Self-Assessment

• Online Now!
• Disciplines In Development

Current Phase

• Emergency Management
• Fire/Hazardous Materials
• Emergency Medical Services

Coming Soon!

• Law Enforcement
• Intelligence and Fusion Centers
• Search and Rescue

What is CARAT? The Capability and Readiness Assessment Tool (CARAT) is a self-assessment of your organization's geospatial capabilities. It is designed to help you measure and track your progress over time, as well as provide guidance on how to increase your geospatial maturity.

Where should I start? Our online self-assessment will guide you through the steps to determine your maturity in 6 common areas. This self-assessment tool is designed for use at the agency level, not for use by an individual to assess their knowledge, skills, and abilities. If you represent multiple agencies, complete an individual assessment for each agency you represent. We have designed this self-assessment to be used primarily by public safety officials first. If you are a GIS or IT professional, we recommend you coordinate with your leadership to complete the self-assessment.

How should I approach a specific task? Simply look through the topics under each discipline below. When you see the function that you are interested in, click on it. You will then see a continuum – CRAWL, WALK, and RUN. Select the level you want to review and a short description will help you identify your current capability and what is next for you.

GIS BASICS | TRAINING TUTORIALS | CASE STUDIES
Upcoming Events

• Upcoming Virtual Training
  • July: Leveraging New National Open Data for Public Safety Preparedness, Planning, and Operations
  • September: Approaches and Tools for Data-driven Risk Assessment
  • October: Discover and Access a Consistent Toolset for Improving Geospatial Preparedness

• National Geospatial Preparedness Summit (NGPS)
  • August 7-9, 2017 at the University of Alabama
  • FREE for public-sector participants from Federal, local, state, and tribal government
  • Travel Scholarships Available

Register Online: napsgfoundation.org/events
Questions?

Please use the WebEx chat window...