Preliminary Results

2016 National Geospatial Preparedness Summit (NGPS)

Prepared by David Alexander - GMO
22 September 2016
Purpose of NGPS

Prepare agencies with the knowledge and skills necessary to advance the use of geospatial decision support technology and data.

NGPS Participants successfully:

- Developed a common understanding of what information (and data) are needed to make effective decisions
- Learned how to create GIS-based products that fulfill mission critical information requirements of decision makers
- Exercised and validated capabilities
- Identified specific gaps in our capabilities, areas for improvement, and practical solution sets
Who Participated

- Emergency Management: 35%
- 911-Dispatch: 3%
- Fire & EMS: 17%
- Law Enforcement/Fusion: 11%
- GIS Specialist: 16%
- Federal Gov: 12%
- Public Works: 1%
- Private Sector: 5%
National Representation

- **2015**
  
  150 new participants

- **2016**
  
  156 new (180 total participants)
National Representation: Two year Totals

356 participants representing FSLTTP
### September 13 - Day 1

<table>
<thead>
<tr>
<th>Times</th>
<th>GIS Technical</th>
<th>Emergency Management</th>
<th>Fire and EMS</th>
<th>Law Enforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30am</td>
<td>Registration &amp; Hosted Breakfast</td>
<td>12th Floor Foyer - Cafeteria</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 8:30am  | Welcome - Building Agency Maturity in Using Geospatial for Preparedness & Operational Readiness  
David Alexander, Geospatial Information Officer, US Department of Homeland Security (DHS)  
Plenary Room |
| 8:45am  | Keynote - Building More Resilient and Prepared Communities in an Increasingly Complex World  
Judge Alice Hill, Special Assistant to the President and Senior Director for Resilience Policy, National Security Council, White House  
Plenary Room |
| 9:25am  | Stepping into a Disaster Environment & Changing the Outcomes for Survivors  
Chief Michael Barakey, Virginia Beach Fire Department and Virginia USAR Task Force II  
Plenary Room |
| 9:45am  | Morning Coffee Break  
Cafeteria |
| 10:00am | Hands-On Training:  
Integrating DHS Geospatial Tools, Infrastructure Data, and Standardized Symbology  
- DHS Geospatial Tools  
  - Mike Donnelly, DHS  
  - Lew Summers, DHS  
  - Gene Anzano, DHS  
  - Integrating Standardized Symbology  
  - Chris Rogers, Kirkland Fire Department (WA) |
|         | Workshop:  
GIS Preparedness for Incident Management and Coordination  
- Assessing Public Safety GIS Maturity - Ryan Lanois, NAPSG  
- Build SOGs for your Agency - Rebecca Harned, NAPSG  
- Developing GIS staffing strategies - Richard Butgereit, FL Division of Emergency Management (FL)  
- Apps for Implementing an IOC - Jeff Baranyi, Esri (CO) |
|         | Hands-On Training:  
Applying the USNG as a Common Location Reference System for Operations  
- Peter Hanna, Baltimore City Fire Department (MD)  
- Eric Fisher, Fairfax County Fire Rescue (VA)  
- Jim Ingledue, VA Beach Fire/USAR Task Force II  
- Rand Napoli, Chairman, NAPSG Foundation |
|         | Hands-On Training:  
Law Enforcement GIS Bootcamp  
- Developing and configuring web maps and apps  
- Producing tactical information products for law enforcement  
- Developing a story map for a community engagement  
- Overview on portal technology to foster collaboration - Jon Pedder, Esri (CA) |
## Agenda – Afternoon Day 1

### September 13 – Day 1

**Page 2**

<table>
<thead>
<tr>
<th>Times</th>
<th>GIS Technical</th>
<th>Emergency Management</th>
<th>Fire and EMS</th>
<th>Law Enforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00pm</td>
<td>Hosted Lunch</td>
<td>Cafeteria</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 1:00pm  | **Keynote** - How National Policy Enhances Preparedness and Enables Advanced Technology  
Donald “Doc” Lumpkins, Director, National Integration Center, Federal Emergency Management Agency (FEMA)  
*Plenary Room* |
| 1:30pm  | Logistics for Afternoon Breakout Workshops |
| 1:40pm  | **Emerging Technologies Session:**  
Explore technology developments that provide decision support  
- NAPSG State-of-the-Org on R&D - Ryan Lanclos, NAPSG (TX)  
- Esri Technology Innovations for Effective Public Safety Management  
  - Jeff Baranyi, Esri (CO)  
- Achieving Mutual Aid & CAD Interoperability  
  - Don McGarry, Ardent MC (VA)  
- Implementing a Standardized Workflow & Tool for Damage Assessment  
  - Grady Joseph, FEMA (DC)  
- Prototyping Decision Support Tools for National Hurricane Readiness  
  - Ted Okada, FEMA, Chief Technology Officer (DC)  
| 1:40pm  | **Workshop:**  
Data Analysis & Visualization for Fire Department Resilience and Defining Operational Information Requirements  
- Tommy Hicks, IAFC (VA)  
- Jeff Snow, Deputy Chief Vienna Volunteer Fire Department and IAFC (VA)  
- Jeff Dulin, IAFC (SC)  
| 1:40pm  | **Interactive Q&A:**  
Lessons Learned from Special Events  
- Tools and resources to prepare your agency for special events  
  - Jon Pedder, Esri (CA)  
- Review of Lessons Learned from Recent Special Events  
  - Ryan Walsh, Deputy Director, Boston Regional Intelligence Center (MA)  
| 2:50pm  | Afternoon Coffee Break  
Cafeteria |
| 3:00pm  | **Lightning Talks: Lessons Learned & Model Practices from the Field**  
*Plenary Room*  
- **Using Mobile Apps for Wildfire Mitigation/Firewise Assessments**  
  - Chris Corwin, GIS Analyst/CAD Administrator, Blaine County Emergency Communications (ID)  
- **Using GIS & Smart Devices to Track Volunteers During Incidents and Special Events**  
  - Justin Kates, Director of Emergency Management, City of Nashua (NH)  
- **Using SLOSH MEOWs to Create Potential Surge and Estimate Inundation Depths at Critical Facilities**  
  - Richard Butgereit, GIS Administrator, Florida Division of Emergency Management (FL)  
- **Building Impact of a Flooding Event for Response and Recovery**  
  - Hope Morgan, GIS Manager, North Carolina Emergency Management (NC)  
- **Best Practices for a Common Operating Picture During Multi-County Flooding Events**  
  - Colleen Hermans, GIS Analyst, Wisconsin Division of Emergency Management (WI)  
| 3:45pm  | **Debrief from Day 1**  
David Alexander, DHS GMO and Rand Napoli, Chairman, NAPSG Board of Directors  
*Plenary Room* |
# Agenda – Day 2

### September 14 - Day 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30am</td>
<td>Registration &amp; Hosted Breakfast</td>
<td>12th Floor Foyer</td>
</tr>
<tr>
<td></td>
<td><em>12th Floor Foyer - Cafeteria</em></td>
<td></td>
</tr>
<tr>
<td>8:15am</td>
<td>Welcome &amp; Overview of Second Day</td>
<td>Plenary Room</td>
</tr>
<tr>
<td></td>
<td>David Alexander, DHS GMO</td>
<td></td>
</tr>
<tr>
<td>8:30am</td>
<td>Keynote - Enabling Operational Innovation and Building Resilience</td>
<td>Plenary Room</td>
</tr>
<tr>
<td></td>
<td>Dan Cotter, Director, DHS S&amp;T First Responders Group</td>
<td></td>
</tr>
<tr>
<td>9:00am</td>
<td>Introduction to TTX: Tornado Operation Aid</td>
<td>Plenary Room</td>
</tr>
<tr>
<td></td>
<td>Facilitators: Carla Boyce, NAPSG Foundation and Don McGarry, ArdentMC</td>
<td></td>
</tr>
<tr>
<td>9:15am</td>
<td>Tornado Operation Aid Exercise</td>
<td></td>
</tr>
<tr>
<td></td>
<td>To facilitate a better understanding among and between operators and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GIS/IT staff of decision points essential to promoting operational</td>
<td></td>
</tr>
<tr>
<td></td>
<td>coordination, and the data, analysis, products, and technology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>requirements needed to support effective decision making.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;FL Division of Emergency Management&quot;</td>
<td>Classroom A</td>
</tr>
<tr>
<td></td>
<td>&quot;GA Division of Emergency Management&quot;</td>
<td>Classroom B</td>
</tr>
<tr>
<td></td>
<td>&quot;Clay County Emergency Management&quot;</td>
<td></td>
</tr>
<tr>
<td>11:30am</td>
<td>Hot Wash – Tornado Operation Aid</td>
<td>Plenary Room</td>
</tr>
<tr>
<td></td>
<td>Lead Facilitators: Carla Boyce, NAPSG Foundation and Don McGarry,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ArdentMC</td>
<td></td>
</tr>
<tr>
<td>12:00pm</td>
<td>Hosted Lunch</td>
<td>Cafeteria</td>
</tr>
<tr>
<td>1:00pm</td>
<td>Keynote - Strengthening the Geospatial Intelligence Tradecraft for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enhanced Public Safety</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Keith Masback, Chief Executive Office, United States Geospatial</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intelligence Foundation</td>
<td></td>
</tr>
<tr>
<td>1:30pm</td>
<td>National Spatial Data Infrastructure Work Session</td>
<td>Plenary Room -</td>
</tr>
<tr>
<td></td>
<td><em>John Mahoney, FGDC Senior Policy Advisor, USGS</em></td>
<td>Part 1</td>
</tr>
<tr>
<td></td>
<td>Operational Decision Making Work Session</td>
<td>Plenary Room -</td>
</tr>
<tr>
<td></td>
<td><em>Ryan Lanclos, NAPSG Foundation</em></td>
<td>Part 2</td>
</tr>
<tr>
<td>3:30pm</td>
<td>Debrief from Two Days - Critical Take A-ways &amp; Next Steps</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>David Alexander, DHS GMO and Peter O’Rourke, NAPSG Foundation</em></td>
<td></td>
</tr>
<tr>
<td>4:00pm</td>
<td>NGPS Adjourned</td>
<td></td>
</tr>
</tbody>
</table>
NSDI Session Findings

- Current minimal knowledge/understanding of NSDI by local & state
  - Establish initial messaging on NSDI for local & state
  - Conduct outreach and education on NSDI to targeted stakeholders

- Perception that its highly Federally-focused
  - Need to define what NSDI offers to local & state
  - Determine if and how NSDI supports local & state needs
  - Consider reviewing NSDI, identifying more relevant content and packaging it into a Public Safety NSDI Toolkit to ease discovery

- Other Specific Considerations
  - Unclear what NSDI is intended to do and how that varies from HIFLD
  - Could the NSDI contain a suite of standardized data schemas to support data sharing workflows
  - If providing data – need to consider how to integrate and aggregate data from most authoritative sources vs. national data layers
Outcomes & Actions for Next Year

Preliminary Results from 2016 Participant Feedback Forms

- 95% confirmed that they gained valuable knowledge and skills that they will bring back to their agencies
- 95% confirmed that they built connections and shared lessons learned
- 97.5% indicated that they will recommend the Summit to their colleagues

Considerations for 2017

- 92.5% would like pre-Summit technical public safety GIS training
- Identified priority topics for next year:
  - Hands-on technical training in web GIS for public safety/homeland security
  - Functional exercise with more pre-staged priority data
  - User presentations from public safety operators/decision makers
  - Use of drones for disaster response