Welcome to the National Geospatial Preparedness Summit

August 4-5, 2015
Washington, DC
Session Outline

1. Boston Marathon - GIS Lessons Learned
2. AGOL Overview
3. Simulation – Creating a Common Operating Picture
4. Review of Available Resources

Please ask questions throughout!
• 3 Deceased at Scene
• 264 Injured
• Scene Cleared Within 22 Minutes
• 12 Block Perimeter Set

Second Explosion - detonated 12 seconds later and 550 feet up the street from the first

First Explosion - struck close to 2:50pm a short distance from the finish line
Recognize this?
This session is about how we went from this...
...To This...
And This

And you can too.
Marathon 2013 – BRIC GIS Capabilities

• 2 Geospatial technology specialists
• Significant industry experience
• Advanced Server & Desktop GIS
• Automated crime mapping

Incident Continuum

Before Incident Triage Investigation Follow-on...

Intensity

High Low
2013 Marathon Maps

Crime Scene
Main Challenges

- Desktop vs. Laptop vs. Mobile
- Network Access / Security
- Flexibility Required
- Mapping Outside Jurisdictions
- Multi-Jurisdictional Data

Met these challenges with
Common Operating Picture Project
Main COP Goals

Do all of this across multiple agencies, disciplines, & jurisdictions

1. Maintaining Situational Awareness
2. Track threats / suspicious incidents
3. Track resources/assets
4. Enhance event preparation
5. Improve after action review
6. Ensure a secure online infrastructure
Key COP Equation

COMMON OPERATING PICTURE
Data

- Base Layers
  - Route
  - Security Zones
  - Special Points
- CAD
- 311
- Traffic
- Weather
- Human Assets
- Vehicle Assets
- Imagery

- What’s most critical to whom?
- Scale Dependency
- Tailor products for specific users
- Security considerations
Tools Created

http://arcg.is/1euRuEh

• Editing App (WebApp Builder)
• GeoForm
• Operations Dashboard
• ArcGIS iPad App
Sharing Across Jurisdictions

And Across Operational Centers
Other Important Considerations

• Political Capital / Leadership
• Data, Data, Data
• Security Model
• Sharing between Orgs / Groups
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**ArcGIS Online Logistics**

- **Usernames:**
  - first initial + last name_ngps
  - Example: jdoe_ngps
- **Password:** ngps2015
- **Security Question:** What city were you born in?
  - Answer: DC
- All accounts have been assigned to all NGPS groups and all accounts have been verified
- Experience issues logging in? Just let us know!
Scenario

- Redskins are the 2016 Super Bowl champs (yeah right!)
- Victory Parade, Downtown D.C.
- Plan the route
- Prepare for incidents
- Respond to incidents
- Create maps/apps for responders, media, and the public
Plan & Manage a Special Event

- Create Feature Services for:
  - Event area, routes, POI
  - Threat incidents
  - Response assets
  - Vendor locations
- Create maps/applications for:
  - Collecting event incidents
  - Engage the public, see something say something app
  - Public information
  - Situational awareness app
- Operations dashboard (time permitting)
Work Group 1 – Event Prep

- Create a special event service from template
  - Share event service with special event group
- Create an event web map
- Design event area, route, and POI
- Add in Vendor map from Group 4
- Create an app and share the event info with the public
Design and create a point collection service for event incidents
  - Collect several example incidents

Build an operational web map
  - Pull in event service from Group 1
  - Pull in event incident service

Create a basic viewer app
  - Share with event staff group

Build a GeoForm to deploy to call center to enter incidents
  - Share the map for use with Esri Collector app
Create response layers
  - From template, auto refresh
Add in Incident & Special Event services created by Group 1 & 2
Create a web map and share as the Basic Viewer
  - Bring in event info from Group 1
  - Bring in incident layer from Group 2
  - Buffer event area and determine population
Design and create a point collection service for event vendors
  - Location
  - License compliance
  - Setup / Takedown Time
- Create a web map & add in a service
- Create a Geo-Form for field staff to collect vendor locations
- Share the map for use in Collector