A State Perspective: GIS in Emergency Management

NAPSG SAR Workshop
Reston, VA
November 14, 2016
MD Geographic Information Office (GIO)

Who We Are

- State of Maryland, Department of Information Technology
- 9 Full-Time Employees, Including Contractors
- 2 Full-Time Staff Assigned to Maryland Emergency Management Agency (MEMA)

Mission: To improve the quality of GIS services through collective investment and effective application of data and systems. Reach beyond government by making data freely and public available in consideration of privacy and security.
MD Geographic Information Office (GIO)

What We Offer

• MD iMAP Platform – [http://imap.maryland.gov](http://imap.maryland.gov)

- ✔ Service Status Dashboard
- ✔ Data Resource Links
- ✔ Map & Dashboard Galleries
- ✔ GIO Office News and Alerts
- ✔ Initiatives
- ✔ Support
- ✔ Partners
MD Geographic Information Office (GIO)

What We Offer

• GIS Software Enterprise Licenses
MD Emergency Management Agency (MEMA)

What We Offer

- OSPREY – Operational and Situational Preparedness for Responding to an Emergency

✓ Situational Awareness Platform
✓ Managed at MEMA by GIO Staff
✓ 2 Full-Time GIS Staff
✓ Multiple Sources of Data
✓ Real-Time, Authoritative Data

Public
Secure
MD Emergency Management Agency (MEMA)

What We Offer

• OSPREY for the Public
  [http://mema.maryland.gov/Pages/OSPREYlanding.aspx](http://mema.maryland.gov/Pages/OSPREYlanding.aspx)

AVAILABLE PRODUCTS:

- Public
- Dashboard Public
- Power Outages
- Flood Zone Look-Up
MD Emergency Management Agency (MEMA)

What We Offer

• OSPREY Public
  ✓ Traffic Cameras
  ✓ Road Closures
  ✓ Weather Conditions
  ✓ Power Outages
  ✓ Flood Concerns
  ✓ Hospitals & Shelters
  ✓ Share Tool
  ✓ Weather Loop
MD Emergency Management Agency (MEMA)

What We Offer

- Dashboard Public, Power Outages and Flood Zone Look-Up
MD Emergency Management Agency (MEMA)

What We Offer

- OSPREY for First Responders and Emergency Managers
  [http://mema.maryland.gov/Pages/OSPREYsecure.aspx](http://mema.maryland.gov/Pages/OSPREYsecure.aspx)

AVAILABLE PRODUCTS:

- EOC
- WebEOC
- Dashboard EOC
- MD Geo Share
- NCR GDX
- MView CCTV Portal
- Ritis Traffic View
- HC Standard
MD Emergency Management Agency (MEMA)

What We Offer

• OSPREY EOC
  ✓ Common Operating Picture
  ✓ Real-Time Data Feeds
  ✓ Integrated With WebEOC
  ✓ Print, Measure, Draw Tools
  ✓ Mobile Compatible
  ✓Disconnected Environment
  ✓ Add HiFLD and MD iMAP Data On the Fly
  ✓ Account Required
MD Emergency Management Agency (MEMA)

What We Offer

• WebEOC

✓ Incident Management
✓ Operated Out of SEOC
✓ Collaborative Platform
✓ Used by Multiple Local Governments
✓ Integrated With OSPREY
✓ Account Required
MD Emergency Management Agency (MEMA)

What We Offer

- Dashboard EOC
- Quick Situational View
- Review Historic Data
- Maps, Graphs and Tables
- Image and Tabular Data Capture for Reports
- Account Required
MD Geographic Information Office (GIO)

What We Offer

- State of Maryland AGOL Organizations
MD Geographic Information Office (GIO)

What We Offer

- MD Geo Share

- Collaborative Platform
- Share Data During Emergencies
- Local, Regional, State and University Partners
- Damage Collection Tools
- Account Required
MD Emergency Management Agency (MEMA)

What We Offer

• MView CCTV Portal

✓ CCTV Camera Feeds From Organizations in MD and Capital Region
✓ 3,300+ Cameras to Date
✓ Account Required
Regional Partnerships and Universities

What We Offer

• NCR GDX and Ritis Traffic View
MD Geographic Information Office (GIO)

What We Offer

- Partnerships within the GIS Community
  - 37 State Agencies
    - State Police
    - Army National Guard
    - MCAC
    - MIEMSS
    - GOCCP
  - On-Site MEMA Support
  - PSAPs and Emergency Managers For All Counties
State of Maryland

What We Offer

• Maryland’s Open Data Act

✓ Signed Into Law in 2014

✓ Statutes of Law:
  - Establish Council on Open Data
  - Establish Open Data Policies
  - Create & Manage Portals for Open Data Sharing
  - “Data” Encompasses Spatial & Non-Spatial Data
State of Maryland

What We Offer

• Maryland’s Council on Open Data
  http://doit.maryland.gov/opendatacouncil

  ✓ Members: Chair, Vice Chair, 2 Legislators, 23 Cabinet Secretaries and 10 Appointees from the Open Data Community

  ✓ Staffed by GIO Office
State of Maryland

What We Offer

• Maryland’s Council on Open Data Current Initiatives

✓ Improve Open Data Portals Data and Framework Solutions
✓ Make Address Points and LiDAR Available to the Public
✓ Dashboard Development:
  – Help Citizens Analyze Crime Data
  – Help Citizens Explore Maryland’s Operating Budget
MD Geographic Information Office (GIO)

What We Offer

- GIS Data Catalog
  
  [http://data.imap.maryland.gov](http://data.imap.maryland.gov)

  ✓ ArcGIS Open Data Platform
  ✓ Integrates With ArcGIS Tools
  ✓ Authoritative Spatial Data
  ✓ Maps and Tables
  ✓ 650+ Data Layers / Services
  ✓ Downloadable (Excel, Shapefile, KML, GeoJSON, WMS)
MD Geographic Information Office (GIO)

What We Offer

• Open Data Portal
  http://data.maryland.gov

✓ Socrata Cloud Platform
✓ Authoritative Non-Spatial Data
✓ Maps, Graphs and Tables
✓ Print and Embed Tools
✓ 1,500+ Data Layers / Services
✓ Downloadable (CSV, JSON, RDF, RSS, XML)
MD Geographic Information Office (GIO)

What We Offer

• Data Sharing / Data Federation
MD Geographic Information Office (GIO)

What We Offer

- Statewide Imagery Collection Program
  [http://imap.maryland.gov/Pages/imagery.aspx](http://imap.maryland.gov/Pages/imagery.aspx)

  ✓ Six Inch High Resolution Imagery
  - Some Three Inch High Resolution Imagery

  ✓ Managed by GIO on Behalf of
  - MD Emergency Number Systems Board
  - Local PSAPs

  ✓ Searchable (Current and Historic)

  ✓ Downloadable (JPEG, TIFF, GIF, BMP)
MD Geographic Information Office (GIO)

What We Offer

• Statewide LiDAR Centralization Program
  
  [http://imap.maryland.gov/Pages/lidar.aspx](http://imap.maryland.gov/Pages/lidar.aspx)

✓ Collection from 2011 through 2015
✓ Managed by GIO Staff and ESRGC Staff
✓ Downloadable (DEM and Upon Request)
  -  *Point Cloud Download >>> Arriving in 2017!!!*
✓ Derivative Products:
  - DEMs, Slope, Aspect, Hillshade, Shaded Relief
MD Geographic Information Office (GIO)

What We Offer

- Statewide GIS Training Program
  [http://imap.maryland.gov/Pages/training.aspx](http://imap.maryland.gov/Pages/training.aspx)

  ✓ Step-by-Step Written Instructions

  ✓ Classroom Training for Maryland State Employees
    - Beginner and Intermediate AGOL and Desktop Courses
    - MD iMAP Application and Usage Discussed in Each Course
    - *ArcGIS Pro >>> Arriving in 2017!!*

  ✓ Online Training – “**Thinking Spatially**”
Maintaining A Strong Foundation of GIS in Maryland

How Can We Assist You?

• Always Looking for Feedback
  – Open Data Portal Survey
  – Nominate a Dataset
  – Service.Desk@Maryland.Gov
Questions?

Julia Fischer
Geographic Information Officer,
Department of Information Technology
julia.fischer@maryland.gov