doit.maryland.gov

A State Perspective: GIS in Emergency Management

NAPSG SAR Workshop Reston, VA November 14, 2016

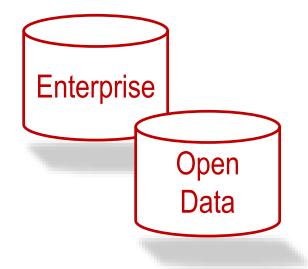


Bepartment of Information Technology

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.





What We Offer

• MD iMAP Platform – <u>http://imap.maryland.gov</u>

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- ✓ Service Status Dashboard
- ✓ Data Resource Links
- ✓ Map & Dashboard Galleries
- ✓ GIO Office News and Alerts
- Initiatives
- ✓ Support
- ✓ Partners



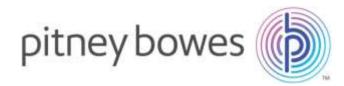
Department of Information Technology

What We Offer

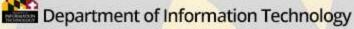
• GIS Software Enterprise Licenses











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





What We Offer

 OSPREY for the Public <u>http://mema.maryland.gov/Pages/OSPREYlanding.aspx</u>

AVAILABLE PRODUCTS:

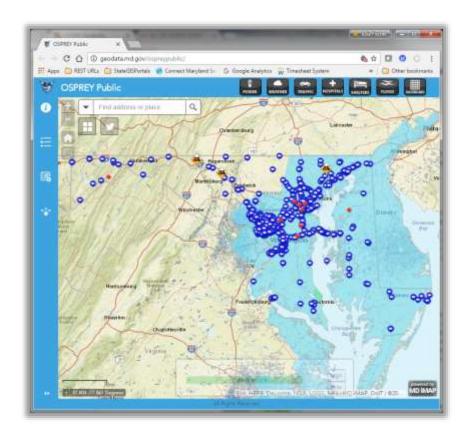
- ✓ Public
- ✓ Dashboard Public
- ✓ Power Outages
- ✓ Flood Zone Look-Up





What We Offer

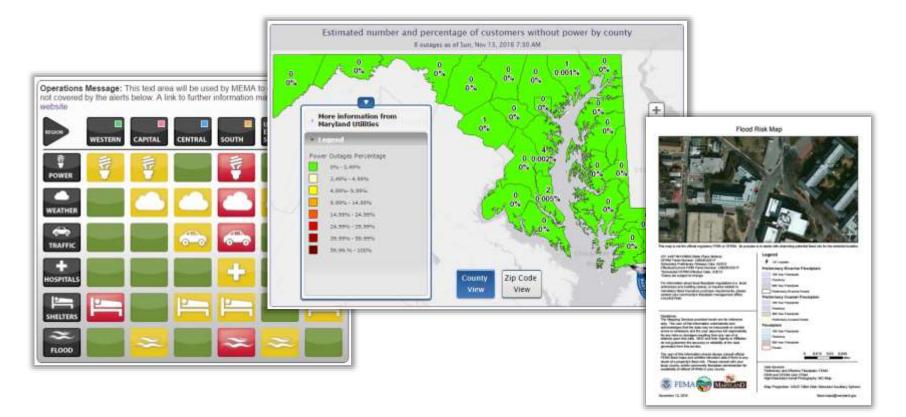
- OSPREY Public
- ✓ Traffic Cameras
- ✓ Road Closures
- ✓ Weather Conditions
- ✓ Power Outages
- ✓ Flood Concerns
- ✓ Hospitals & Shelters
- ✓ Share Tool
- ✓ Weather Loop





What We Offer

• Dashboard Public, Power Outages and Flood Zone Look-Up





What We Offer

 OSPREY for First Responders and Emergency Managers <u>http://mema.maryland.gov/Pages/OSPREYsecure.aspx</u>

AVAILABLE PRODUCTS:

- ✓ EOC
- ✓ WebEOC
- ✓ Dashboard EOC
- ✓ MD Geo Share
- ✓ NCR GDX
- ✓ MView CCTV Portal

- ✓ Ritis Traffic View
- ✓ HC Standard

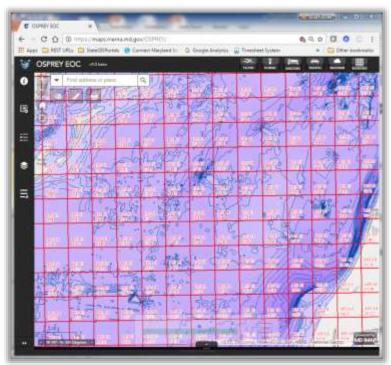




What We Offer

- 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

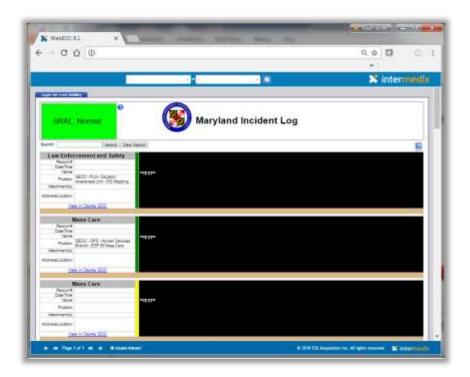




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What We Offer

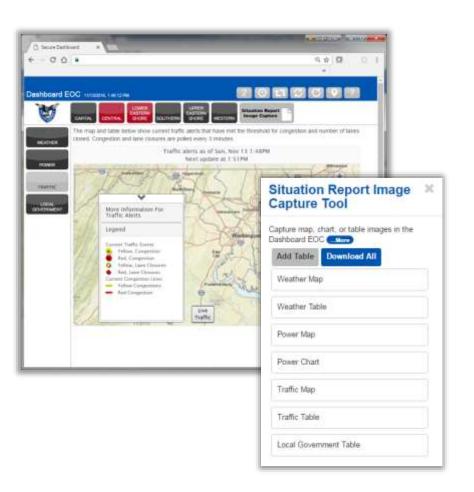
- WebEOC
- ✓ Incident Management
- ✓ Operated Out of SEOC
- ✓ Collaborative Platform
- Used by Multiple Local Governments
- ✓ Integrated With OSPREY
- ✓ Account Required





What We Offer

- Dashboard EOC
- ✓ Quick Situational View
- ✓ Review Historic Data
- $\checkmark\,$ Maps, Graphs and Tables
- Image and Tabular Data Capture for Reports
- ✓ Account Required



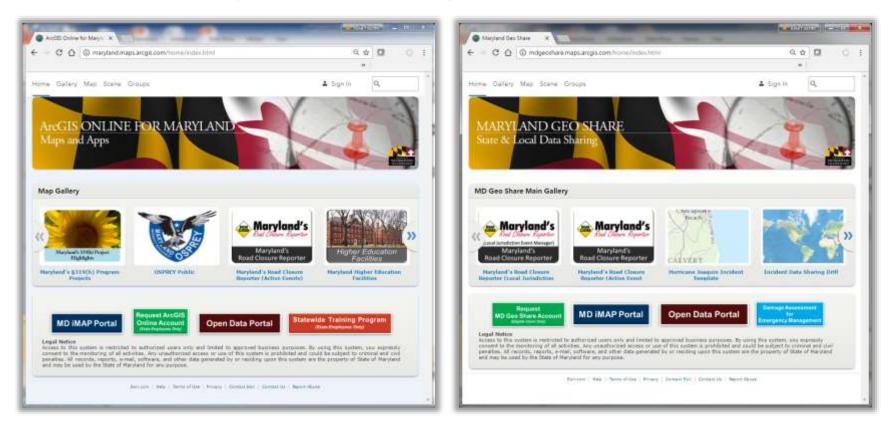
Governor Larry Hogan | Lt Governor Boyd K. Rutherford | Secretary David A. Garcia



Department of Information Technology

What We Offer

• State of Maryland AGOL Organizations

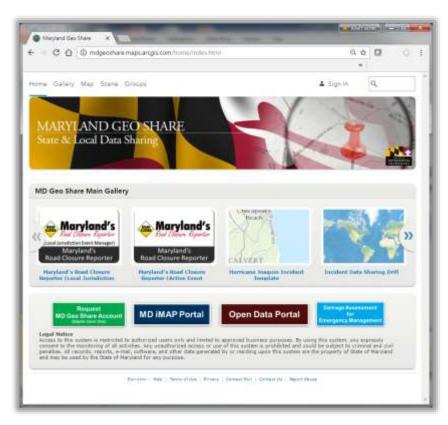




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What We Offer

MD Geo Share



- ✓ Collaborative Platform
- ✓ Share Data During Emergencies
- Local, Regional, State and University Partners
- ✓ Damage Collection Tools

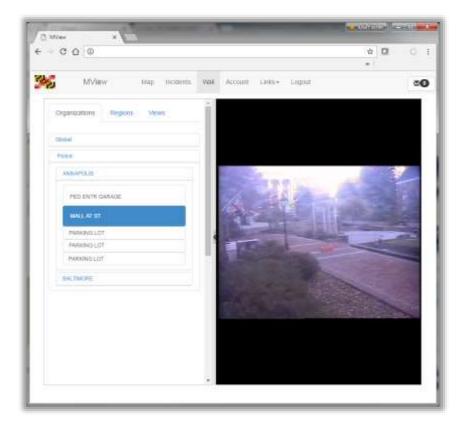
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✓ Account Required

CHANGING Maryland for the Better

What We Offer

MView CCTV Portal



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

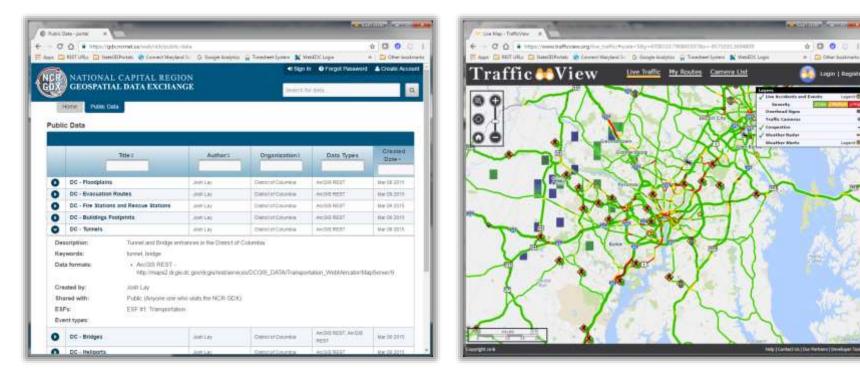


Department of Information Technology

Regional Partnerships and Universities

What We Offer

NCR GDX and Ritis Traffic View

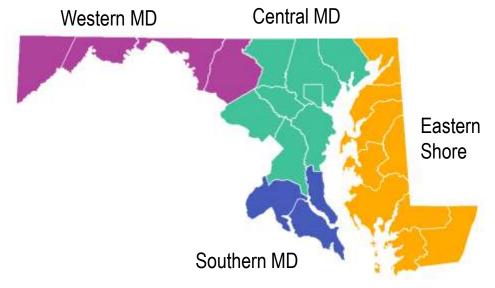




Department of Information Technology

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 <u>http://doit.maryland.gov/opendatacouncil</u>
- 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



What We Offer

- GIS Data Catalog <u>http://data.imap.maryland.gov</u>
- ✓ ArcGIS Open Data Platform
- ✓ Integrates With ArcGIS Tools
- ✓ Authoritative Spatial Data
- ✓ Maps and Tables
- ✓ 650+ Data Layers / Services



✓ Downloadable (Excel, Shapefile, KML, GeoJSON, WMS)



What We Offer

- Open Data Portal <u>http://data.maryland.gov</u>
- ✓ Socrata Cloud Platform
- ✓ Authoritative Non-Spatial Data
- ✓ Maps, Graphs and Tables
- ✓ Print and Embed Tools
- ✓ 1,500+ Data Layers / Services

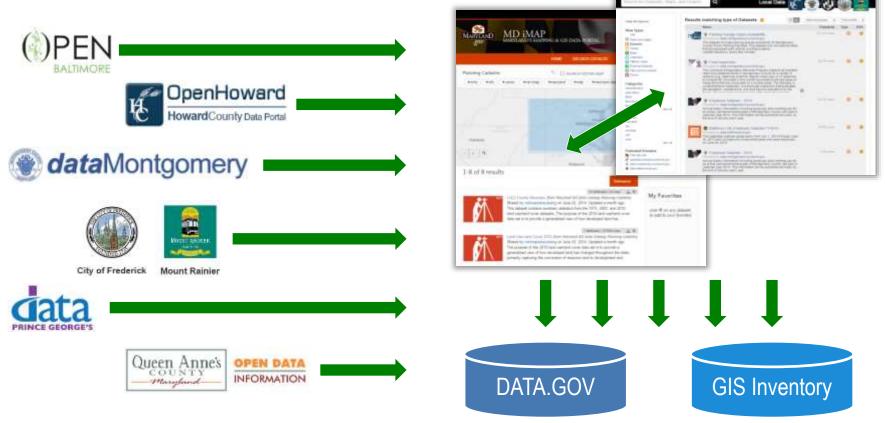


✓ Downloadable (CSV, JSON, RDF, RSS, XML)



What We Offer

Data Sharing / Data Federation





Department of Information Technology

OPEN DATA PORTAL

What We Offer

- Statewide Imagery Collection Program <u>http://imap.maryland.gov/Pages/imagery.aspx</u>
- ✓ Six Inch High Resolution Imagery
 - Some Three Inch High Resolution Imagery
- $\checkmark\,$ Managed by GIO on Behalf of
 - MD Emergency Number Systems Board
 - Local PSAPs
- ✓ Searchable (Current and Historic)
- ✓ Downloadable (JPEG, TIFF, GIF, BMP)

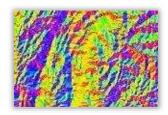


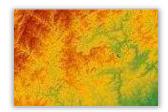


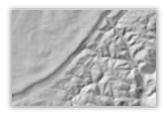


What We Offer

- Statewide LiDAR Centralization Program <u>http://imap.maryland.gov/Pages/lidar.aspx</u>
- ✓ Collection from 2011 through 2015
- ✓ Managed by GIO Staff and ESRGC Staff
- ✓ Downloadable (DEMs and Upon Request)
 - Point Cloud Download >>> Arriving in 2017!!!
- ✓ Derivative Products:
 - DEMs, Slope, Aspect, Hillshade, Shaded Relief









What We Offer

- Statewide GIS Training Program <u>http://imap.maryland.gov/Pages/training.aspx</u>
- ✓ 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 "<u>Thinking Spatially</u>"





Maintaining A Strong Foundation of GIS in Maryland

How Can We Assist You?

- Always Looking for Feedback
 - <u>Open Data Portal Survey</u>
 - <u>Nominate a Dataset</u>
 - <u>Service.Desk@Maryland.Gov</u>



STAFF		AGENCIES	REGIONS	
Julia Fischer (GIO)	9	Economic Development & Education	MSGIC, NSGIC	
Jessie Cahoon	4	Application Development	1	
Joshua Exter	5	Open Data (All Agencies)		
Matt Folley	8	Health & Human Services	Western MD	
Tim Hutchison	2	Emergency Management	1	
Jeyan Jebaraj		Transportation	Central MD	
Lisa Lowe	R	Environment & Energy	Southern MD	
Will Melville	9	Emergency Management	Emergency Managers	
Matt Sokol		Law Enforcement	Eastern Shore MD	



Department of Information Technology

Questions?

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