IT in Maryland

Kenny Miller
Deputy Geographic Information Officer
Department of Information Technology

Major Initiatives

- IT services support
- Network MD
- Web improvements
- Cyber Security/Dual authentication
- Removing silos
- Master IT contracts
- FirstNet – national public safety broadband network for data
- MD First - 700 MHz radio

Mapping Landscape in Maryland

- State Enterprise GIS system – MD iMap
- Public safety
- Emergency Management
- Data sources – live feeds, static data, imagery, etc
  - Collected from many sources – feds, state agencies, local governments, private sector

Data for Emergencies

- Road closures
- Evacuation areas
- Locations of “vulnerable populations”
- Areas without power
- Resource staging areas
- Data comes from on-the-ground, local and data owners
  - Federal, state, local, commercial, . . .

Public Safety Tools

- WebEOC (https://webeoc.mema.maryland.gov/eoc7)
  - Secure version at MEMA
  - Local EOC's have, or can get, accounts
- OSPREY
  - Public version (http://geodata.md.gov/ospreypublic/)
  - Secure version (WebEOC)
- Dashboards
  - OSPREY (http://mema.maryland.gov/Pages/OSPREYdashboard.aspx)
  - Power Outage (http://mema.maryland.gov/Pages/PowerOutagesData.aspx)

Quick Reference

- CyberSecurity
- Interoperability
- IT Bid Board
- Maryland Relay
- OMBN
- SDLC
- Statewide IT Master Plan

IT Communities

- Agency CIO Directory
- County IT Listing
- DoIT Directory
- IT Advisory Council (ITAC)
- Maryland Council on Open Data
- Maryland IT Jobs
- Maryland's Mapping Portal
- NASCIO State Profiles
- Statewide Web Managers (WEBCOM)

What We're Doing...

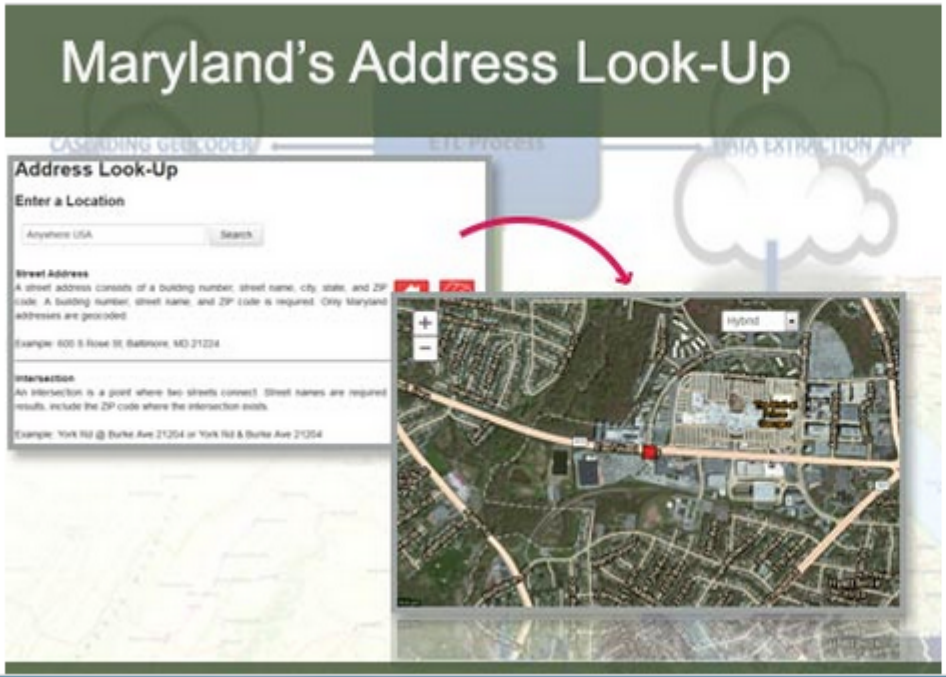
Maryland Funding Accountability & Transparency

efault.aspx#

DoIT's Catalog of S

Kenny
PPT for | GIS Con | Marylar | Forums | Google | Marylar | Google | Marylar
imap.maryland.gov/Pages/default.aspx
Apps | Esri | NSGIC | Esri CCC | Esri ELA | Chaos | TweetDeck | 97.3 KBCO iHeartRa... | ArcGIS Online | Other bookmarks

MD iMAP
Maryland's Mapping & GIS Data Portal



News & Alerts

Quick Link | **Training Documents**
Find instructions on how to apply color infrared symbology to an image service, access an image service via MicroStation, add MD iMAP services to desktop software, geocode, build your first ArcGIS Online application and more...

MD iMAP 2.0 Server Maintenance Schedule
Regular maintenance of the MD iMAP 2.0 servers will occur on the 3rd Tuesday and Wednesday of each month from 7PM to 11PM

Tweets

Follow

New Map Gallery Items from MTA and DHCD | Read more at lnks.gd/2/Lxzr2

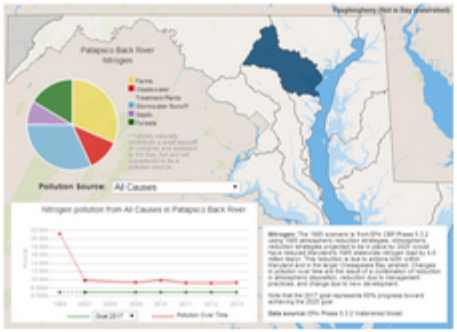
Barney Krucoff @BarneyKrucoff 12 May
SB094 signed. MD geo-data easier to

Maryland Smart Energy Investment Dashboard

This dashboard tracks the Maryland Energy Administration's (MEA) investments and illustrates MEA's contributions to the growth of affordable, reliable, renewable energy and energy efficiency industries in the State of Maryland. Data from this dashboard can be viewed and downloaded from Maryland's Open Data Portal. Developed by ESRGC for the Maryland Energy Administration (MEA) in conjunction with the Maryland Department of Information Technology and Salisbury University.

OSPREY Dashboard Public

This dashboard provides a snapshot of what's going on by Marylandregion. The status of power outages, weather, traffic, hospitals and shelters are displayed color coded in an easy-to-digest table. The automated alerts include power, weather, traffic, hospitals and shelters. A mouse click or tap on an alert box will provide details about the alert(s) and relevant links. This is a public facing application, no password is required. Created by CGIS for the Maryland Emergency Management Agency (MEMA).



BayStat - Causes Map
BayStat - Solutions Map

ESRGC has developed a series of dashboards which allow the public to explore the causes of and solutions to Chesapeake Bay pollution. The Causes Map provides insight into an array of assaults the Chesapeake Bay endures from our actions in the air, water and land. The Solutions Map measures actions and associated goals for reducing pollution, restoring habitats and fostering smarter, greener growth and living in Maryland. Provided by the BayStat Program, a multi-agency initiative.

Data

- Overview
- GIS Data Catalog
- Imagery
- LiDAR
- Data Downloads and Services
- FAQ

Policies and Procedures

- Data Categories
- Data Management Plan
- Data Submission Policy

Quick Links

- How to Access Image Service in MicroStation
- How to Add Web Services in ArcGIS Desktop
- How to Add WFS Services to ArcGIS Desktop
- How to Apply Color Infrared Symbology to an Image Service
- How to Geocode in ArcGIS Desktop
- How to Use the

Data Overview

The Geographic Information Office (GIO) strives to meet the needs of our customers by providing everyone with the best possible data available. Through collaboration with our partners, we have been able to provide access to a large collection of data via MD iMAP that can be leveraged for use in many applications and analyses.

GIS Data Catalog

Quickly search for the latest data and geographic content from Maryland contributors. Use keyword or geographic searches to find and quickly display content. Also download into multiple formats or access via APIs for local use.

Open Data Portal

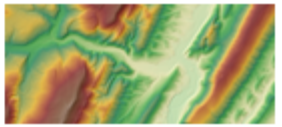
Numerous, additional geographic and non-geographic data sets are available for search. Built-in tools allow for visualization of the data in a table, graph or map format. The Portal is managed by StateStat with contributions from many State agencies.

Imagery

Aerial imagery is essential for giving 9-1-1 dispatchers the proper context in the event of an emergency call. Thanks to a dedicated funding stream from Maryland's Emergency Number Systems Board and support from local governments, publicly accessible aerial imagery for the entire state is available and updated on a three year cycle.

LiDAR

The Maryland LiDAR server has been created to provide open access to statewide elevation information for use in a variety of studies and applications. The Maryland LiDAR server maintains the best available elevation data and provides image services in both county and statewide extents.



Data Downloads and Services

Search an inventory of available spatial and non-spatial data download sites. From these sites users can download or, in some cases, order data. Additional

Composite Locator

- Overview
- Address Look-Up
- Data Sources
- Code

Composite Locator Overview

Thanks to a collaborative effort between State agencies and local jurisdictions, Maryland's Composite Locator was developed to provide a single, robust geocode service for Maryland. The composite locator maps tabular data by matching it against geospatial features from multiple data sources.

The composite aspect of the locator refers to its design to match tabular data with the first in a list of data sources. If a match is not found, the locator then "cascades" down the list of data resources searching each for the best match.

The composite locator can be accessed via Esri's Desktop software or programmatically via the REST endpoint.

Address Look-Up

Web users can access the available address look-up to identify single data locations. Users can compare the matching accuracies of the different data sources.

Data Sources

The composite locator currently boasts eleven (11) data sources which participate in the cascade. They are a combination of local, state and federal datasets. They include address points, mile markers and place names (e.g. - Oriole Park at Camden Yards).

Composite Locator Code

A snippet of code is available as an example of how to incorporate the geocoder service into an application using the JavaScript programming language.

Please contact the GIO Office at gio.doit@maryland.gov for more information.

imap.maryland.gov/Pages/composite-locator-look-up.aspx

Apps | Esri | NSGIC | Esri CCC | Esri ELA | Chaos | TweetDeck | 97.3 KBCO iHeartRa... | ArcGIS Online | Other bookmarks

> Code

Click on a row to see additional details.

Name	Locator	Score
1414 Harmony Ln, Annapolis, Md, 21409		93.2%
1414 Harmony Lane, Annapolis, Md, 21409		89.04%
1414 Harmony Ln, Md, 21409		89.04%

Search Again

Kenny

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mema.maryland.gov/Pages/default.aspx

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MENU

Maryland.gov | Phone Directory | State Agencies | Online Services

MARYLAND.gov

EMERGENCY MANAGEMENT AGENCY

ALL

A Prepared Marylander Creates a Resilient Maryland

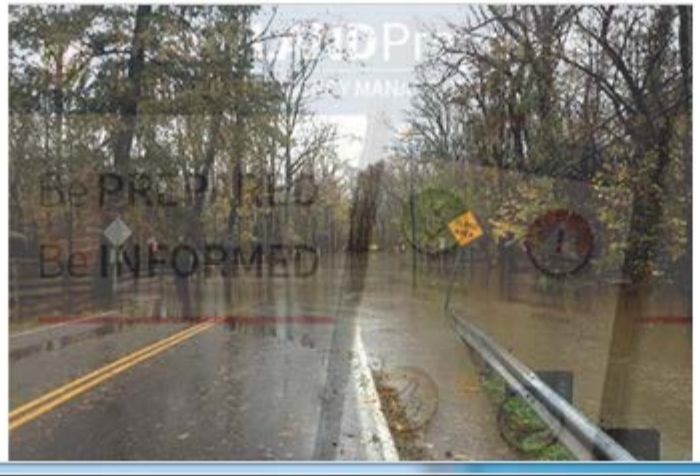
Enter search term

Before

- Weather Information
- Are you in a Flood Prone Area?
- Preparedness Resources for Homeowners
- Preparing for a Flood
- Preparing for Thunder and Lightning
- Download the Maryland Prepares Mobile App

During

Flooding Precautions



News Updates

Maryland Emergency Management Agency

MAY 24-30 is Maryland Hurricane Preparedness Week

Maryland Emergency Management Agency, Partners Prepare for Upcoming Atlantic Hurricane Season

Governor Hogan's Request For Physical Disaster Declaration Approved By U.S. Small Business Administration

mema.maryland.gov/Pages/default.aspx

Apps | Esri | NSGIC | Esri CCC | Esri ELA | Chaos | TweetDeck | 97.3 KBCO iHeartRa... | ArcGIS Online | Other bookmarks

ALERT INFORMATION

- The State Response Activation Levels
- National Terrorism Advisory System
- Emergency Alert System

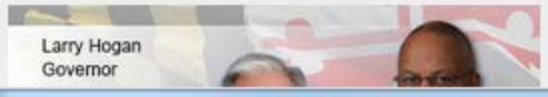
RELATED INFORMATION

- Newsroom
- Weather Center
- Local Emergency Centers
- Training & Exercise Calendar
- Create a Training Account
- Internships with MEMA

MAPPING INFORMATION

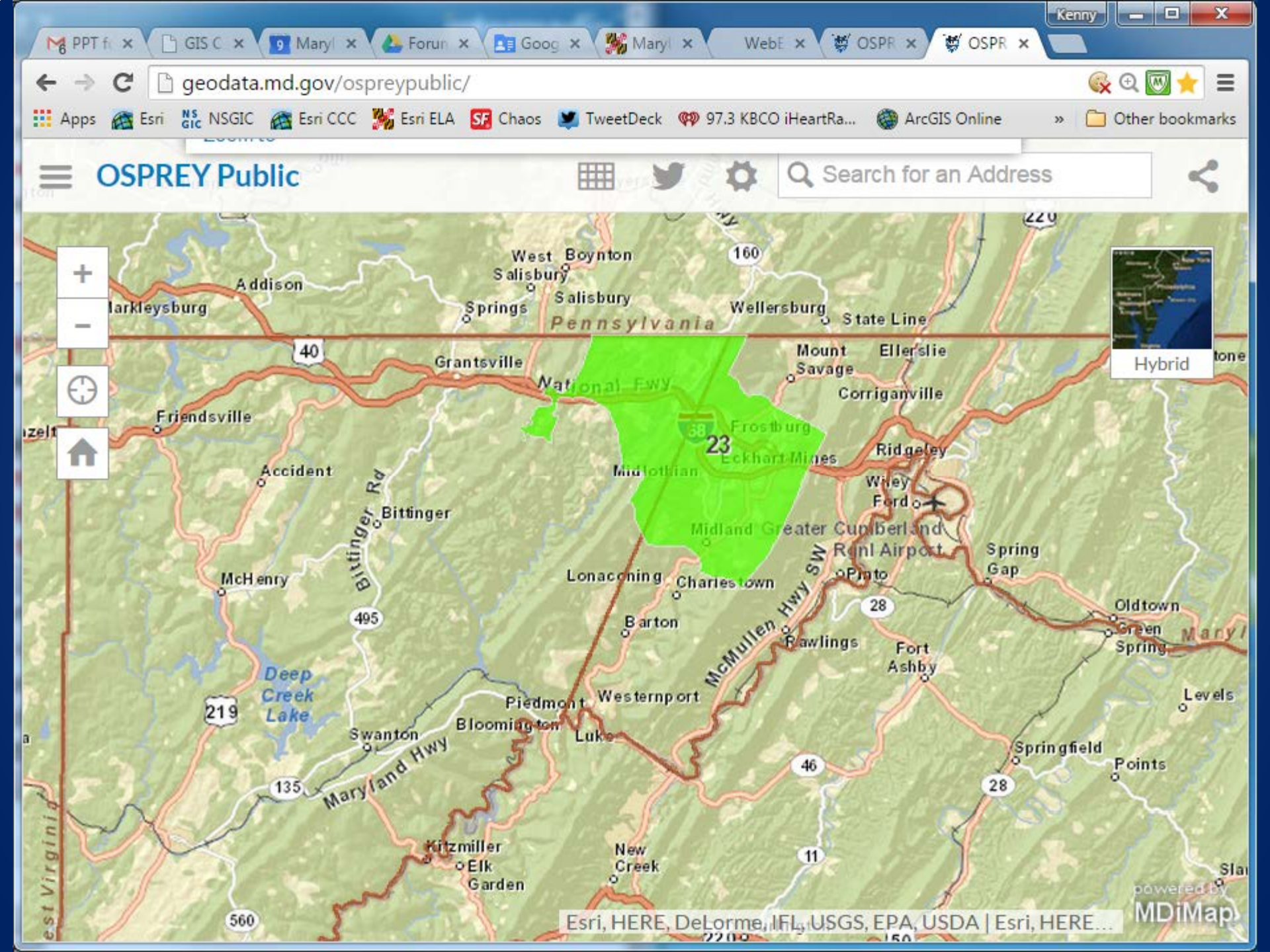
- OSPREY Products
- OSPREY Business
- OSPREY Dashboard
- OSPREY Emergency Map
- Power Outages
- Are you in a Flood Prone Area?

OSPREY Map (Traffic & Power) View Full Map



About MEMA Directions

Executive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Apps
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Esri ELA
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ArcGIS Online
Other bookmarks
OSPREY Public
Search for an Address
Hybrid
West Boynton
Salisbury
Addison
Springs
Salisbury
Wellersburg
State Line
Pennsylvania
160
40
Grantsville
Mount Savage
Ellerslie
Corriganville
Friendsville
Frostburg
Eckhart Mines
Ridgeley
Accident
Bittinger Rd
Bittinger
Midland
Greater Cumberland Rgnl Airport
Wiley Ford
Spring Gap
McHenry
Lonaconing
Charlestown
Pinto
McMullen Hwy SW
28
Oldtown
Green Spring
Barton
Rawlings
Fort Ashby
495
Deep Creek Lake
219
Piedmont
Westernport
Bloomington
Swanton
Maryland Hwy
135
Levels
Springfield
Points
46
28
Kitzmiller
Elk Garden
New Creek
11
560
Esri, HERE, DeLorme, IFL, USGS, EPA, USDA | Esri, HERE...
powered by MDiMap

Kenny

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mema.maryland.gov/Pages/OSPREYdashboard.aspx

Apps | Esri | NSGIC | Esri CCC | Esri ELA | Chaos | TweetDeck | 97.3 KBCO iHeartRa... | ArcGIS Online | Other bookmarks

Updated once a minute: 6/9/2015 3:54 PM

REGION	WESTERN	CAPITAL	CENTRAL	SOUTH	UPPER EASTERN SHORE	LOWER EASTERN SHORE
POWER						
WEATHER						
TRAFFIC						
HOSPITALS						
SHELTERS						
FLOOD						

MARYLAND OSPREY

View the legend

What do the colors mean?

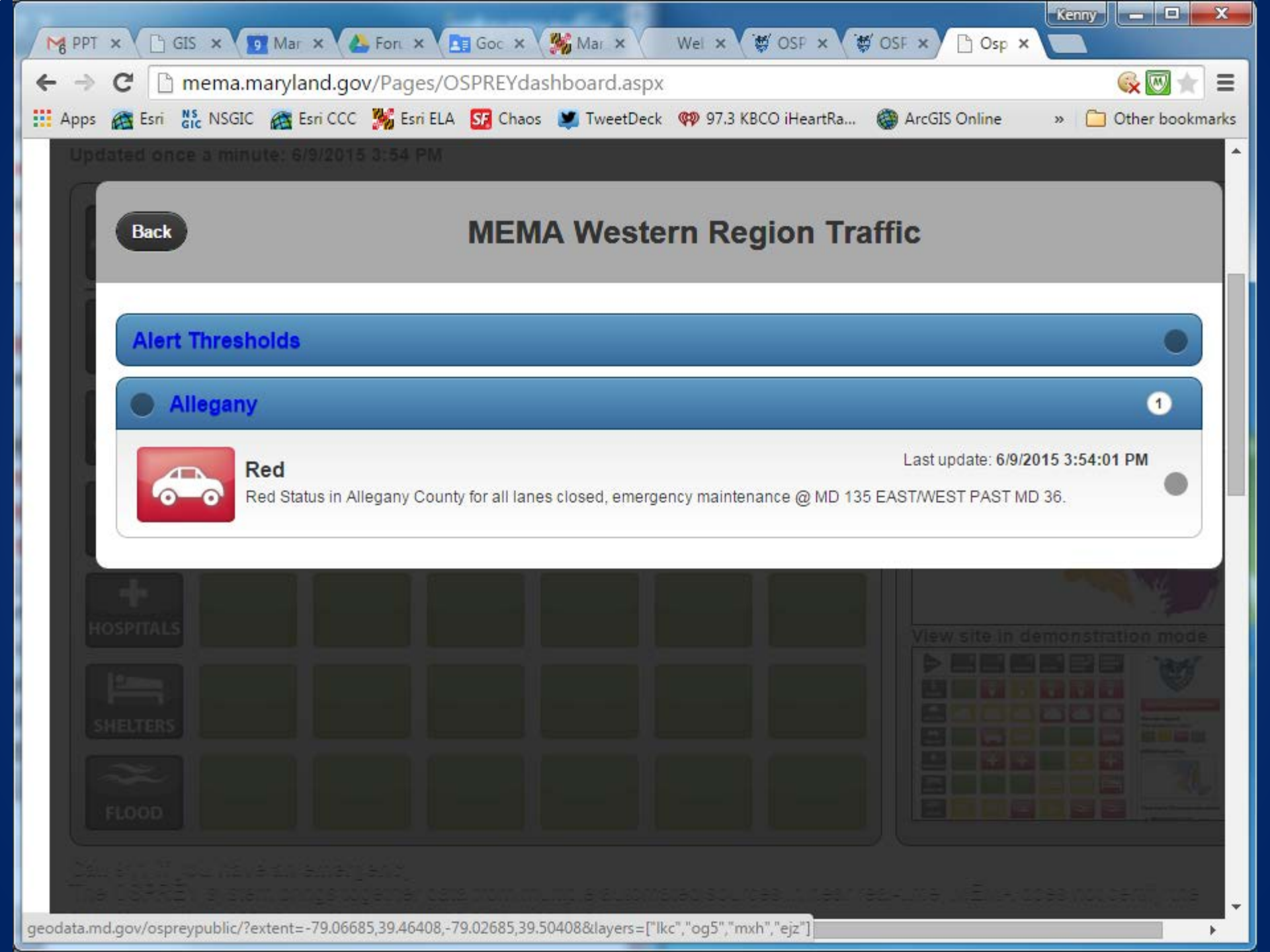
MEMA region map

View site in demonstration mode

Call 911 if you have an emergency

The OSPREY system brings together data from multiple automated sources in near real-time, MEMA does not certify the accuracy, timeliness, or correctness of the data displayed

mema.maryland.gov/Dashboard_v041415/#regionMap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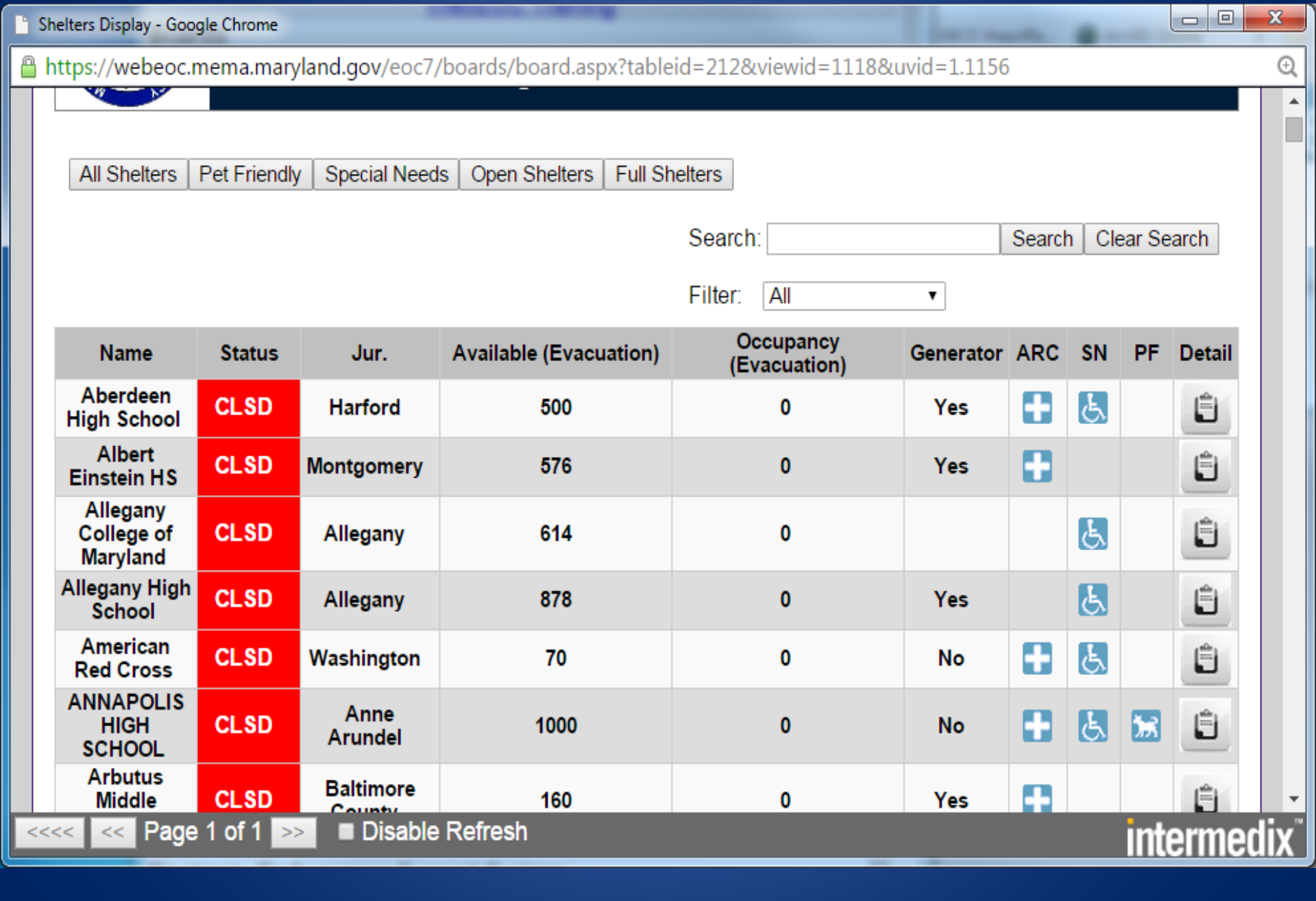
ArcGIS Online
Other bookmarks
Updated once a minute: 6/9/2015 3:54 PM
Back
MEMA Western Region Traffic
Alert Thresholds
Allegany
1
Red
Last update: 6/9/2015 3:54:01 PM
Red Status in Allegany County for all lanes closed, emergency maintenance @ MD 135 EAST/WEST PAST MD 36.
HOSPITALS
SHELTERS
FLOOD
View site in demonstration mode
geodata.md.gov/ospreypublic/?extent=-79.06685,39.46408,-79.02685,39.50408&layers=["lkc","og5","mxh","ejz"]

WebEOC 7.7 - Google Chrome
https://webeoc.mema.maryland.gov/eoc7/controlpanel.aspx?top=21&left=2
WebEOC 7.7
intermedix
Ken.Miller as SEOC - PLN - Situation Awareness Unit - GIS Mapping
Log Off
WebEOC Training
Boards
**Sign In / Sign Out **
After Action Review (AAR)
Archived Situation Reports
Battle Rhythm*
ESF Activation
File Library
GIS Support Requests
Incident Action Plan
Maryland Special Events Calendar*
Press Release and Talking Points
Requests and Tasks
Shelters
Unresolved Issues
User Profile
Boards StateOfMaryland
Event Reporting - Maryland Events
Event Reporting - Position Log
Jurisdiction Situation Status
Menus
Electronic Performance Support System »
NCR Boards »
OSPREY Applications »
Position Specific Videos »
Radiological Emergencies* »


Shelters Display - Google Chrome
https://webeoc.mema.maryland.gov/eoc7/boards/board.aspx?tableid=212&viewid=1118&uvid=1.1156
All Shelters
Pet Friendly
Special Needs
Open Shelters
Full Shelters
Search:
Search
Clear Search
Filter:
All
Name
Status
Jur.
Available (Evacuation)
Occupancy (Evacuation)
Generator
ARC
SN
PF
Detail
Aberdeen High School
CLSD
Harford
500
0
Yes
Albert Einstein HS
CLSD
Montgomery
576
0
Yes
Allegany College of Maryland
CLSD
Allegany
614
0
Allegany High School
CLSD
Allegany
878
0
Yes
American Red Cross
CLSD
Washington
70
0
No
ANNAPOLIS HIGH SCHOOL
CLSD
Anne Arundel
1000
0
No
Arbutus Middle
CLSD
Baltimore
160
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Yes
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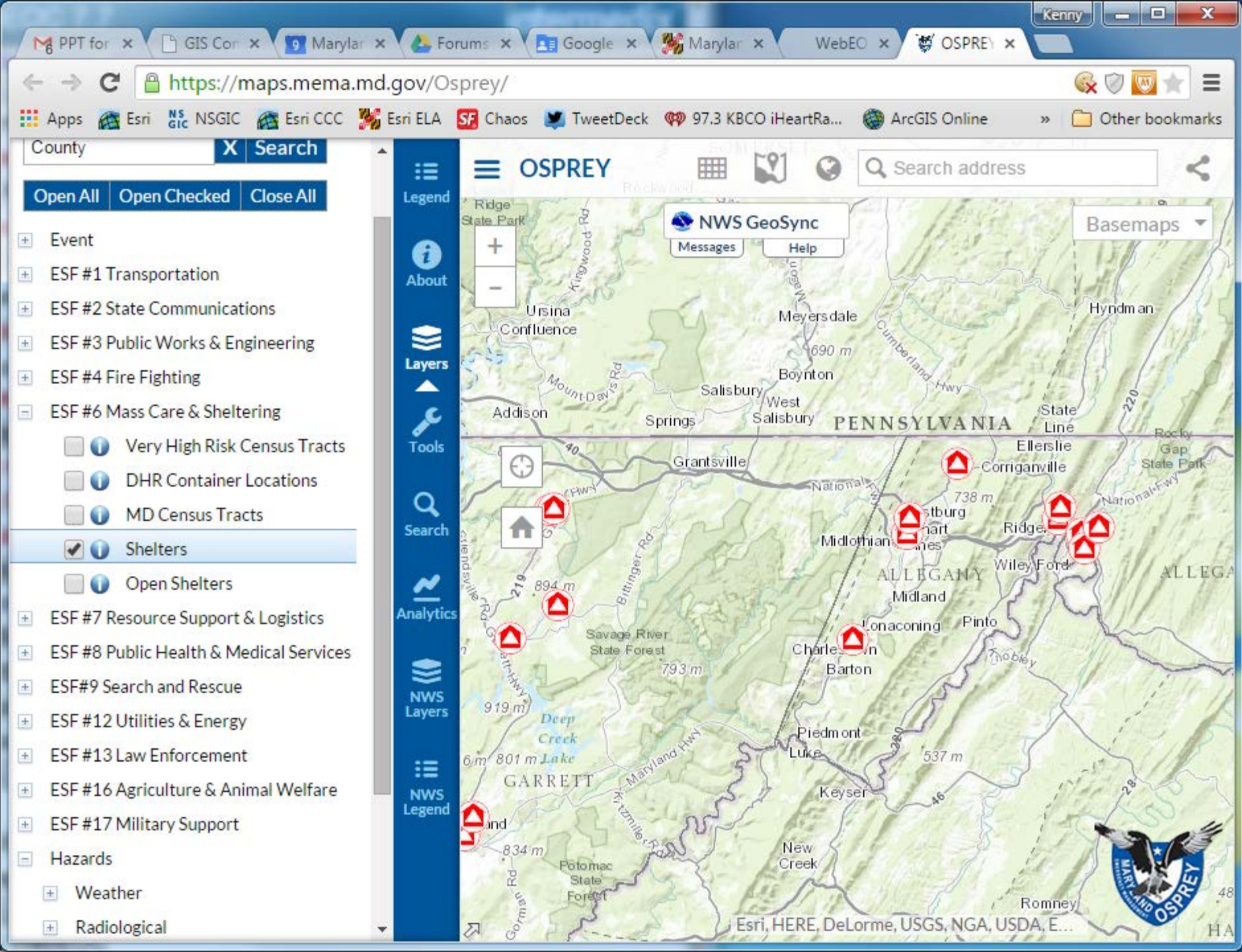
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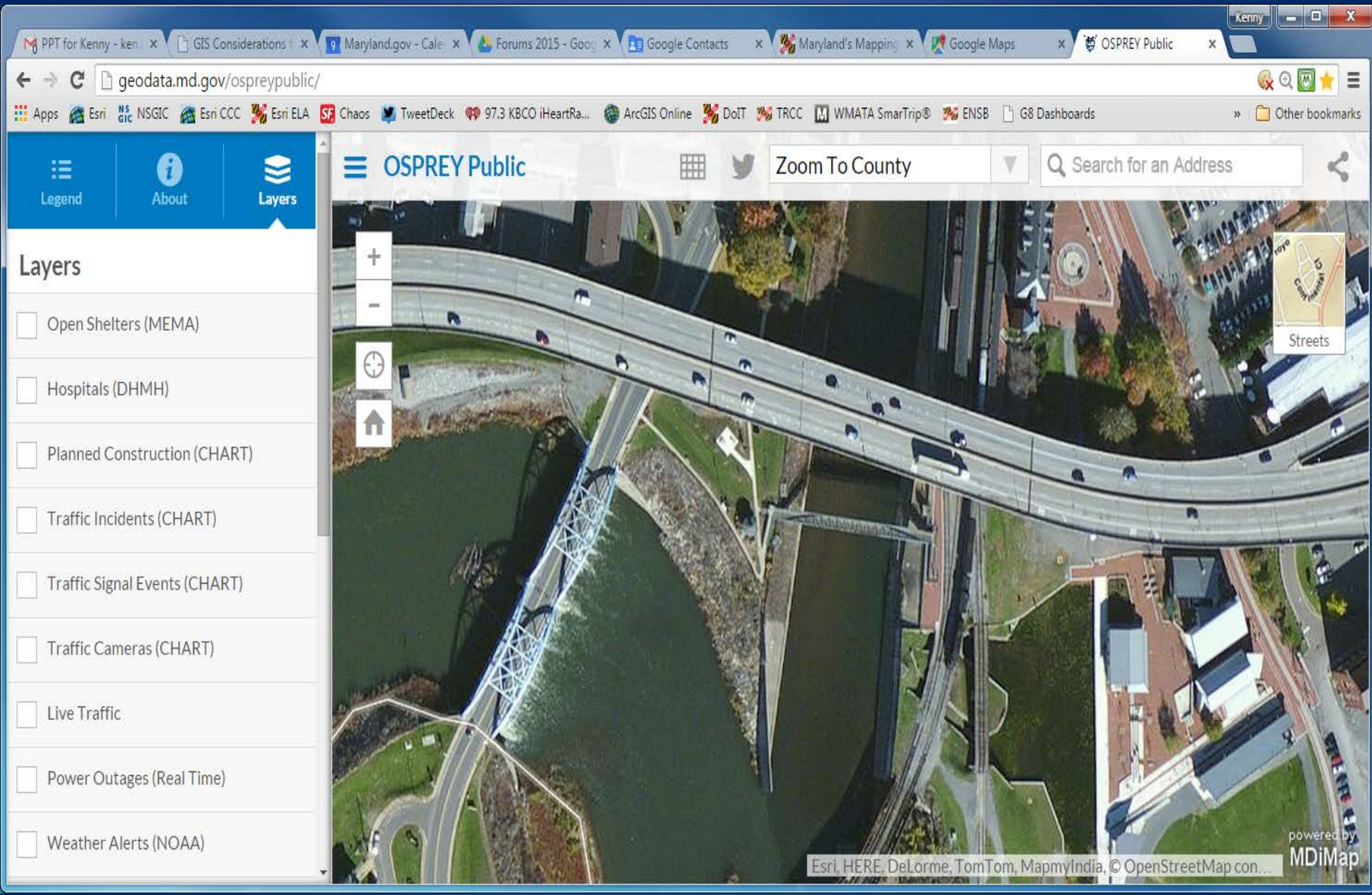
Other bookmarks
County
X
Search
Open All
Open Checked
Close All
Event
ESF #1 Transportation
ESF #2 State Communications
ESF #3 Public Works & Engineering
ESF #4 Fire Fighting
ESF #6 Mass Care & Sheltering
Very High Risk Census Tracts
DHR Container Locations
MD Census Tracts
Shelters
Open Shelters
ESF #7 Resource Support & Logistics
ESF #8 Public Health & Medical Services
ESF#9 Search and Rescue
ESF #12 Utilities & Energy
ESF #13 Law Enforcement
ESF #16 Agriculture & Animal Welfare
ESF #17 Military Support
Hazards
Weather
Radiological
Legend
About
Layers
Tools
Search
Analytics
NWS Layers
NWS Legend
OSPREY
Search address
NWS GeoSync
Messages
Help
Basemaps
Ursina
Confluence
Meyersdale
Hyndman
Boynton
Salisbury
West Salisbury
Addison
Springs
PENNSYLVANIA
State Line
Ellerslie
Corriganville
Grantsville
Midlothian
Ridge
Wiley Ford
ALLEGANY
Midland
Lonaconing
Pinto
Barton
Savage River State Forest
Deep Creek Lake
GARRETT
Piedmont
Luke
Keyser
New Creek
Potomac State Forest
Romney
Esri, HERE, DeLorme, USGS, NGA, USDA, E...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GIS Considerations
Maryland.gov - Cale
Forums 2015 - Goog
Google Contacts
Maryland's Mapping
Google Maps
OSPREY Public
geodata.md.gov/ospreypublic/
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NSGIC
Esri CCC
Esri ELA
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ArcGIS Online
DoIT
TRCC
WMATA SmarTrip®
ENSB
G8 Dashboards
Other bookmarks
Legend
About
Layers
Layers
Open Shelters (MEMA)
Hospitals (DHMH)
Planned Construction (CHART)
Traffic Incidents (CHART)
Traffic Signal Events (CHART)
Traffic Cameras (CHART)
Live Traffic
Power Outages (Real Time)
Weather Alerts (NOAA)
OSPREY Public
Zoom To County
Search for an Address
Streets
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Thanks for Listening

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