**Maryland State Geographic Information Committee**

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# State Updates

Kevin Coyne

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# MDOT State Highway Geospatial Technologies
## GIS Applications

1) Roads and Highway Implementation
   - Working with NG911 community to minimize redundant efforts.
   - Meet with all counties and the City of Baltimore the last two months to provide a project update and schedule moving forward for local integration.
   - Deploying Esri Roads and Highways internal at SHA into production November 2017.

MDOT
MARYLAND DEPARTMENT
OF TRANSPORTATION
STATE HIGHWAY
ADMINISTRATION

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# MDOT State Highway Geospatial Technologies
## ArcGIS Online and Story Maps

1) eRoad Ready

- The Maryland Department of Transportation (MDOT) crews maintain 17,824 lane miles of the state's highways and toll roads.  Use this interactive map to view construction projects near you, view CHART cameras and news releases as well as the Project Life Cycle data.

MARYLAND DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

# MDOT State Highway Geospatial Technologies
## ArcGIS Online and Story Maps

2) Maryland's Freight Story – FY18 Q1

- Easier communication of freight story

- Visualize freight network and proposed network

- Visualize commodities, congestion and reliability

MARYLAND DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

# MDOT State Highway Geospatial Technologies
## Data Management Projects

1) MDOT State Highway is partnering with other transportation business units within MDOT and with DoIT to establish a real property database inventory. SHA is striving to decrease the time it takes to sell excess land.

MARYLAND DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

# MD iMAP 3.0

- Next generation of MD iMAP platform running on Esri's ArcGIS Enterprise 10.5.1
- Promoting authoritative data sharing among State agencies via Portal for ArcGIS
- Centralization of GIS infrastructure within DoIT Enterprise
- Greater level of support to State agency GIS depts.
- Enhanced performance and scalability
- Cost savings
- Coming Q4 2017/Q1 2018

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# GIS SaaS Master Contract

- RFP – Under review - Award expected in December 2017. Purchasing vehicle available to locals

- Three Year Contract with Two 2 Year Options

- Functional Areas
  - FA I: SaaS GIS and Open Data Cloud Services
    - e.g. Cloud-based GIS or Open Data platforms, GIS-based Enterprise Asset Management, Location-based Analytics
  - FA II: SaaS GIS Data Services/Subscriptions
    - e.g. Data Feeds for Weather, Traffic, Imagery, 3D, Demographic Data, Business Data
  - FA III: SaaS Training and Support related to FA I or II purchases

**Department of INFORMATION TECHNOLOGY**

# Statewide Imagery Program

## Western Shore Imagery Project 2017

- *Acquisition Completed*

- *Aerotriangulation Completed*

- *Pilot Area Review Completed*

- Ortho processing to be completed by 11/27

- Independent QA/QC to be completed by 12/11
  - Baltimore, Baltimore City, Carroll, Harford – QA Complete, Corrections Underway
  - Anne Arundel, Howard, Montgomery, Prince George's – QA in Progress

- Delivery of all counties expected to DoIT by December

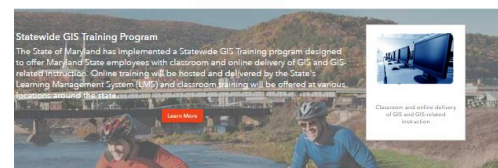http://imap.maryland.gov/Pages/imagery-status.aspx

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# Statewide Training Program

- In-Person Courses
    - Thinking Spatially – [Available Online!](#)
    - Intro to ArcGIS Desktop and MD iMAP
    - Intermediate ArcGIS Online and MD iMAP
- **Transitioning to ArcGIS Pro course now available!**
- 37 state agencies and 25 local governments represented
- Calendar of trainings and seats available on [MD iMAP Portal](#)

*Contact Lisa Lowe (DoIT) – [lisa.lowe@maryland.gov](mailto:lisa.lowe@maryland.gov) for info*

Department of INFORMATION TECHNOLOGY

# MD iMAP LiDAR Downloads

- DEM Downloads
  - Via Dropbox
  - Include metadata, overview pyramids, and bare earth DEMs
  - Downloads by County

- Point Cloud Downloads
  - Via LiDAR Download Tool – *Now Available*
  - Via Dropbox - LAZ files by county – *Now Available*

- Topography Viewer Updated
  - Added LAZ Block Download Grid with links to Dropbox downloads
  - Links to LiDAR & DEM metadata
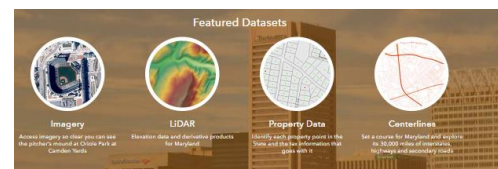  - Open Street Map now available as basemap layer

*LiDAR –* *http://imap.maryland.gov/Pages/lidar-download.aspx*

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# GIS Data Catalog

- New Look, Feel, and Experience

- Feature Datasets, Maps & Apps, Training, Open Data Initiatives

- Geo Hubs Coming Soon
  - Promote data and apps of Government agencies
  - Federate with local Geospatial Open Data
  - Initiative specific pages



*http://data.imap.maryland.gov*

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# Open Data Portal

- Search for, Share, and Download data in a variety of formats

- Comment on datasets and submit requests for new datasets

- Featured Datasets
    - Data Freshness Report
    - Real Property Assessments

- Federated with local jurisdictions open data portals

- Provide local jurisdictions with less than 100,000 people with your own open data site

- Links to GIS Data Catalog datasets

*https://data.maryland.gov*

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# MD iMAP – New Applications

http://imap.maryland.gov/Pages/map-gallery.aspx

- Environment

  – Maryland's Tier II Waters Story Map (MDE)

  – Integrated Report (IR) Water Quality Assessments (MDE)

  – Total Maximum Daily Load (TMDL) Maps (MDE)

  – Total Maximum Daily Load (TMDL) Watershed Maps (MDE)

- Growth, Planning, and Revitalization

  – Maryland FY18 Enacted Capital Budget Map (DoIT/DBM/MDOT)

- Health and Human Services

  – Maryland Radon Data (MDH)

- Transportation

  – e-Road Ready Projects 2017 (SHA)

# MD iMAP – New & Updated Data

- *Property Data – Updated Property Points, Parcel Boundaries, Tax Maps*
- *MDOT SHA Maintenance Shop Facilities – New!*
- *MTA Bus Lines – Updated with new routes*
- *MTA Bus Stops – Updated with new stops*
- *MVA Facilities – MVA and VEIP locations now updated with additional available kiosk and licensing services*
- *RISE Zones– Updated!*
- *Enterprise Zones – Updated!*
- *Sustainable Communities – Updated!*
- *Six Inch Imagery – Cached Map Service now includes 2016 Eastern Shore imagery*
- *Farmers Markets – New!*
- *Environmental Trust Easements  - Updated!*
- *High Resolution Land Cover – New! Developed by the Chesapeake Conservancy*

- *Water Quality – Updated with 2016 Tier II Data*
- *Archived Water Quality – 2012 Tier II Data*
- *Election Boundaries – Updated with State and US Government Representatives & Senators*
- *Inventory of Historic Properties – Updated!*
- *National Register of Historic Places – Updated!*
- *Preservation Easements  - Updated!*
- *Heritage Areas – Updated!*
- *BHRP Opportunity Designations – New!*
- *Baltimore County Opportunity Areas – New!*
- *Roadway Mile Markers  - New!*
- *Roadway Posted Speed Limits – New!*
- *Road Interchange Exits – New!*
- *Road Centerlines – Updated!*
- *Police – Updated!*

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# MD iMAP – Stay Updated & Involved



**Status Dashboard**
- Operational Status of Popular Services
- Report an Issue

**Twitter**
- @MDiMAP

**Subscribe**
- Email Notifications, Tech Committee Meeting

## New MD iMAP Portal website coming soon...