



MD iMAP UPDATES

MSGIC Quarterly Meeting | Denton, MD | April 23, 2014

PORTAL REDESIGN

REDESIGN OF EXISTING PORTAL WEBSITE

- imap.maryland.gov is Getting a New Look & Feel
- Topics are Being Reorganized
- Additional Topics are Being Added
- Navigation Within the Website Is Being Upgraded
- Updated Content Is Being Assembled
- Additional Graphics & Images Are Being Included

PORTAL REDESIGN

MARYLAND.gov

MDiMAP
MARYLAND'S MAPPING & GIS DATA PORTAL

Enter search term

HOME

MAP GALLERY

DATA

PARTNERS

INITIATIVES

INNOVATE

MD iMap

Statewide Stretched Digital Elevation Model (DEM)

INTRO

MAP

LEGEND

Next map: Trail Atlas

Announcements/News

ArcGIS 10.2.1 Now Available
Go to Software tab Q&A "Where Do I Get Software From?" for details.

6" Eastern Shore imagery collection complete
Find new imagery in MD.State.GlncImagery map service

More Announcements >>

Tweets

MSGIC @MSGIC_MD
Check out our newest blog post on the MD Orthoimagery Program by Jim Cannistra (bit.ly/1feVbJg)
t1 Retweeted by MD iMap

MD iMap @MDiMap
NPR did a great tribute to Roger Tomlinson, the father of GIS, in a recent piece. Check it out at n.pr/1IP2Owf
Show Summary

MD iMap
Tweet to @MDiMap

Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor

do it

GIO Office

Dedicated to improving the quality of GIS data and services in Maryland.

Support

Answers to your licensing, software and training questions.

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LiDAR

LIDAR Overview

Topography Viewer

Statewide Services

County Services

LIDAR FAQs

Statewide Services

Aspect

Aspect identifies slope direction, in compass degrees, where 0 = north and 180 = south. Aspect determines how much sunlight will strike the earth's surface. This has important impacts on ecology, animal and vegetative habitats soil moisture and many other biological and physical landscape characteristics.

Color Stretched

Color stretched visualizations offer a more dynamic and traditional view of the DEMs by applying a color ramp to the elevation values.

Digital Elevation Model

A digital elevation model, or DEM, is a raster representation of the earth's surface created from LiDAR elevation data. The most common type of DEM is bare earth in which above ground objects, like trees and buildings, have been removed. DEMs are utilized for a variety of purposes including hydrology modeling and viewshed analysis.

Hillshade

Hillshade is used to determine the illumination of the earth's surface. It can be used in analysis to understand the time and intensity of the sun at a given location or for graphical display purposes to enhance the relief of a surface.

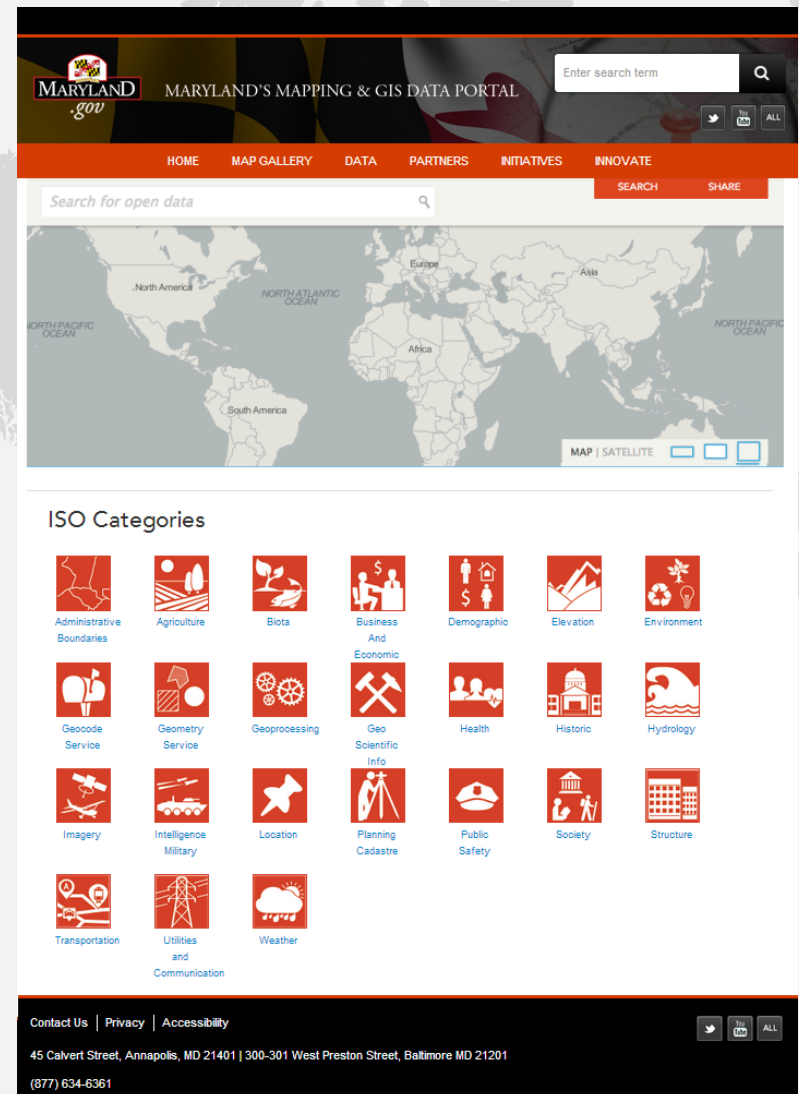
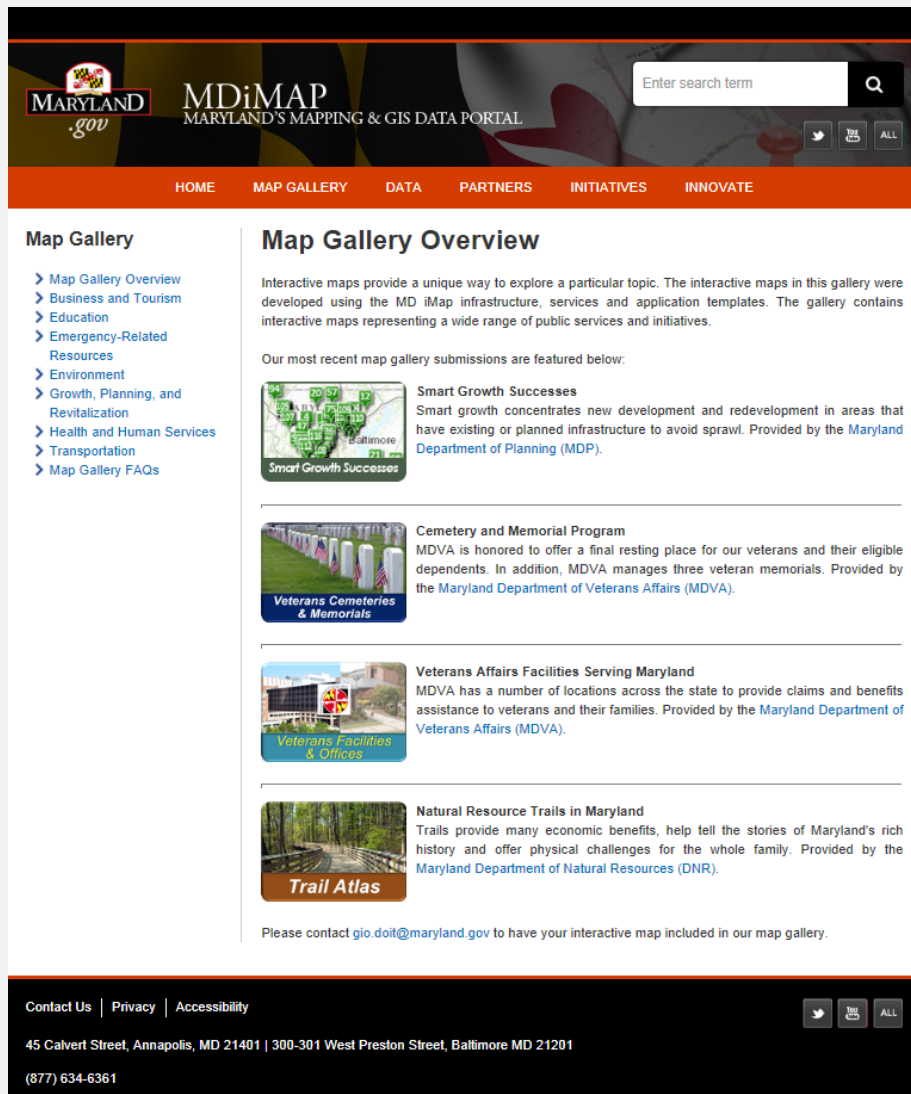
Slope

Slope identifies the inclination of the earth's surface. The degree or percent of a slope is an important factor when analyzing slope stability, transportation, agriculture, recreation, etc. Slope can be used alone or in conjunction with other layers for various site suitability analysis.

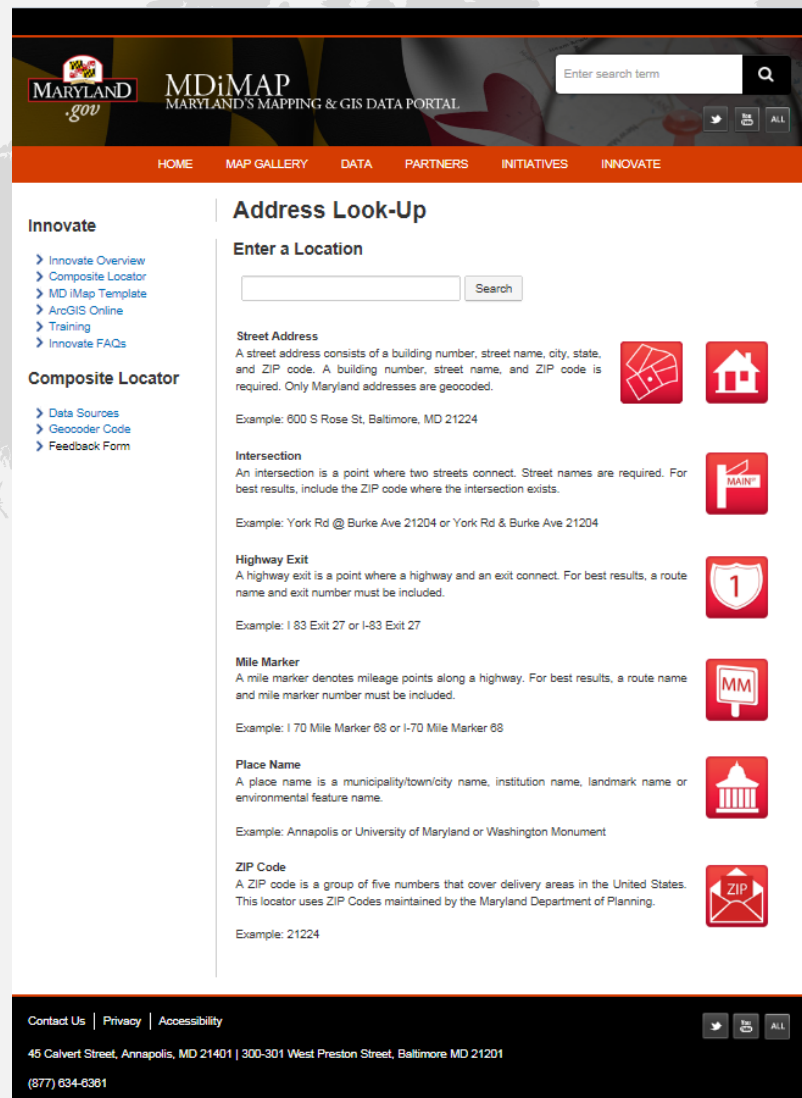
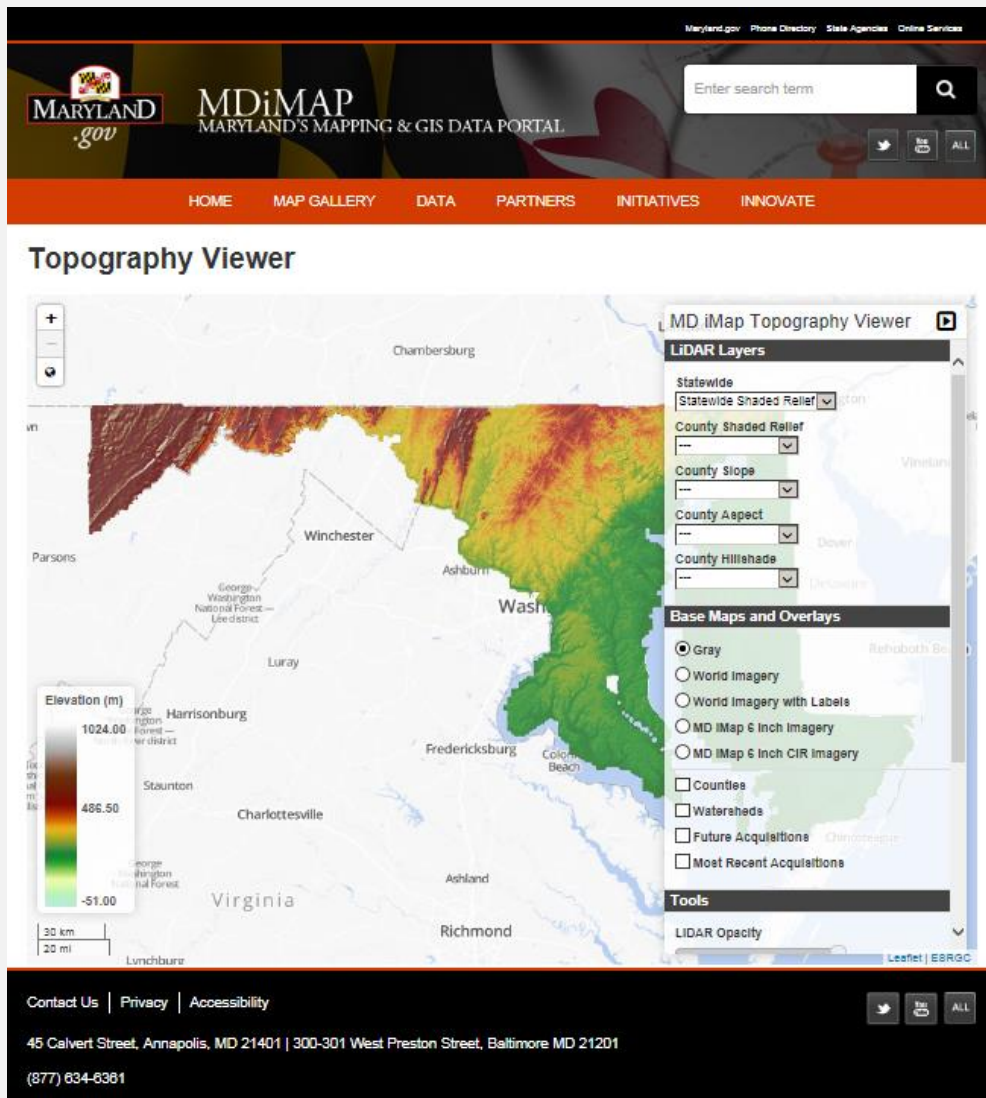
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PORTAL REDESIGN



PORTAL REDESIGN



PORTAL REDESIGN



Data

- Data Overview
- GIS Data Catalog Search
- UGAR
- GIS Data Download Sites
- Policies and Procedures
- Data FAQs

Imagery Examples

The examples below compare the base products from Maryland's digital high-resolution aerial imagery program (Left Column) with the National Agriculture Imagery Program (NAIP) 1 meter spatial resolution product (Right Column). The examples were captured at 1:1,000 scale.

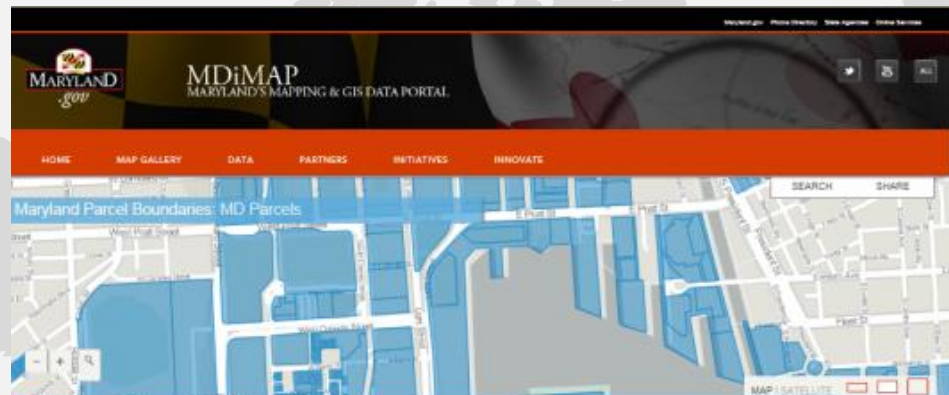


Please contact gio.doit@maryland.gov for more information.

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DETAILS TABLE DOWNLOAD SUBSCRIBE

This is a MDiMap hosted service. Find more information at <http://imap.maryland.gov>. This map service represents property parcels for the counties in Maryland. Map Service Link: <http://mdimap.us/catalogs/real/services/PlanningCadastral/MD/State/ParcelBoundaries/MapServer>

Account ID

Text

SDAT URL

Text

Shape

Shape area

Number

Shape len

Number

OBJECTID

Number

1000



Maryland GIS Data Catalog: Planning Cadastre

CREATED BY [mdimapdatacatalog](#) on December 23, 2013
UPDATED a month ago
LICENSED This service, or any portion thereof, can be freely...
SOURCE <http://mdimap.us/catalogs/real/services/PlanningCadastral/MD/State/ParcelBoundaries/MapServer>
METADATA <https://www.srs.org/online/item.html?itemID=303>
TAGS MDiMap, Maryland, MD, Vector, Cadastre, PlanningCadastral, Parcels, Property Parcels, MDP, Maryland Department of Planning, MDiMap, PLAN, Planning Cadastre

Related Data



Maryland Political Boundaries: County Boundaries



Maryland Political Boundaries: 2011 MD Congressional Districts



Maryland Political Boundaries: 2012 MD Legislative Districts

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MD iMAP 2.0

REDESIGNING AN ENTERPRISE GIS

- An Enterprise Statewide Mapping System That...
 - ... is Highly Available
 - ... has Enhanced Performance
 - ... has New Capabilities
 - ... has Authoritative Data
 - ... is Scalable

MD iMAP 2.0

REDESIGNING AN ENTERPRISE GIS

Current MD iMap

- ArcGIS Server 10.0
- Physical Servers
- 250+ Map Services
- SDE Performance
- No Clustering Available
- Limited Disaster Recovery

MD iMap 2.0

- ArcGIS Server 10.2.x
- Virtual Servers
- 100+ Map Services
- File GDB Performance
- Clustered GIS Servers
- Full Disaster Recovery

MD iMAP 2.0

DATA MIGRATION

- Use Migration to Examine Current Data Structure
- Issues We Faced:
 - Duplicate Data
 - Agencies Submitting Same Data with Slightly Different Attributes & Symbology
 - Attributes with Cryptic Names & No Definition in Metadata

MD iMAP 2.0

DATA MIGRATION

- Reorganize Data & Services
- Remove Duplicates
 - Public Side
 - Cleaned Data With Attributes Public Would Want to See
 - User-Friendly Aliases for Field Names
 - Non-Public Side
 - Contains Application-Specific Services
- All Data to Have Complete Metadata

TEMPLATE

- New Developer – John Bocan (MES)
- Updates Include:
 - ArcGIS JavaScript 3.8
 - Added Query Toolset
 - Added Ability to Download .csv
 - Added Measure Tools
 - Added Some Drawing Tools
 - Added Zoom to County Function
- New Release Shared on [github](#) and AGOL
- Contact john.bocan@maryland.gov with Questions

QUESTIONS

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