MSGIC Fall 2021 Quarterly Meeting

Presentation: State Caucus Update

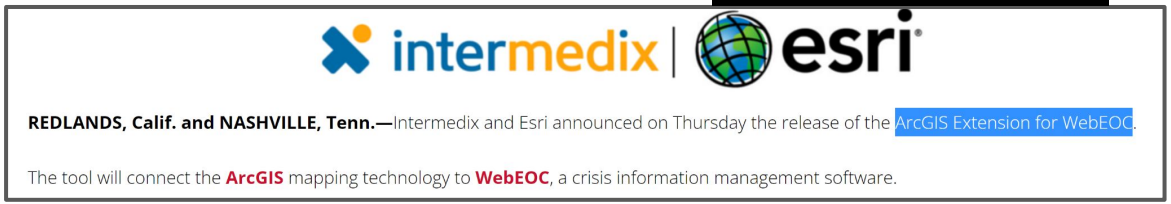
J.B. Churchill & John Lesko (co-chairs)

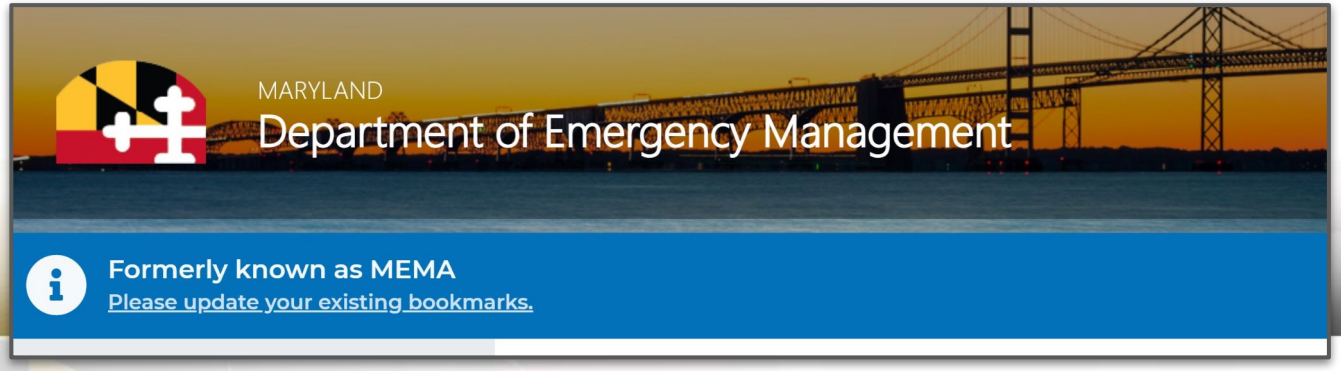
Maryland Department of Emergency Management - (MDEM)

https://www.juvare.com/news/webeoc-connects-with-arcgis-to-save-lives-0/

Recently Purchased the ArcGIS Extension for WebEOC

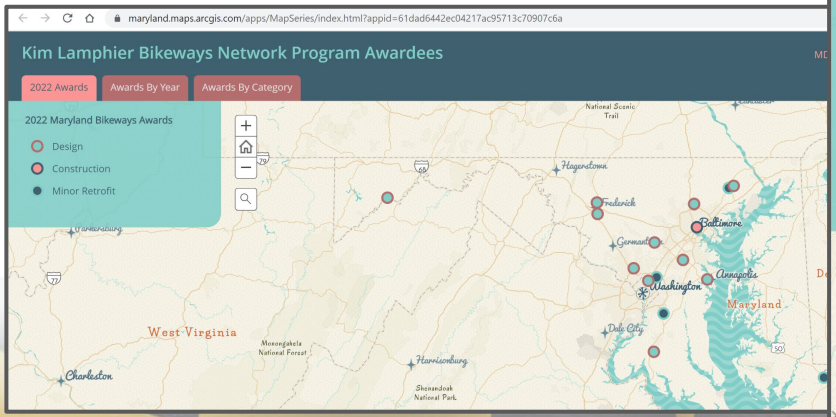
https://news.maryland.gov/mema/2021/

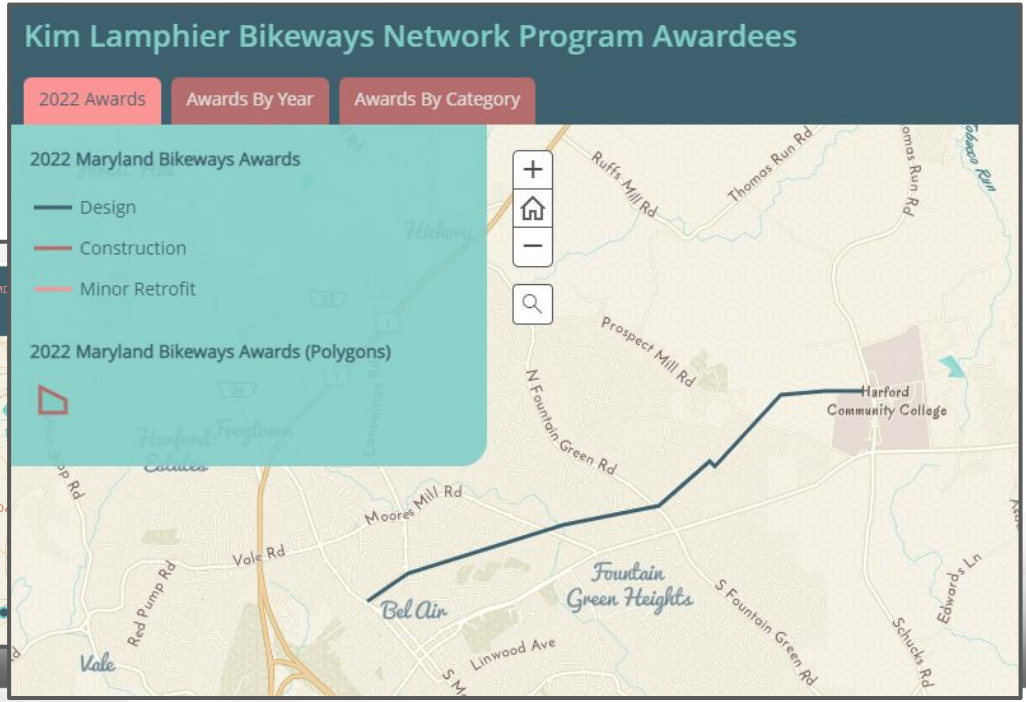




Maryland Dept. of Transportation / State Highway Administration

- **2022 Kim Lamphier Bikeways Award Winners (updates to - Bikeways Map)**
  http://bit.ly/MD_Bikeways





Maryland Dept. of Transportation / State Highway Administration

Mapping Updates:

- **State Rail Plan**
- **State Freight Plan**

Maryland Dept. of Transportation / State Highway Administration

Updates from The Secretaries Office (TSO)
Strategic Blueprint Initiative
Goal - *To Manage and analyze asset data across the Department.*

- Use GIS to assess (visually and analytically)
- Reporting centered on: *pavement, structures, facilities, rail, vehicles/equipment, Major IT Systems, and tunnels.*
- Incorporation of MDE reporting

Maryland Dept. of Transportation / State Highway Administration

Updates from The Secretaries Office (TSO)
Strategic Blueprint Initiative
Goal - *To Manage and analyze asset data across the Department.*

1. **Centralized View of Asset Data**
2. **Geographic View and Analysis**
3. **Better Search**
4. **Collaboration & Communication**
5. **Standardization**

Maryland Department of Planning (MDP)

- **Statewide Building Permit Dashboard**
- **Involved in Redistricting & regular updates**
- **25 year Anniversary of MDProperty View**

Property Map Products

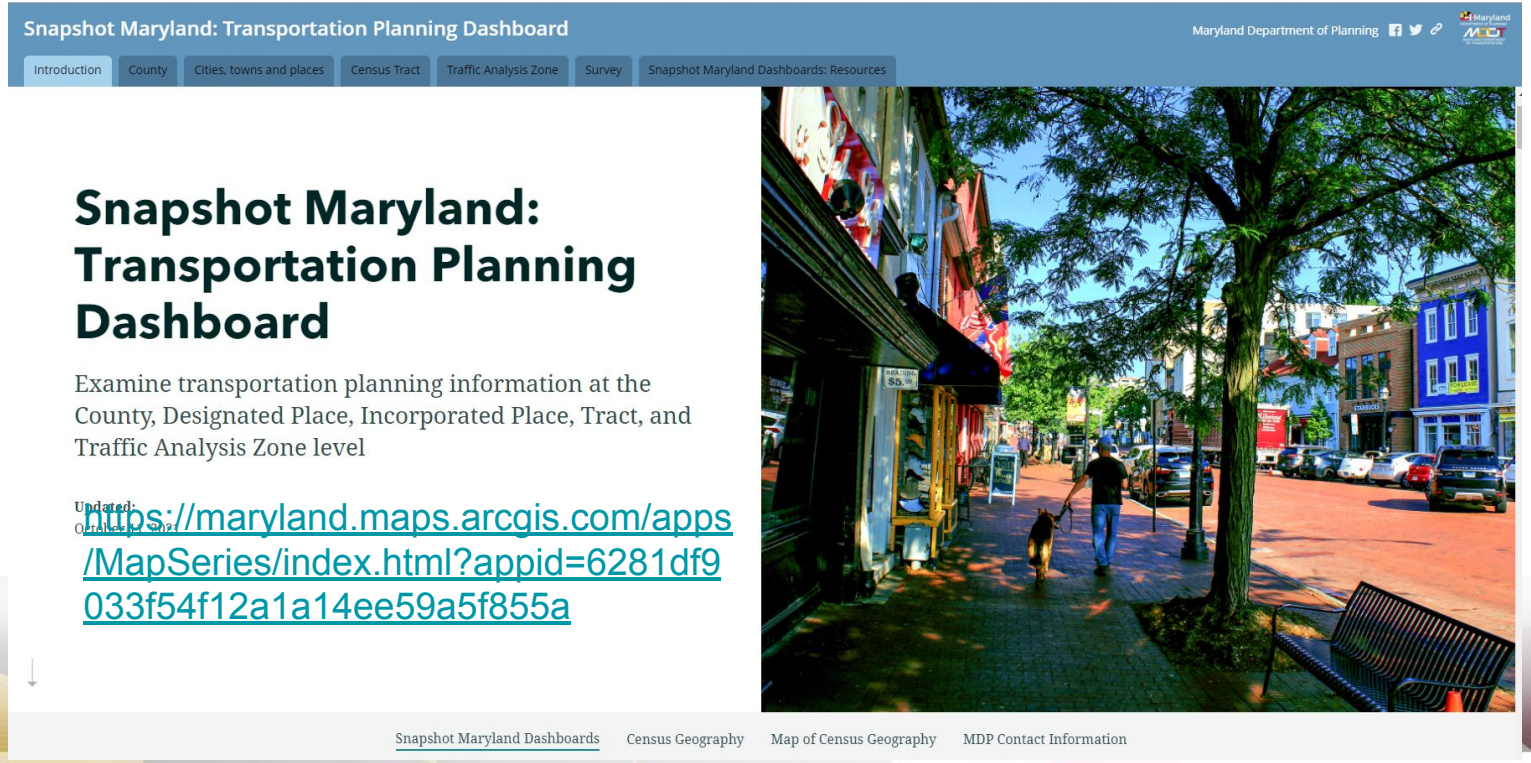
MdProperty View *Advanced Desktop GIS to use with ESRI's ArcGIS Software*

MdProperty View

MdProperty View is a visually accessible dataset that allows you to interact with a jurisdiction's tax maps and parcel information and a variety of additional map and data layers using the advanced features of ESRI's latest geographic information systems (GIS) software, ArcGIS®. Easy-to-use search tools help you zoom in to your area of interest on a property map and display a parcel record of interest.

Tax maps, also known as assessments, property or parcel maps, are a graphic representation of real property showing and defining individual property boundaries in relationship to contiguous real property. The primary purpose of these maps is to help State tax assessors locate properties for assessments and taxation purposes. Tax maps are also used by federal, State and local government agencies as well as private sector firms for a variety of analyses and decision making processes.

Snapshot Maryland: Transportation Planning Dashboard



Snapshot Maryland: Transportation Planning Dashboard

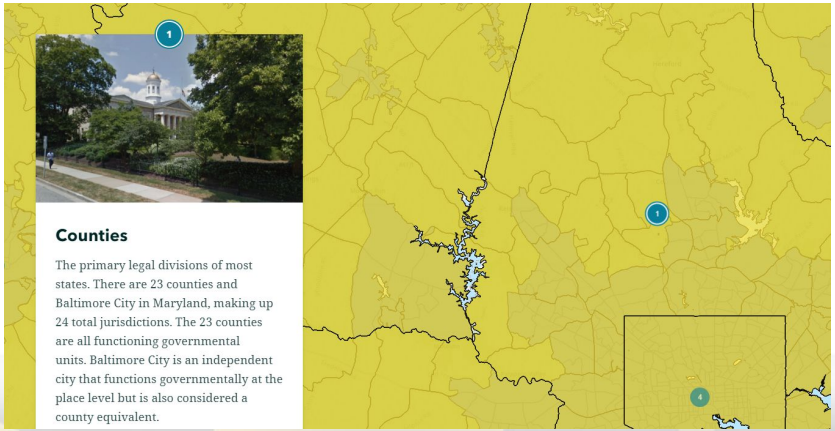
SnapShot Maryland Dashboards is a series of geospatial dashboards and interactive mapping tools produced by the Maryland Department of Planning (Planning) that integrates geospatial and tabular data from a variety of state and local sources to address the operational and long-term planning concerns of state agencies and local governments.

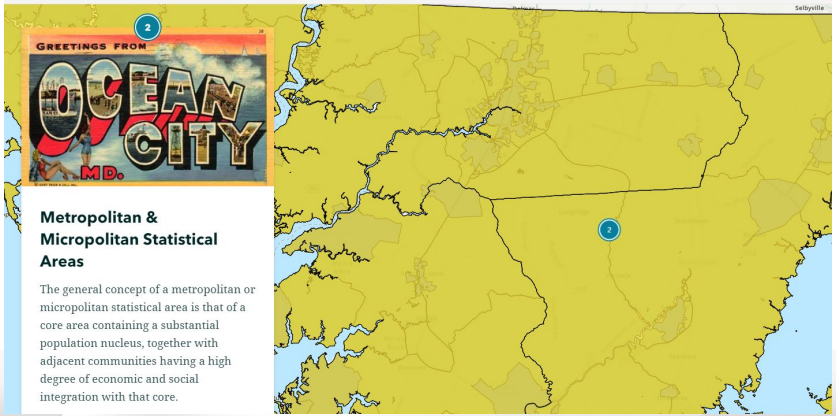
Snapshot Maryland Dashboards initially focused on the integration of Census, land use and transportation data, then broadened its analytic tools to include housing information.

Snapshot Maryland Dashboards is an approach to "geospatial wellness" for all of Planning's dashboards and interactive maps. The goal is to develop easy-to-use, highly functional, relevant, and responsive geospatial planning resources to help users make better informed planning decisions for their communities.

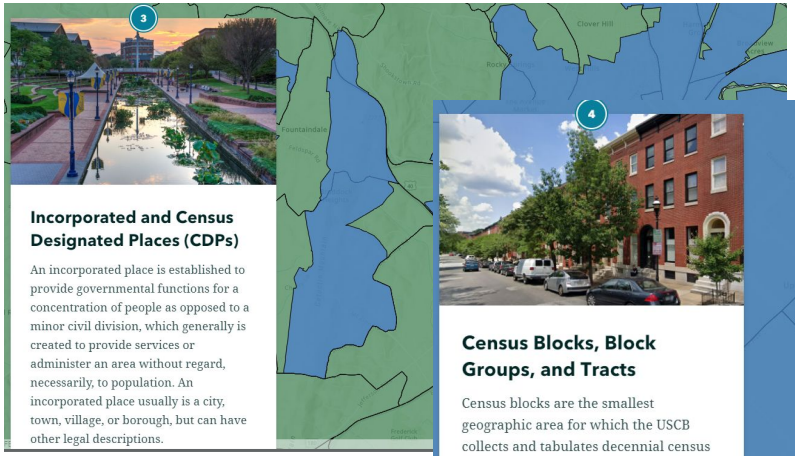
Snapshot Maryland: Transportation Planning Dashboard

The Snapshot Maryland Transportation Planning Dashboard displays demographic, employment, commuting and other transportation planning information, aggregated at the county, U.S. Census Designated Place (CDP) and Census Incorporated Place (CIP), and Census Tract levels as well as for select data at the traffic analysis zone (TAZ).





Snapshot Maryland: Transportation Planning Dashboard



Incorporated and Census Designated Places (CDPs)

An incorporated place is established to provide governmental functions for a concentration of people as opposed to a minor civil division, which generally is created to provide services or administer an area without regard, necessarily, to population. An incorporated place usually is a city, town, village, or borough, but can have other legal descriptions.

Census Blocks, Block Groups, and Tracts

Census blocks are the smallest geographic area for which the USCB collects and tabulates decennial census data and are formed by streets, roads, railroads, bodies of water, other visible physical and cultural features, and legal boundaries.

Zip Code Tabulation Areas (ZCTAs)

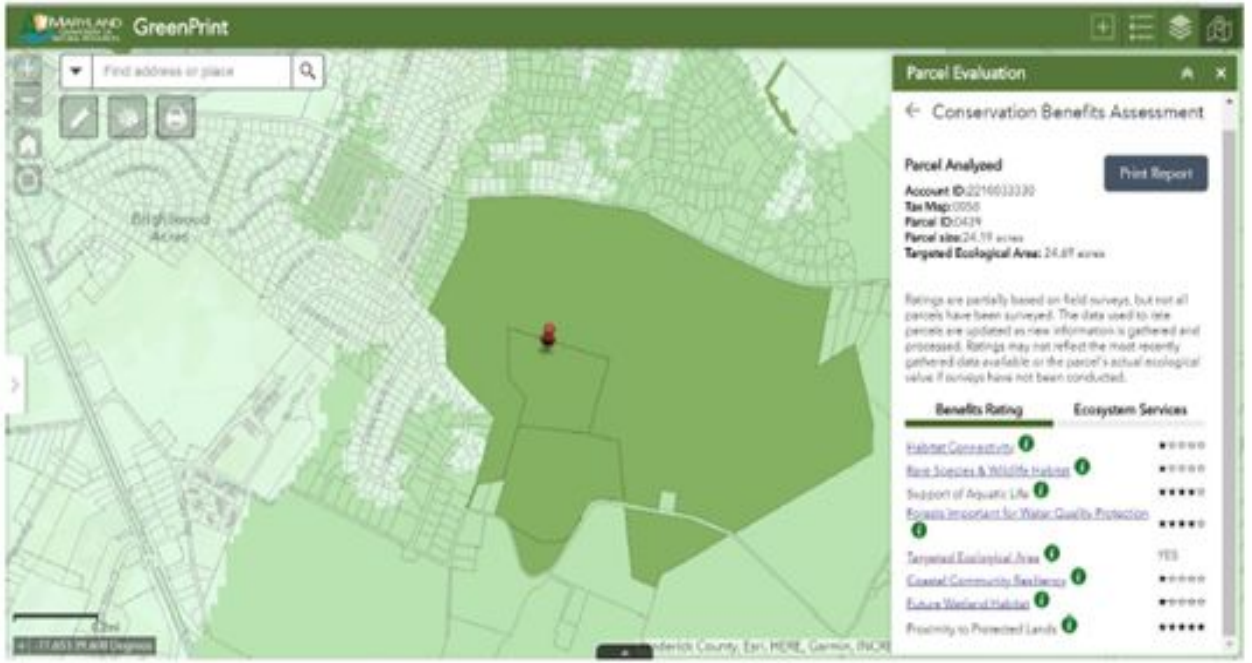
ZCTAs are approximate area representations of U.S. Postal Service (USPS) five-digit ZIP code service areas that the Census Bureau creates using whole blocks to present statistical data from censuses and surveys.

Maryland DNR, NOAA and MES; Parcel Evaluation Tool

MARYLAND DEPARTMENT OF NATURAL RESOURCES
& Chesapeake & Coastal Service

NOAA

MARYLAND ENVIRONMENTAL SERVICE



Maryland DNR, NOAA and MES; Parcel Evaluation Tool

- The **Parcel Evaluation Tool** provides a **Conservation Benefits and Ecosystem Service Assessment Report Card** for every land parcel in Maryland.
- Report card values reflect many of the ecological priorities established for Stateside Program Open Space (POS).
- Additionally, land trusts have asked for this information to help them target and evaluate lands for protection, as well as to document conservation values for tax benefits.
- Tool compliments existing internal DNR parcel evaluation process.

https://geodata.md.gov/greenprint/

Maryland Parcel Evaluation Tool

Conservation Benefits Assessment

Habitat Connectivity

Rare Species & Wildlife Habitat

Support of Aquatic Life

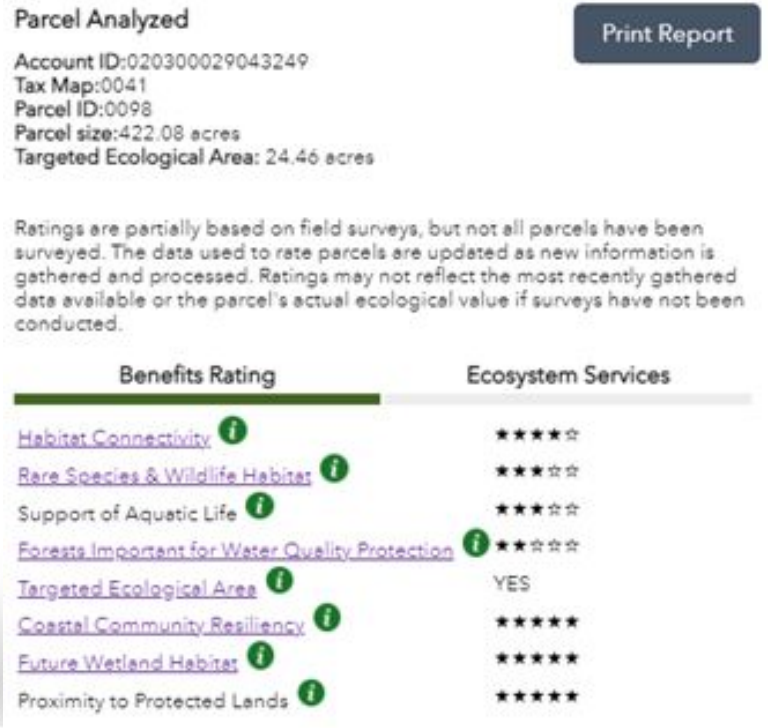
Forests Important for Water Quality Protection

Targeted Ecological Area

Coastal Community Resiliency

Future Wetland Habitat

Proximity to Protected Lands



Maryland Parcel Evaluation Tool

Ecosystem Services Assessment

Air Pollution Removal
[(CO), (NO_2), (SO_2), (O_3), (PM_{10}), ($PM_{2.5}$)]
Carbon Sequestration
Groundwater Recharge
Nitrogen Uptake Potential Index
Stormwater Mitigation Potential Index
Surface Water Protection

NOTE: Ecosystem service monetary values are meant to inform decision making and tradeoffs but do not imply market value or value to be paid by the state for land acquisition

Benefits Rating	Ecosystem Services	
Ecosystem Service Name *(and biophysical unit)*	Biophysical	Economic
Air Pollution Removal: Carbon Monoxide (CO) *(kg per year)*		
Annual Parcel-Level Values*	140.51	$206.52
Annual Per-Acre Values**	0.33	$0.49
Air Pollution Removal: Nitrogen Dioxide(NO_2) *(kg per year)*		
Annual Parcel-Level Values*	1414.53	$480.63
Annual Per-Acre Values**	3.37	$1.14
Air Pollution Removal: Sulfur Dioxide(SO_2)		

Maryland Department of the Environment (MDE)

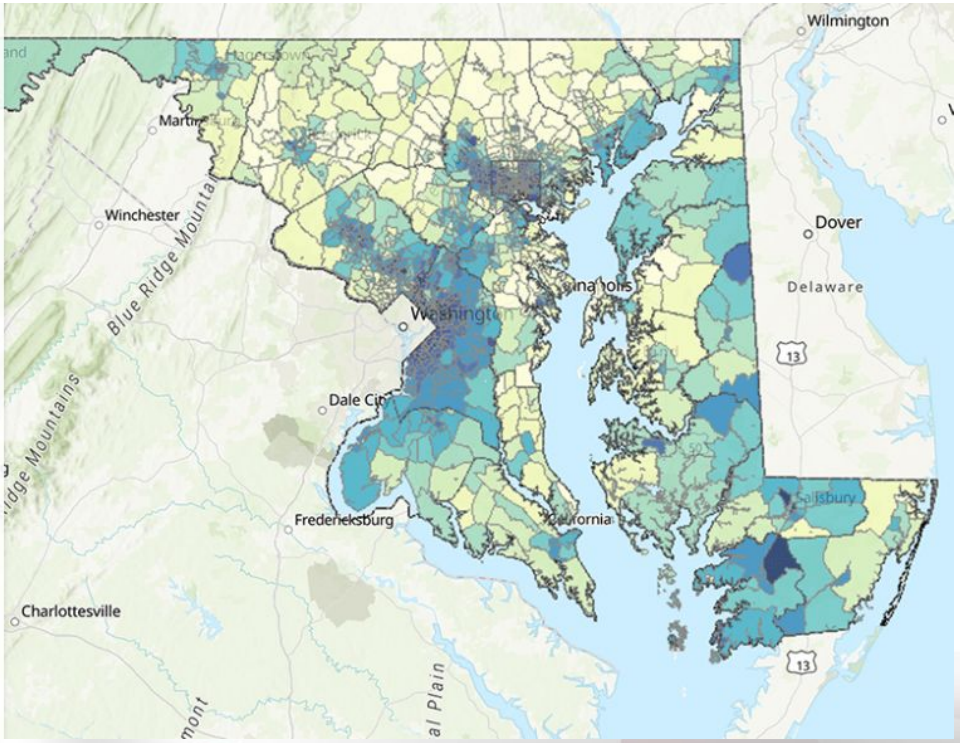
MDE Environmental Justice

(to be made public in the near future)

Maryland Department of the Environment

Welcome

The Maryland Department of the Environment (MDE or Department) implements environmental laws and programs to protect and restore the environment for the health and well-being of Marylanders. National studies show that Environmental Justice (EJ) Communities bear a disproportionate share of the negative environmental consequences resulting from industrial activities, land-use planning and zoning, municipal and commercial operations or the execution of federal, state, local programs and policies. MDE supports the goal of achieving environmental equity for all Maryland residents.



CHANGING
Maryland
FOR THE BETTER

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THANK YOU!!