

Funding Sources and Resources

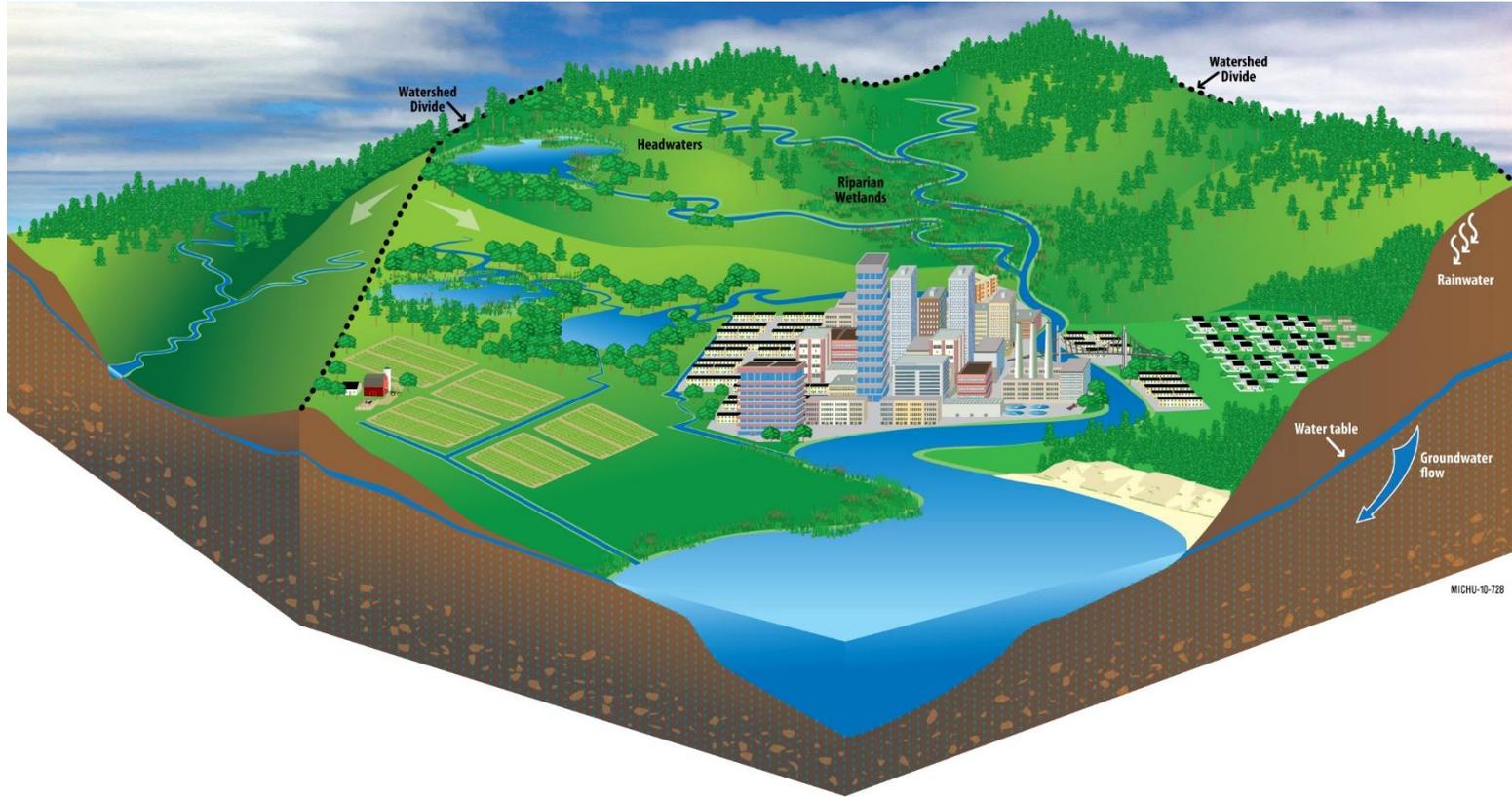
Clean Water Business Expo

October 15, 2015

Presented by:

Phillip Stafford, DNR

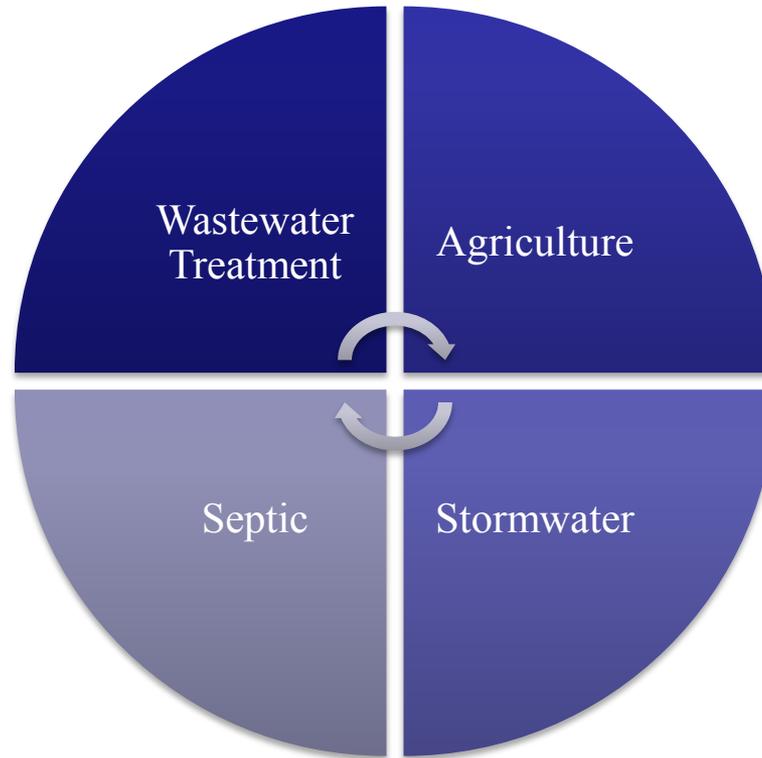




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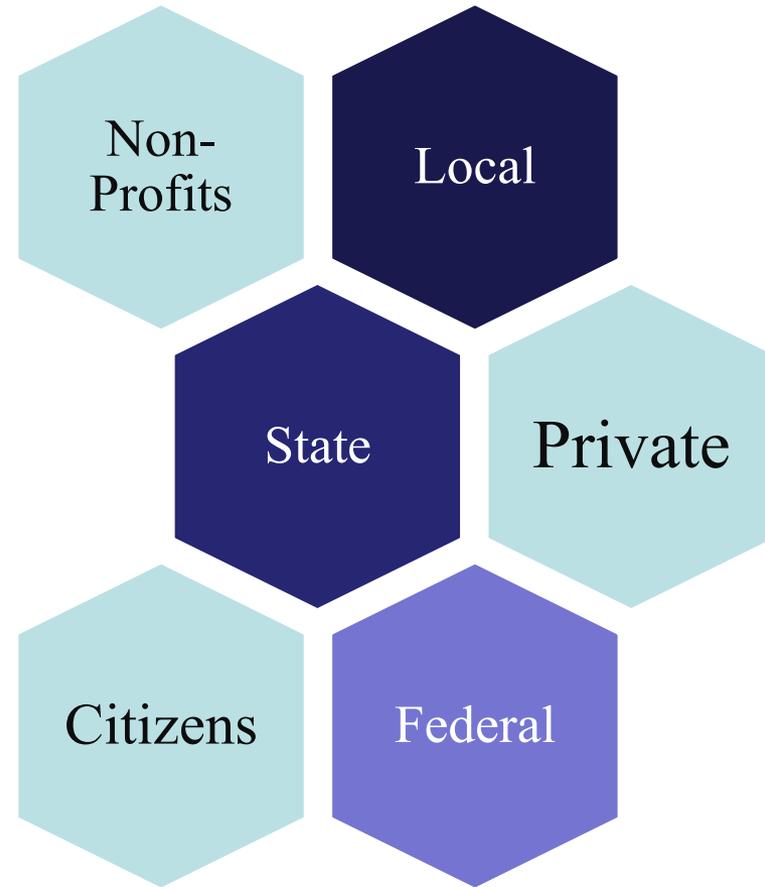
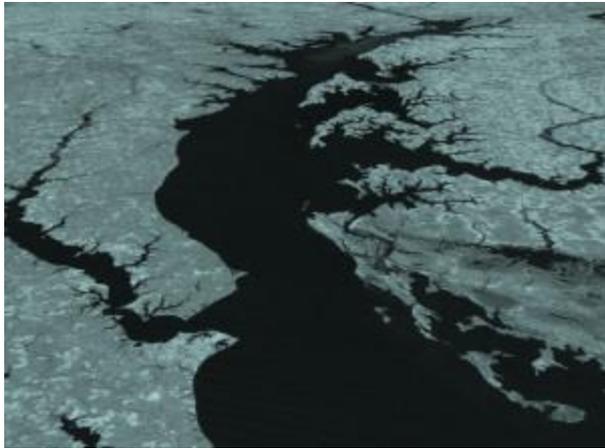


Watershed Strategies



1972 Coastal Zone Management Act:

Preserve, protect, develop, and where possible, restore or enhance the resources of the nation's coastal zone



Chesapeake and Coastal Service: Program Diversity

Restoration
Finance and
Policy

Habitat
Restoration
and
Conservation

Coastal and
Marine
Assessment

Conservation
Education and
Stewardship

Geospatial
Information
and Analysis



Restoration Finance and Policy Division

- **Chesapeake & Atlantic Coastal Bays Trust Fund**
 - **Identify, develop, and fund projects**
- **Watershed Assistance Collaborative**
 - **Connect resources and technical assistance**
- **Innovative Technology Fund**
 - **Promote investment restoration technology**



Habitat Restoration and Conservation

- **Natural Filters**
 - **Technical assistance and funding of “Natural Filters” projects**
- **Community Restoration Program**
 - **Public outreach and engagement**
- **Maryland’s Ecosystem Enhancement (ME²)**
 - **Improved targeting and siting of BMPs**



Coastal and Marine Assessment

- **Maryland's Coastal Zone Management Program**
 - **Networked state planning and regulatory programs**
- **CoastSmart Program**
 - **Assist local communities identify and implement strategies to protect life and property from coastal hazards**
- **CoastSmart Communities Initiative**
 - **Financial and technical assistance for local planning and permitting activities.**



Coastal and Marine Assessment (cont'd)

- Chesapeake Bay National Estuarine Research Reserve (CBNERR)
 - Educational opportunities and scientific study
- CBNERR-MD Stewardship Program
 - Share the results of research with students (pre-school through college), educators and public audiences
- Coastal Training Program (CTP)
 - Skills and knowledge transfer to communities



Conservation Education and Stewardship

- Aquatic Resources Education Program
 - Understanding of aquatic habitats through education
- TEAM DNR
 - Volunteer program dedicated to educating elementary and middle school students
- CBNERR-MD Education Program
 - Share the results of research with students (pre-school through college), educators and public audiences

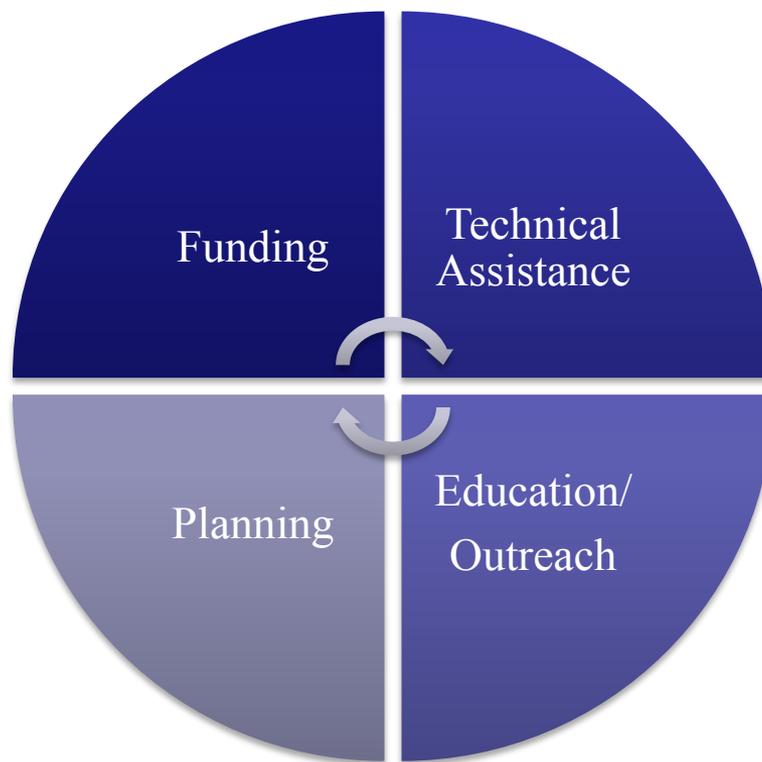


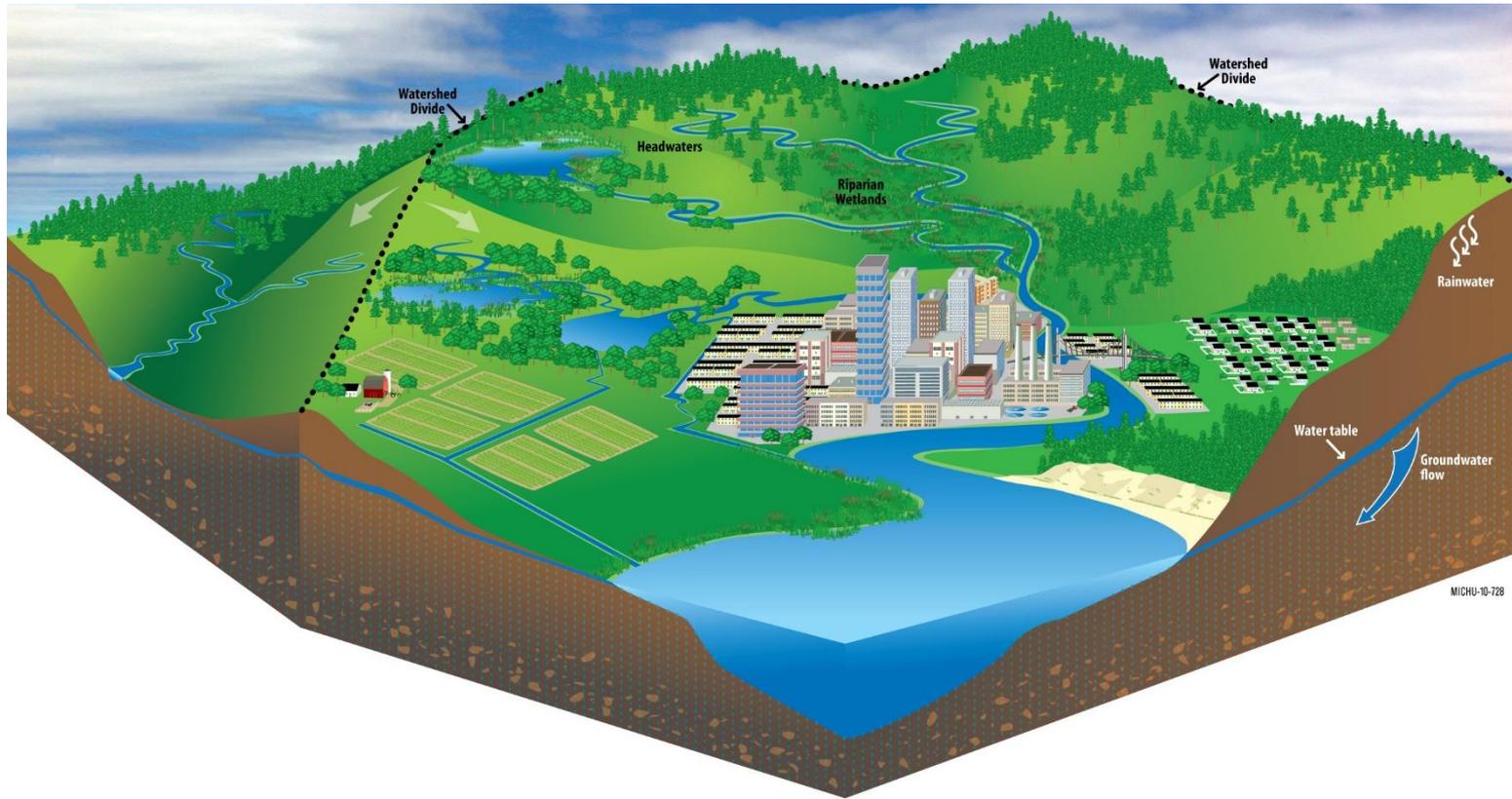
Geospatial Information and Analysis

- **Maryland's Coastal Atlas**
 - **Online mapping and planning tool**
- **MERLIN Online**
 - **Customize mapping tool**



Connecting Resources





MICHU-10-728



Chesapeake and Atlantic Coastal Bays Trust Fund

Gabe Cohee, MD DNR

Gabe.cohee@maryland.gov



Impact Report (FY09 – FY14)



removed to-date:
2.2 million lbs Nitrogen
243,522 lbs Phosphorus
17,527 tons Total Suspended Solids



engaged:
32,190 students engaged in restoration



employed:
885 direct and indirect jobs supported



restored:
1180 acres of forest planted on State land
312 acres of wetlands restored

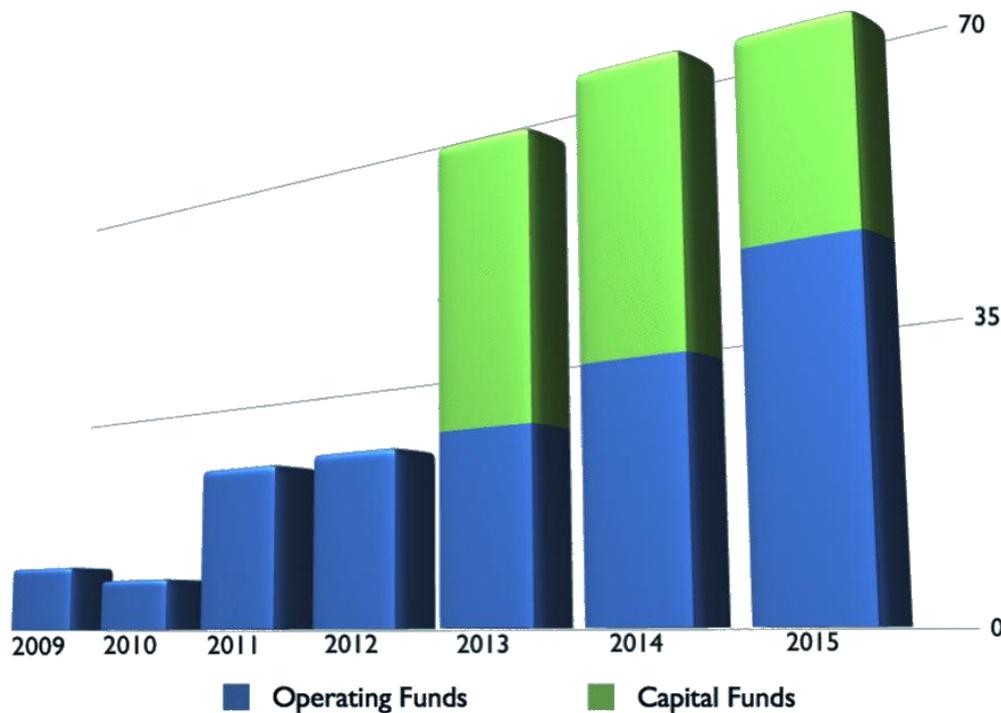


Structure & Oversight

- Funds generated through motor fuel tax and rental car tax in Maryland
- Allocation, targeting, and implementation is a collaborative effort between three partners:
 - BayStat Agencies (DNR, MDA, MDE, MDP, UMD)
 - Scientific Advisory Panel (3rd party scientists)
 - The Legislature



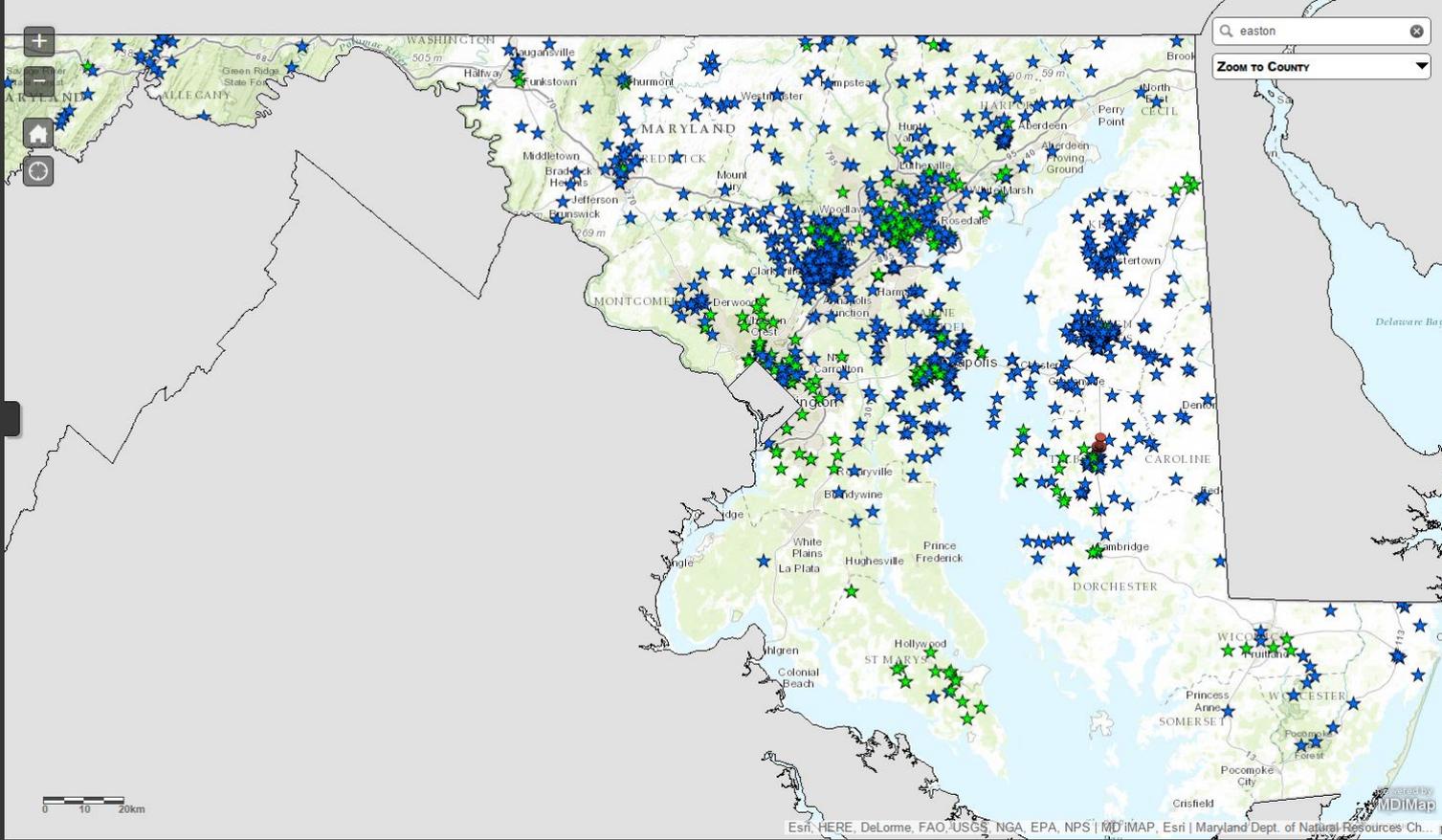
Funding at a Glance



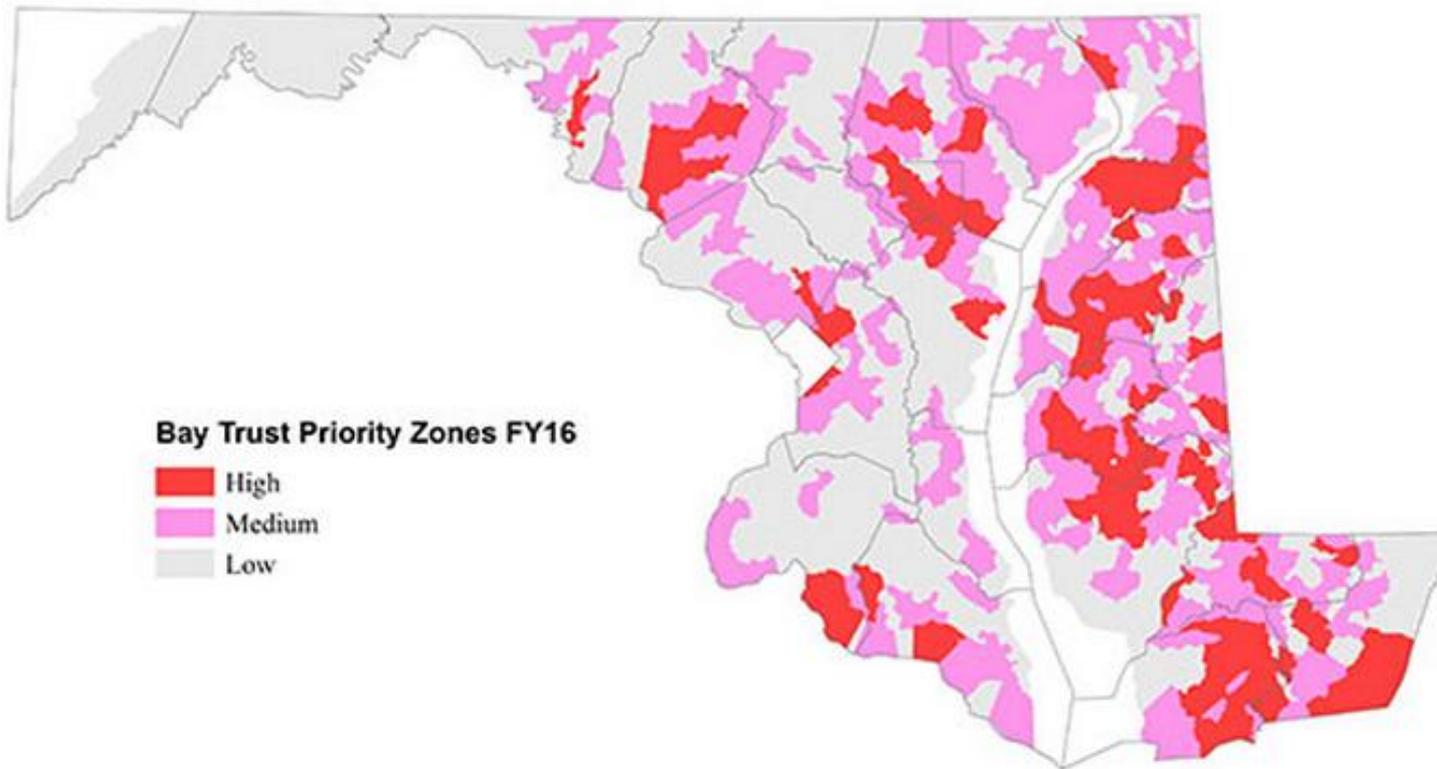
- 640% Growth since FY09
- Governor directed Capital funds in FY13 – nearly \$100M additional in three years.
- When fully funded, anticipate \$50M annually

Legend

- World Transportation - use over imagery
- Parcel Boundaries
- State Boundary
 - State Boundary Mask
 - Trust Fund Projects
 - Trust Fund Projects
 - Trust Fund Capital
 - Trust Fund Special
- Trust Fund Priority Zones (FY16)
- Trust Fund Priority Zones (FY09-FY15)
- Watersheds
- Election Boundaries



Trust Fund FY 16 Solicitation Targeting Map



Tentative Schedule

- **RFP Released:** November/December 2015
- **Letters of Intent Due:** January/February 2016
- **Full Proposals Due:** March/April 2016
- **Awards Announced:** June 1, 2016
- **Money Available:** July 1, 2016



Questions?

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Watershed Assistance Collaborative

WAC



Goals

- **Improve Capacity**
- **Technical Training**
- **Connect to Funding Sources**
- **Establish Long Term Funding**



Partners

- Environmental Finance Center
- Chesapeake Bay Trust
- University of Maryland Extension SeaGrant
- DNR Coastal Training Program



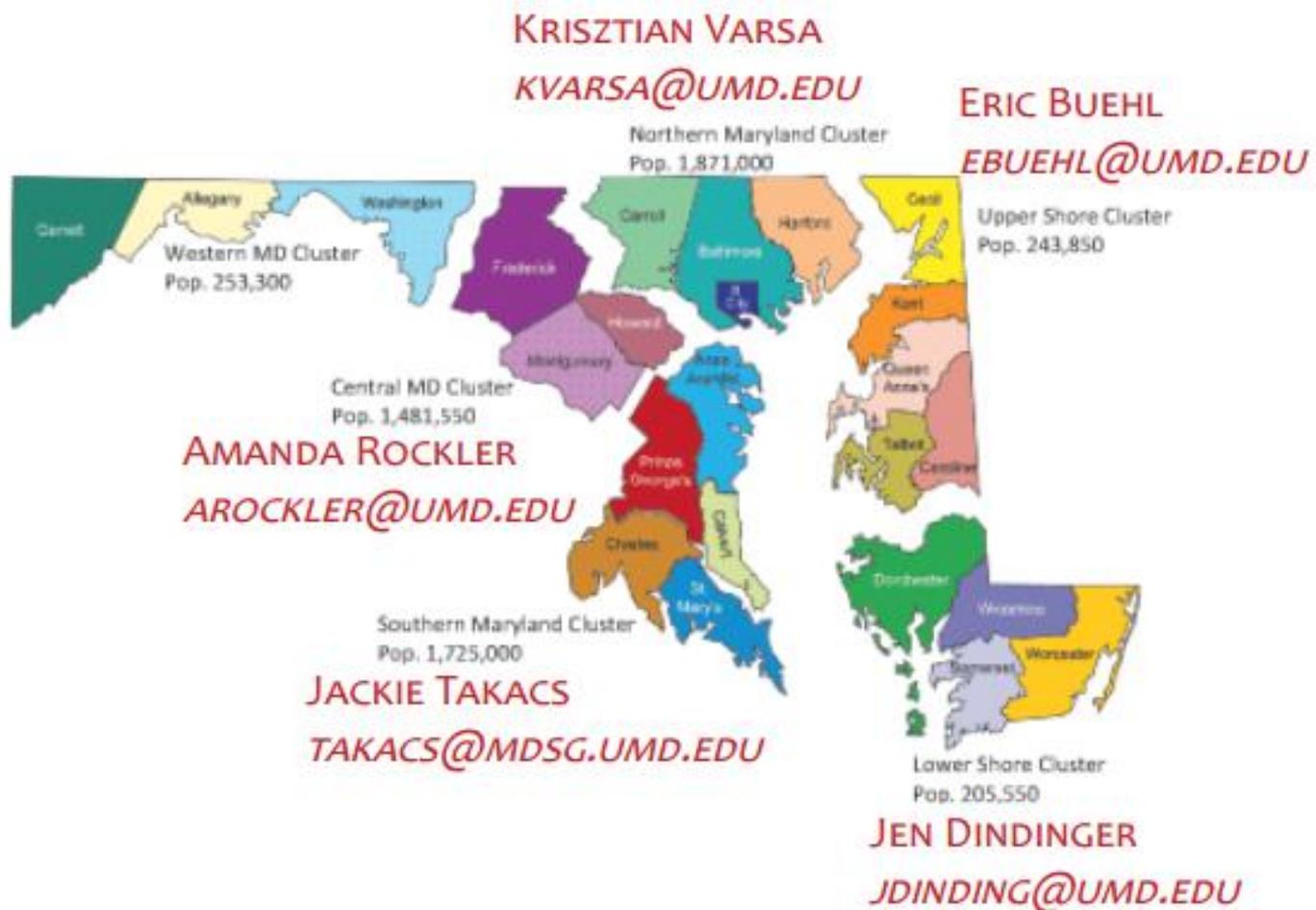
Sea Grant

University of Maryland Extension

- **Community Outreach**
- **Capacity Building**
- **Technical Assistance**



Sea Grant Specialists



DNR Coastal Training Program

- **Training Courses**
 - Managing the Effects of Development along the Shoreline
 - Watershed Management & Sustainability
 - Coastal Flooding, Sea Level Rise, & Climate Change
 - Professional Development and Skills Training



Coastal
Training
Program

Chesapeake Bay - MD

National Estuarine Research Reserve

Chesapeake Bay Trust (CBT)

- **Grants**
 - Managing the Effects of Development along the Shoreline
 - Watershed Assistance Grant Program (WAGP)
 - Green Streets, Green Jobs Green Towns (G3)
 - Non-Tidal Wetlands





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Treasure the Chesapeake

Friday, May 30 7 to 10 pm
Annapolis Marriott



Sponsorship Opportunities Here



- [Grants Open](#)
- [Trust News](#)
- [What You Can Do](#)
- [Where We Fund](#)

Chesapeake Bay Trust Opportunities



Environmental Education K-12 Mini Grant Now Open - Deadline: June 13, 2014

The Trust is currently [accepting applications](#) for its Environmental Education K-12 Mini Grant program. This program supports activities around a watershed issue investigation including field experiences, fieldwork and student-led action projects as well as teacher professional development and programs to advance environmental literacy in the Chesapeake Bay and its rivers and streams. To learn more about this grant program, [click here](#).

Chesapeake Conservation Corps Seeks Volunteers - Deadline: April 18, 2014

The Trust announces solicitations for volunteers for the 2014-15 Chesapeake Conservation Corps program. This initiative, supported by the Trust, Constellation Energy, and the state of Maryland, pairs young adults with organizations that provide hands-on environmental, leadership, and technical training opportunities for a one-year term of service. Find [more information here](#).



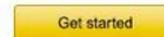
New Grant Program- Nontidal Wetlands

The Maryland Department of the Environment and the Chesapeake Bay Trust announce a new partnership to provide funds for nontidal wetland projects throughout Maryland. The goal of this program is to implement cost-effective wetland projects to provide valuable wetland functions. To learn more about this new program, [visit the grant listing page](#).



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Chesapeake Bay Trust



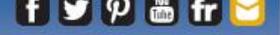
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[Nontidal Wetlands](#)
 [Restoration Research Grant Program](#)



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Restoration and Retrofits

Outreach and Restoration

Status: Open

Living Shorelines

Status: Closed

Watershed Assistance

Status: Closed

Green Streets - Green Jobs-Green Towns

Status: Closed

Non-Tidal Wetlands

Status: Open

Upcoming Deadlines

Capacity Building Grant Program
October 29, 2015

Outreach and Restoration Grant Program
December 2, 2015

Anne Arundel County Watershed Restoration Grant Program
December 3, 2015

Environmental Education Grant Program
December 4, 2015

Gaithersburg Watershed Restoration Grant Program
December 4, 2015

Nontidal Wetlands Grant Program
December 10, 2015

K-12 Environmental Education Mini Grant Program
January 15, 2016

Community Engagement and Restoration Mini Grants Program
Ongoing

Prince George's Rain Check Rebate
Ongoing

Anne Arundel Forestry Mini Grants Program
Ongoing

Charles County Forestry
Ongoing

[Grant Forms](#)
[Click here](#)

Environmental Finance Center (EFC)

- **Community Stormwater Programs**
 - Anne Arundel County, Baltimore, Berlin, Bowie, Calvert County, Ocean City, Oxford, Salisbury
- **Local Government Stormwater Financing Manual**
- **Sustainable Maryland Certified**



Watershed Assistance Grant Program (WAGP)

- From 2009-2013 \$1,930,549 was awarded through 71 grants
- In 2014, \$995,935 was awarded to 18 projects
- \$1.2 million EPA funds plus rollover will be available for FY16 WAGP

Questions?

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Stormwater Case Study:

Berlin

Eastern Shore Local Government Exchange

September 24, 2015

Presented by:

Phillip Stafford, DNR



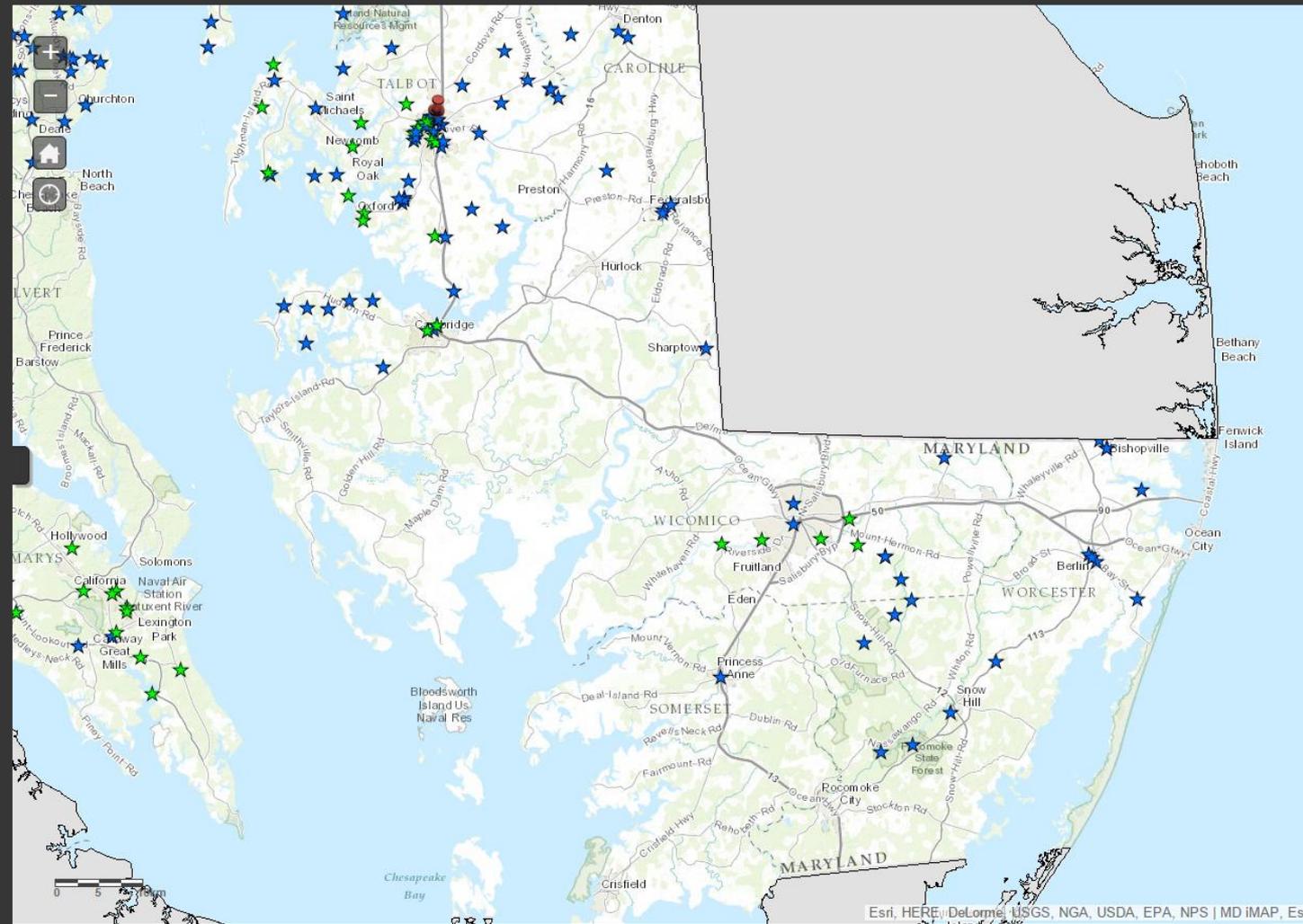
Stormwater Case Study: Berlin

Restoration Print

Details Contents Query Add Data

Legend

- World Transportation - use over imagery
- Parcel Boundaries
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Stormwater Projects

- Stormwater Projects
- Issues: Flooding, Stormwater, Habitat
 - Hudson Branch Stormwater Management
 - Flower Street Stormwater Management



Environmental Finance Center

- **Partners**
 - **Town of Berlin**
 - **Grow Berlin Green**
 - **Berlin Chamber of Commerce**
- **Sponsors**
 - **Maryland DNR**
 - **Town Creek Foundation**

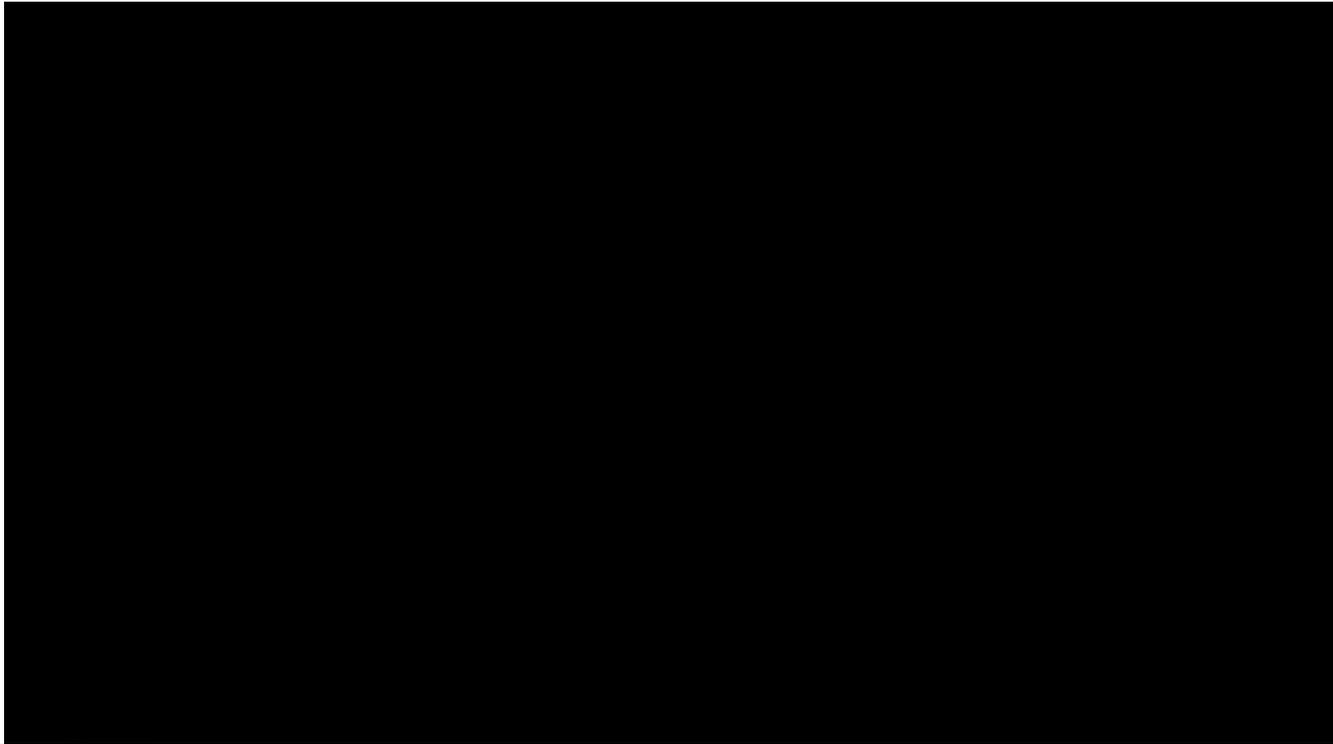


EFC Projects

- Stormwater utility (2013)
 - Generate \$570,000 annually
 - Address flooding, reduce erosion and polluted runoff
- Stormwater Feasibility Study (2012)
 - Laid out options for funding structures



Berlin Video



Questions?

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