

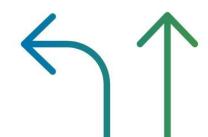


November 6, 2025

Land Trust Roundtable

Easement Planning and Landowner Engagement





Today's Goals







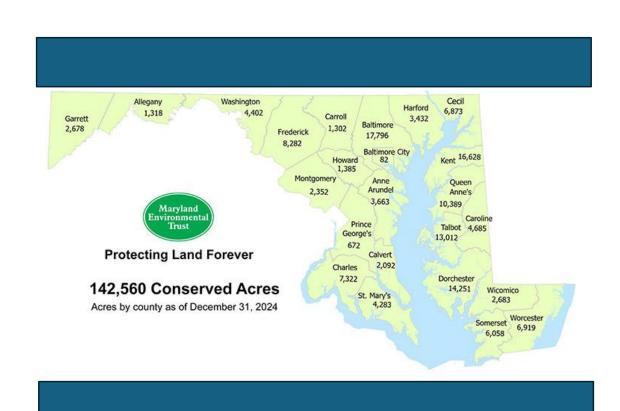
Find ways that
MET's Easement
Program can help
land trusts

Discuss publicly available tools used for land conservation

Apply data to prioritize outreach to strengthen easement quality

Maryland Environmental Trust

- Established in 1967
- Mostly donated easements
- Variety of easement types: farmland, urban, habitat, education, historic
- Variety of LO: Private,
 Non-prof, Corps, federal,
 state and local govt



MET's Mission...

MET works with landowners, local communities, and *land trusts* to protect Maryland's most treasured landscapes and natural resources as a legacy for future generations

Maryland

Trust

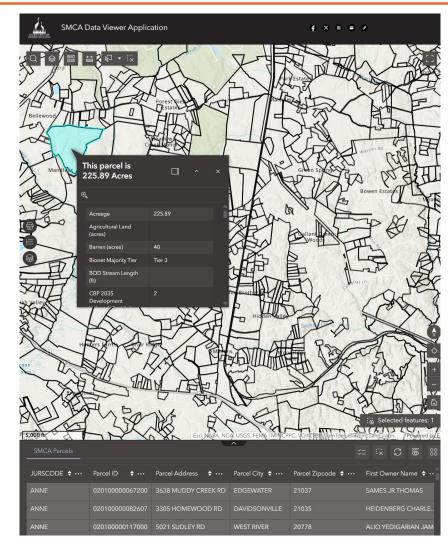
Presentation Outline

- **✓ Intro**
- ✓ Available Tools
- **✓ MET Intake Sheet**
- √ Tool Demos
- **✓** Targeted Outreach
- **✓** Discussion



Conservation Planning Tools

- Significant growth
 - Govt and NGO's
- Weighted on spatial products
 - General Assessments
 - Building out Exhibits
 - Empirical Evaluation
 - Conservation Planning
- Range of user ability and applicability



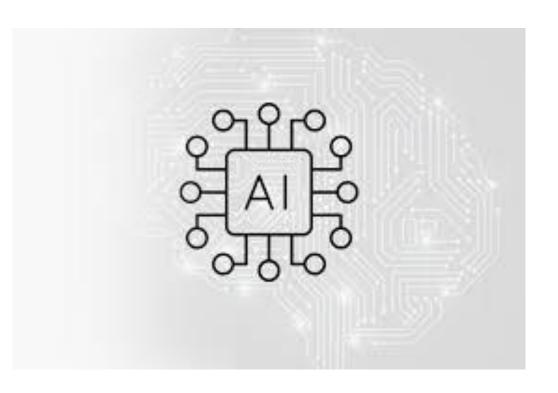
A Tool for Every Scenario

ArcPro or other GIS

- Layers are publicly accessible
- Cost money
- User expertise

Freeware

- R or Python (Al Enabled)
- Google Earth
- MERLIN & Parcel Eval Tool
- Free, fit any experience

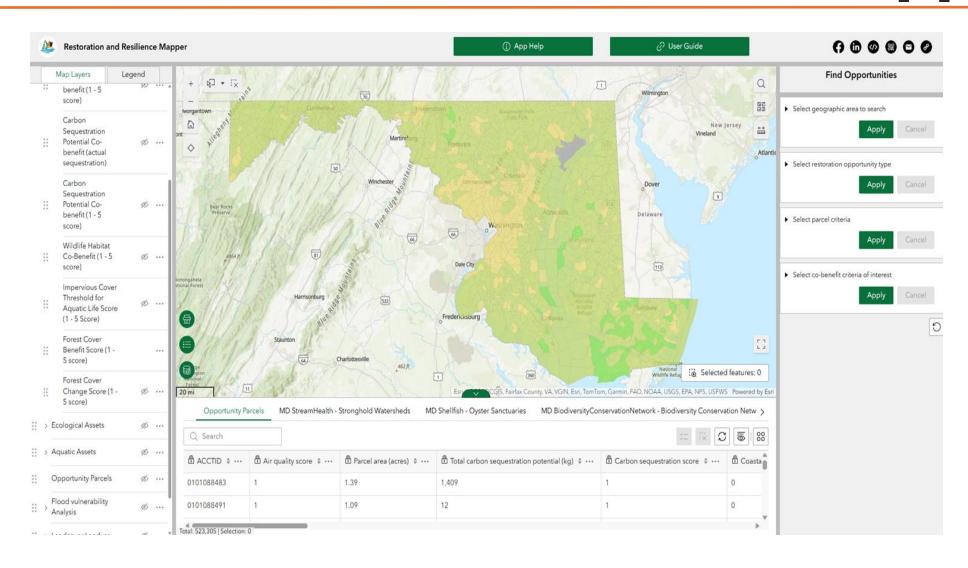


Maryland DNR Mapping Tools

- Numerous Apps
- Easement Program Top 3
 - Restoration and Resilience Mapper
 - Greenprint Parcel Evaluation Tool (PET)
 - MERLIN



Restoration & Resilience Mapper



Parcel Evaluation Tool



MARYLAND GreenPrint

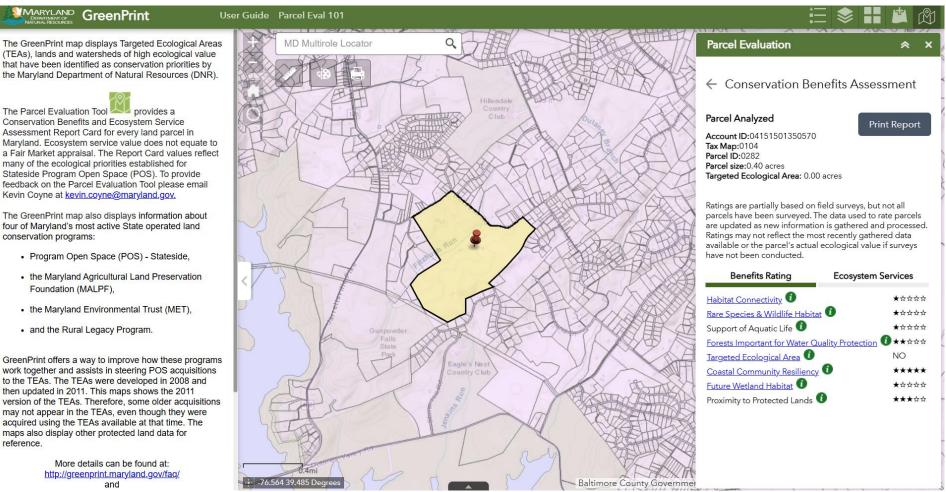
The Parcel Evaluation Tool provides a Conservation Benefits and Ecosystem Service Assessment Report Card for every land parcel in Marvland. Ecosystem service value does not equate to a Fair Market appraisal. The Report Card values reflect many of the ecological priorities established for Stateside Program Open Space (POS), To provide feedback on the Parcel Evaluation Tool please email Kevin Coyne at kevin.coyne@maryland.gov.

The GreenPrint map also displays information about four of Maryland's most active State operated land conservation programs:

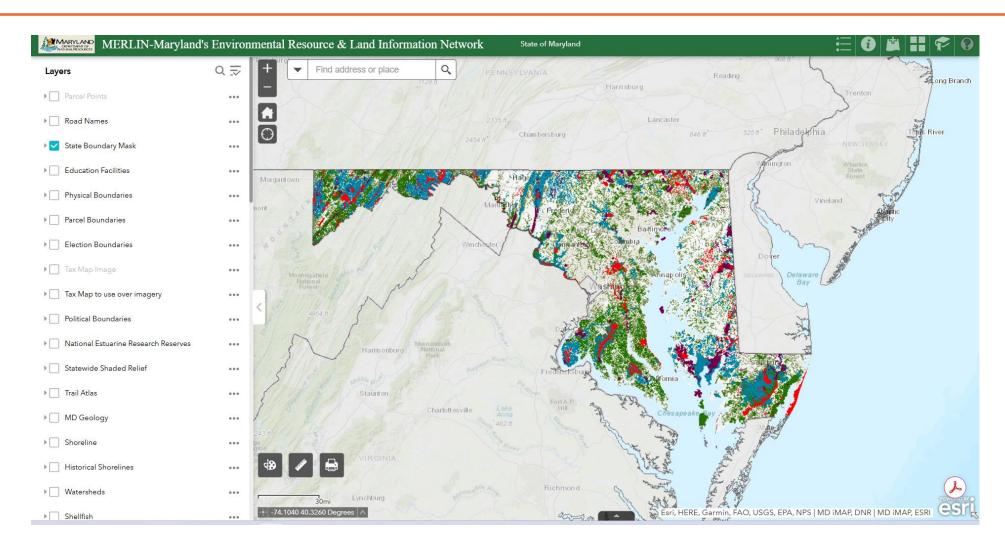
- · Program Open Space (POS) Stateside,
- · the Maryland Agricultural Land Preservation Foundation (MALPF).
- the Maryland Environmental Trust (MET),
- · and the Rural Legacy Program.

GreenPrint offers a way to improve how these programs work together and assists in steering POS acquisitions to the TEAs. The TEAs were developed in 2008 and then updated in 2011. This maps shows the 2011 version of the TEAs. Therefore, some older acquisitions may not appear in the TEAs, even though they were acquired using the TEAs available at that time. The maps also display other protected land data for

> More details can be found at: http://greenprint.maryland.gov/fag/ and



MERLIN

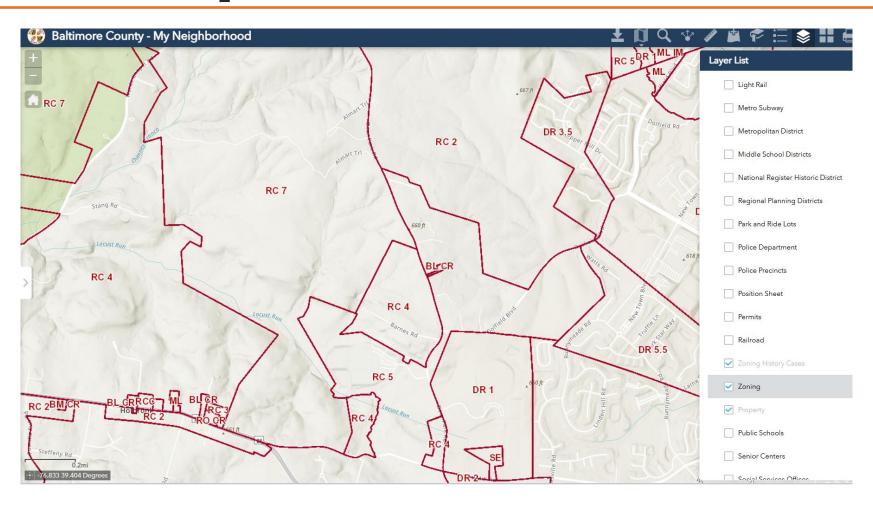


MERLIN VS PET

MERLIN vs Parcel Evaluation Tool

MERLIN Only	Common Features	PET Only
WetlandsFIDS & SSPRACritical AreaMIHP and NRHP	 Basic tools for calculations Satellite Imagery & LiDAR Focal Areas: TEA & Rural Legacy SDAT BioNet Protected Lands 	 Blue Infrastructure Stronghold Watershed

Other Spatial Resources: P & Z



Other Spatial Resources: LiDAR

Wetlands layer not accurate for streambeds

LiDAR has great resolution

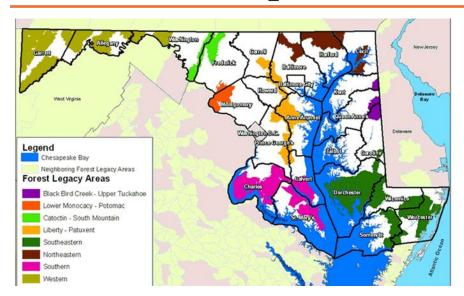
Generate line layer and buffer in GIS

More informative than Topo

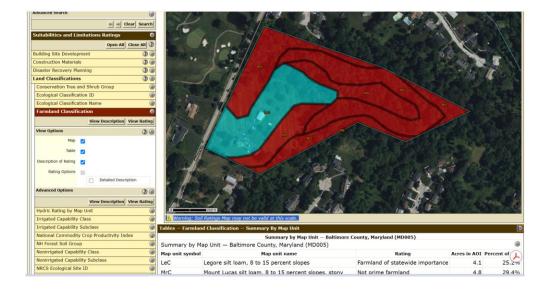
Can be added to ArcPro from PE Tool



Other Spatial Resources: USDA

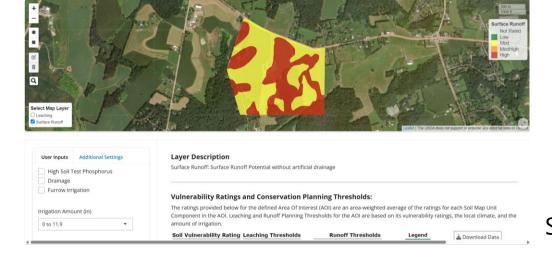


Site Risk for Water Quality - SRWQ



Forest Legacy Areas

Web Soil Survey

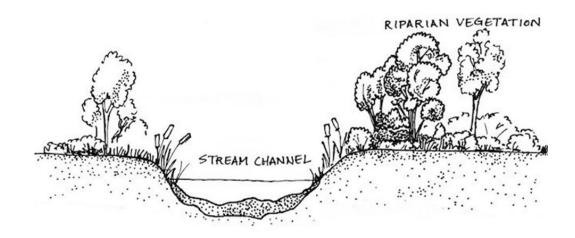


Site Risk for Water Quality

Other Spatial Resources: USDA

AgBufferBuilder Tool

- Allows user to create buffer based on limiting inputs
- Requires advanced ArcGIS userknowledge





Other Spatial Resources: TNC



GEOSPATIAL CONSERVATION ATLAS



Resilient Land Mapping Tool Conservation Dashboard Connecting Canopies Equity Tool Avoided Forest Conversion Tool Resilient River Explorer And more!

Spatial Resource Links

- MERLIN
 - https://maryland.maps.arcgis.com/apps/webappviewer/index.html?id=43/4b195197364344a661da85c9bab3c9
- Parcel Evaluation Tool
 - https://geodata.md.gov/greenprint/
- Resiliency and Restoration
 - https://experience.arcgis.com/experience/56e79cd75fa64fcf8a4017fdce1 74e14/?draft=true
- Web Soil Survey
 - https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- Site Risk for Water Quality
 - https://dshub.usda.gov/srwq/

Spatial Resource Links

- AgBufferBuilder Tool
 - https://www.fs.usda.gov/nac/resources/tools/AgBufferBuilder.shtml
- Forest Legacy Area
 - https://www.arcgis.com/apps/dashboards/8f299852c28d4facb20c20200b bafc0a
- TNC Dashboard
 - https://www.maps.tnc.org/
- Audubon Important Bird Areas
 - https://gis.audubon.org/portal/apps/sites/? gl=1*cqhu4j* gcl au*NTg4M zY2Mzc3LjE3MzQwMjkwNTI.* ga*Nzc3ODM1NzkwLjE3MzQwMjkwNTI.* ga X2XNL2MWTT*MTczODg2Mjc5Mi41LjEuMTczODg2NDMxNS42MC4w LjA.#/nas-hub-site/pages/data-review

Breaktime!

- ·Back in 10 min
- Next up: Demo





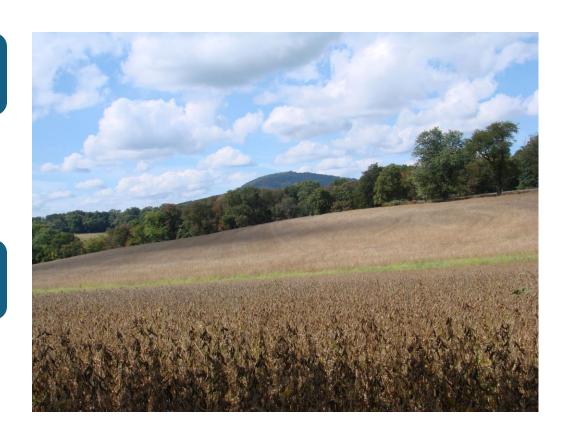
MET Intake Sheet

Previous intake sheet

- Difficult to replicate
- Aggregated criteria
- Offramps were not clear

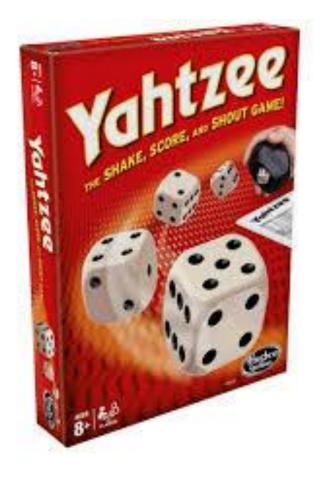
New intake sheet

- Independently repeatable
- Transparent
- General focus on ecological value
- Provides offramps



MET Intake Scoring Criteria

- Parcel Size and Dwelling Units
- Public View Assessment
- Ecological Scoring via Parcel Evaluation Tool
- Historic Relevance
- + Bonus Points
- Support (off ramp)
- Good Project ≥ 50 points



Open Space & Scenic View

Parcel Size and Dwelling Units

- Large rural and coheld-urban projects prioritized
- Lose points for dwelling units (DU) and smaller parcels

Scenic View

- Public Roadway
- Public Waterway
- 1pt per 100 feet (10pt max)

Criteria	Score
Eastern >50ac	
Western >75ac	
Coheld Urban	20
25-50/75ac	10
20-25ac/ 0 DU	0
20-25ac /1DU	-5
20-25ac >1DU	-10
10-20ac/0DU	-5
10-20ac/1DU	-10
10-20ac/ >1DU	-15
0-9ac/0DU	-10
0-9ac/1DU	-20
0-9ac/ >1DU	-25

Ecological Scoring Criteria

Parcel Evaluation Tool

1-5 pts	Habitat	Connectivity
---------	----------------	--------------

1-5 pts | Rare Species & Wildlife Habitat

1-5 pts | **Support of Aquatic Life**

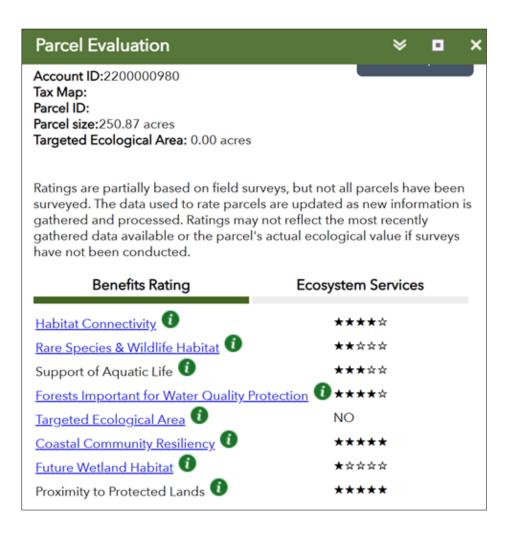
1-5 pts | Forests for Water Quality

0 or 5pts | **Targeted Ecological Area**

1-5 pts | **Coastal Community Resiliency**

1-5 pts | **Future Wetland Habitat**

1-5 pts | **Proximity to Protected Lands**



Other Scoring Criteria

Historic Value

0 or 10 pts | **Historic Planning Area**

Bonus Points

40 pts | **Unlimited Public Access**

10 pts | Limited Public Access

10 pts | Important Bird Area

10 pts | Planning Area

20 pts | Coheld or Adds to Existing Easement

Offramp

-100 pts | **No support from leadership**



- Blue-winged Warbler, Male.
 Blue-winged Warbler, Female.
 Lawrence's Warbler, Male.
- 4. BREWSTER'S WARBLER, MALE.
 5. GOLDEN-WINGED WARBLER, MALE.
 6. GOLDEN-WINGED WARBLER, FEMALE

ONE-HALF NATURAL SIZE.)

MET Intake Sheet Demo

Two Scenarios:

- Rural Carroll County (Solely held)
- 2. Urban Baltimore County (Co-held)

Evaluate using MERLIN and PET



Other Tool Demos



Resilience and Restoration Mapper





SMCA Planning Tool





TNC Dashboard





Others?





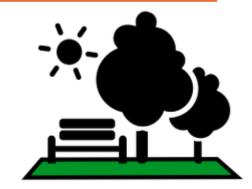


Neighbor Space Tool

- Built on three pillars of livability:
 - Environmental
 - Social
 - Economic
- Applies pair-wise weights to each goal



Most watersheds are impaired by sediment and or nutrients.



65% of residences lack access to open space within a 5-minute walk

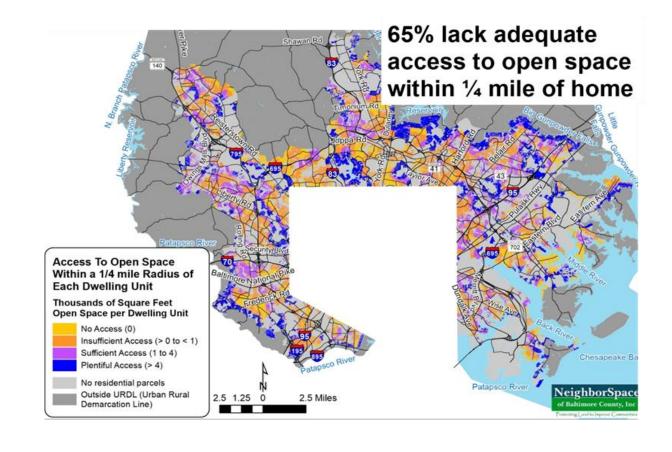


Median home values lag behind other jurisdictions.

Neighbor Space Tool

- Identifies areas deficient of green space
- Provides a way to prioritize





Breaktime

- Back in 10min!
- Next up: Outreach





Anyone want more easements?

Acquisition

- Passive
 - Landowner comes to you
- Active Outreach
 - Mail
 - Workshops
- Targeted ?
 - What is the guide?



Goal Oriented Outreach





Take stock of what you have



Evaluate goals



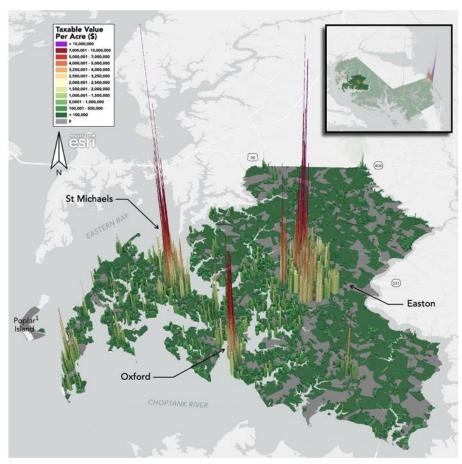
Create a plan



Conduct outreach



Evaluate effectiveness



Credit: Eastern Shore Land Conservancy

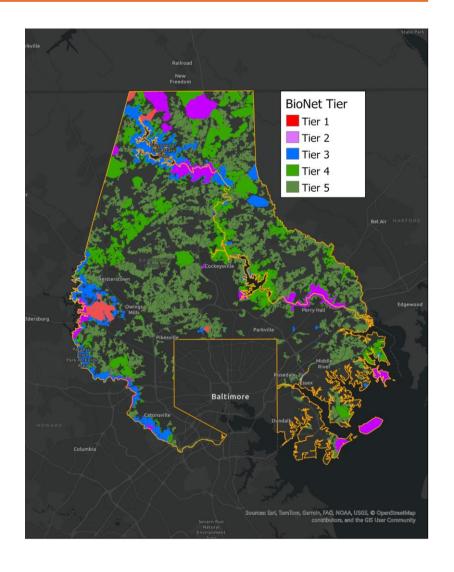
Baltimore County Example

✓ Prioritize ecological value

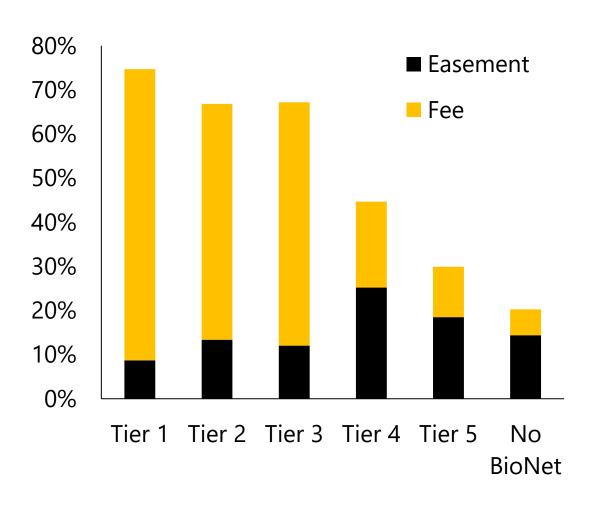
- Tie BioNet to SDAT
- Generate descriptive stats
- Acres and sizes of unprotected BioNet parcels
- Assess goals

Develop Approach

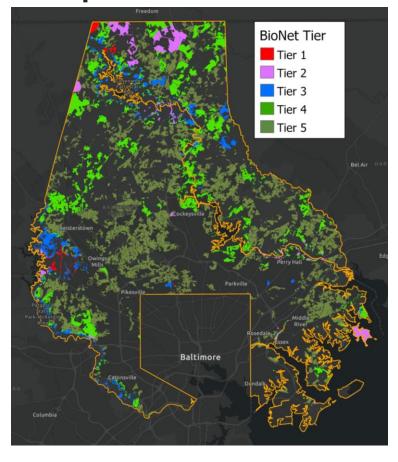
- Establish number of contacts
- Conduct outreach via mail
- ✓ Consider in concert with outreach event



Protected & Unprotected BioNet



Unprotected x BioNet



Parcel Size Count

• **Ideal:** > 50 acres

• **Large:** 25 – 50 acres

• **Medium:** 20 – 25 acres

• **Small**: 10 – 20 acres

• Too Small: < 10 acres

Size	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5
Ideal	0	6	14	51	70
Large	6	25	17	102	198
Medium	1	9	19	63	135
Small	12	46	77	270	565
Too Small	505	1,945	4,678	10,685	36,166

Parcel Size Acreage

- 100% of Ideal & Large
 - T4 = 61%
 - T5 = 44%
- 100% of Small Ideal
 - T5 to 56%
- What do we do with <10-acre parcels?

Size	Tier 1	Tier 2	Tier 3	Tier 4	Tier 5
Ideal		1,285	1,111	4,285	5,395
Large	223	829	548	3,503	6,586
Medium	25	206	420	1,398	3,006
Small	159	660	1,035	3,653	7,949
Too Small	500	2,669	3,890	13,272	37,462

Another Discussion...



Tier one BioNet parcel cluster



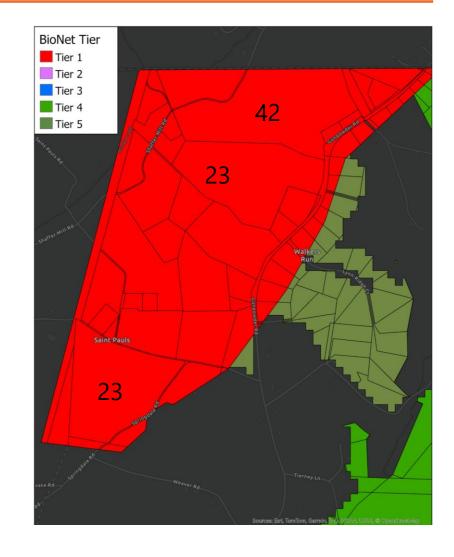
How do we conserve these?



Assess whether "this is working"



New program?



Outreach

Planting seeds for your network to grow

- Conduct outreach
 - 100 200 landowners (?)
- Include land trust partner
- Invite to upcoming seminar
- Gauge effectiveness



Thoughts?

Thank you for your participation!



