Connecting Conservation for Bay Health: Protected Land, Clean Water

2017 Maryland Land Conservation Conference

June 8, 2017

Photo: Shutterstock/K Steve Cope

Land Trust Alliance
Together, conserving the places you love

Chesapeake
CONSERVATION PARTNERSHIP

Overview:

- Introduction
- Getting in the Game: Land trusts & water quality
- Go Big or Go Home: Conserving multiple values at a watershed scale
- Show Me the Money: Financing conservation
- Questions and Discussion

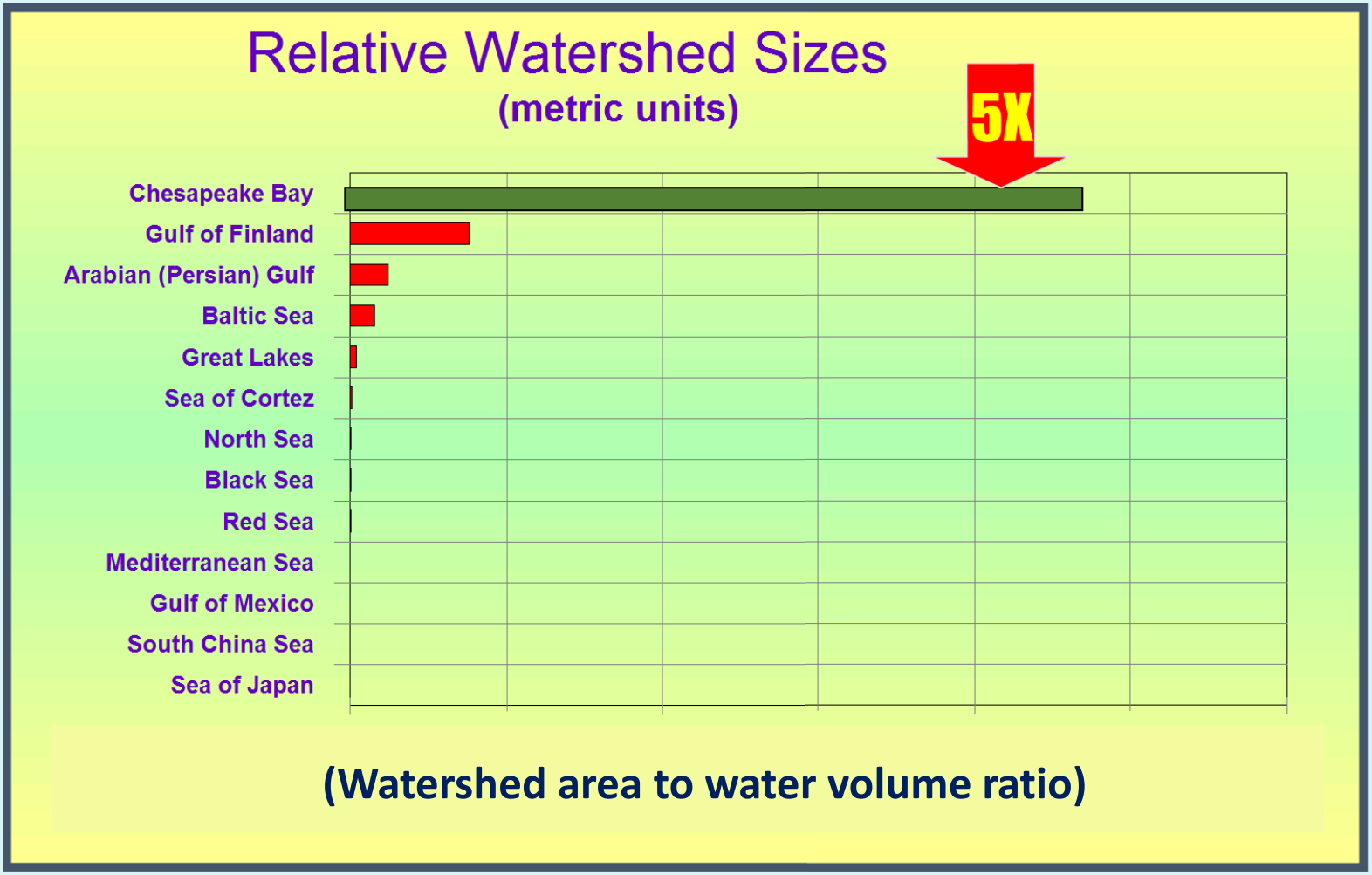
Photo courtesy of William Johns/Flickr and Chesapeake Bay Program

Land use/management determines water quality…

Photo: Ben Fertig, Integration and Application Network, UMCES

Connecting Conservation for Bay Health
2017 Maryland Land Conservation Conference
June 8, 2017

...nowhere more than the Chesapeake.



- 64,000 square miles
- Total shoreline ~ 11,684 miles
- Nearly 18 million people
- Average depth ~ 22 feet
- More than 3,600 species

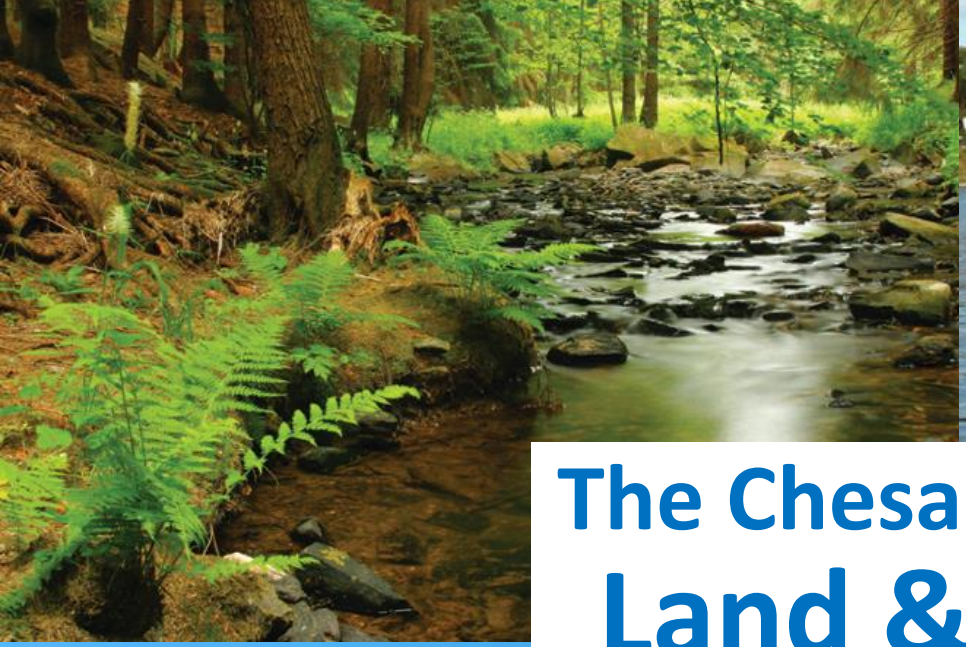

Chesapeake Bay Total Maximum Daily Load
for Nitrogen, Phosphorus and Sediment
Established by the U.S. Environmental Prot
TMDL: Pounds of pollution reduced
Shawn M. Garvin, Regional Administrator
U.S. Environmental Protection Agency
Region 3
Judith A. Enck, Regional Administrator
U.S. Environmental Protection Agency
Region 2
12/29/10
DATE


AFFIRMATION
Watershed Agreement: Acres of land protected +
Chesapeake Bay Program
Science. Restoration. Partnership.

Land conservation…

- protects both water quality and quantity
- reduces the cost of water treatment
- is a first (and perhaps most important) line of defense
- provides a potential site for best management practices
- brings along many other quality-of-life benefits

Photo: Shutterstock/K. Steve Cope



The Chesapeake Bay Land & Water Initiative

[Photos: clockwise from upper L: iStock; Alliance staff/J. Herzog; US EPA/USACE; iStock.]

CHESAPEAKE BAY FUNDERS NETWORK

Land Trust Alliance
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Chesapeake Bay Funders Network

CBFN brings funders together to protect and restore the Chesapeake Bay and the land, water, and communities of the broader Bay region through collaborative funding strategies that impact the social, political and economic systems influencing the region's environment.

CHESAPEAKE BAY
FUNDERS NETWORK

CBFN Members

- Agua Fund
- Chesapeake Bay Trust
- The Morris and Gwendolyn Cafritz Foundation
- The Campbell Foundation
- Dietel Partners
- Foundation for Pennsylvania Watersheds
- Corina Higginson Trust
- Hillsdale Fund
- Land Family Foundation
- MARPAT Foundation
- The Curtis and Edith Munson Foundation
- National Fish and Wildlife Foundation
- The Oak Hill Fund
- Prince Charitable Trusts
- Rauch Foundation
- Southeast Rural Community Assistance Project
- Town Creek Foundation
- Virginia Environmental Endowment
- Volgenau Foundation

CHESAPEAKE BAY FUNDERS NETWORK

Chesapeake Bay Watershed Land Trust Assessment

CHESAPEAKE BAY FUNDERS NETWORK

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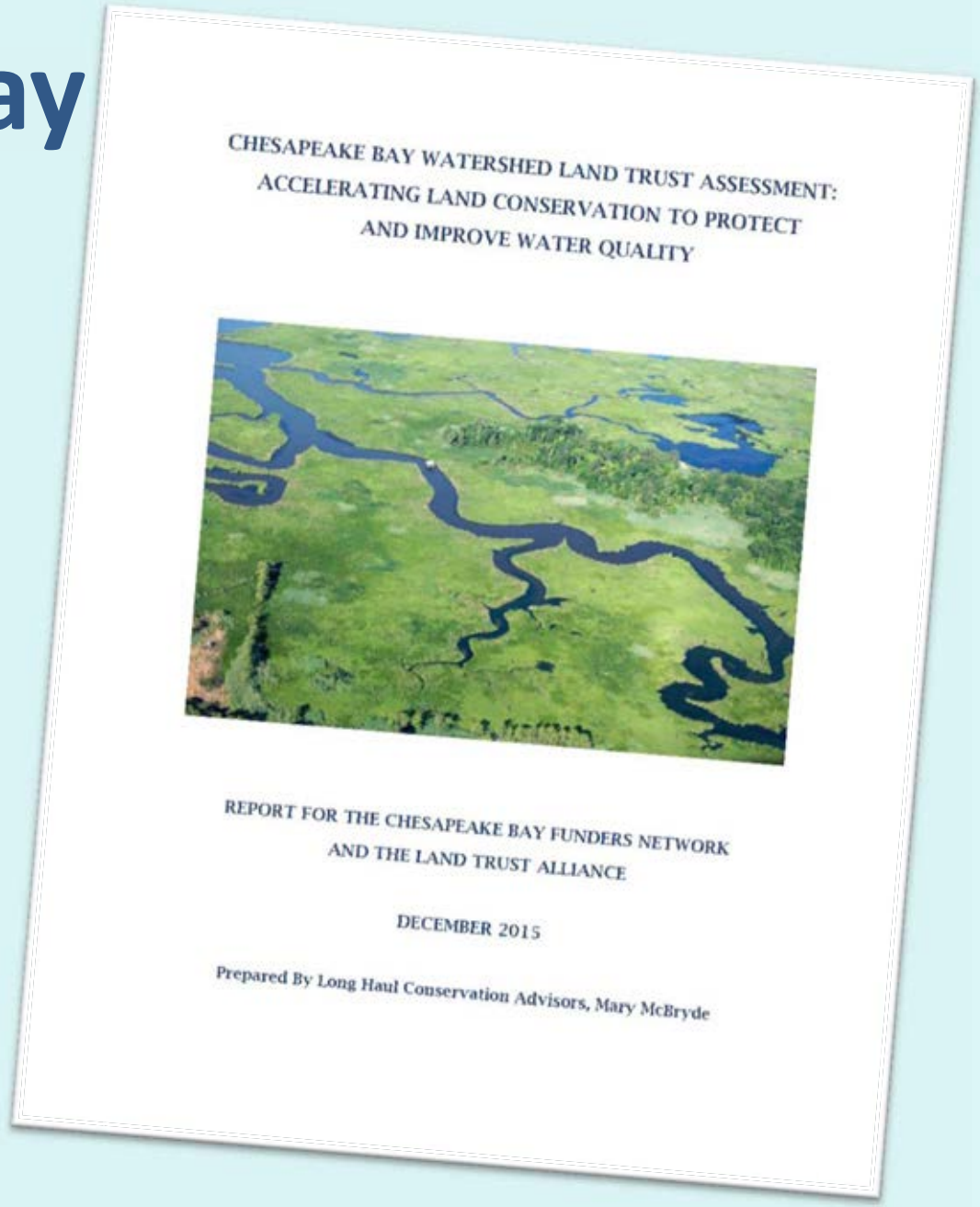

Key Findings

- Water resources matter to land trusts.
- Some land trusts are actively working to protect, improve, and restore water quality.
- Science needs to play a critical role.
- Land trusts are uniquely positioned to impact the management of many, many acres…

…and are poised to do much, much more.

Photo courtesy of EPA/USACE

Priorities for Types of Land Protected

State	#1	#2	#3
Pennsylvania	Important natural areas or wildlife habitats	Water quality, including wetlands	Scenic views or landscapes
Virginia	Important natural areas or wildlife habitats	Water quality, including wetlands	Working forestlands
Maryland	Important natural areas or wildlife habitats	Water quality, including wetlands	Historic or cultural resources
New York	Important natural areas or wildlife habitats	Water quality, including wetlands	Recreation lands
Delaware	Important natural areas or wildlife habitats	Water quality, including wetlands	Scenic views or landscapes
DC	Water quality, including wetlands		

Source: Land Trust Alliance 2015 National Land Trust Census, state data

Note: not enough data for WV to determine priorities

The Chesapeake Bay Land & Water Initiative

…to accelerate land protection and stewardship that will best protect and restore water quality

(www.lta.org/Chesapeake)

Photo : Shutterstock/Delmas Lehman

CHESAPEAKE BAY FUNDERS NETWORK

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Initiative Components 2016-2020

$1.3 Million Grant Program

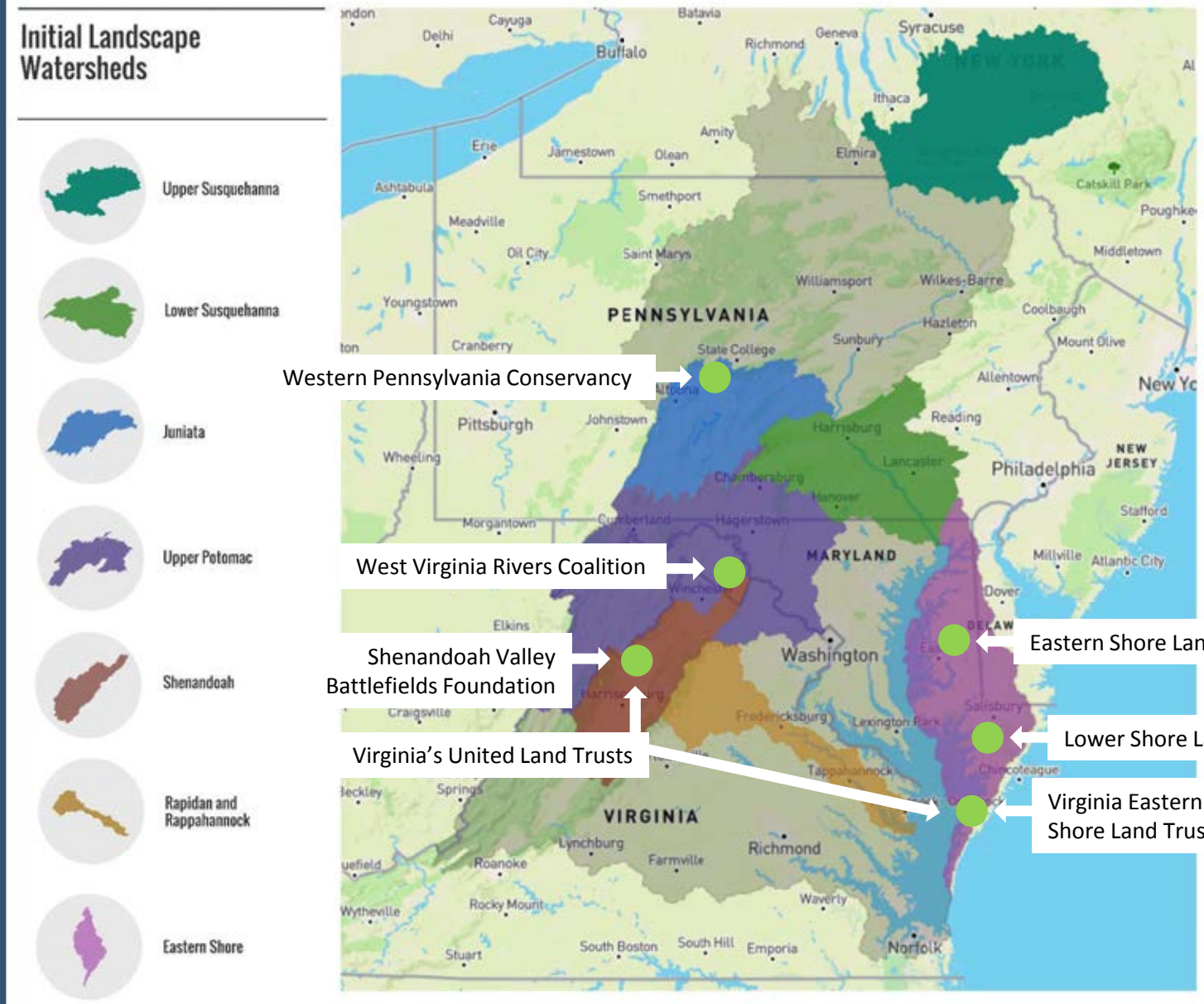
- Direct, meaningful benefit to water quality
- Accelerate land protection & stewardship with high impact
- Support diverse partners & collaborations
- Accelerate use of science to increase effectiveness
- Support innovation and taking proven examples to scale

Public Policy-Communications

- Federal, regional, state & local
- Increase the clout and public support for permanent land protection
- Support campaigns for public funding
- Secure greater credit for conservation in the TMDL or other mechanism
- Advance the new math of ecosystem services

Photo: Shutterstock/Delmas Lehman

Land and Water Initiative Initial Watersheds
Approved Projects 2017



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Land and Water Initiative Grant Program

Approved Projects 2017

Applicant	Project	Amount
Eastern Shore Land Conservancy	Healthy Water, Thriving Farms: A land trust's approach to water quality through easement stewardship	$15,000
Lower Shore Land Trust	Prioritization of Conservation Lands Using Targeted Mapping	$15,000
Shenandoah Valley Battlefields Foundation	Shenandoah Futures Conservation Collaborative	$25,000
Virginia Eastern Shore Land Trust	Riparian Buffer Improvement Assessment	$15,000
Virginia's United Land Trusts (VaULT)	Virginia Land & Water Initiative – Enhanced Water Quality Stewardship on Protected Lands	$25,000
West Virginia Rivers Coalition	Protected Lands, Clean Waters—An Action Plan for West Virginia's Chesapeake Bay Watershed	$20,000
Western Pennsylvania Conservancy	Strengthening Partnerships to Establish Permanent Adoption of Agricultural Stewardship Practices	$25,000
TOTAL		$140,000

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A range of projects…

- Strategic prioritization of land conservation
  - To protect water quality
  - To address pollution hotspots
- Strengthening easement provisions
- Drinking/source water protection
- Individual best management practices
- “Whole farm” approaches

Photo courtesy of US Environmental Protection Agency

A range of approaches…

- Integrated land-water mission
- Hybrid protection/restoration functions
- Building specific staff capacity
- Developing new partnerships

Photo: Shutterstock/ESB Professional

Land trusts….

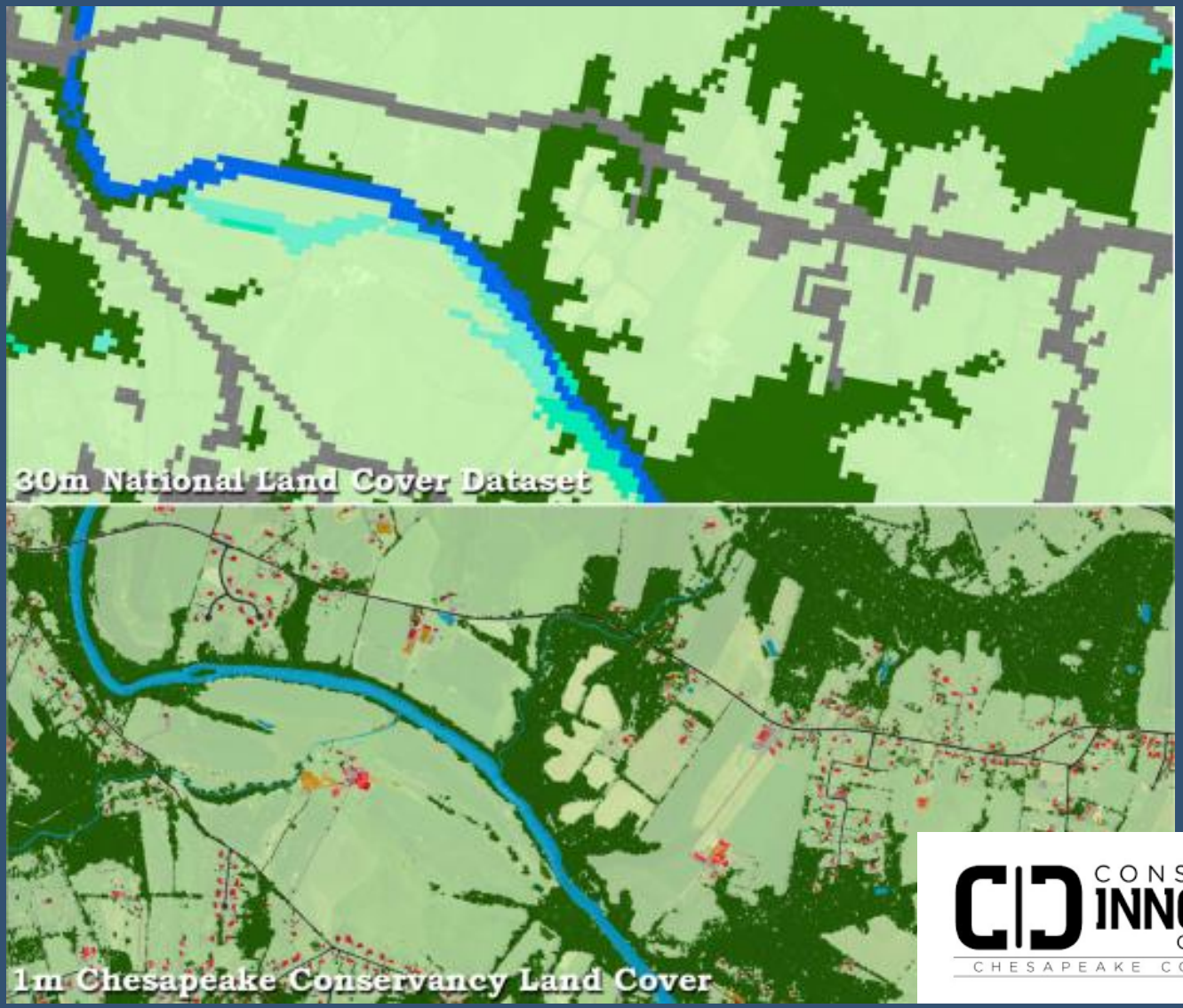
- Negotiate voluntary, legal agreements
- Protect land in perpetuity

- Maintain long-term landowner relationships
- Serve as a trusted, non-gov't messenger
- Conduct regular monitoring/stewardship

- Some address water quality in easements
- Some have restoration capacity in house

Photo by Rebecca L. Orris

Precision conservation: Filling streamside buffer gaps



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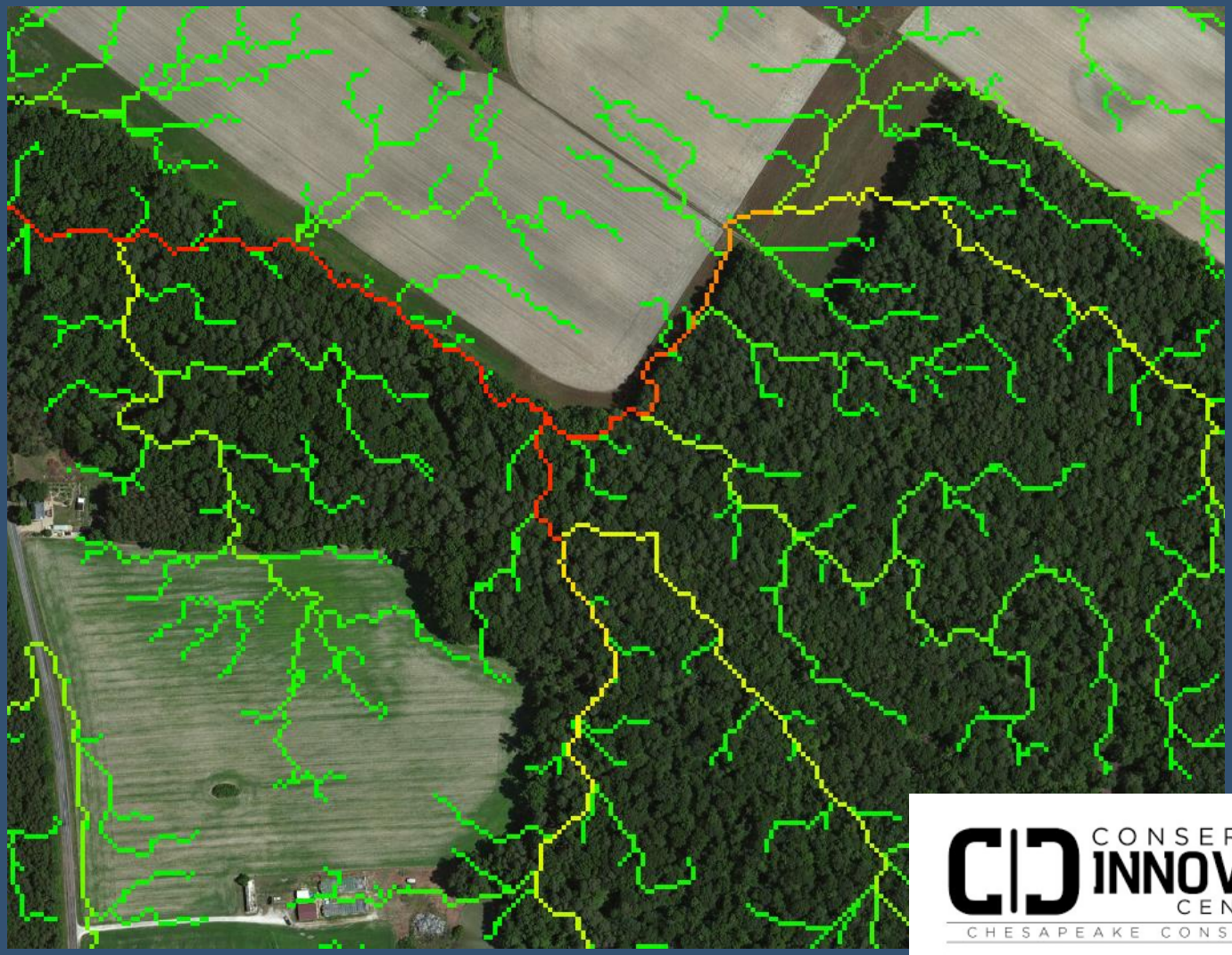
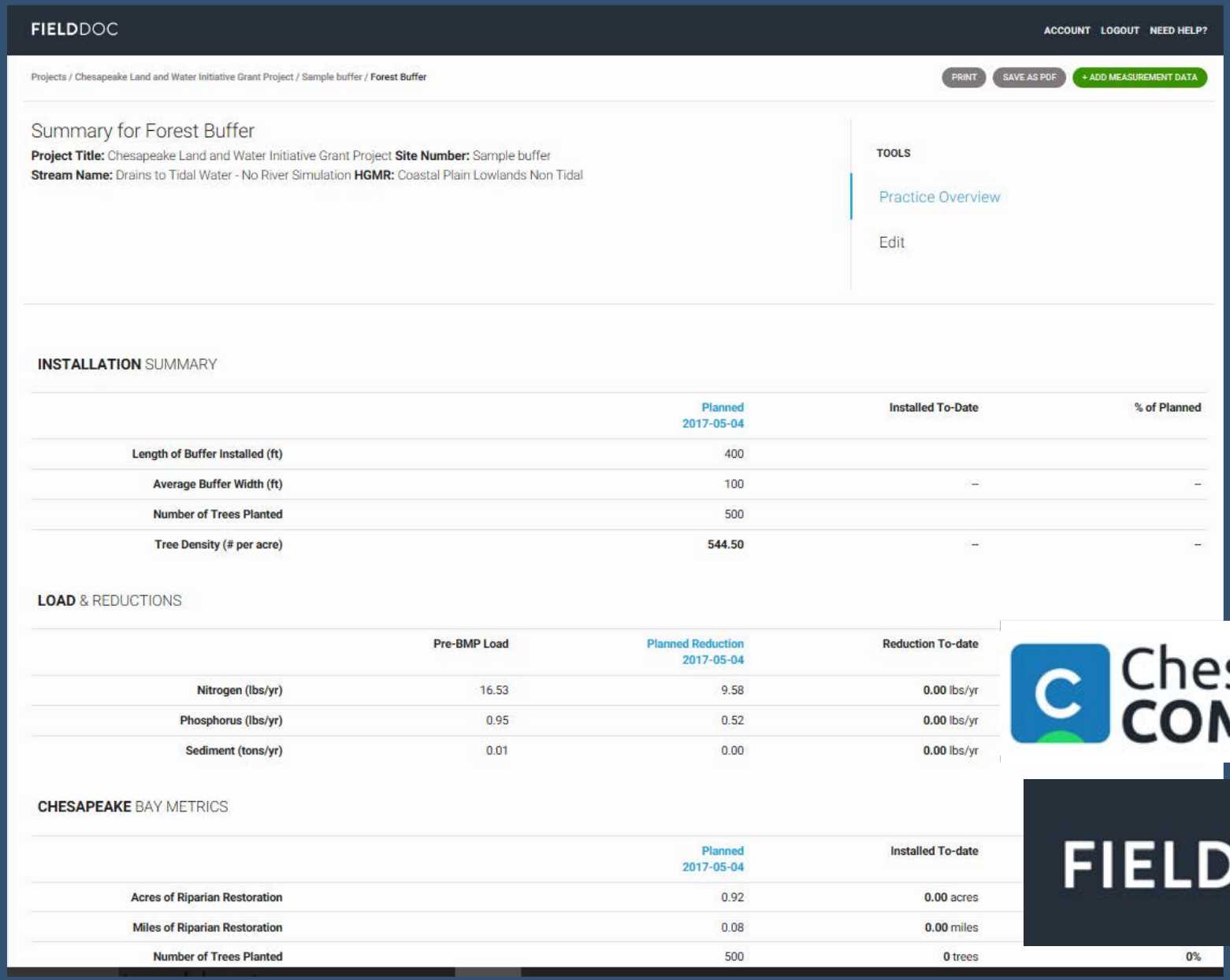
CHESAPEAKE CONSERVANCY

Precision conservation: Flow-path analysis



CONSERVATION INNOVATION CENTER
CHESAPEAKE CONSERVANCY

Quantifying pollution reductions



FIELDDOC

ACCOUNT LOGOUT NEED HELP?

Projects / Chesapeake Land and Water Initiative Grant Project / Sample buffer / **Forest Buffer**

PRINT SAVE AS PDF + ADD MEASUREMENT DATA

Summary for Forest Buffer

Project Title: Chesapeake Land and Water Initiative Grant Project **Site Number:** Sample buffer
Stream Name: Drains to Tidal Water - No River Simulation **HGMR:** Coastal Plain Lowlands Non Tidal

TOOLS

Practice Overview

Edit

INSTALLATION SUMMARY

	Planned 2017-05-04	Installed To-Date	% of Planned
Length of Buffer Installed (ft)	400		
Average Buffer Width (ft)	100	–	–
Number of Trees Planted	500		
Tree Density (# per acre)	**544.50**	–	–

LOAD & REDUCTIONS

	Pre-BMP Load	Planned Reduction 2017-05-04	Reduction To-date
Nitrogen (lbs/yr)	16.53	9.58	**0.00** lbs/yr
Phosphorus (lbs/yr)	0.95	0.52	**0.00** lbs/yr
Sediment (tons/yr)	0.01	0.00	**0.00** lbs/yr

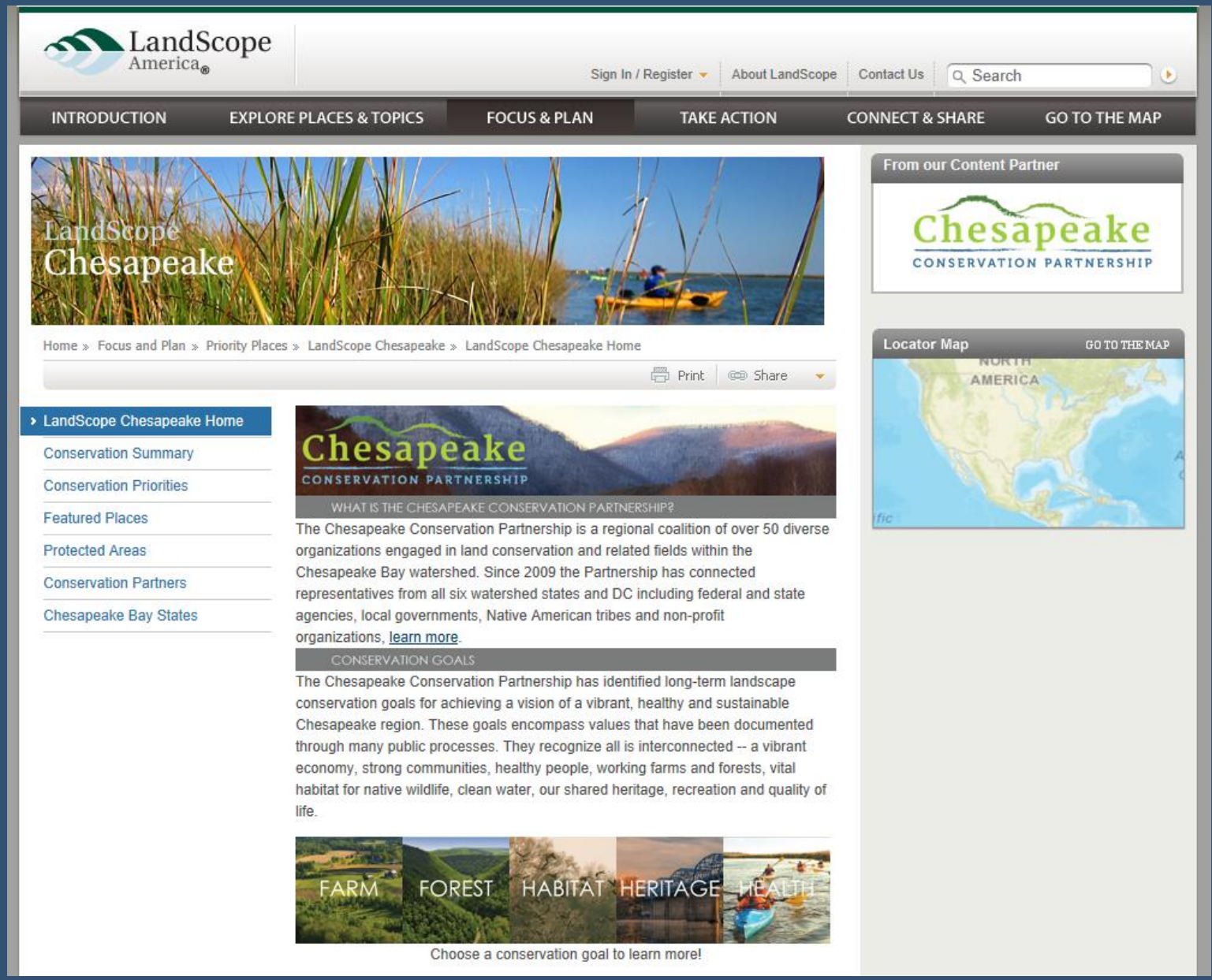
CHESAPEAKE BAY METRICS

	Planned 2017-05-04	Installed To-date	
Acres of Riparian Restoration	0.92	**0.00** acres	
Miles of Riparian Restoration	0.08	**0.00** miles	
Number of Trees Planted	500	**0** trees	0%

Chesapeake COMMONS

FIELDDOC

Setting conservation priorities



Chesapeake
CONSERVATION PARTNERSHIP

Advancing the New Case for Land and Landscape Conservation

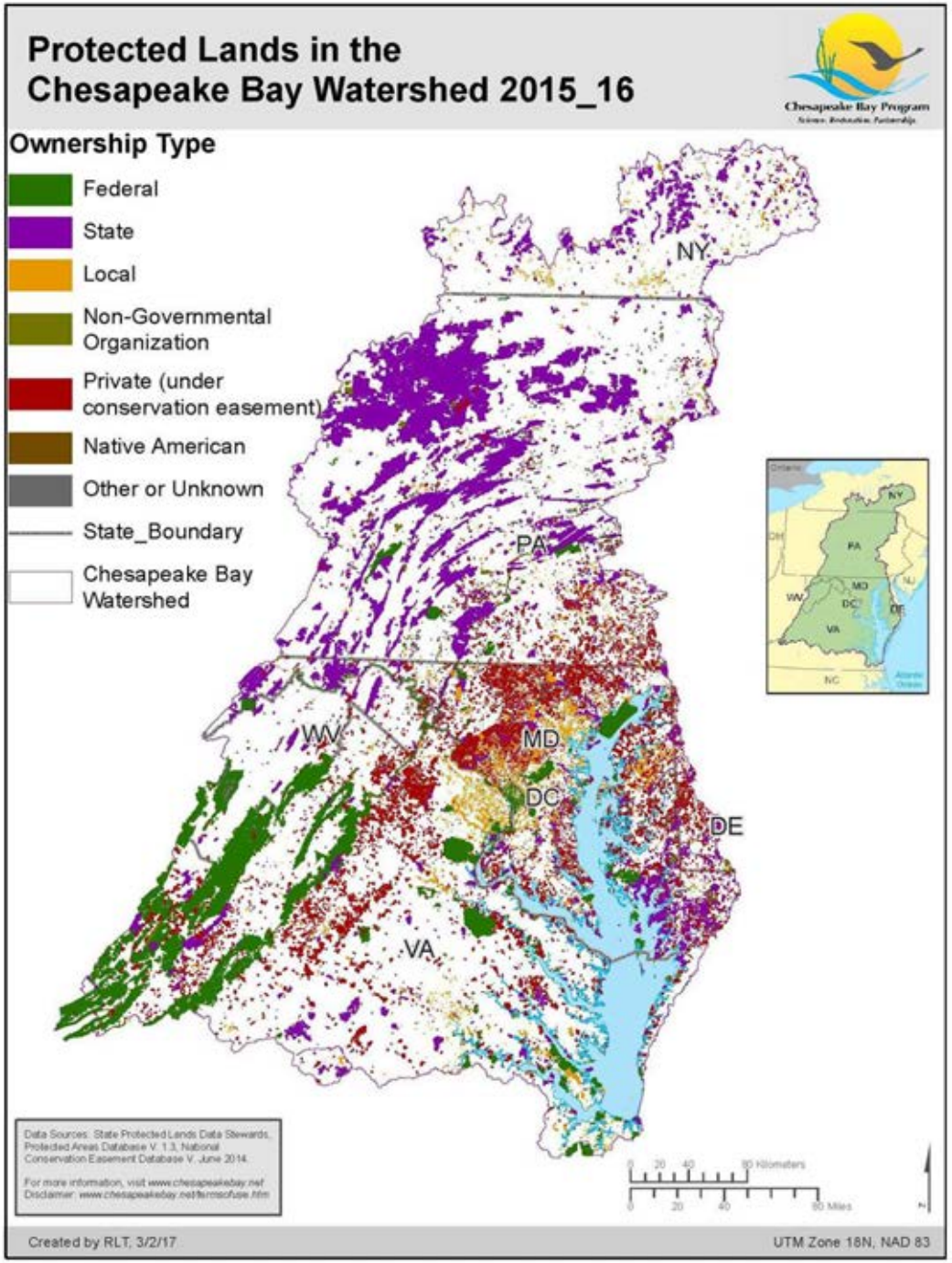

Chesapeake Conservancy
DCR
Virginia Department of Conservation & Recreation
DHR
Department of Historic Resources
Chesapeake
CONSERVATION PARTNERSHIP
Northern Neck Land Conservancy
Finger Lakes Land Trust
Preservation Virginia APVA 1889
Lower Shore Land Trust
ClearWater Conservancy
American Farmland Trust
Saving the Land that Sustains Us
Otsego Land Trust
Cacapon & Lost Rivers Land Trust
Civil War Trust
Civilwar.org
Accokeek Foundation
Anacostia Watershed Society
Chesapeake Bay Commission
Living Landscape Observer
Land Trust Alliance
Together, conserving the places you love
Piedmont Environmental Council
The Conservation Fund
Maryland Department of Natural Resources
James River Association
pennsylvania
Department of Conservation and Natural Resources
Journey Through Hallowed Ground Partnership
Maryland Historical Trust
NPC
Northcentral Pennsylvania Conservancy
Preservation Maryland
National Parks Conservation Association
Lancaster County Conservancy
Eastern Shore Land Conservancy
Appalachian Trail Conservancy
potomac conservancy
www.potomac.org
NatureServe
Maryland Environmental Trust
Susquehanna Gateway Heritage Area
1914 - 2014 Virginia Forestry
Shenandoah At War
National Historic District
The Trust for Public Land
Chesapeake Bay Program
Science. Restoration. Partnership.
The Nature Conservancy
Protecting nature. Preserving life.
Forest Service U.S. Department of Agriculture
Saving Nearby Nature
NVCT
Northern Virginia Conservation Trust
National Trust for Historic Preservation
Save the past. Enrich the future.

Chesapeake
CONSERVATION PARTNERSHIP

Fostering collaborative action to conserve culturally and ecologically important landscapes to benefit people, economies, and nature throughout the six-state watershed.

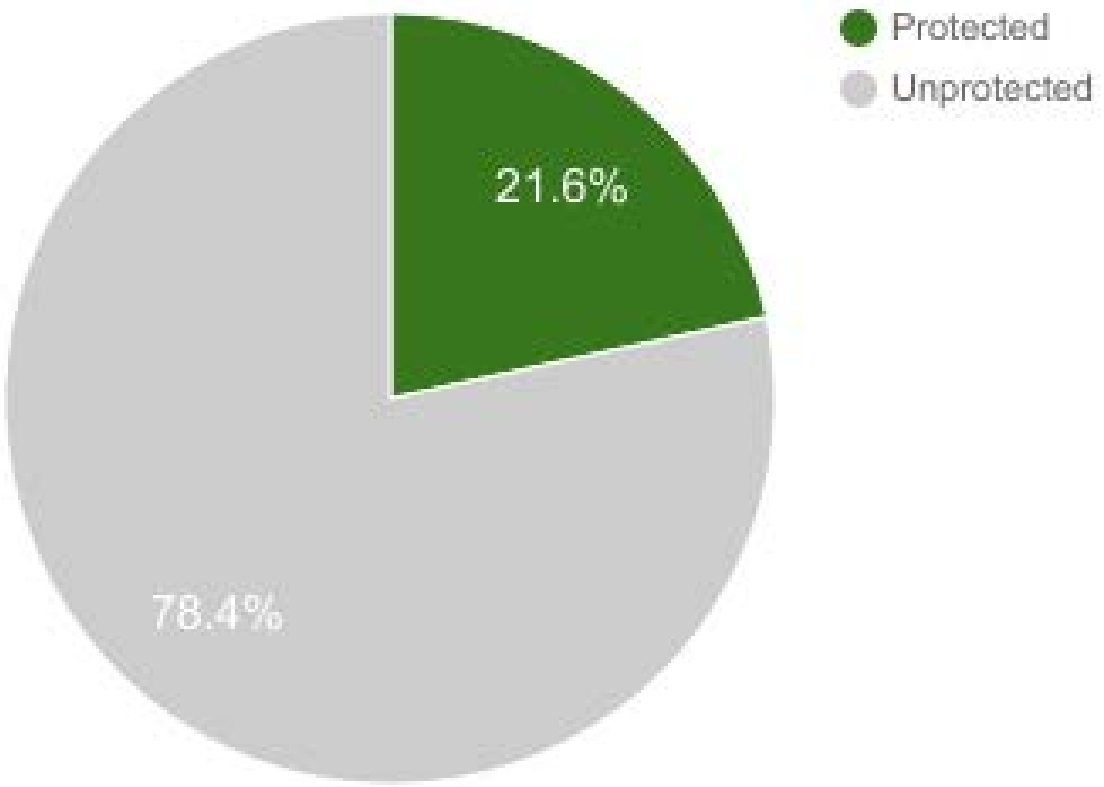
Protected Lands in the Chesapeake Bay Watershed 2015_16

Chesapeake Bay Program

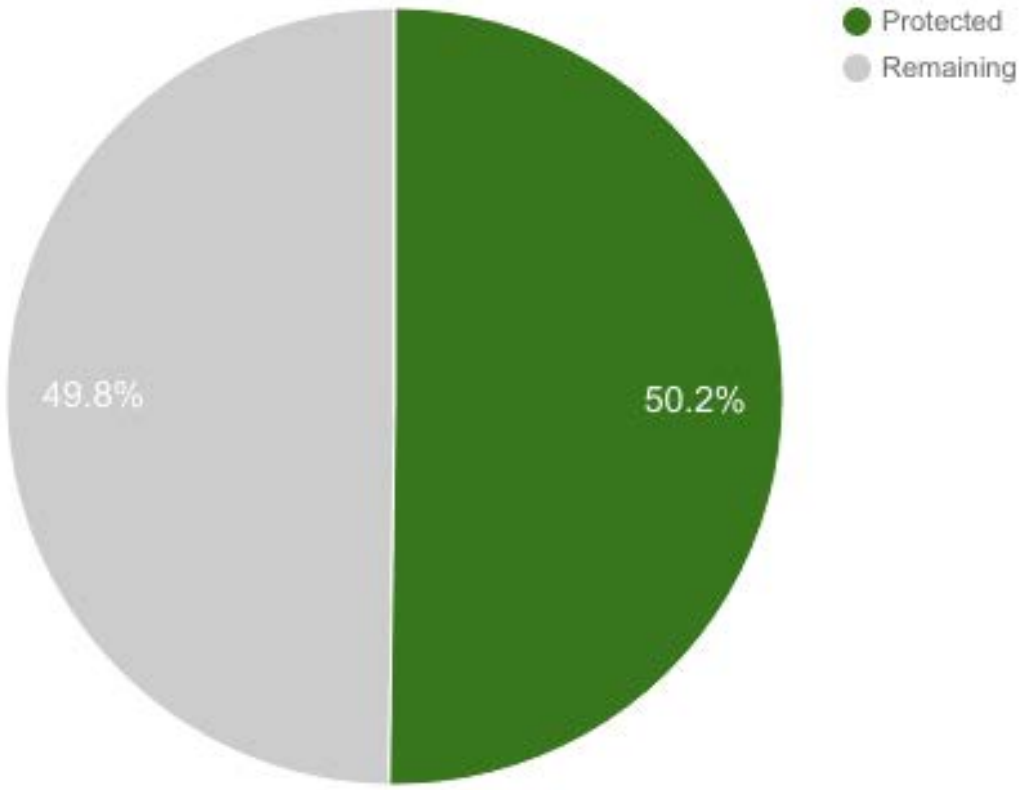


Created by RLT, 3/2/17

UTM Zone 18N, NAD 83



8,804,577 acres protected

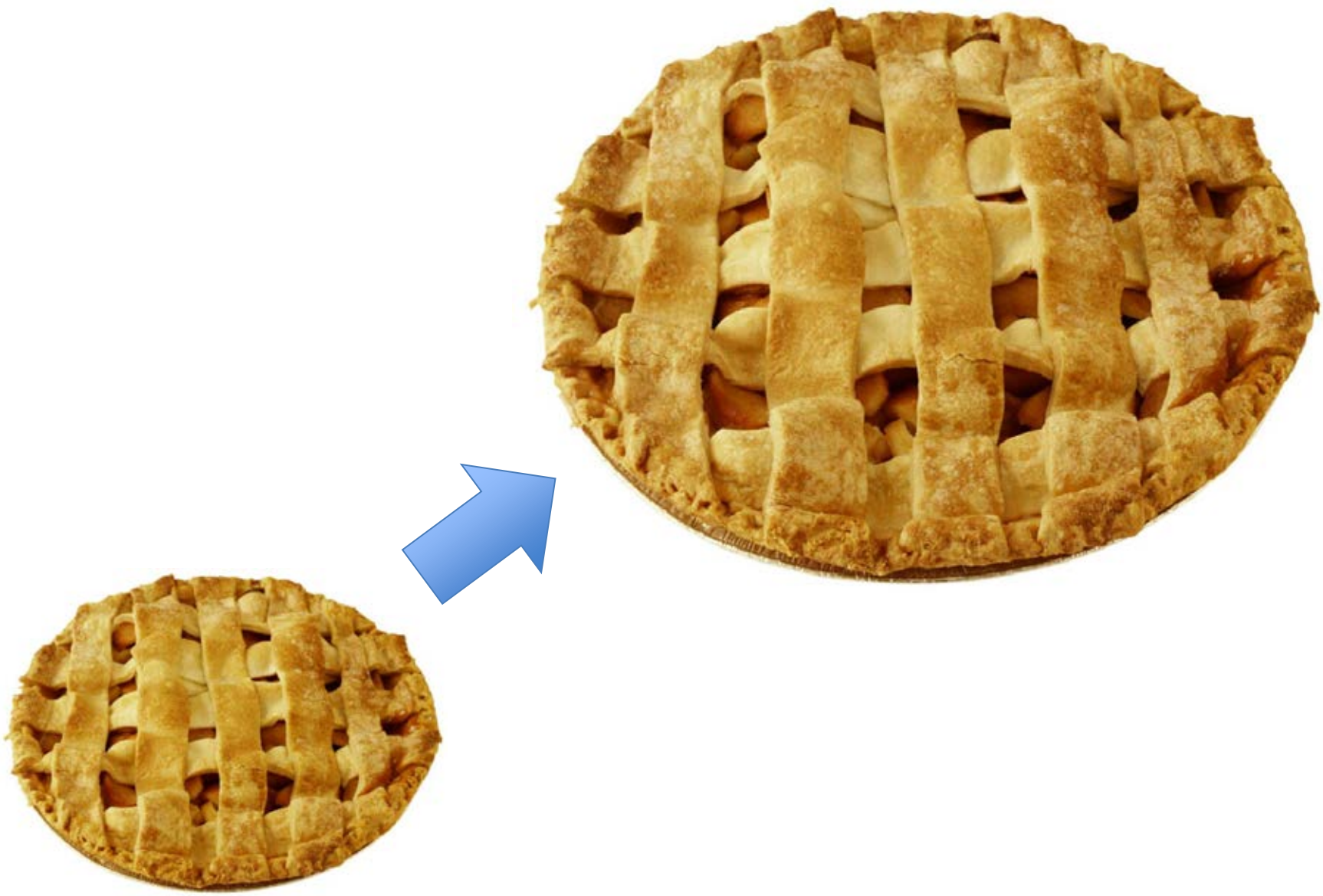


Progress toward 2 M acre goal

Advancing the New Case for Land & Landscape Conservation

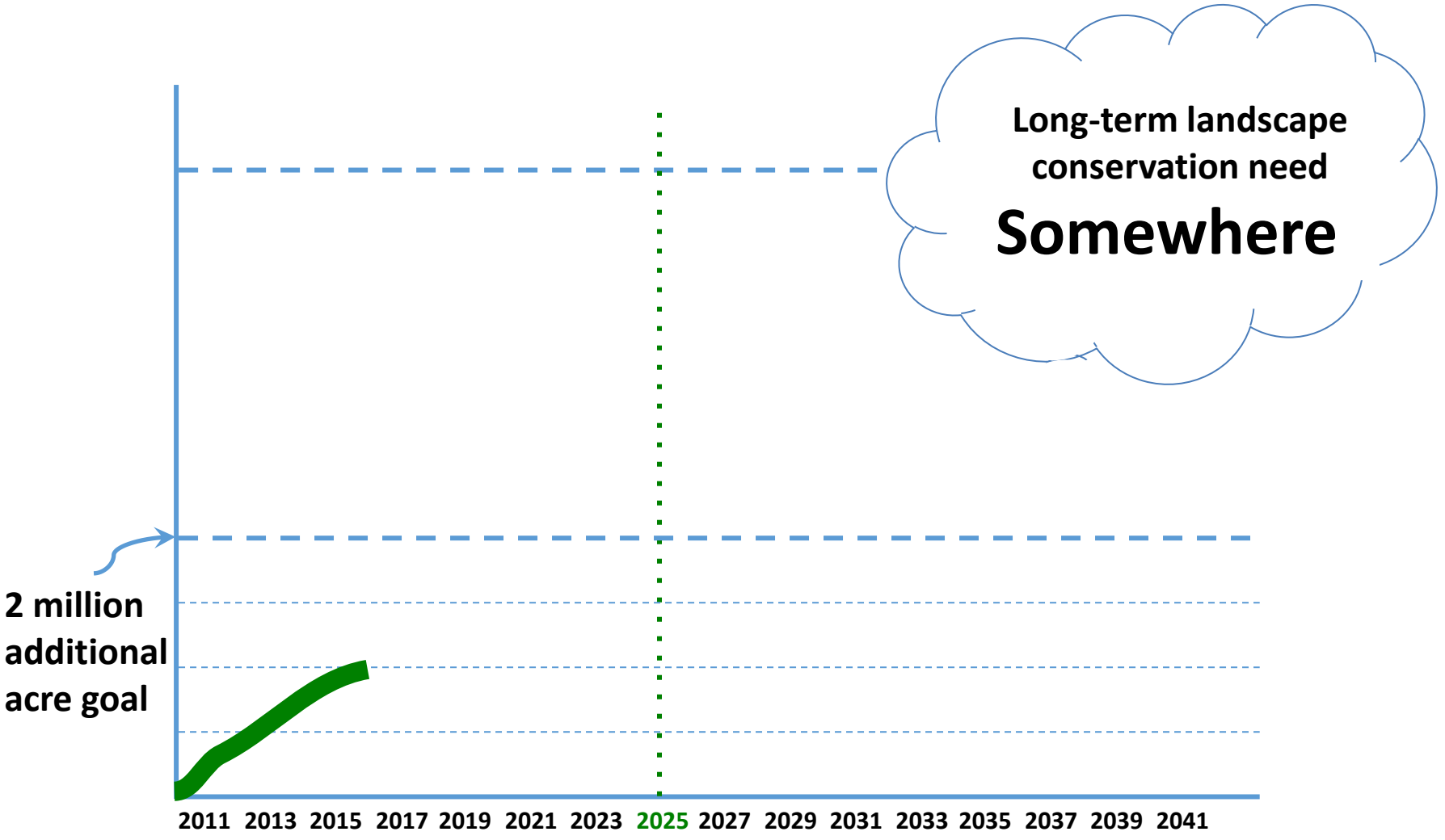
Chesapeake CONSERVATION PARTNERSHIP

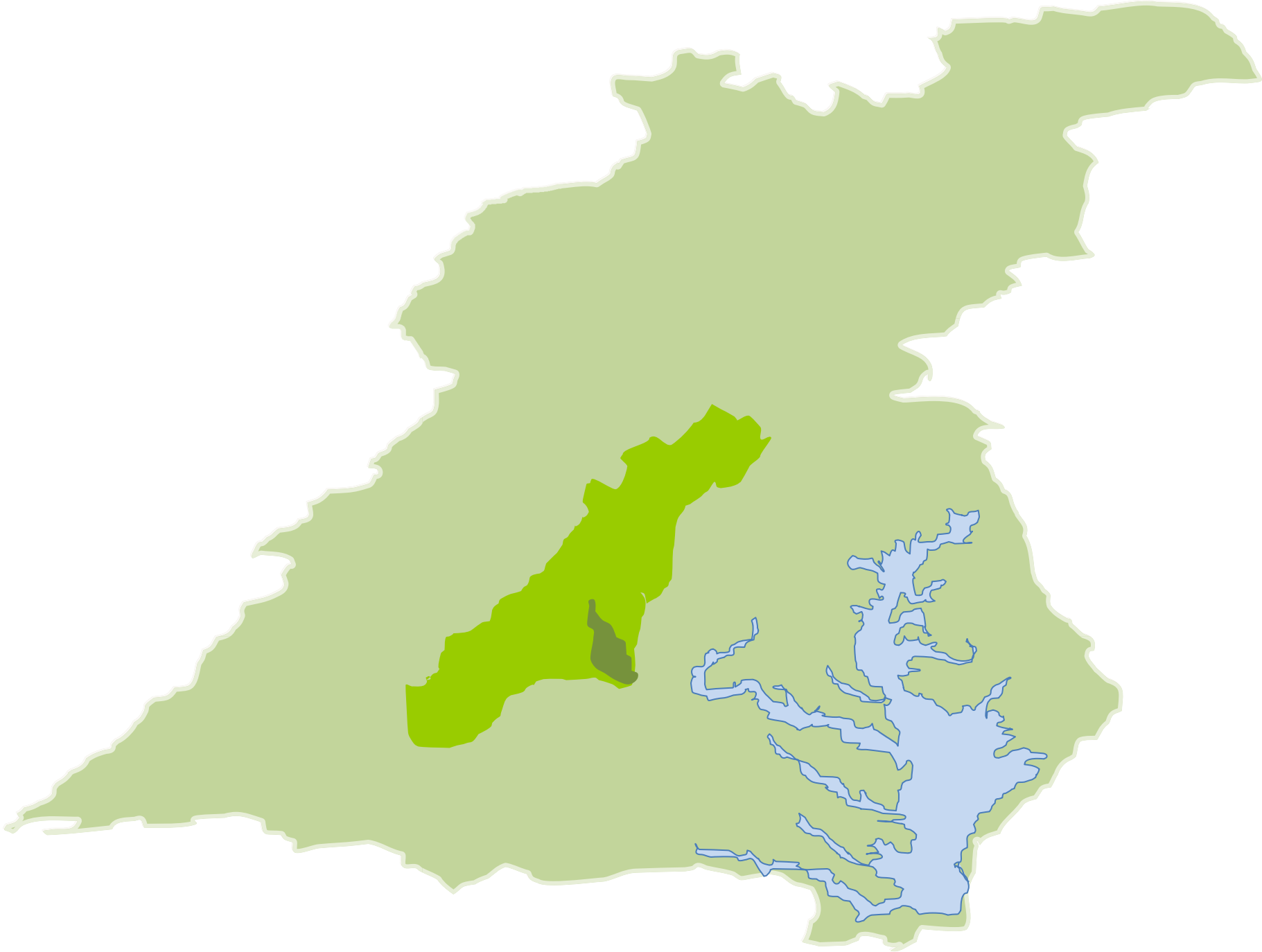
1. Set Long-term Goals
2. Document & Illustrate
3. 'Grow the Pie' Strategies
4. Track Progress



The long term ask

Somewhere


Long-term landscape conservation need
Somewhere
2 million additional acre goal
2011 2013 2015 2017 2019 2021 2023 2025 2027 2029 2031 2033 2035 2037 2039 2041



Our Guidelines

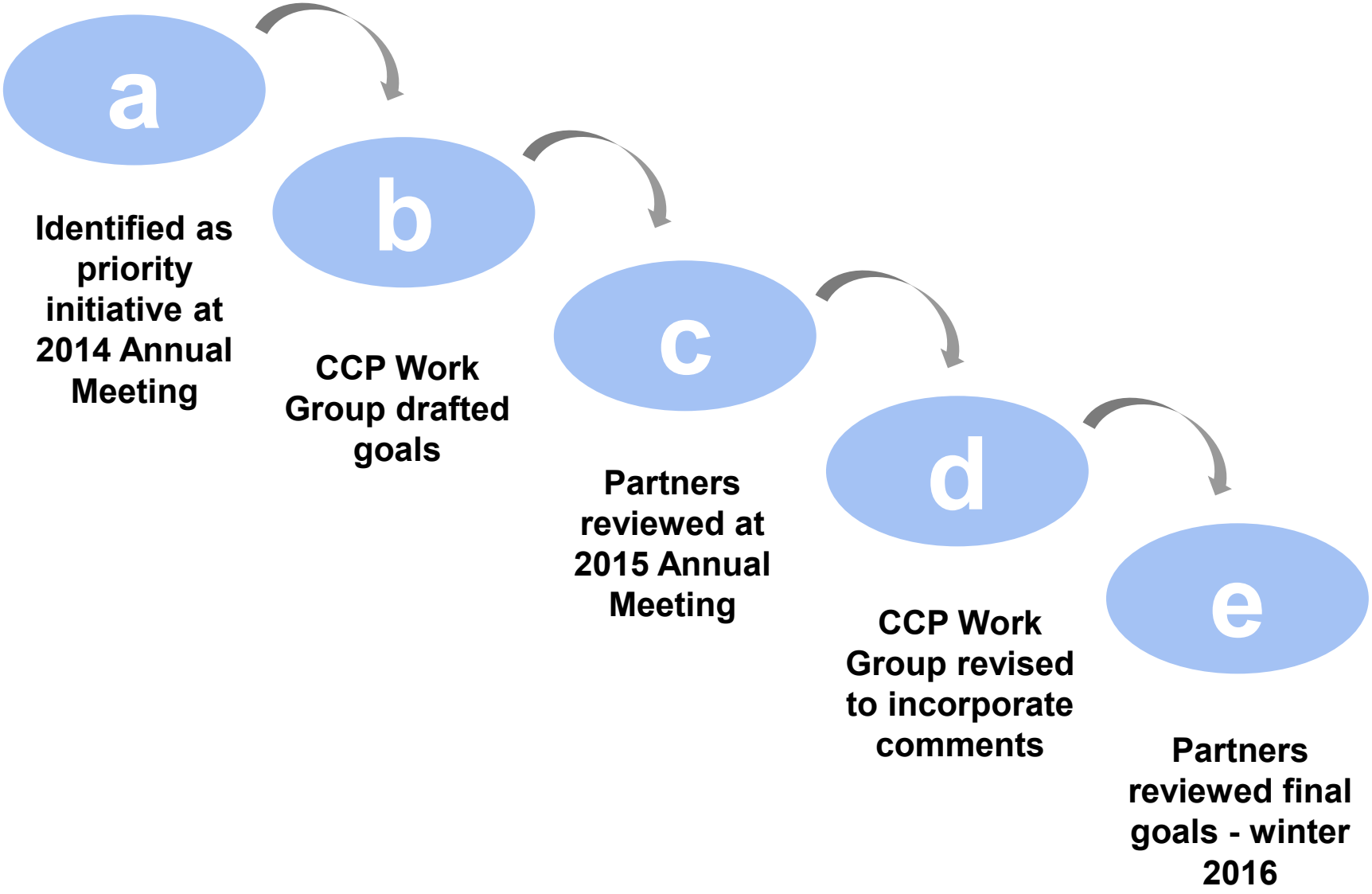
Pooling our priorities gives greater influence.

Everyone's land conservation goals and priorities are important.

The Partnership's landscape conservation goals must be inclusive of all partners' goals.

Dividing the pie is not our interest. Making the pie bigger is.

A set of inclusive and cumulative long-term landscape conservation goals reflecting what we all want to conserve in the Chesapeake watershed.


a
Identified as priority initiative at 2014 Annual Meeting
b
CCP Work Group drafted goals
c
Partners reviewed at 2015 Annual Meeting
d
CCP Work Group revised to incorporate comments
e
Partners reviewed final goals - winter 2016

Farms

Forests

Habitat

Heritage

Health

Farms

Forests

Habitat

Heritage

Health

All interconnected:

Vibrant economy

Strong communities

Healthy people

Working farms/forests

Thriving native wildlife

Clean water

Healthy watersheds

Shared heritage

Recreation

Quality of life

1. Set Long-term Goals
2. Document & Illustrate
3. ‘Grow the Pie’ Strategies
4. Track Progress

−

Existing Protected Lands

=

Long-term Conservation Need

How to get there?

Mapping 1.0 - October 2016

- Presented at Annual Meeting

Mapping 1.1 - March 2017

- Addressed Annual Meeting comments
- Improved data and cartography
- Published to LandScope

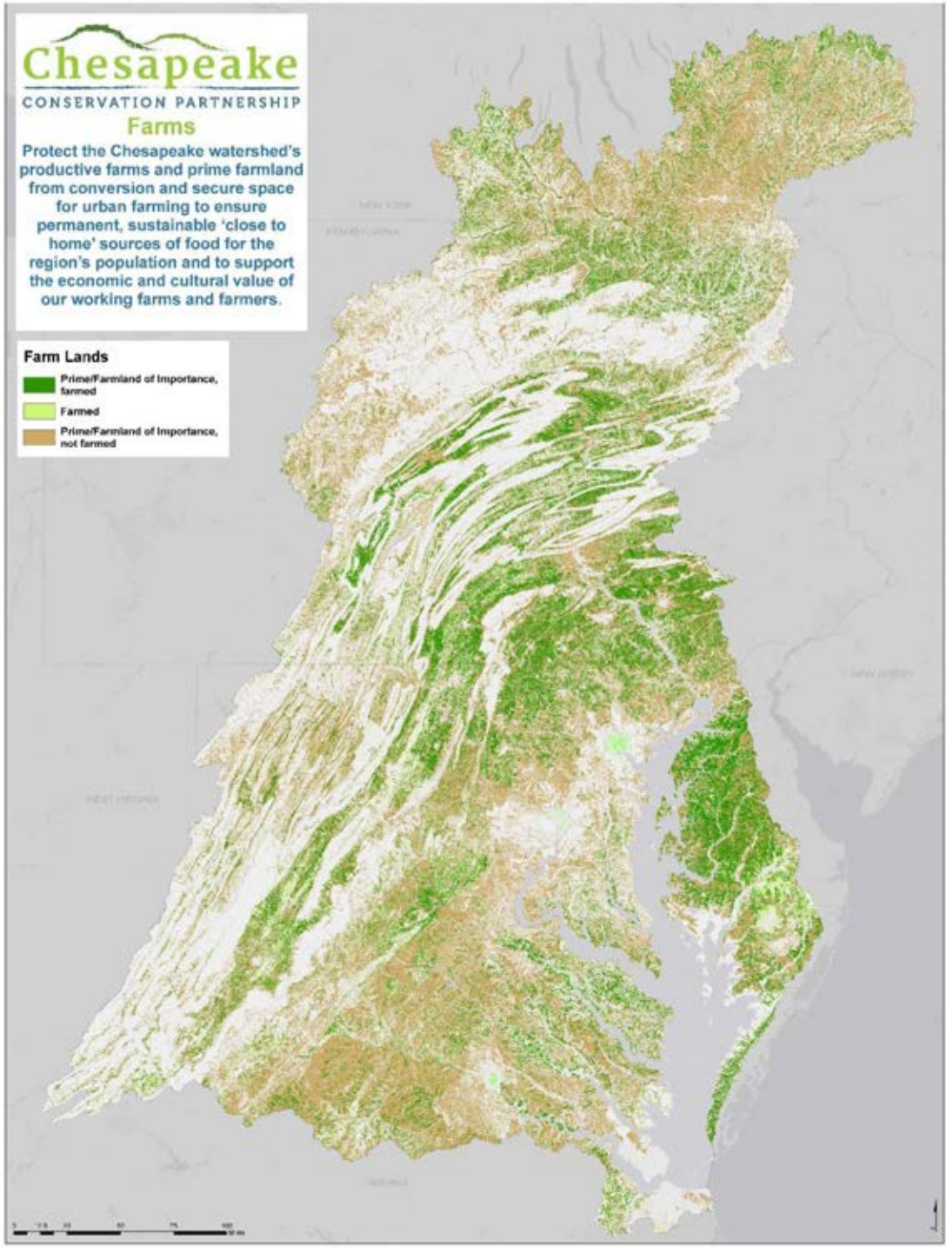
Farms

Protect the Chesapeake watershed's productive farms and prime farmland from conversion and secure space for urban farming to ensure permanent, sustainable 'close to home' sources of food for the region's population and to support the economic and cultural value of our working farms and farmers.

Farms

Farm Lands

- Prime/Farmland of Importance, farmed
- Farmed
- Prime/Farmland of Importance, not farmed



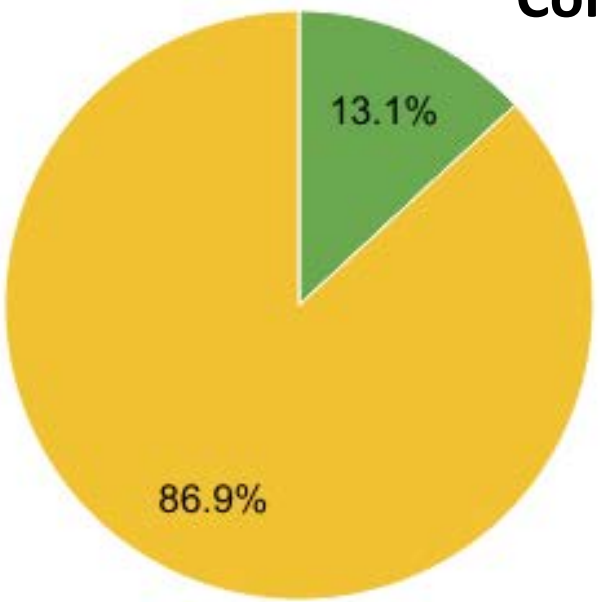
Farms

Total Important Farmland

20,582,542 ac.
50% of watershed

6,923,975 ac. in production

Conserved



Forests

Protect the Chesapeake watershed's most ecologically and economically valuable forest land from conversion--headwater and riparian forests, large forest blocks, woodlots providing multiple values, and highly productive timber growing soils.

Forests

Headwater and Riparian Forests:

Headwater forests: Catchments with first-order stream in the top half of elevation values.

Riparian forests: Areas within a 10 meter buffer of streams.

Large Forest Blocks: **Blocks of contiguous forest 500 acres or larger.**

Multiple Value Woodlots: **Blocks of contiguous forest between 50 & 500 acres.**

Forests Conducive to Timber Harvest: **Areas of harvestable contiguous forest blocks 500 acres or larger with less than 30% slopes.**

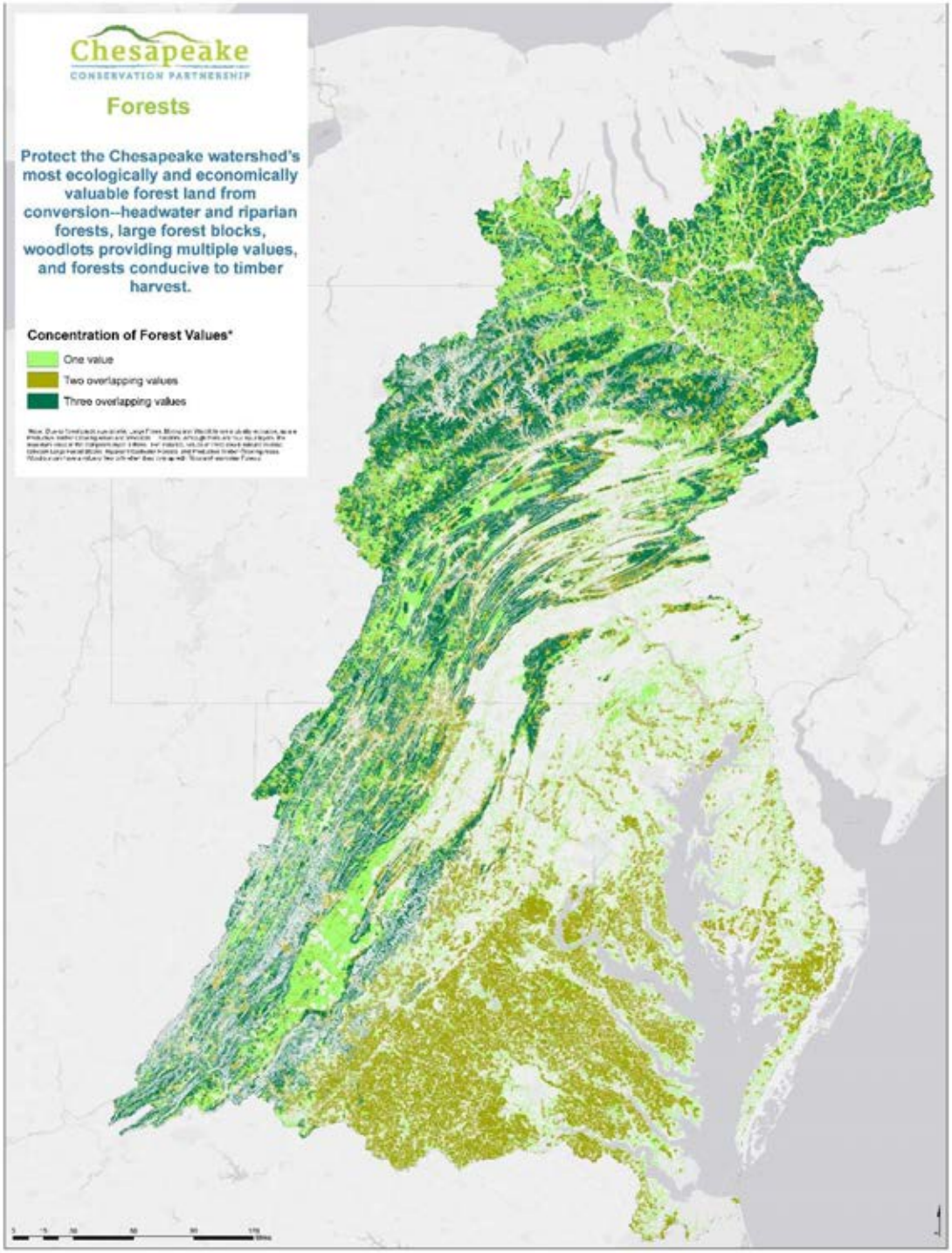
Developed in collaboration with CBP Forestry Work Group

Forests

Concentration of Forest Values*

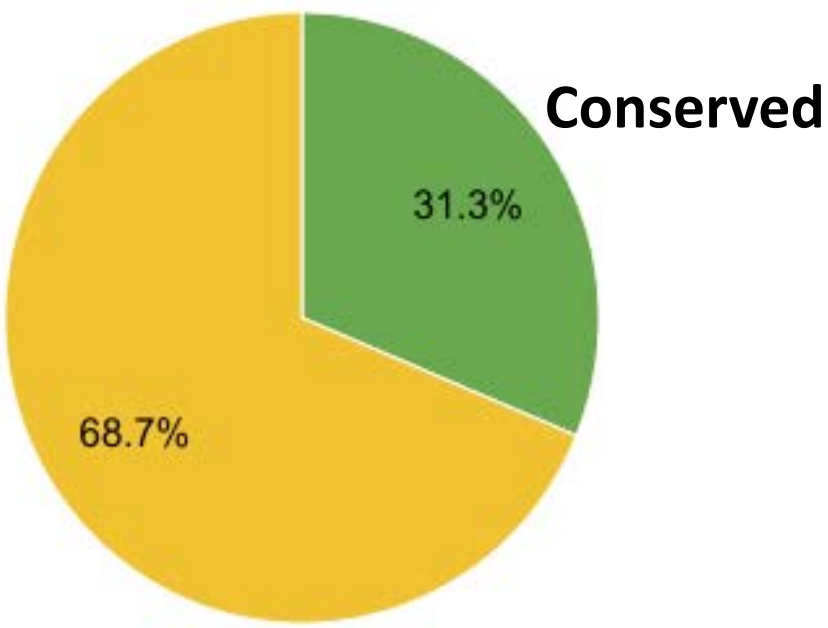
- One value
- Two overlapping values
- Three overlapping values

*Note: Due to forest patch size criteria, Large Forest Blocks and Woodlots are mutually exclusive, as are Productive Timber Growing Areas and Woodlots. Therefore, although there are four input layers, the maximum value in the composite layer is three. For instance, values of three could indicate overlap between Large Forest Blocks, Riparian/Headwater Forests, and Productive Timber Growing Areas. Woodlots can have a value of two only when they overlap with Riparian/Headwater Forests.



Forests

Total Important Forests **22,124,849 ac.**
54% of watershed



Habitat

Protect a network of large natural areas and corridors sufficient to allow nature to respond to a changing climate and land development and to support thriving populations of native wildlife, migratory birds, fish and plants and sustain at-risk species.

Habitat

Terrestrial and Wetland Core Areas: **Intact, connected places supporting a diverse fish, wildlife, plants, and the ecosystems on which they depend.**

Terrestrial Connectors: **Connectors allow movement from one core area to another, and flow for ecological features and processes as conditions change.**

Aquatic Core Networks and Buffers: **Includes lotic and lentic core areas (stream reaches, lakes and ponds) and aquatic core buffers.**

Developed by North Atlantic LCC in consultation with the Regional Conservation Opportunity Areas Team of the Northeast Association of Fish and Wildlife Agencies. CBP Habitat Goal Team using same map.

Habitat

River and Stream (lotic) Core Network

Lake and Pond (lentic) Core Network

Aquatic Buffers

Highest (0.95 - 1)

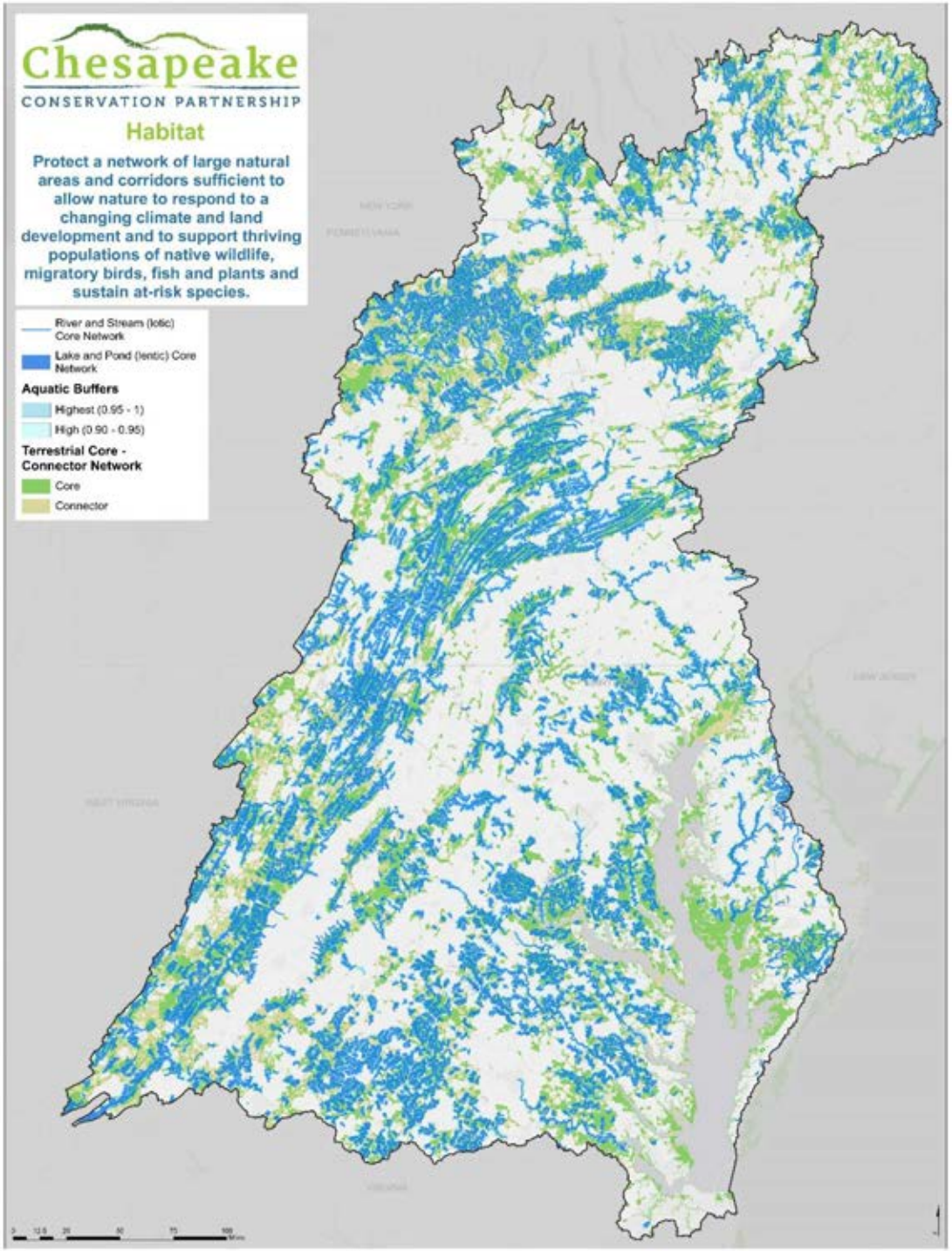
High (0.90 - 0.95)

Terrestrial Core - Connector Network

Core

Connector

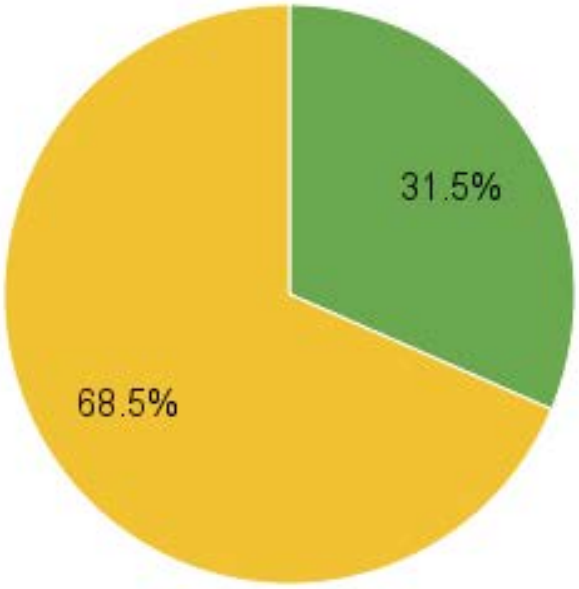
Developed by North Atlantic LCC in consultation with the Regional Conservation Opportunity Areas Team of the Northeast Association of Fish and Wildlife Agencies. CBP Habitat Goal Team using same map.



Habitat

Total Important Habitat **21,096,374 ac.**
51% of watershed

Conserved so far

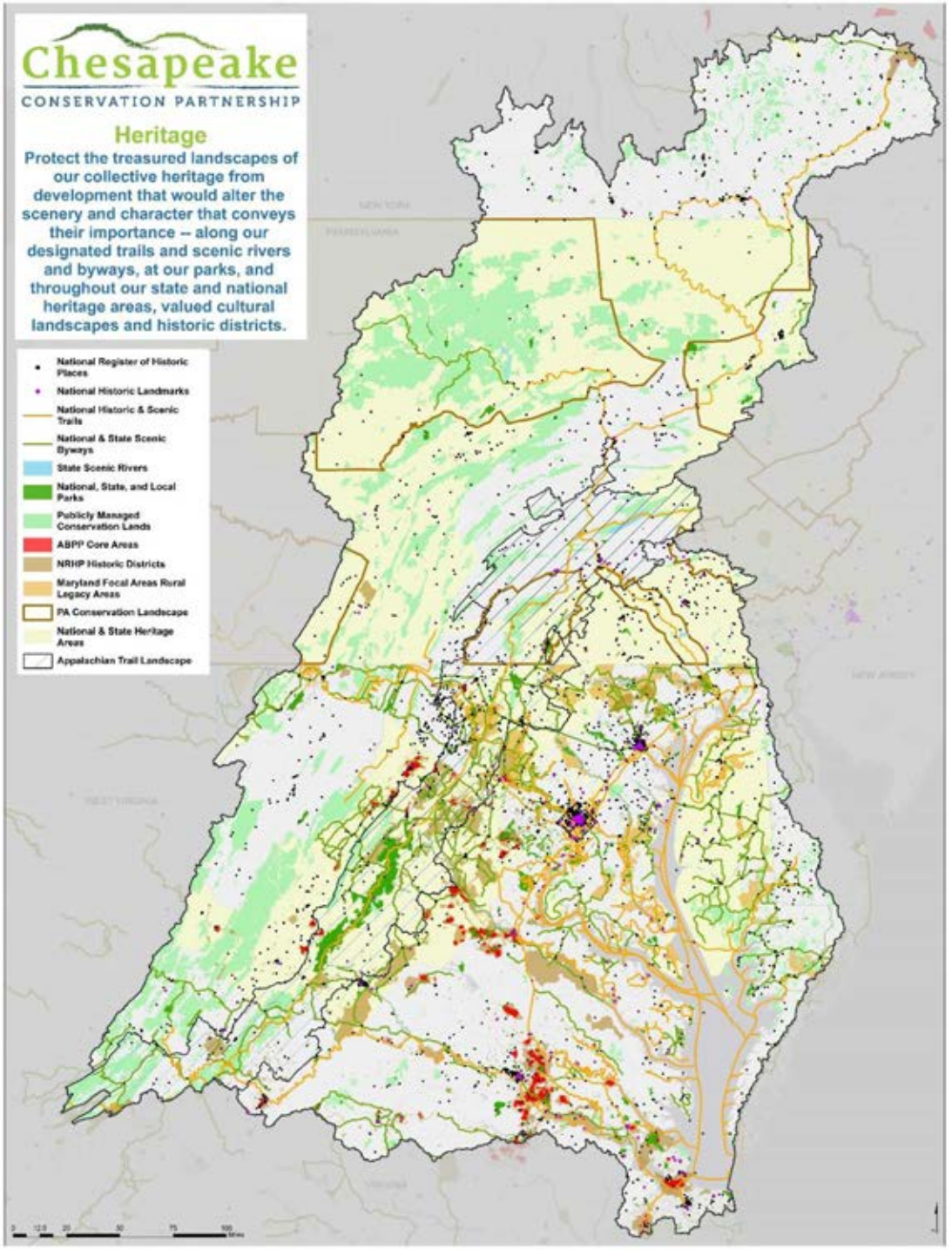


Heritage

Protect the treasured landscapes of our collective heritage from development that would alter the scenery and character that conveys their importance -- along our designated trails and scenic rivers and byways, at our parks, and throughout our state and national heritage areas, valued cultural landscapes and historic districts.

Heritage

- National Register of Historic Places
- National Historic Landmarks
- National Historic & Scenic Trails
- National & State Scenic Byways
- State Scenic Rivers
- National, State, and Local Parks
- Publicly Managed Conservation Lands
- ABPP Core Areas
- NRHP Historic Districts
- Maryland Focal Areas Rural Legacy Areas
- PA Conservation Landscape
- National & State Heritage Areas
- Appalachian Trail Landscape

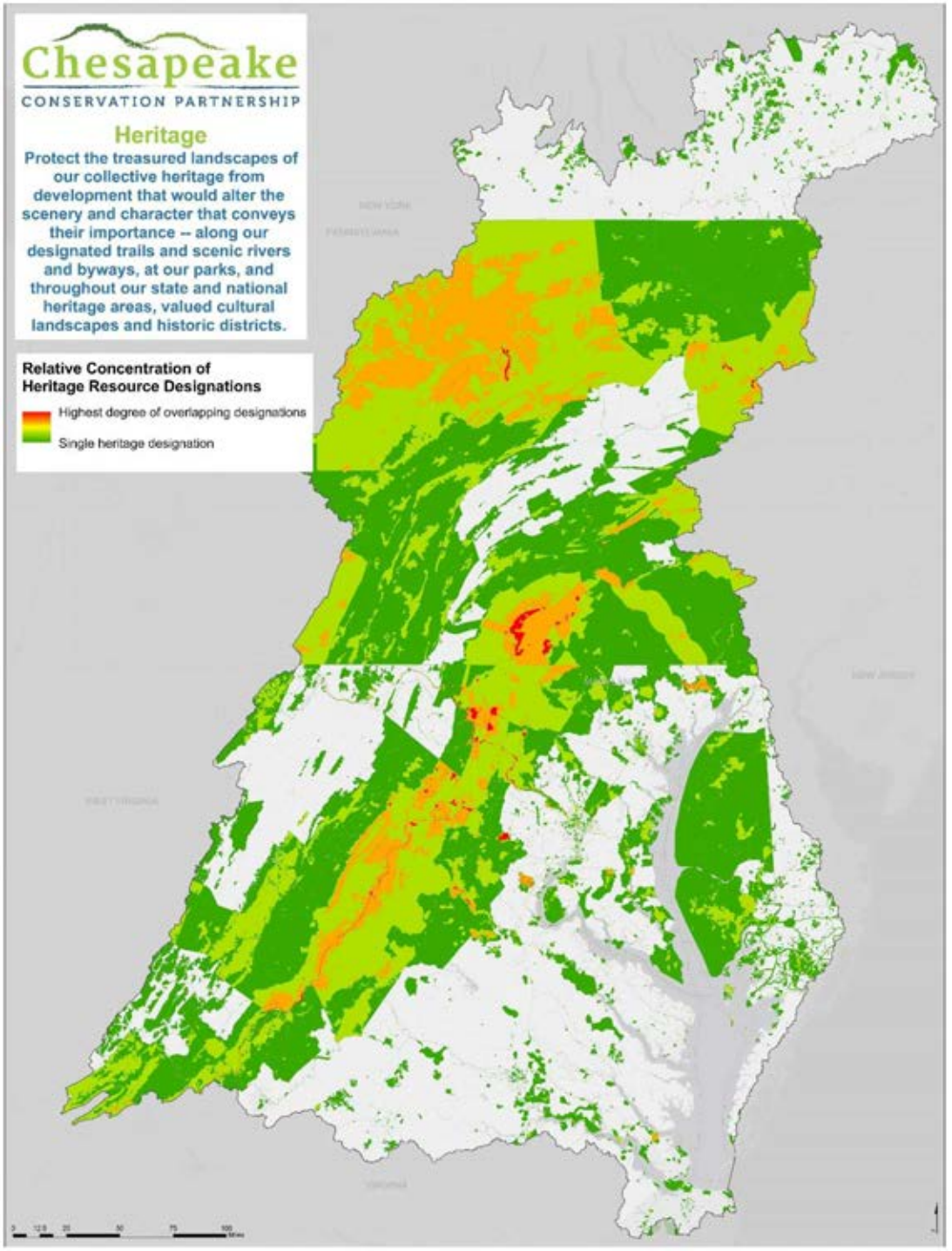


Heritage

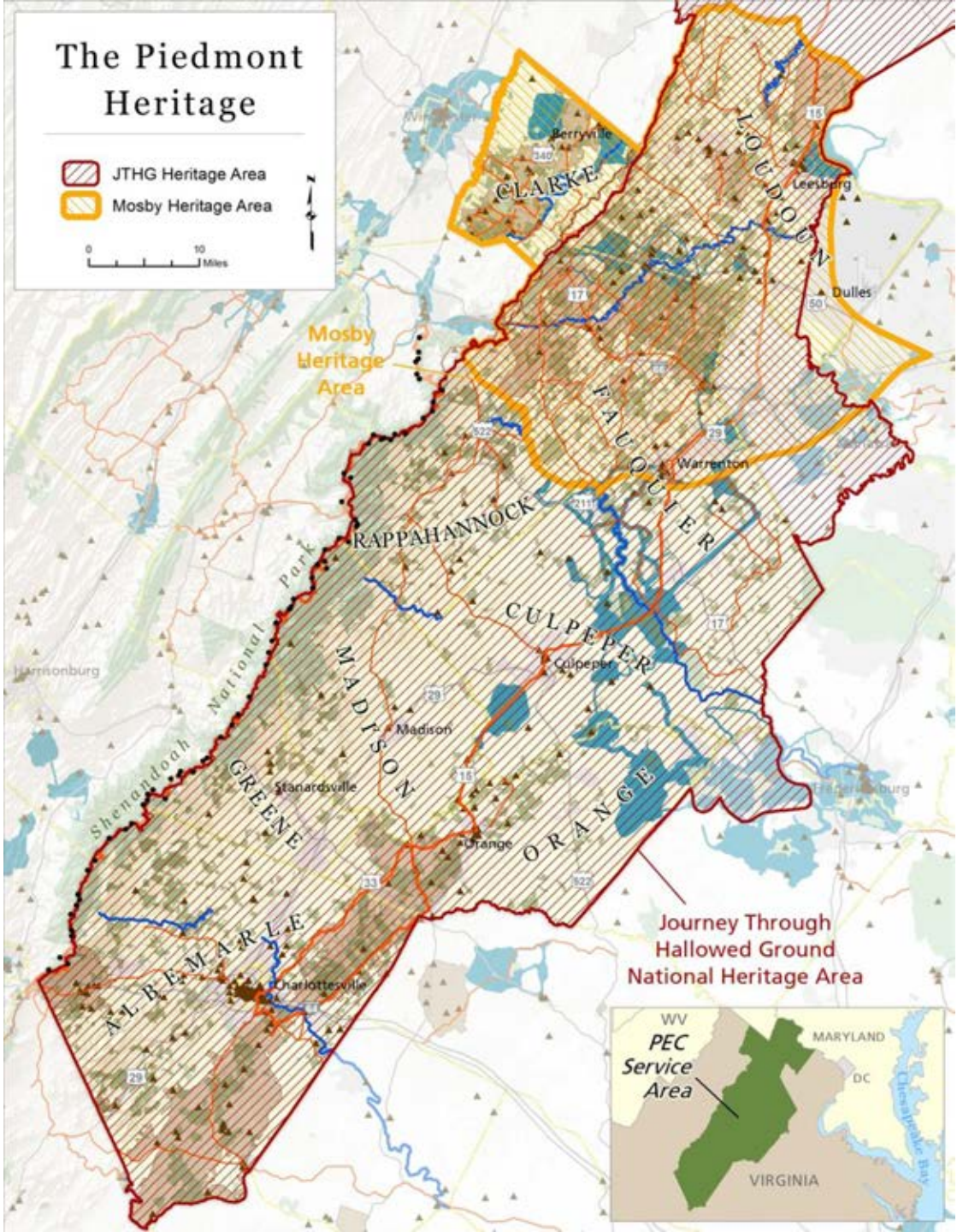
Relative Concentration of Heritage Resource Designations

Highest degree of overlapping designations

Single heritage designation



Heritage


The Piedmont Heritage
JTHG Heritage Area
Mosby Heritage Area
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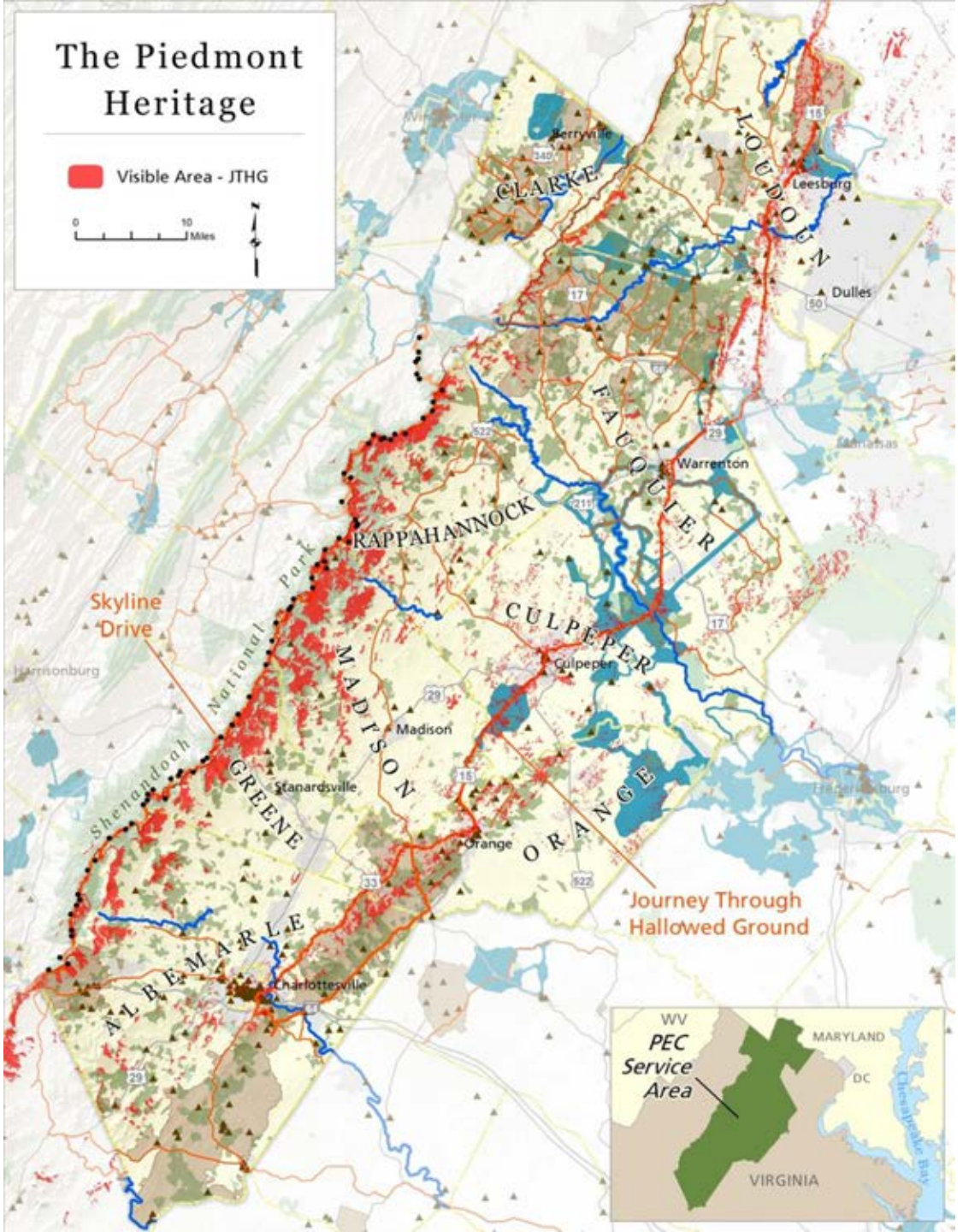
Miles
Mosby Heritage Area
CLARKE
LOUDOUN
FAUQUIER
RAPPAHANNOCK
CULPEPER
MADISON
GREENE
ORANGE
ALBEMARLE
Shenandoah National Park
Berryville
Leesburg
Dulles
Warrenton
Culpeper
Madison
Stanardsville
Orange
Charlottesville
Harrisonburg
Fredericksburg
Journey Through Hallowed Ground National Heritage Area
WV
PEC Service Area
MARYLAND
DC
VIRGINIA
Chesapeake Bay

Heritage


The Piedmont Heritage
Visible Area - JTHG
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LOUDOUN
FAUQUIER
RAPPAHANNOCK
CULPEPER
MADISON
GREENE
ORANGE
ALBEMARLE
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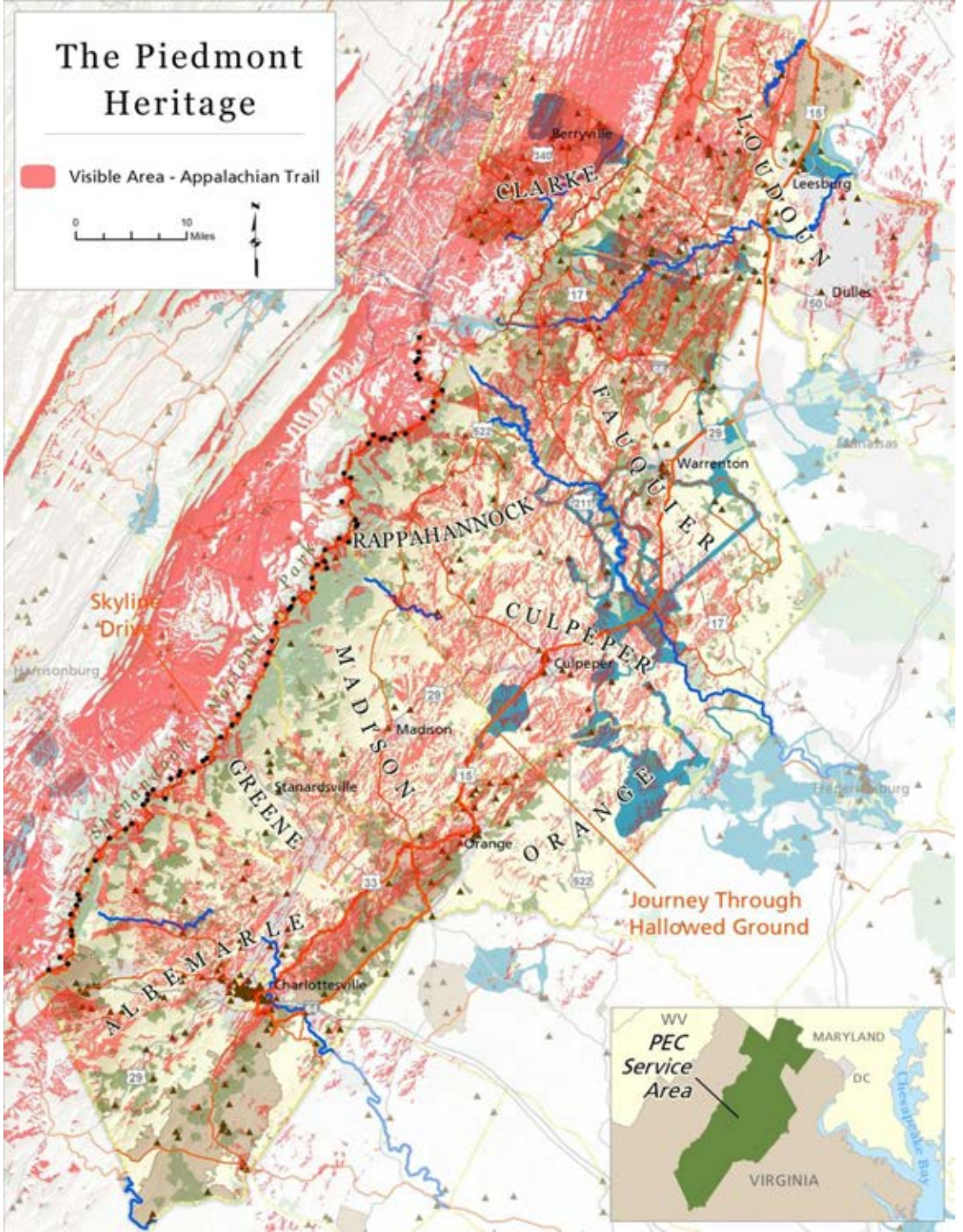
Madison
Stanardsville
Orange
Charlottesville
Harrisonburg
WV
PEC Service Area
MARYLAND
DC
VIRGINIA

Heritage


The Piedmont Heritage
Visible Area - Appalachian Trail
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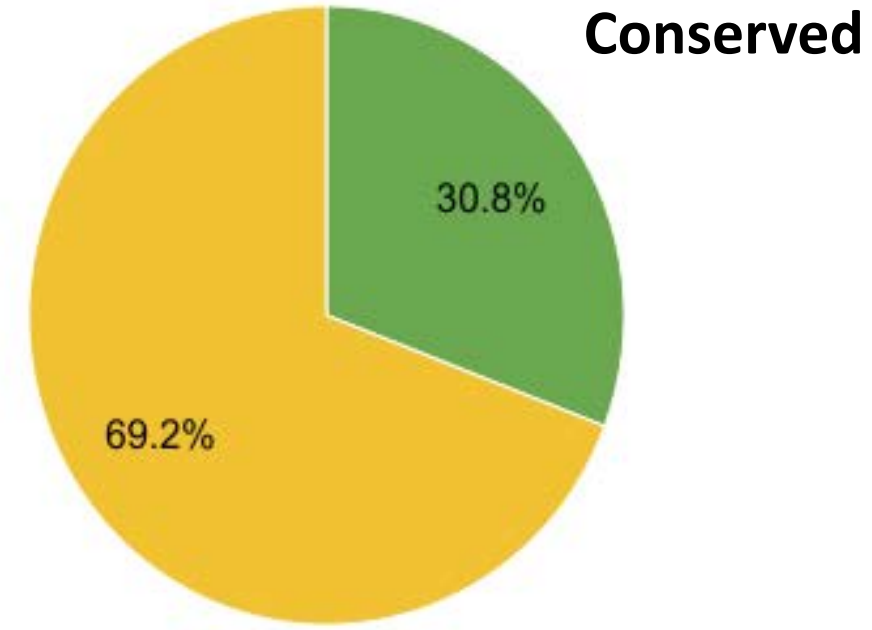
Miles
Berryville
CLARKE
LOUDOUN
Leesburg
Dulles
FAUQUIER
Warrenton
RAPPAHANNOCK
CULPEPER
Culpeper
Skyline Drive
Shenandoah National Park
MADISON
Madison
GREENE
Stanardsville
ORANGE
Orange
Journey Through Hallowed Ground
ALBEMARLE
Charlottesville
WV
PEC Service Area
MARYLAND
DC
VIRGINIA

Heritage

Total Important Heritage **20,651,048 ac.**
50% of watershed



Human Health

Provide people access to parks and trail networks within walking and biking distance of their homes and communities. Provide sufficient opportunities along waterways to ensure nearly all residents are within 30 minutes of reaching a public access site at water's edge.

1

2

Human Health

Availability of Public Access Sites at Water's Edge

Average Population Served

(Total Population / Number of Access Sites within 30 minutes of an access site)

- 0 - 3,000
- 3,001 - 6,000
- 6,001 - 15,000
- 15,001 - 35,000
- >35,000

Areas Within 30 Minute Drive time of Public Access Sites

- Access Sites with Boating
- Access Sites with fishing, swimming, or viewing
- Access sites with either boating OR fishing, swimming, or viewing.

*Note: Some access sites may have both boating and non-boating ammenities and were included in both analyses

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Human Health

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Resource Overlap

Comparing relative priorities across categories can help identify landscapes where there is a high degree of overlap between resource values and conservation efforts could help achieve multiple goals at the same time

Degree of Resource Overlap

High Degree of Overlap

Low Degree of Overlap

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Composite -
Farms, Forests, Habitat and Heritage

This overlay of the important resources identified through the Farms, Forests, Habitat and Heritage goals illustrates varying degrees of overlap. Warmer colors depict areas with the highest degree of multiple resource values, where conservation efforts achieve multiple goals.

Resource Overlap values (top 50%)

- Highest Scores
- Moderately High Scores

What’s Next?

March Spring - Summer Fall

Protected Lands

Composite : F,F,H,H

Long-term Conservation Need

+

Influences

Growth

Climate Impacts

Regional Focal Areas

Agriculture Expansion

Protection Status

Energy & Infra-structure

Areas of Urgency or Opportunity

UPDATES

NEW FUNDING STRATEGIES
For
CONSERVATION/ RESTORATION

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John Griffin, Program Manager
CHESAPEAKE CONSERVATION PARTNERSHIP

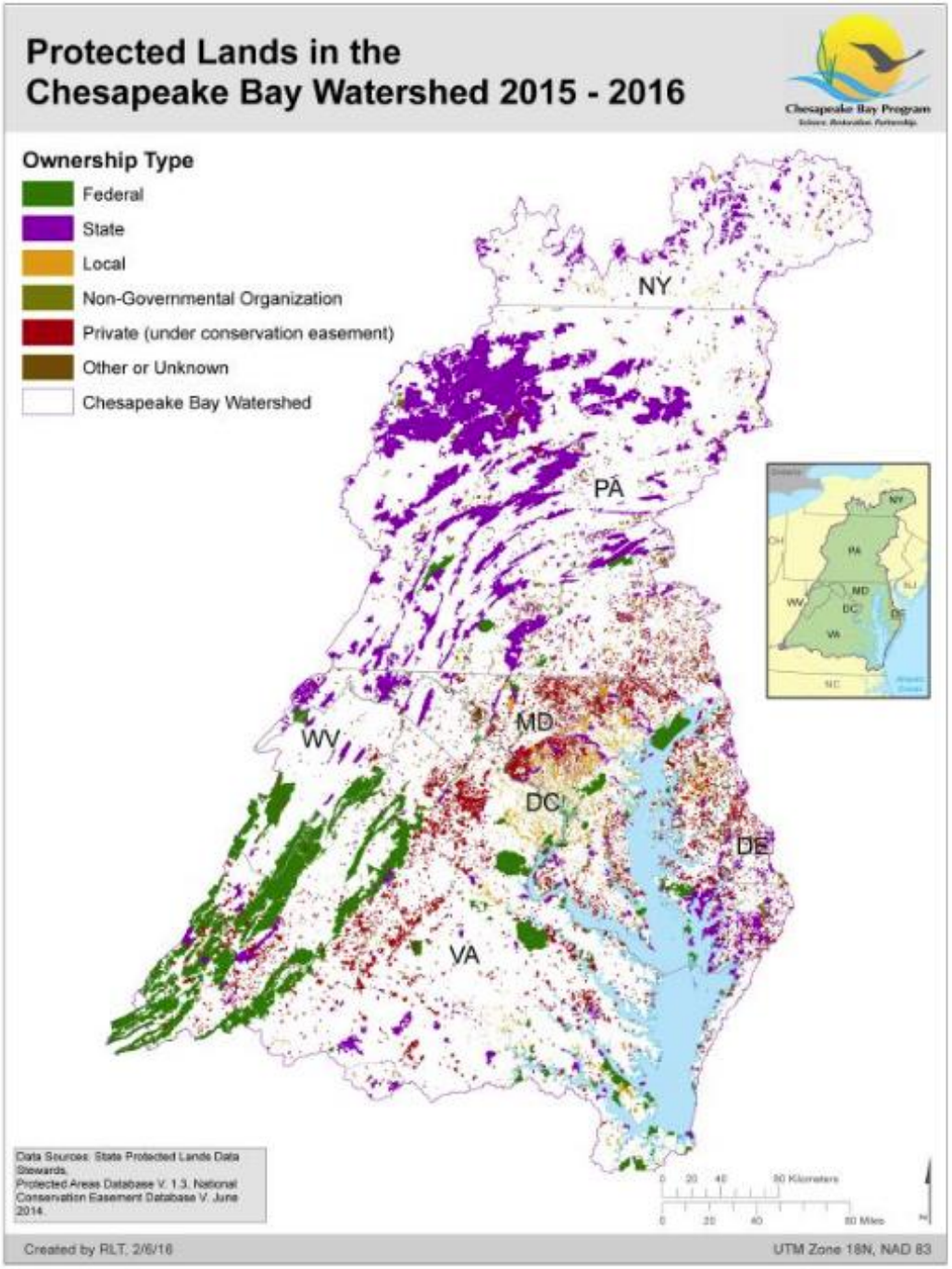
Current Focus on Two Strategies

- Crediting Conservation in the Bay Model Updates
- Mitigation for Linear Projects: No Net Loss & Net Benefit

Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to…

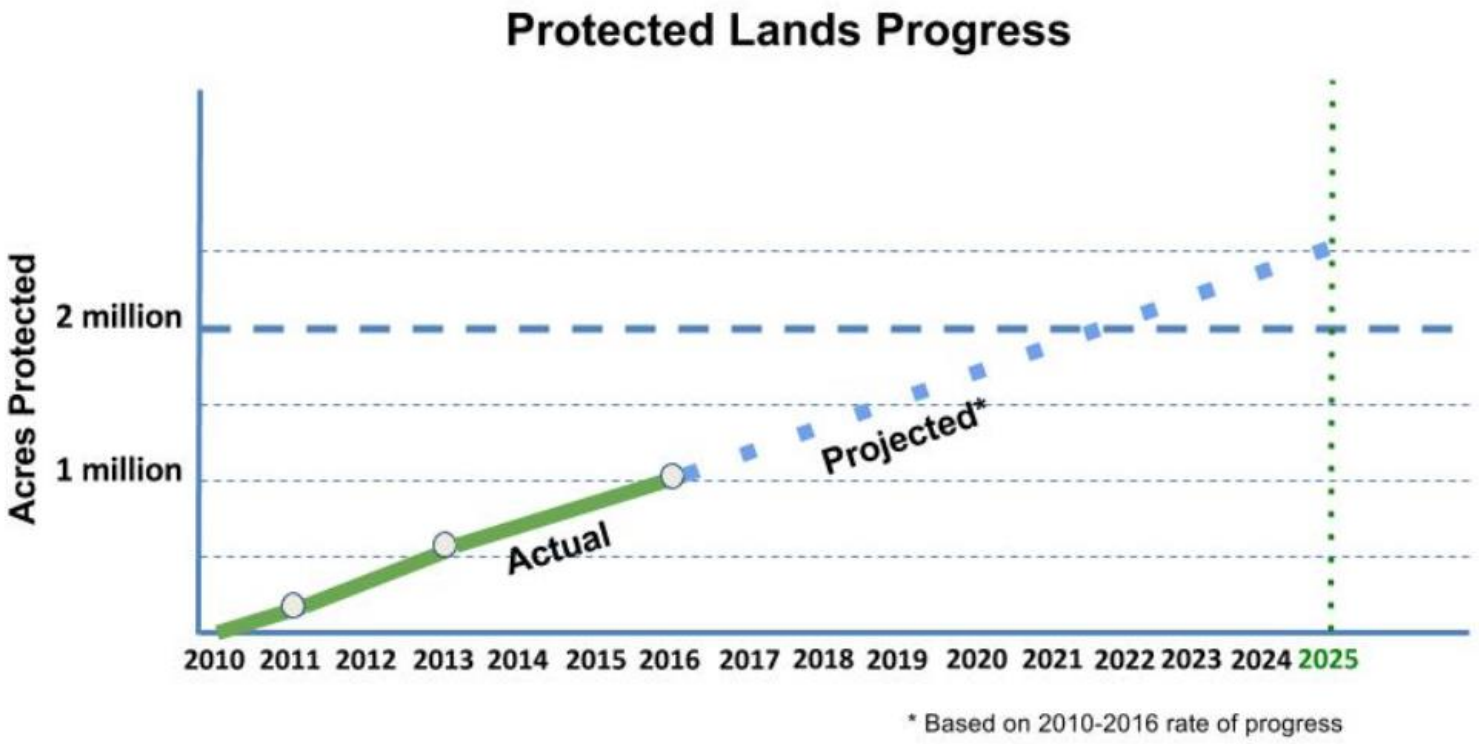
By 2025, **protect an additional two million acres** of lands throughout the watershed—currently identified as high-conservation priorities a the federal, state, or local level—including **225,000 acres** of wetlands and **695,000 acres** of forest land of highest value for maintaining water quality

Protected Lands in the Chesapeake Bay Watershed 2015 - 2016




8.8 million acres
and counting
CBP

Are we on track?

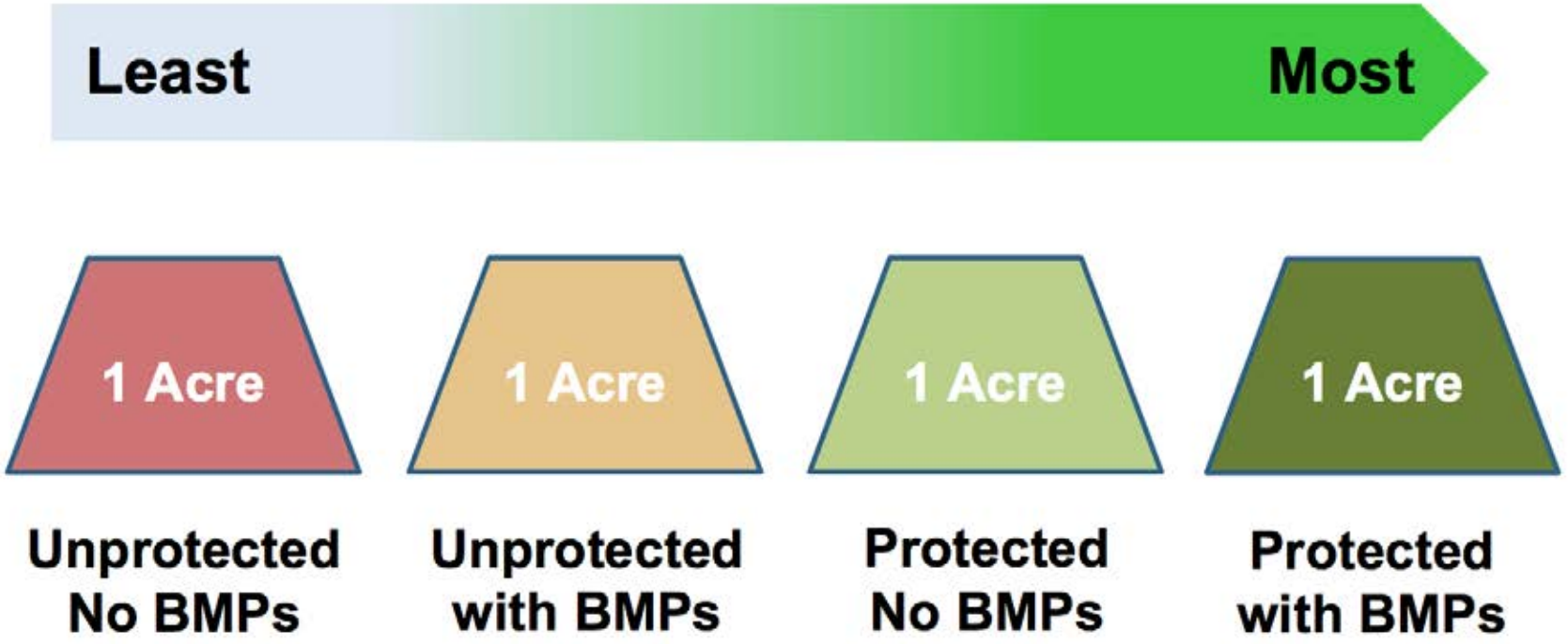


What We Want

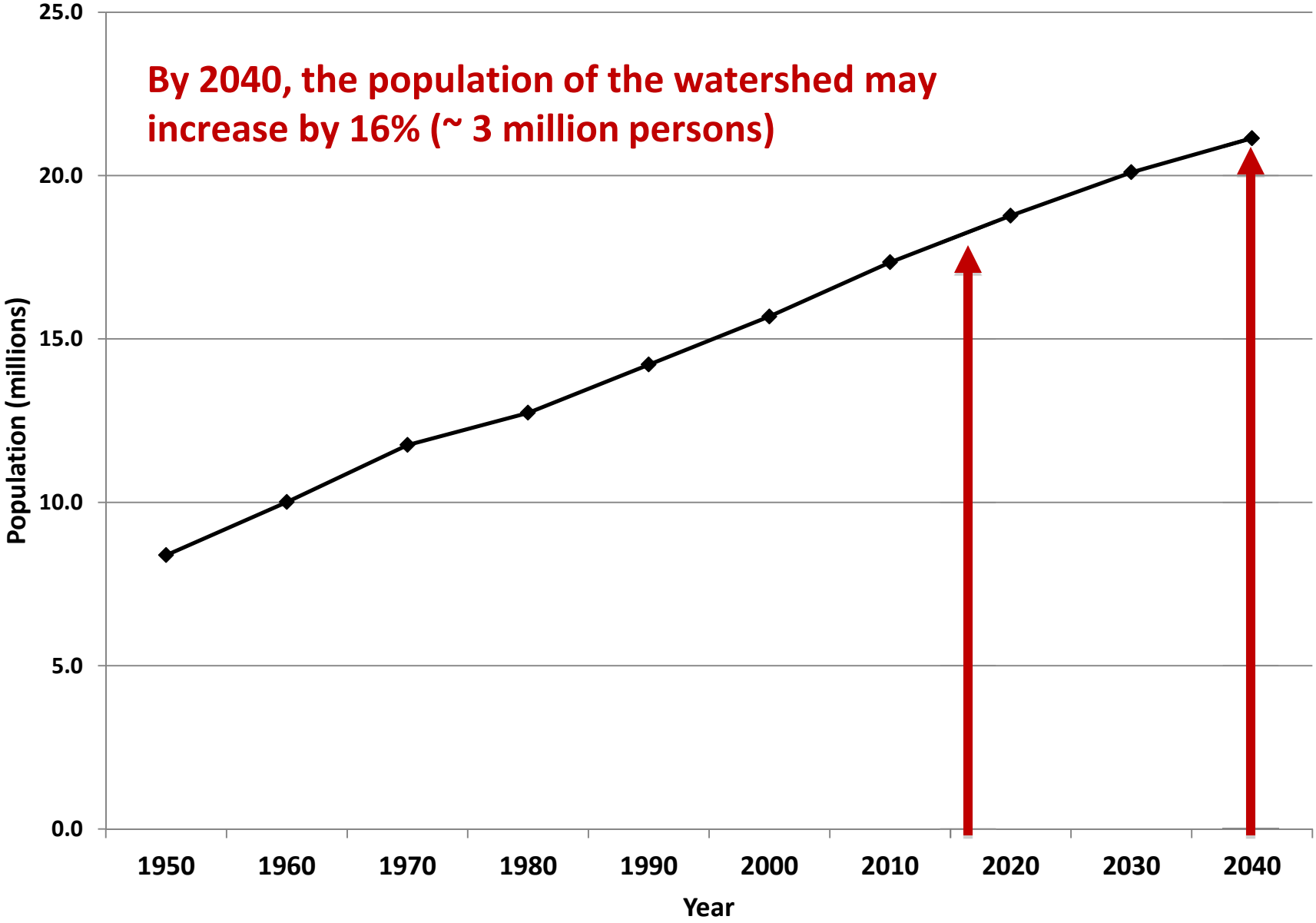
Create Strong incentives for

- Permanently protected lands that include BMP's
- Permanent protection for larger landscapes that preclude conversion and future loads
- Long-term conservation policies

- Durability
- Additionality
- Prevention

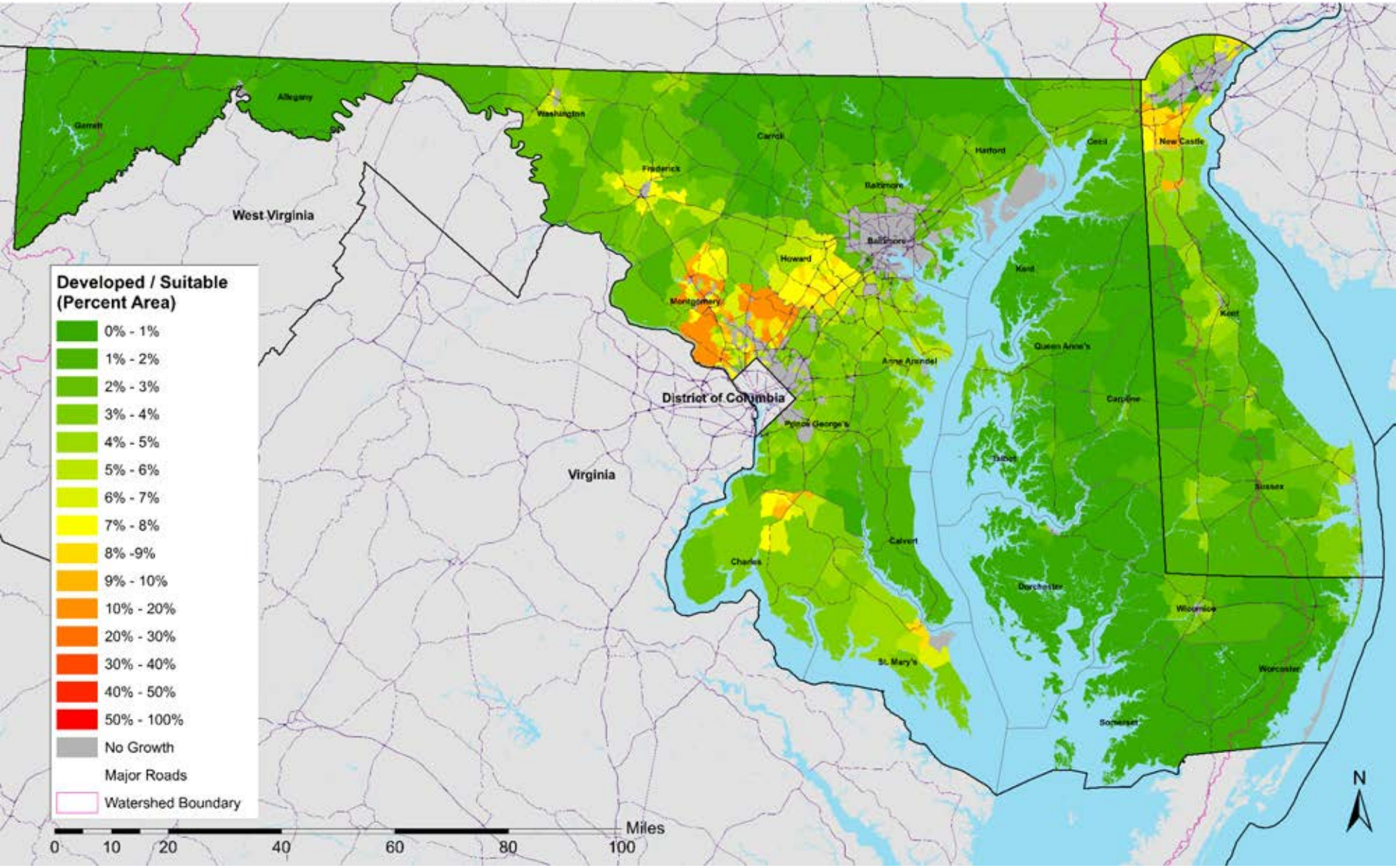


Future Watershed Population



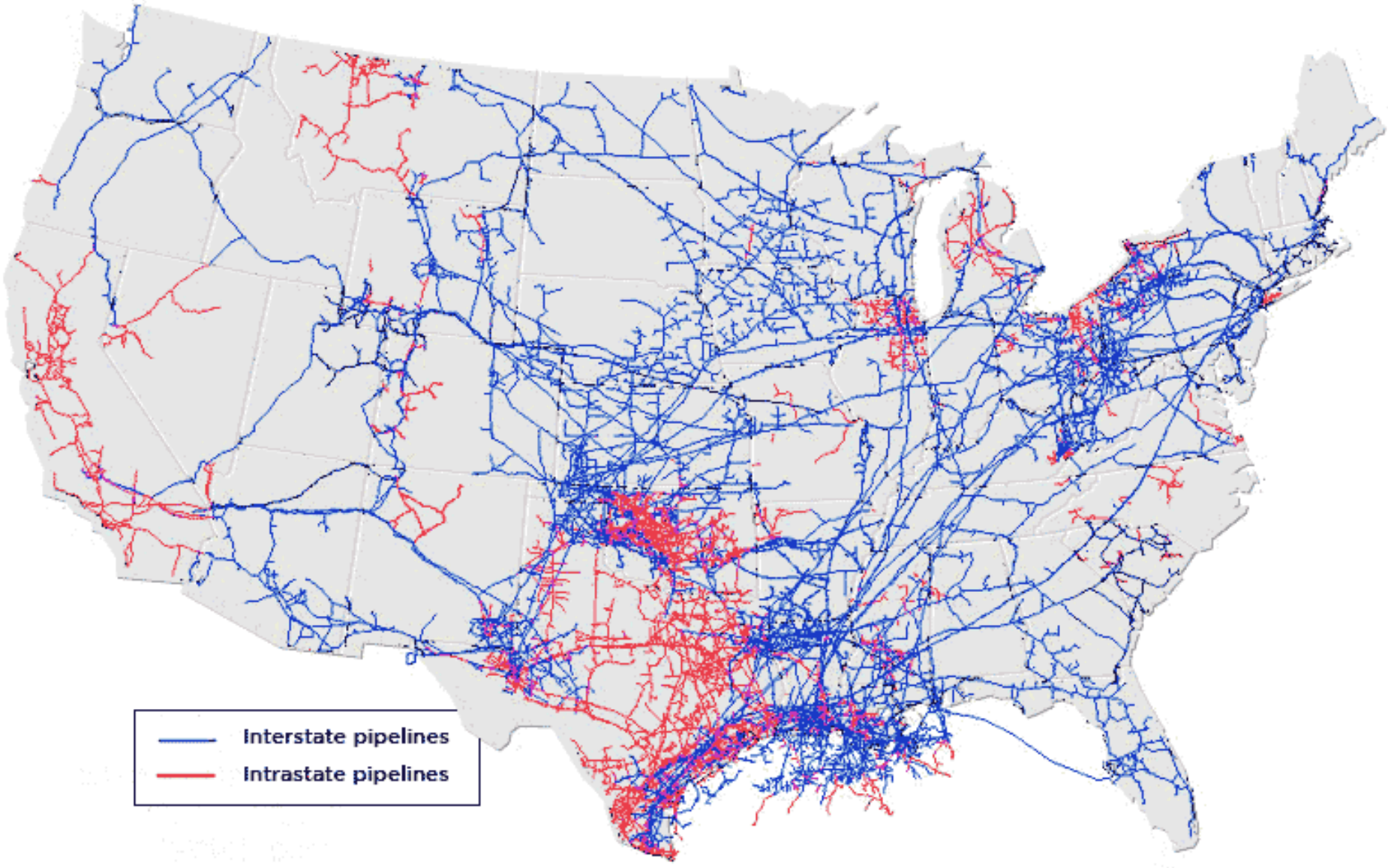
USGS

New Development in Maryland (2030) and Delaware (2040) as a Percentage of Land Suitable for Development



Status of Crediting Conservation

- Use of 2025 Growth/ Land Use Projections= Opportunities/ Demand for Land Conservation.
- Delta between 2025 and 2040 Projections = Magnitude of Offsets to Growth after 2025.
- Delta should assist localities to appreciate the cost/ benefits of land conservation at the landscape level and other " smart growth " policies.
- Focus on Areas Projected for Development by 2040-- Sprawl Zones.
- Credit for BMPs on permanently conserved lands still possible under offset policies.



Source: Energy Information Administration, Office of Oil and Gas, Natural Gas Division, Transportation Information System

Current Approach to Mitigation

- Arbitrary, opaque
- Reactive, piecemeal
- Lack of defined outcome

The Mitigation Hierarchy

First

Second

Third

Mitigation Policy Achieves Goals

Mitigation policy should **support conservation objectives** and **drive accountability** in applying the mitigation hierarchy

e.g.

No net loss

Net positive impact

Status of Developing New Mitigation Policies

- Progress by State of Virginia Administration on new policies.
- Pursuing grants to retain appropriate organization to research state statutes, regulations and policies and to recommend new or revised ones.
- Ready drafts for consideration in each state at appropriate times.

Connecting Conservation for Bay Health
2017 Maryland Land Conservation Conference
June 8, 2017

THANK YOU!

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Expectations: What do you want to get out of this session? (one phrase)

Photo courtesy of William Johns/Flickr and Chesapeake Bay Program

It's All About Clean Water: Communications Strategies for Advocating and Messaging
2017 Pennsylvania Land Conservation Conference
May 4, 2017