Cross-Outcome Mapping Project

Scott Phillips and John Wolf
On behalf of the Project Team and GIT Chairs

MB meeting

September 15, 2016

Purpose for today

- Inform MB of the mapping project
- Discuss initial GIT priorities for mapping

Discussion with MB:

- Suggest any additional jurisdiction mapping items
- Identify priority areas already working
- How you or staff would like to be involved

Need for Project

Bay Agreement

- 10 Goals
- 31 Outcomes
- Strategies

- ‘Strategic manner’
- ‘Cost effective’
- ‘Place-based approches’

- Mapping project

More strategic and effective

More effectively share resources to make progress on inter-related outcomes

- Actions between outcomes
- Places where efforts can be concentrated
- Aligning partner activities
- GITs, Implementers, MB, PSC, STAR

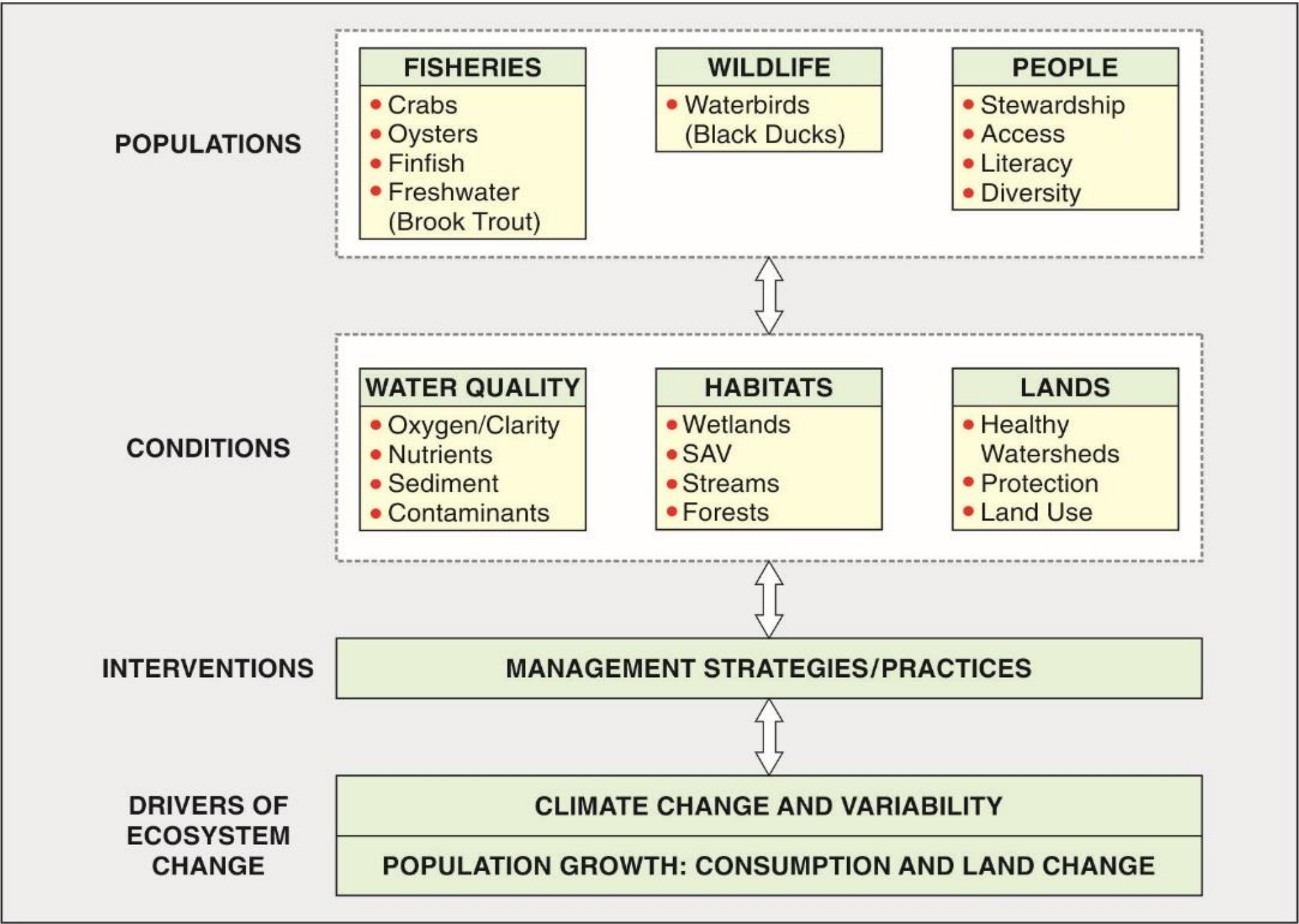
Benefits

- Strategic
- Increase interaction
- Enhance effectiveness
- Communicate value

Approach

- Maximum benefit to living resources
- Restoration and conservation
- Consider future threats
- Current partner efforts
- Joint planning in places with greatest benefit

CONCEPTUAL DIAGRAM OF CHESAPEAKE BAY ECOSYSTEM



Initial GIT priorities

- Living Resources:
  - Fish,
  - Wildlife
  - People
- Habitats
- Water Quality
- Healthy Watersheds and Land Protection
- Threats

- (Table 1 of work plan)

Two Examples

#1

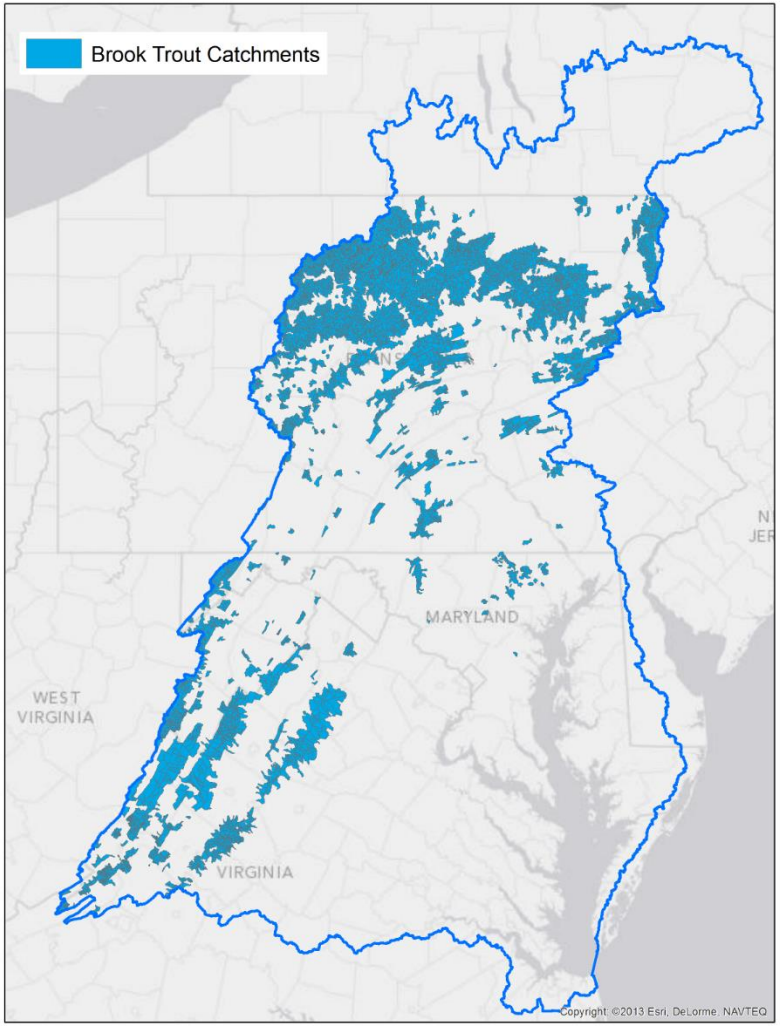
- Conservation
- Nontidal
- GITs 2,4,5

#2

- Restoration
- Tidal
- GITs 1,3, STAR

- *Examples – illustrative purposes only*
- *Living Resource endpoints*
- *Science + Art*

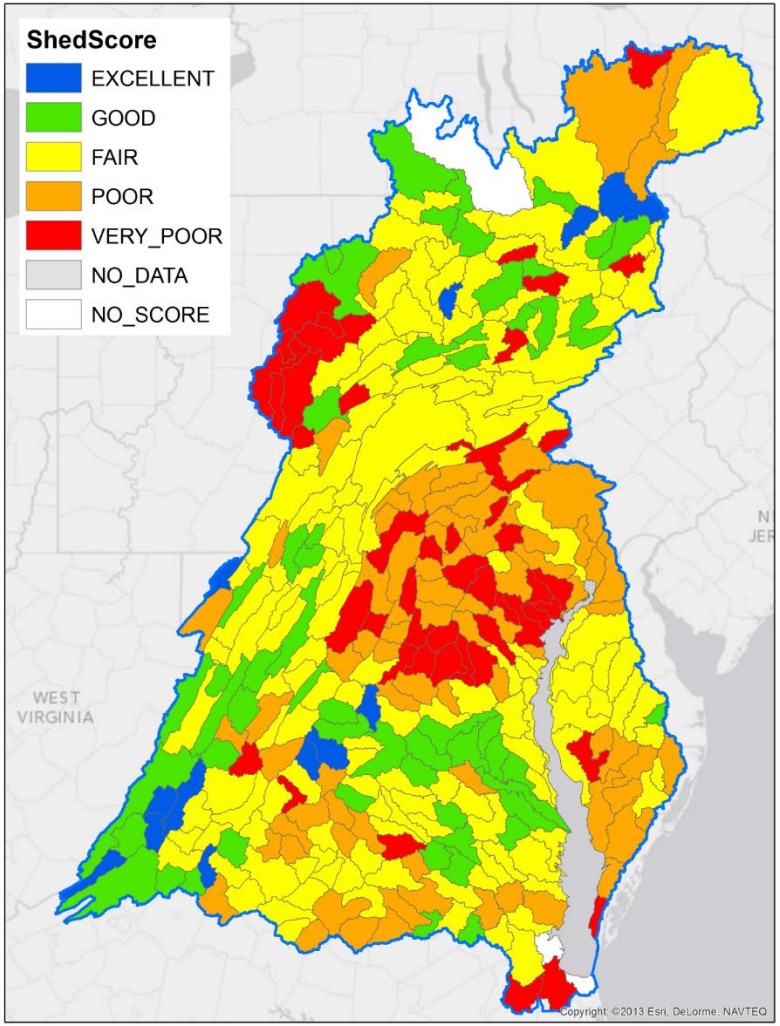
Example 1: Brook Trout



Outcome-based Conservation Example

Catchments Occupied by Brook Trout

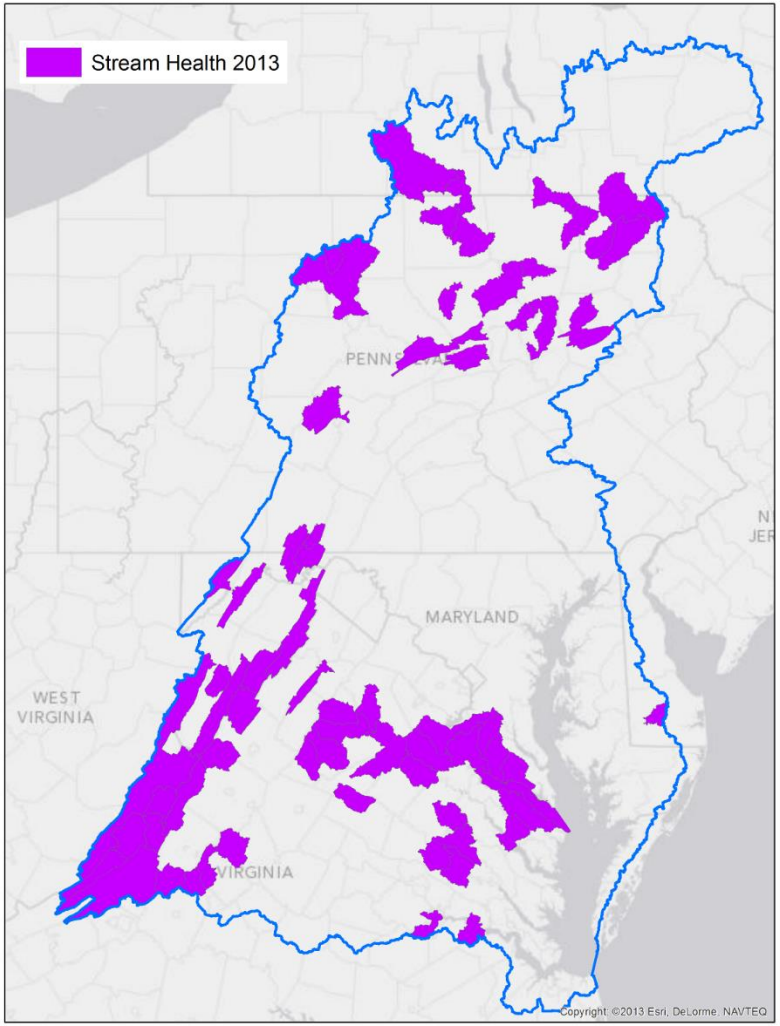
Example 1: Brook Trout



Outcome-based Conservation Example

Average Stream Health

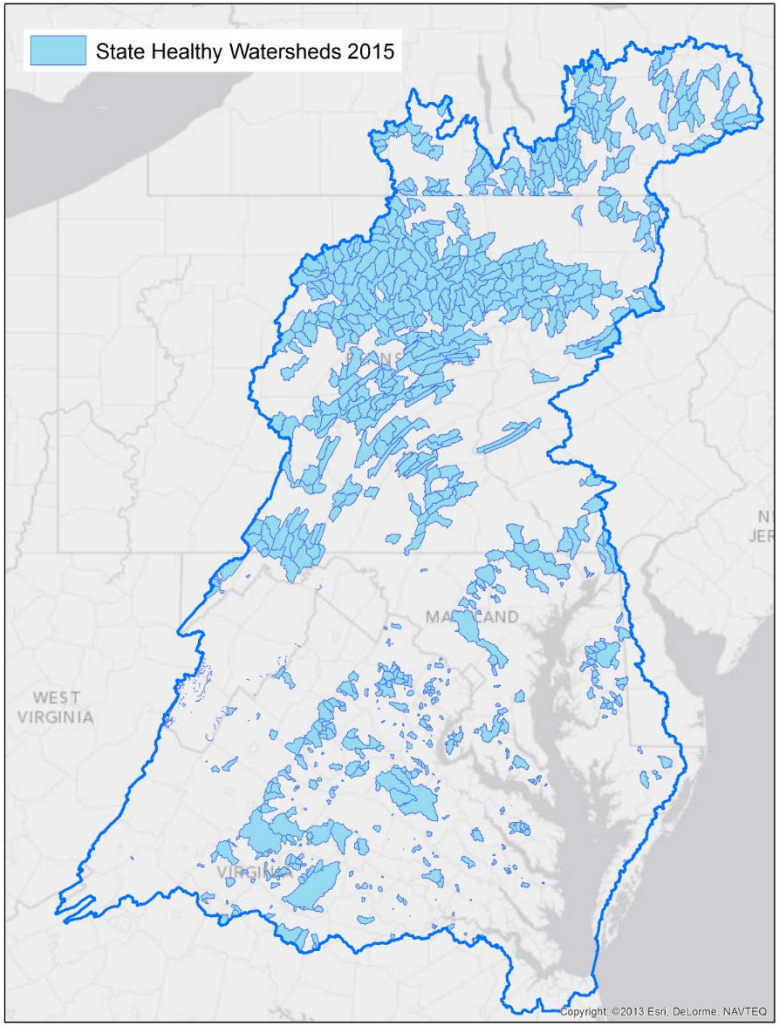
Example 1: Brook Trout



Outcome-based Conservation Example

Average Stream Health (Assumption – Excellent or Good Only)

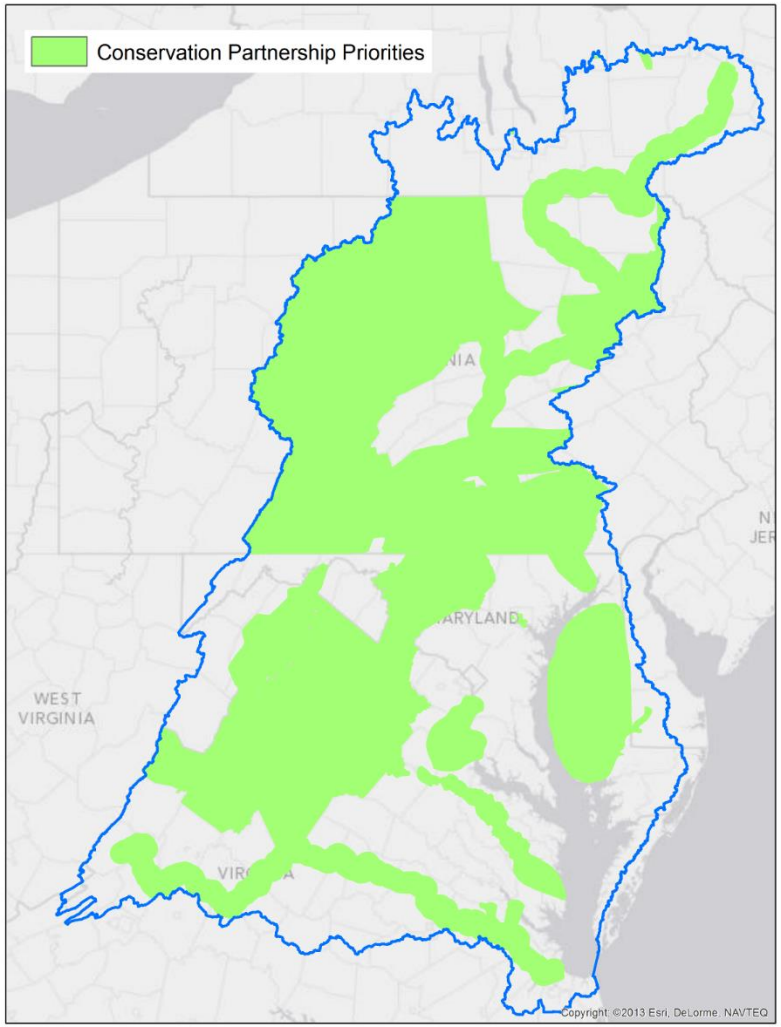
Example 1: Brook Trout



Outcome-based Conservation Example

State Designated Healthy Watersheds

Example 1: Brook Trout

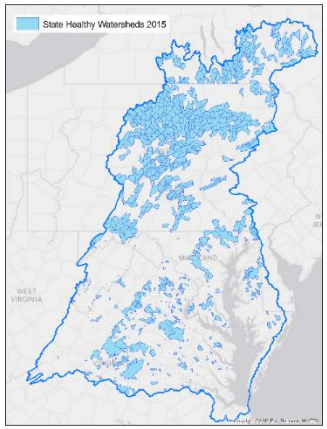


Outcome-based Conservation Example

Priority Areas for Land Conservation (placeholder example only)

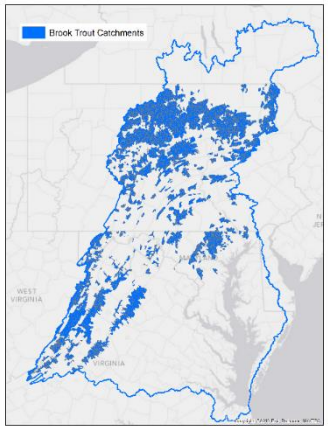
Example 1: Brook Trout

Healthy Watersheds



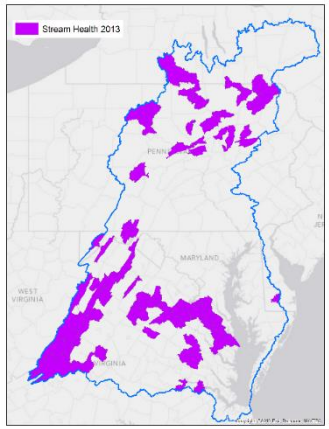
+

Brook Trout



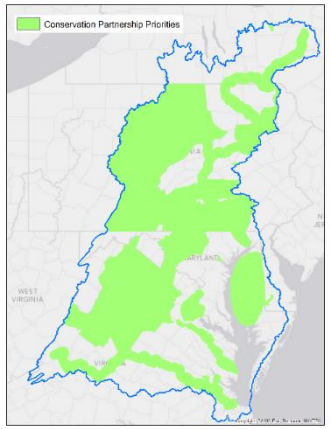
+

Stream Health



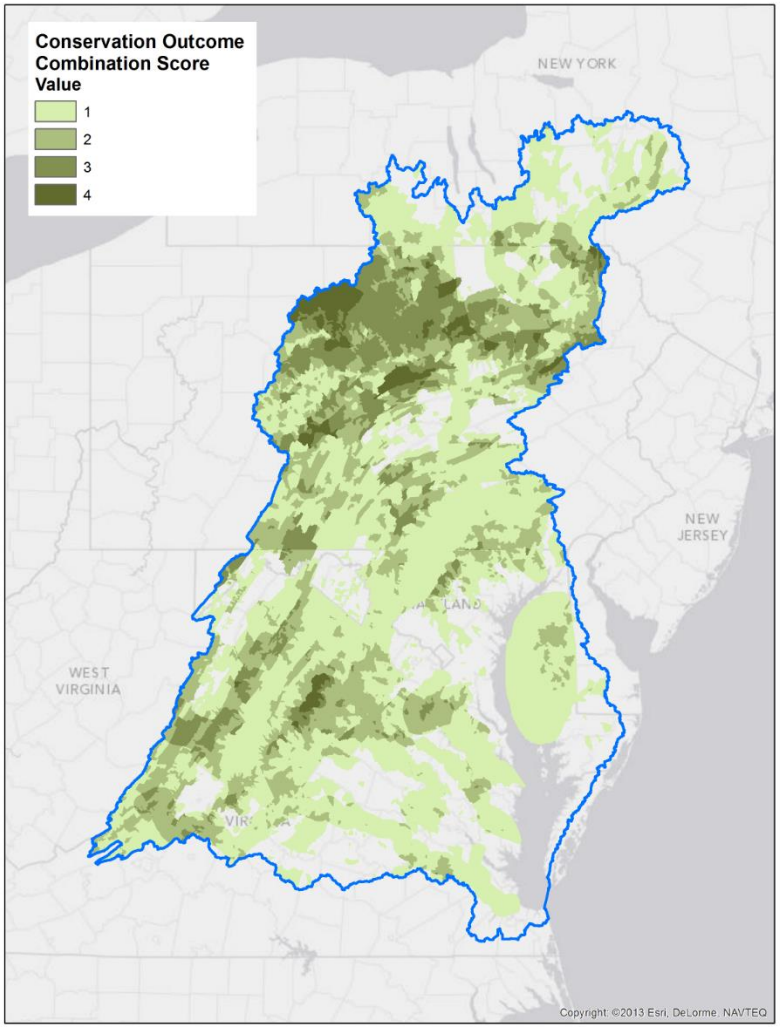
+

Conservation Partnership



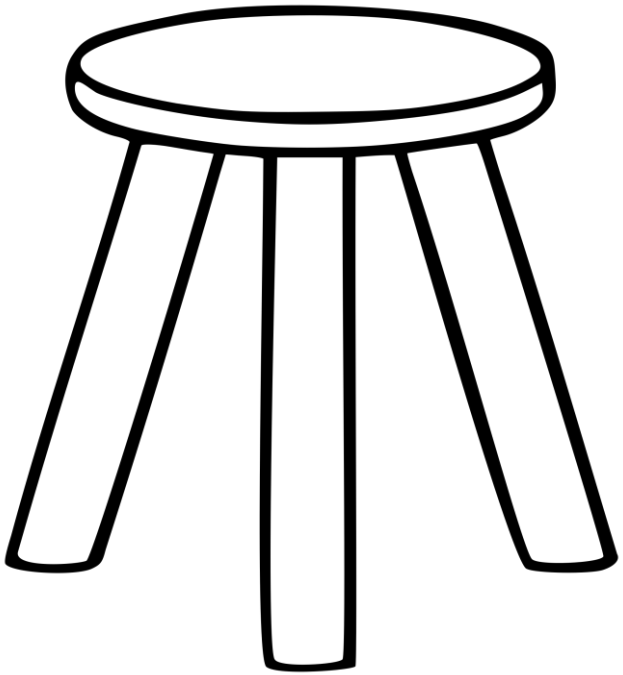
= ???

Example 1: Brook Trout

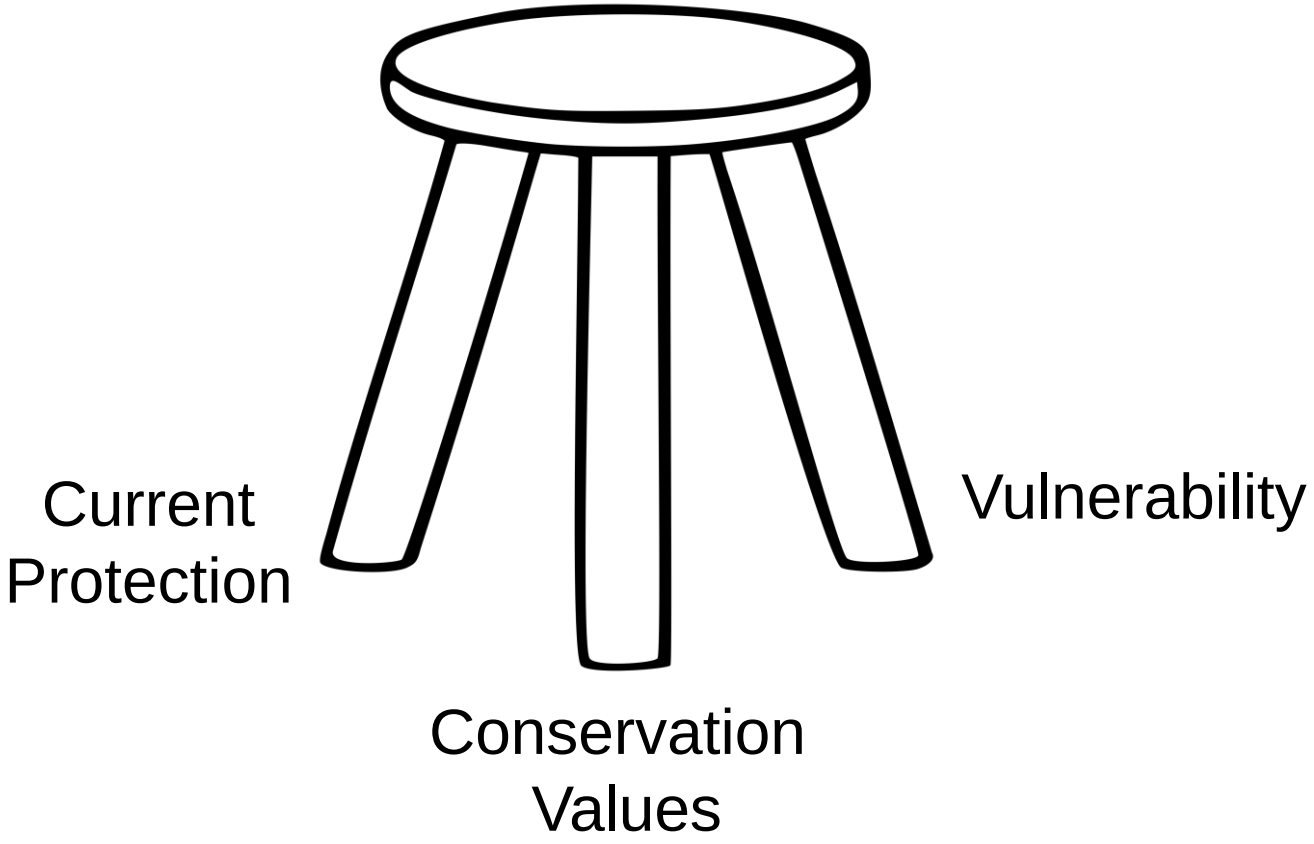


Number of Overlapping Priority Areas

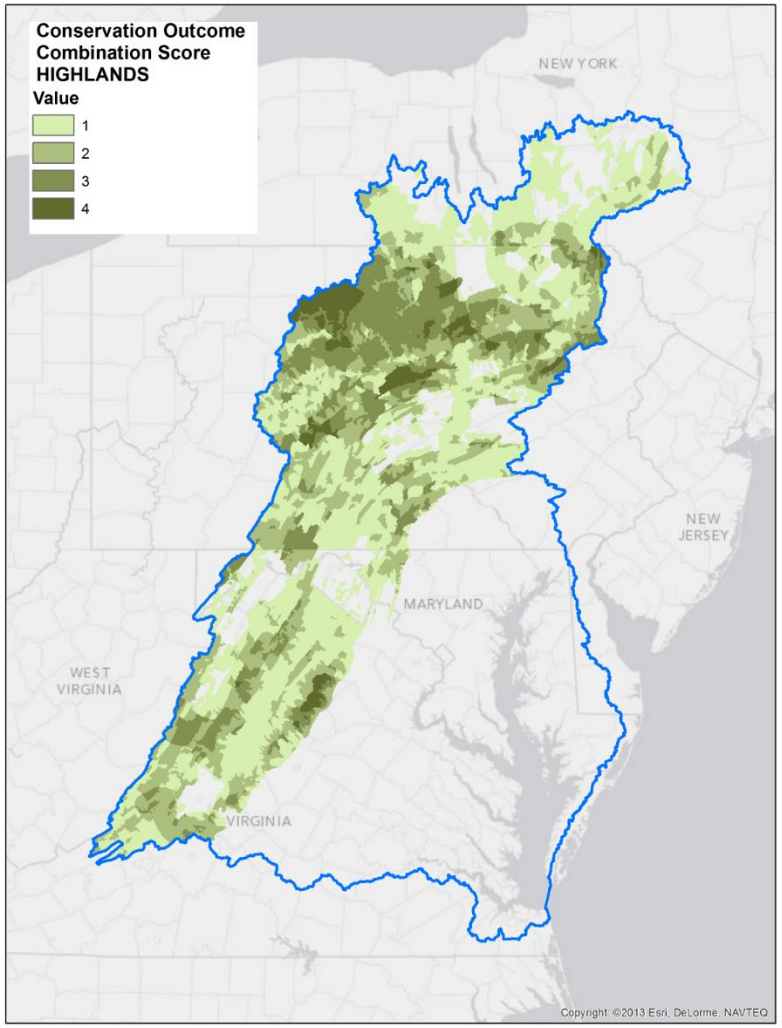
Example 1: Brook Trout



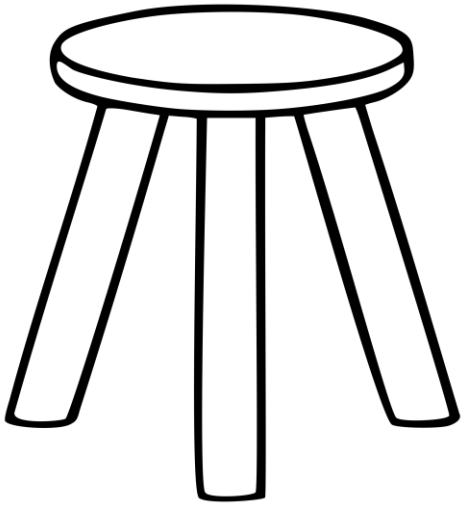
Example 1: Brook Trout



Example 1: Brook Trout

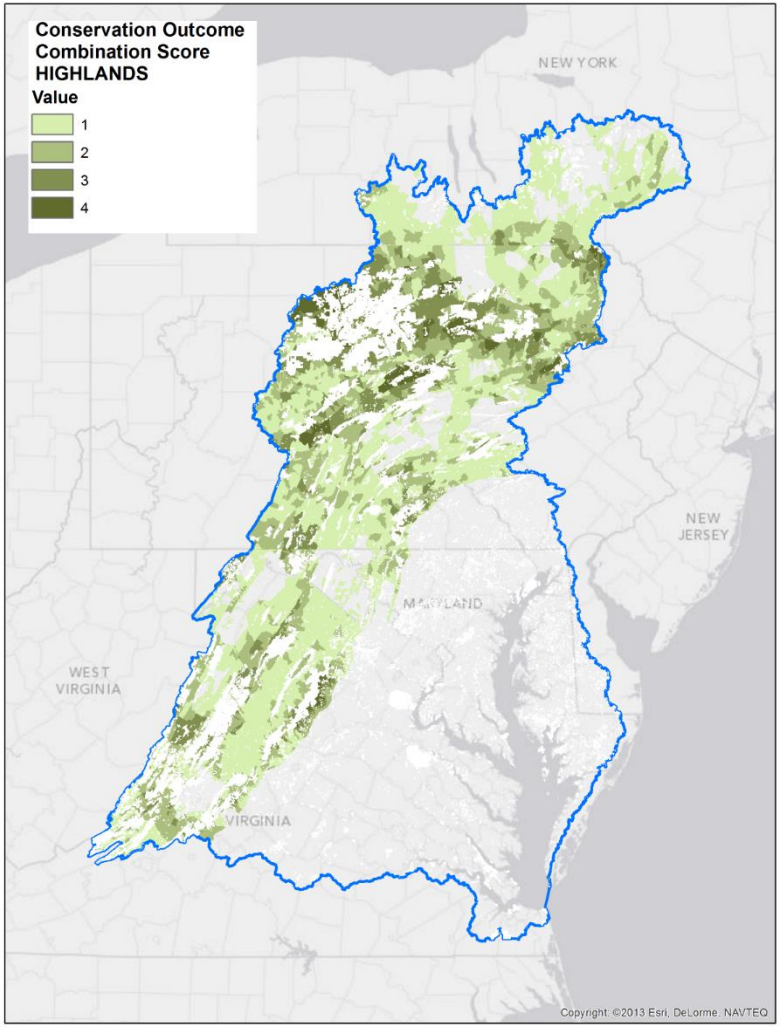


Number of Overlapping Priority Areas



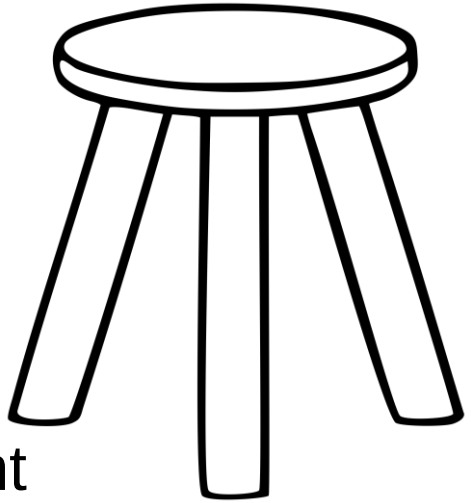
Conservation Values

Example 1: Brook Trout



Number of Overlapping Priority Areas

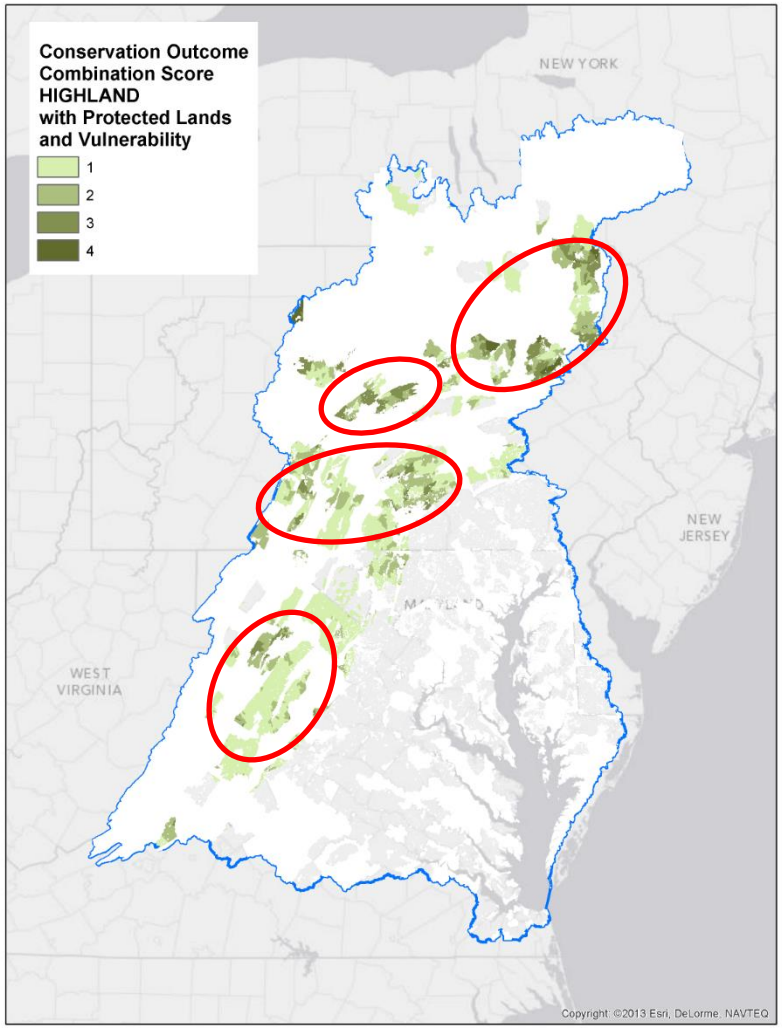
Accounting for Existing Protection



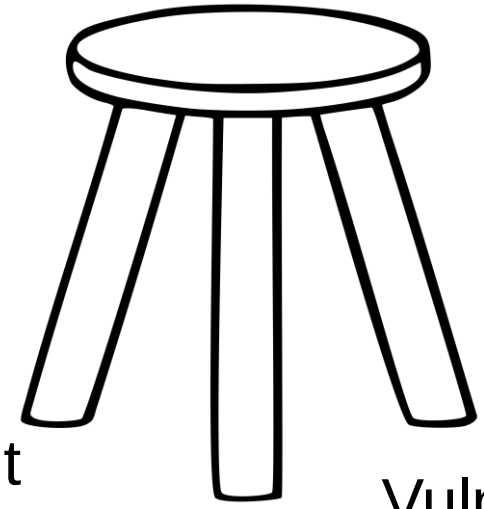
Current Protection

Conservation Values

Example 1: Brook Trout



Number of Overlapping Priority Areas **Accounting for Existing Protection and Vulnerability**

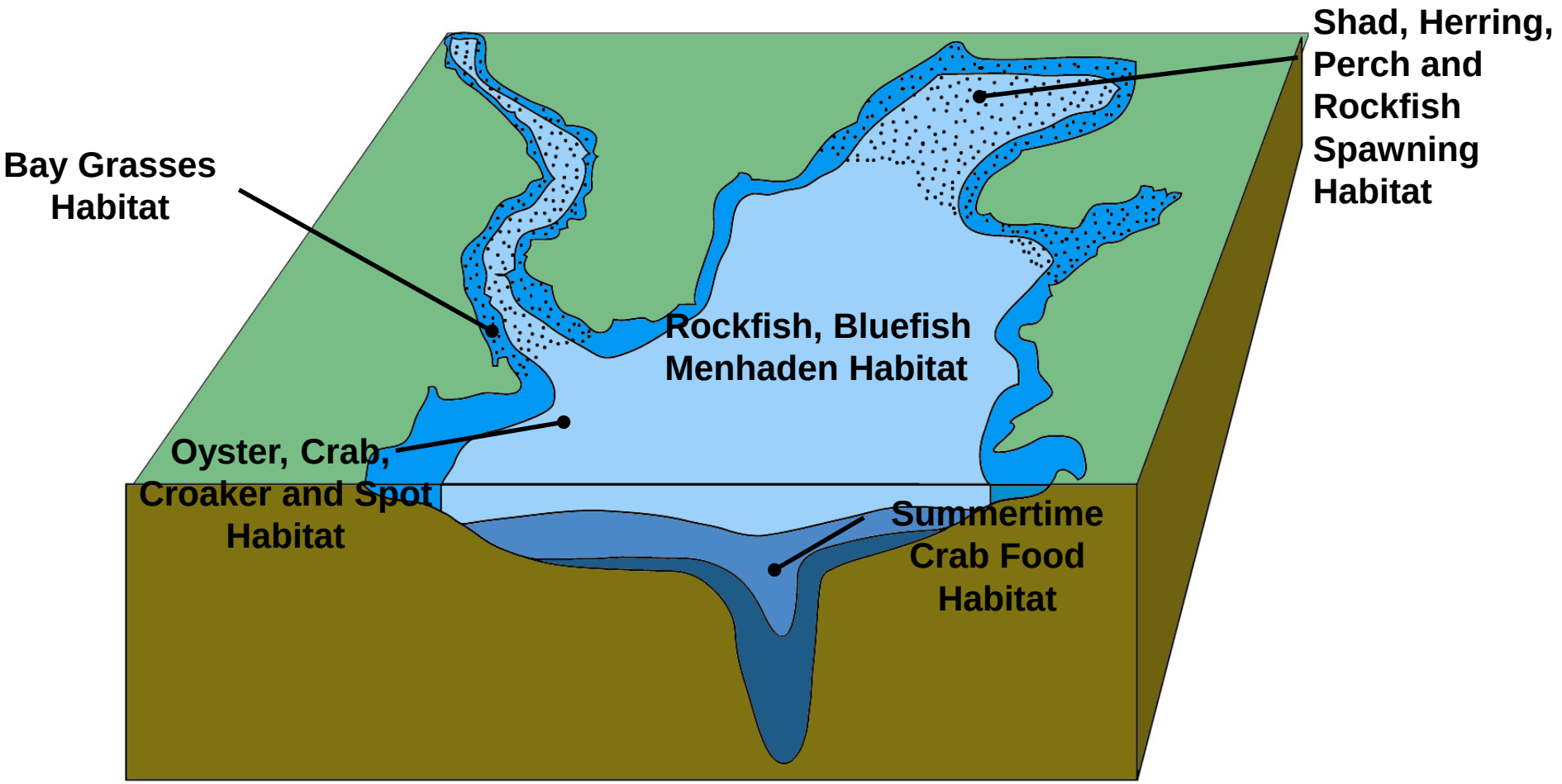


Current Protection

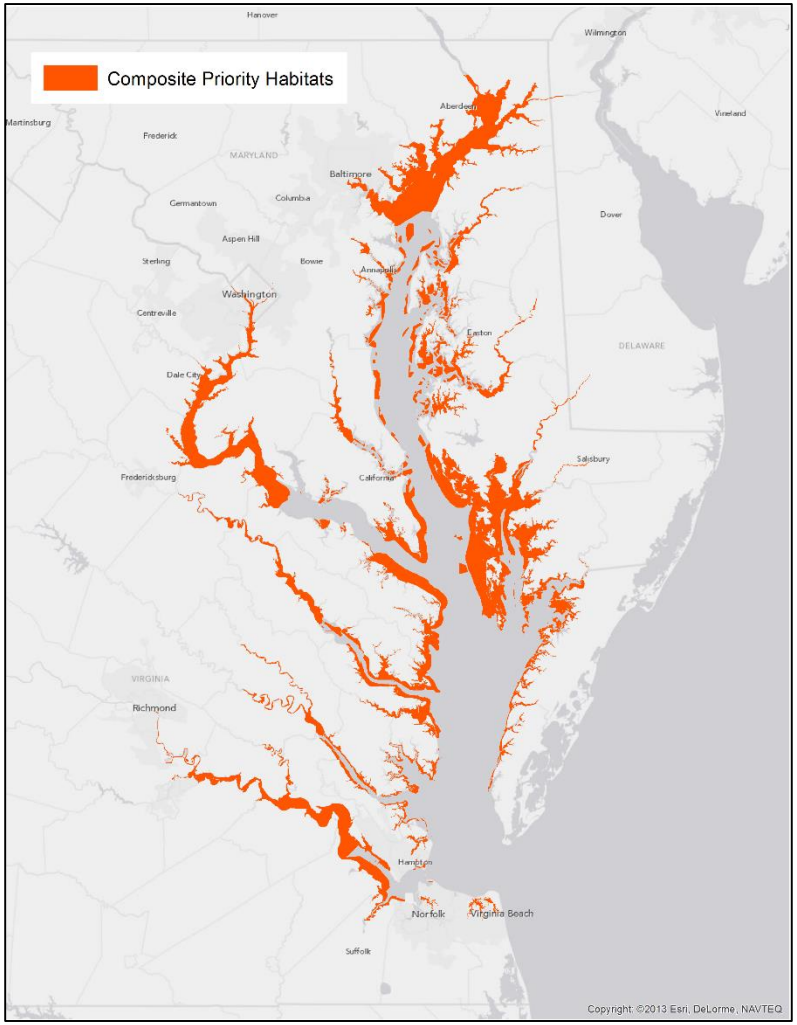
Vulnerability

Conservation Values

Example 2 : Tidal Living Resources



Example 2 : Tidal Living Resources

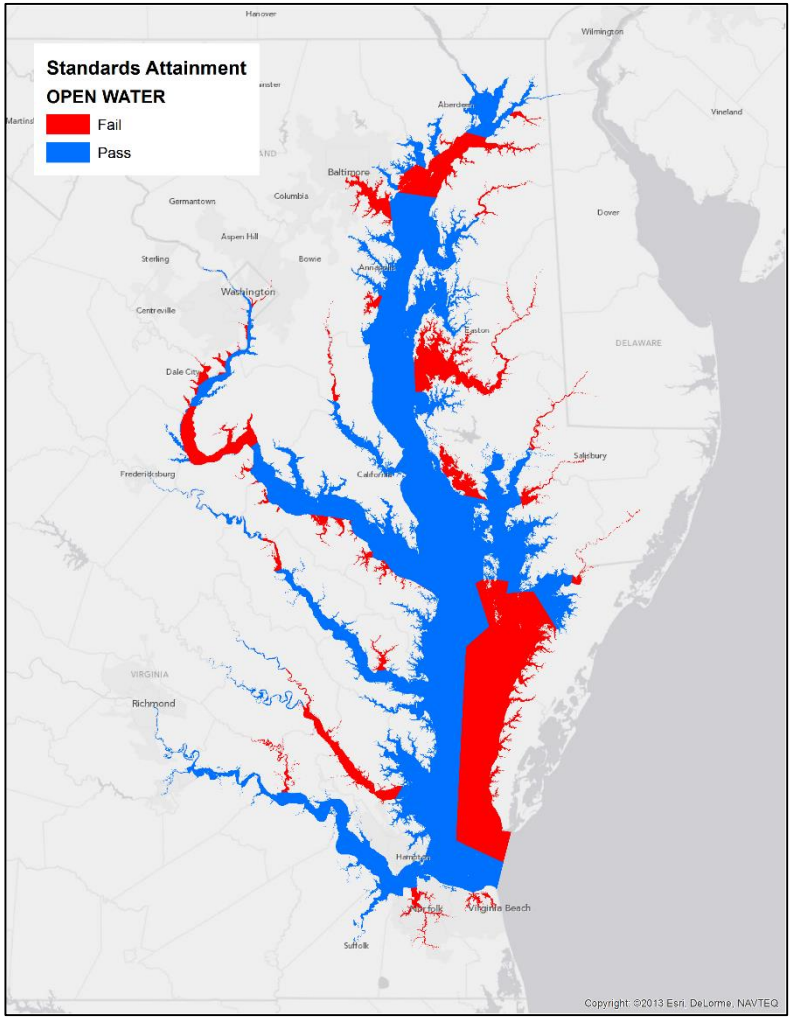


Outcome-based Restoration Example

Composite Priority Habitats

Priority Oyster Restoration Tributaries
Priority Water Column Species Habitats
Priority Bottom Species Habitats

Example 2 : Tidal Living Resources

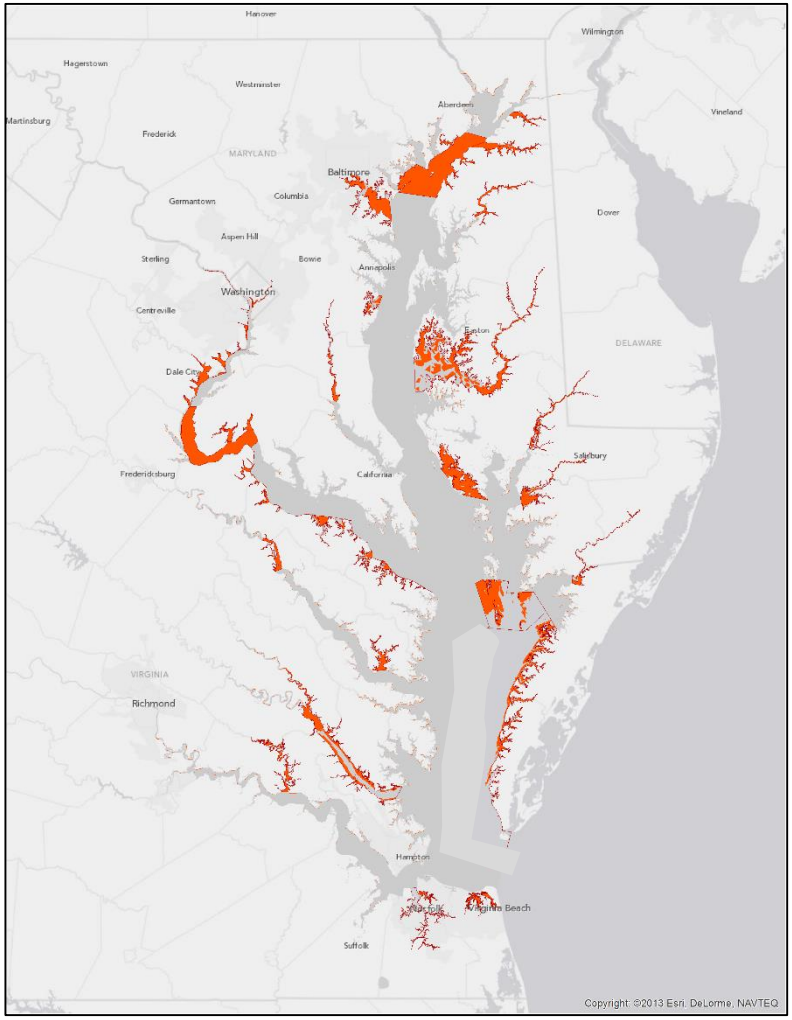


Outcome-based Restoration Example

Nonattainment of Water Quality Standards

Open Water Designated Use

Example 2 : Tidal Living Resources

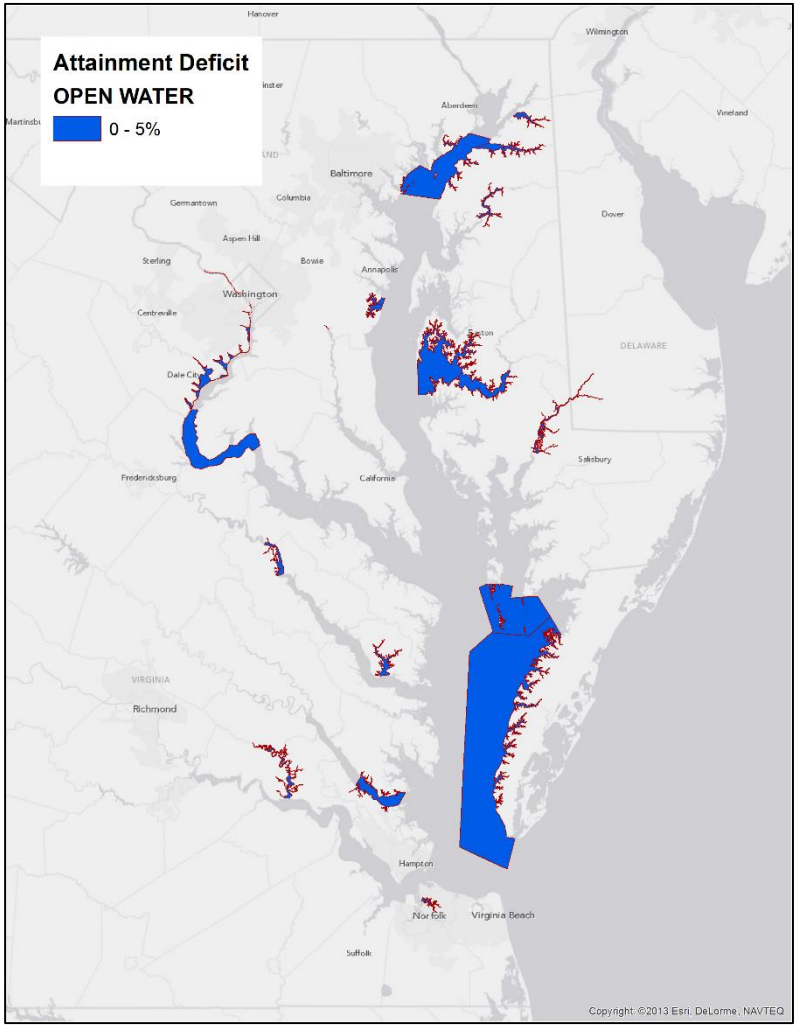


Outcome-based Restoration Example

Important Habitat areas not meeting Water Quality Standards

Open Water Designated Use

Example 2 : Tidal Living Resources

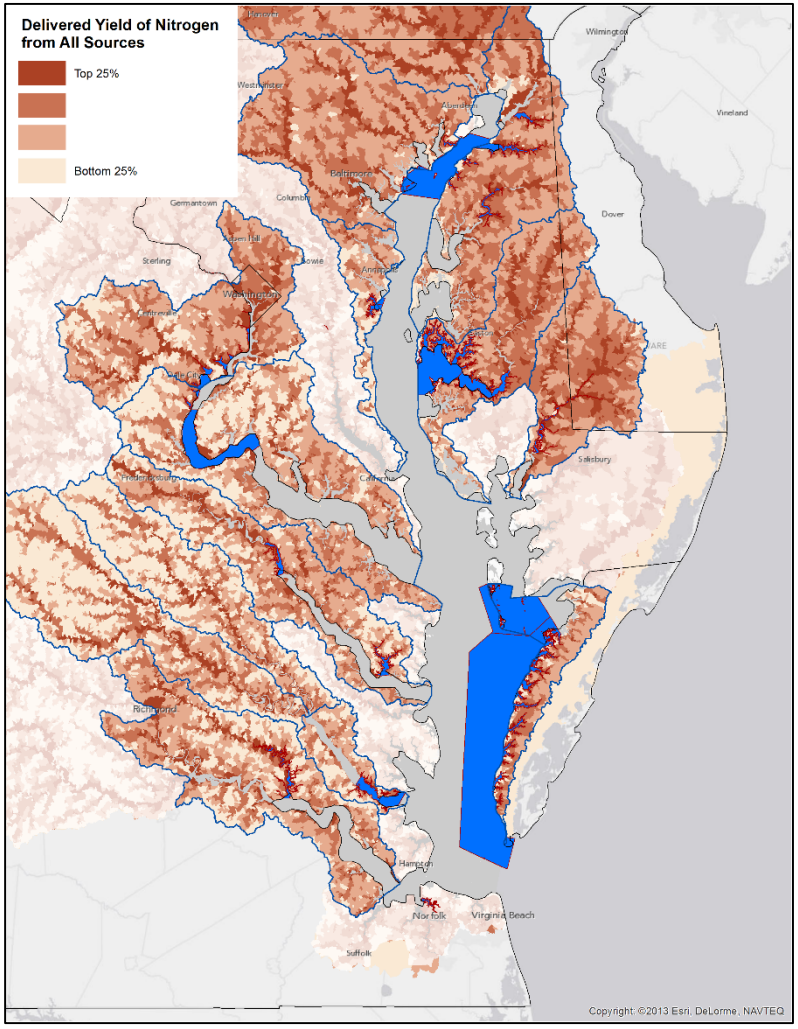


Outcome-based Restoration Example

Important Habitat Segments Close to Attainment

Open Water Designated Use

Example 2 : Tidal Living Resources

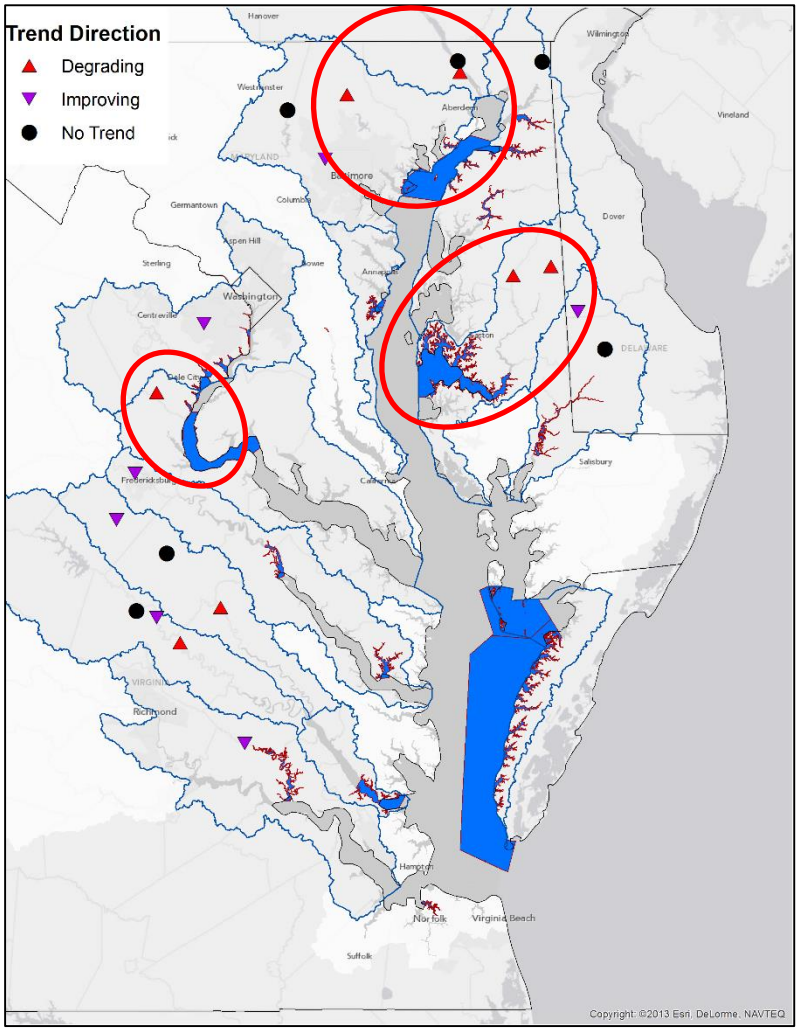


Outcome-based Restoration Example

Considering Upstream Stressors

Delivered Yield of Nitrogen (USGS SPARROW)

Example 2 : Tidal Living Resources

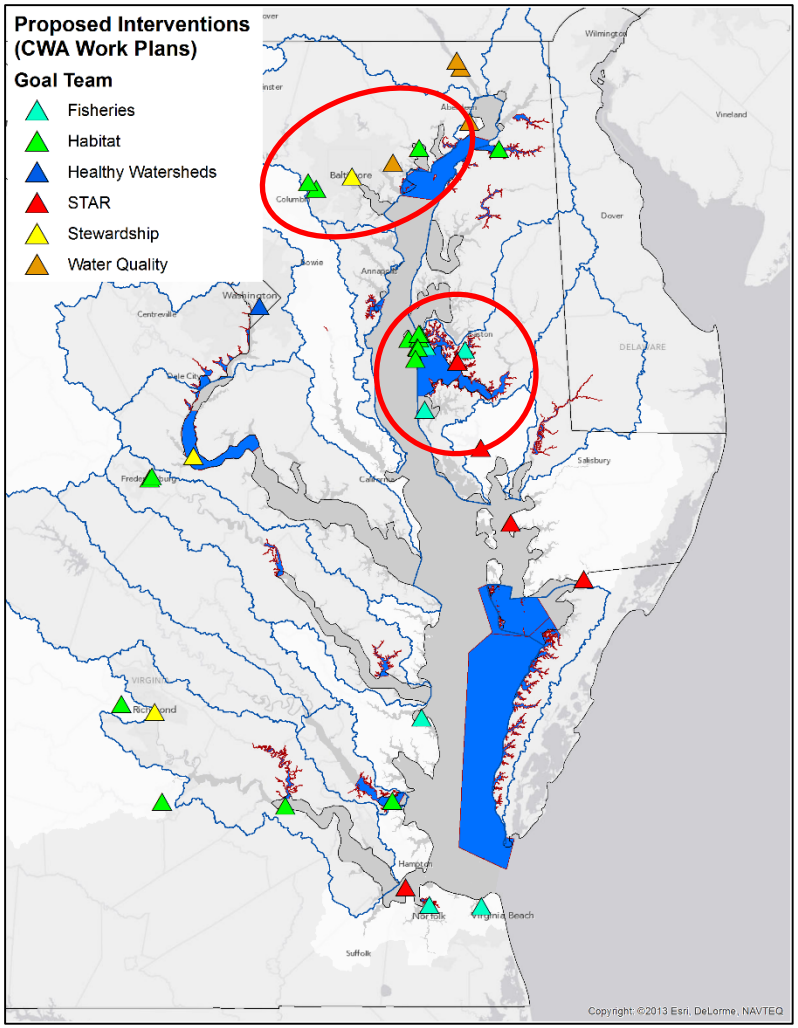


Outcome-based Restoration Example

Considering Trends Upstream

TN Trends Upstream of Priority Habitat Segments

Example 2 : Tidal Living Resources

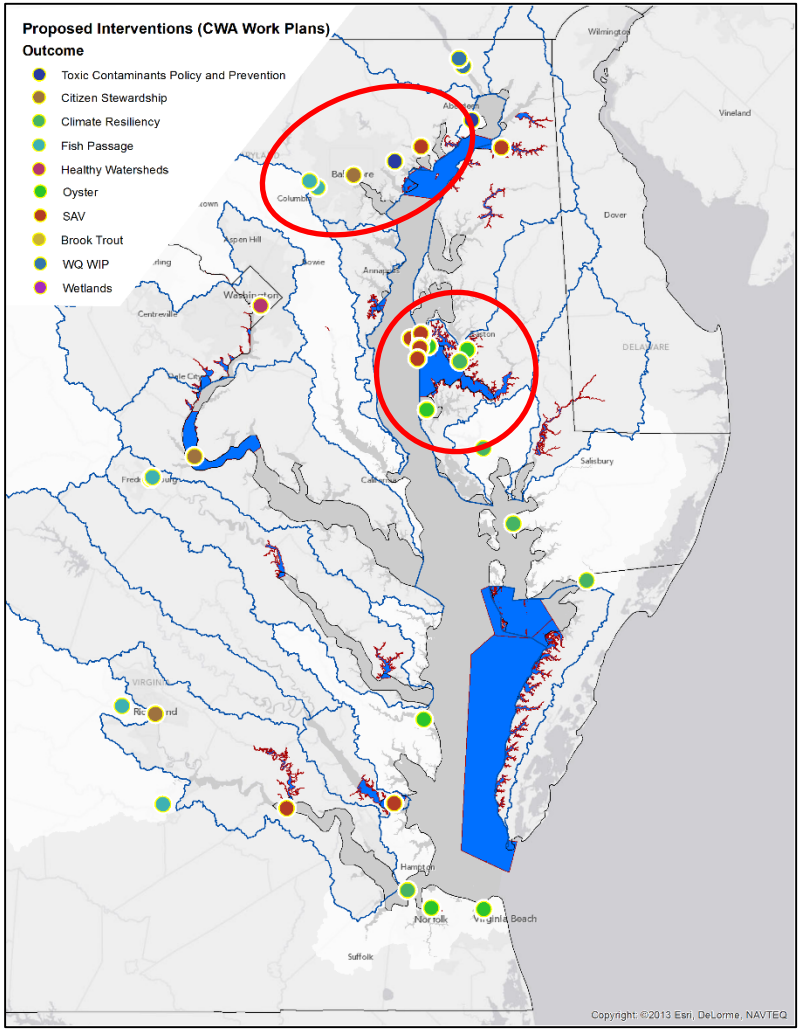


Outcome-based Restoration Example

Accounting for Planned Intervention Activity

Work Plan Projects by GIT

Example 2 : Tidal Living Resources

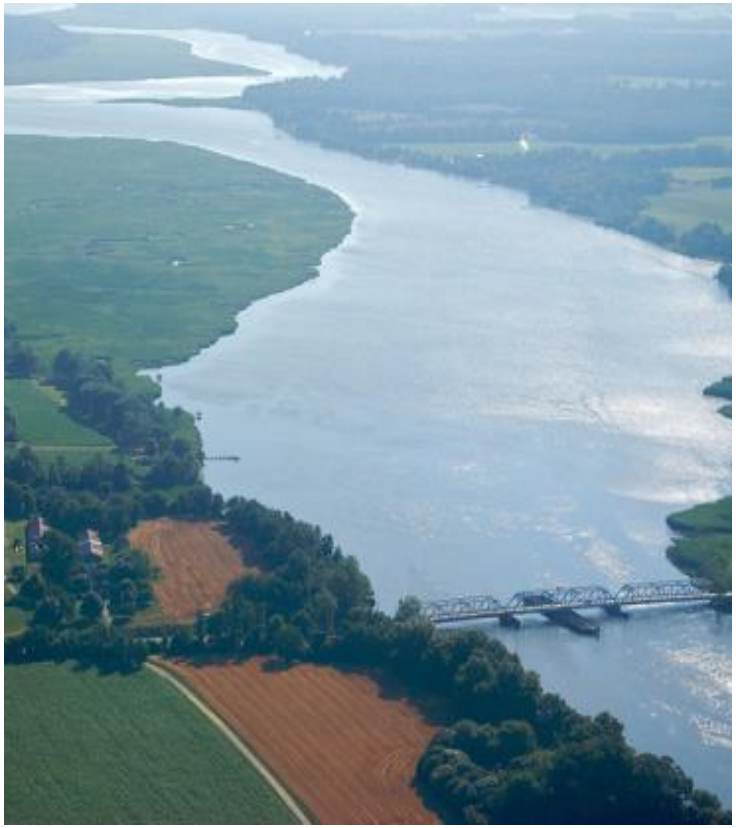


Outcome-based Restoration Example

Accounting for Planned Intervention Activity

Work Plan Projects by Outcome

Affirming Initial Priorities



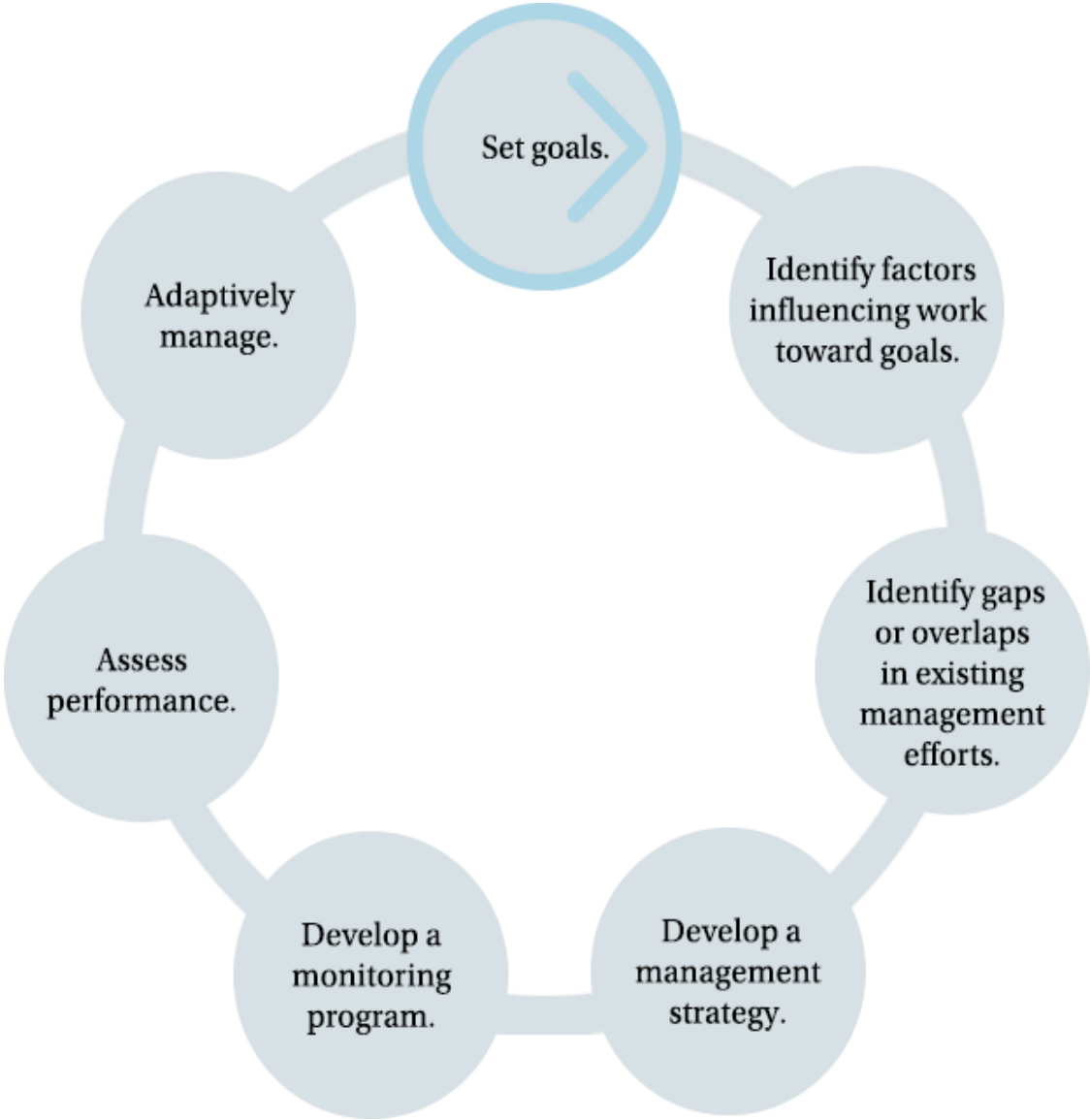
- GITs
  - Cross section of CBP
  - Implementers
- MB and PSC
  - Strategic direction
  - Additional suggestions
- Additional applications
  - USACE
  - NFWF
- Evolve over time

Being more strategic

- Leadership
- Work plans
- WIPs

MB Discussion

- Jurisdiction mapping items
- Priority areas already working
- Involvement



Questions:

Scott Phillips, John Wolf , Kristin Saunders, Greg Barranco