

QUARTERLY PROGRESS MEETING – August 2019
Chesapeake Bay Program



Healthy Watersheds

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Maryland Department of the
Environment
Maintain Healthy Watersheds GIT Chair*

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

Healthy Watersheds Goal:



*View of the Nanticoke River and wetlands in
Wicomico County
Photo by Matt Roth/CBP*

Goal: Sustain state-identified healthy waters and watersheds recognized for their high quality and/or high ecological value

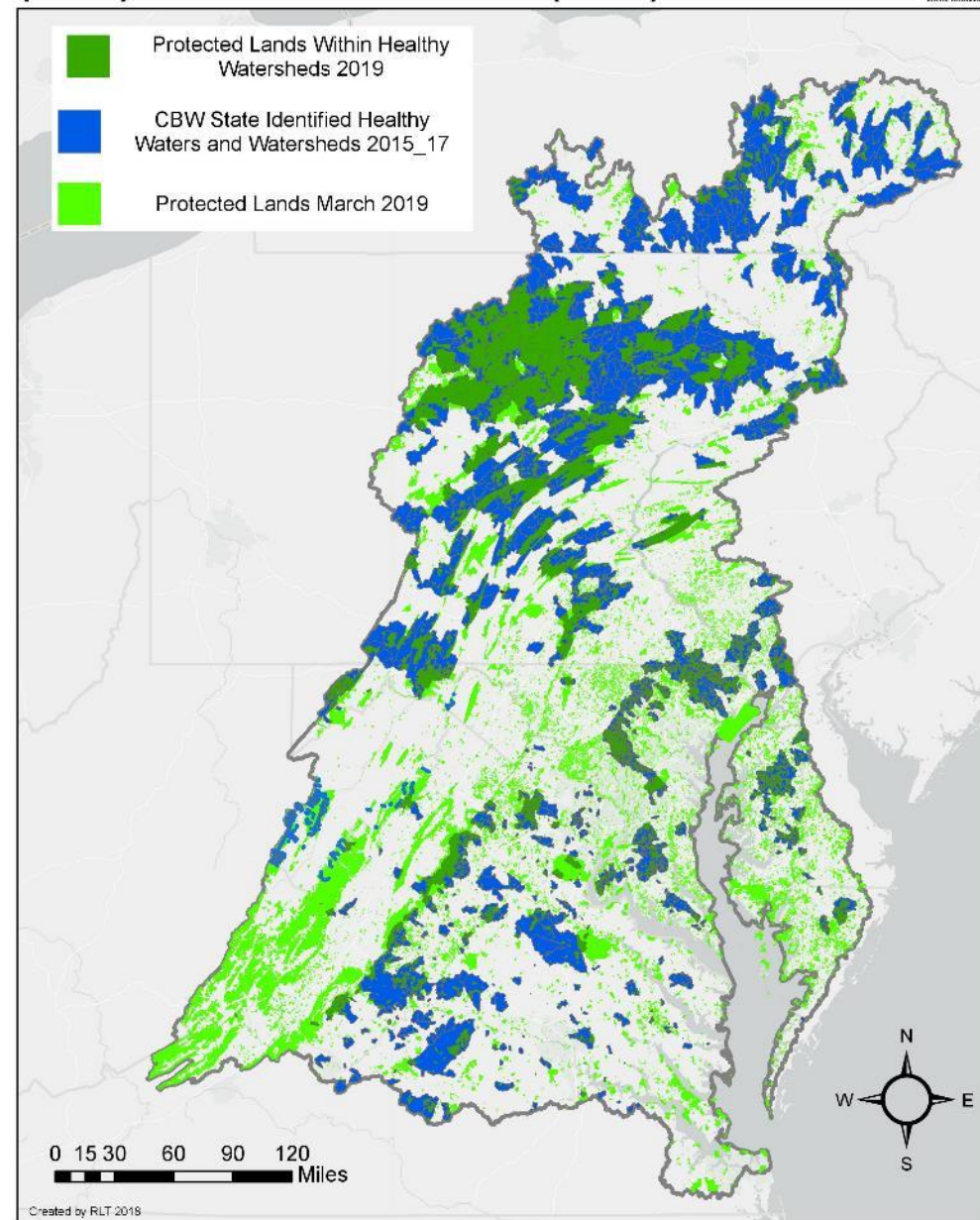
Outcome: 100 percent of state-identified healthy waters and watersheds remain healthy.



How You Can Help

- Renewed engagement of HWGIT members
- Improved Coordination and Collaboration among GITs and workgroups
- Ensure that related and/or dependent cross-GIT priorities are addressed within the CBP
- Share key information with stakeholders: Communicate results of data, maps, assessment and vulnerability information, messages, and land use policies, incentives and planning tools.

State Identified Healthy Waters and Watersheds (2017) and Protected Lands (2019)





Learn

What have we learned in the last two years?



Successes and Challenges

Chesapeake Healthy Watersheds Assessment

- GIT funding project that provided us with the ***information*** and ***data*** to fill the ***gaps*** in the management strategy
- Identified 6 ***metrics*** for watershed condition in that can be combined to an overall ***index***
- Developed vulnerability ***metrics (see poster)***
- Lays the groundwork methodology to ***track outcome*** success
- Informs and helps to visualize a ***spectrum of watershed health and vulnerability*** watershed-wide



Landscape Condition



Habitat



Hydrology



Geomorphology

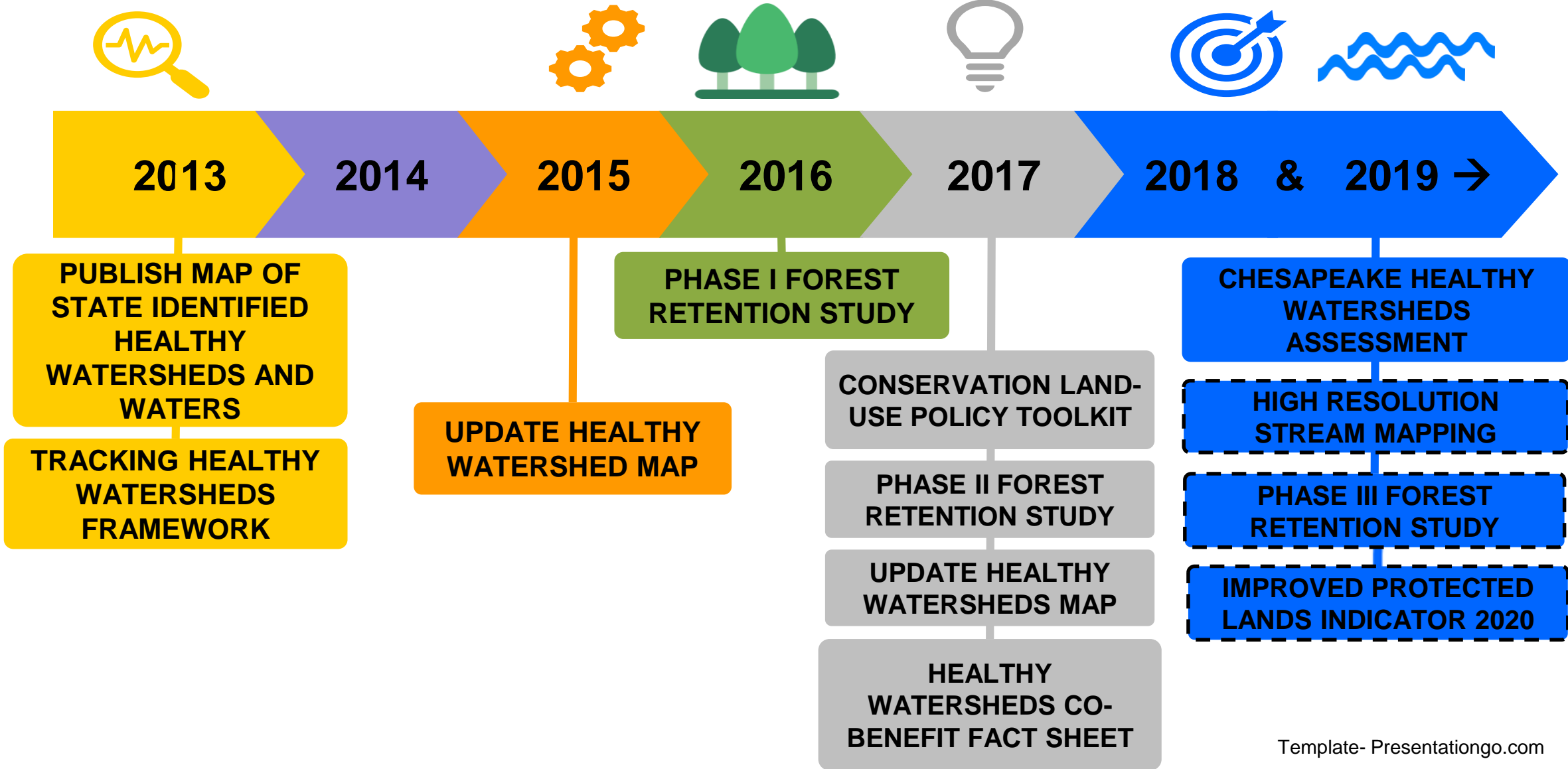


Water Quality

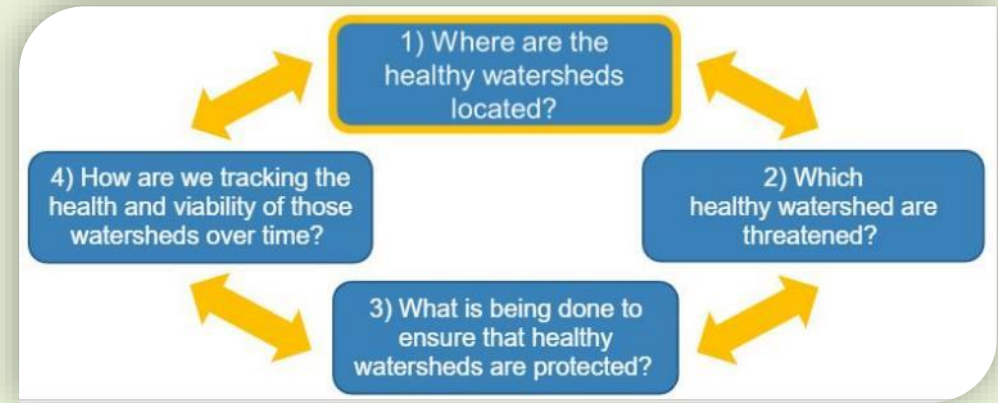


Biological Condition

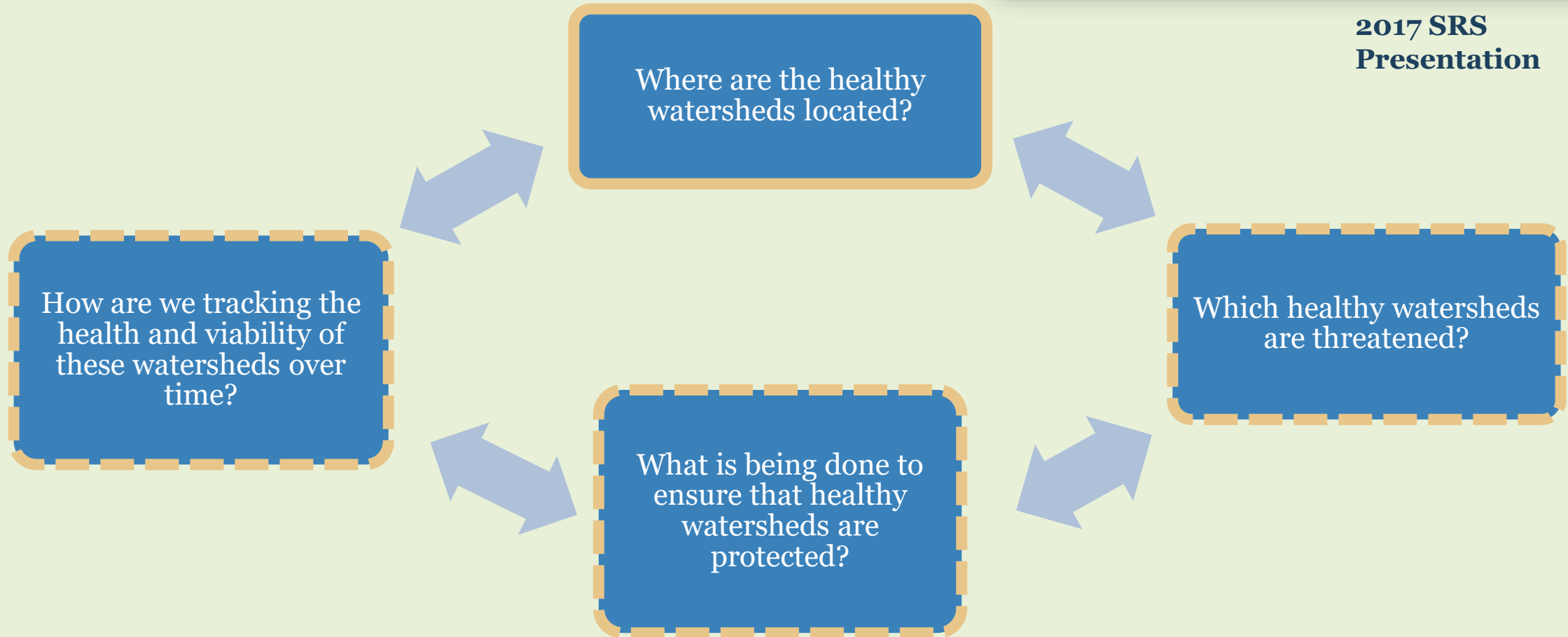
Healthy Watersheds Goal Team Milestones



Management Strategy: Tracking Framework



**2017 SRS
Presentation**



J

Jurisdictions

Successful jurisdictional actions are key to achieving the Healthy Watersheds Outcome

New York:

“Buffer in a Bag” Program: This program gives landowners native trees and shrubs to plant and maintain a riparian buffer on their property.

Citizens Statewide Lake Assessment Program (CSLAP) This program helps volunteers provide the NY Department of Environmental Conservation with high quality data.

Washington D.C.:

RiverSmart Homeowner Program: The RiverSmart Homeowner Program assists homeowners with stormwater runoff reduction projects.

Maryland:

WIP III: Maryland has included a section called “Water Quality and Aquatic Resource Protection Programs” which identifies protection strategies for Tier II waters and watersheds.

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Adapt

How does all of this impact our work?



Based on what we learned, we plan to ...

Disseminate Healthy Watershed Assessment Information

- Integrate data & better coordinate within CBP and Bay Partnerships (e.g., stream health, climate, local leadership)
- Improve programs and work with stakeholders
- Identify new funding opportunities to support improvements

Learn from CHWA and integrate new science

- Inform past, present, and future actions
- Develop alternative future land-use scenarios with climate change
- Inform land-use planning and decision-making with new data and visualization products

Pilot State-scale Watershed Assessment

- Support state-specific needs
- Develop methodology to apply to other jurisdictions
- Increase the technical capacity of HWGIT Coordinator & Staffer to ensure long-term maintenance and updates to the CHWA

Watershed Classification

Healthy

Unhealthy



Risk Factors

(informed by CHWA and CBP
Land Data team)

- Population Density
- Impervious Cover (%)
- Tree Cover (%)
- Hydric Soils (%)
- Road x stream crossing density
- Probability of land conversion

Diagnostic Measures

(informed by USGS Science
and geospatial contract work)

- Stream flow
- Stream temperature
- Stream incision/floodplain connectivity
- Aquatic community composition
- Toxics
- Nutrients
- Sediment

Science

(CHWA, CBP, USGS, others)

Coordination

(across GITs, Jurisdictions, inform GIT funding projects)

Watershed health

Policies, Incentives and Planning tools

(influencing land use)

Outreach

(data visualization, training, packaging resource, messaging)

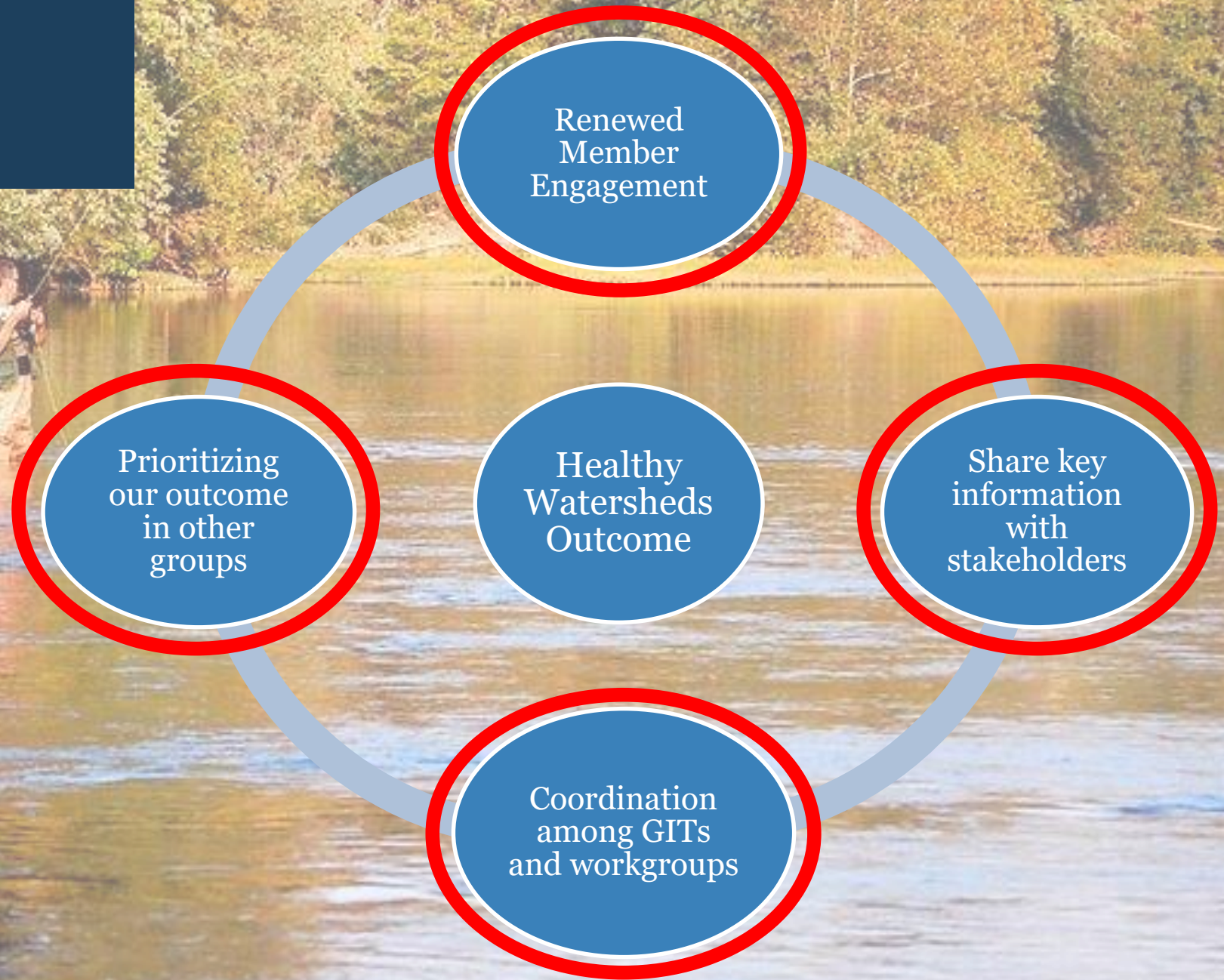
A large, stylized, blue letter 'H' is positioned on the left side of the slide. The background behind it is a dark blue vertical bar that transitions into a green bar at the bottom.

Help

How can the Management Board lead the Program to adapt?



Help Needed



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Discussion