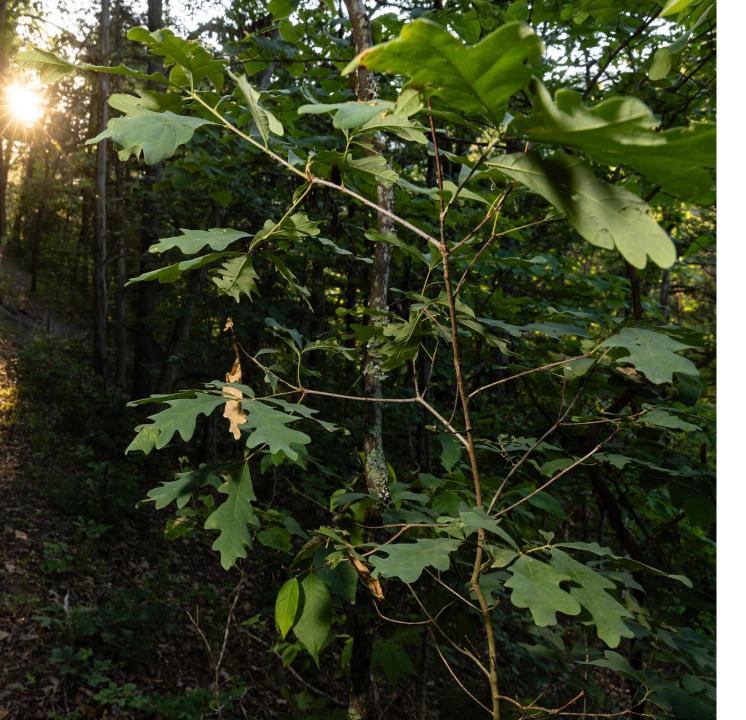


Alex Gunnerson¹ and Sophie Waterman¹

1. U.S. Geological Survey, Lower Mississippi Gulf Water Science Center





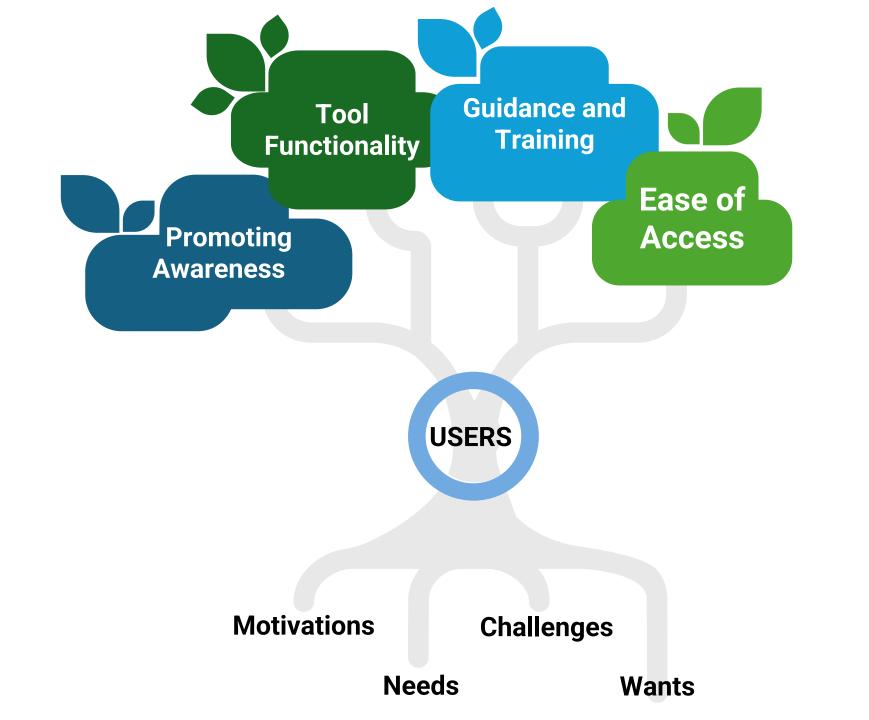
Agenda

- Background
- Decision Support Tools
- User Research
- Discussion



Why User Research? Why Now?

- The Beyond 2025 Steering Committee has expressed that the Chesapeake Bay Partnership needs to target actions to effectively address local environmental and community concerns.
 - There is a need to "better target and prioritize resources and to provide technical assistance and communication of outcomes."1
- GSAT is reviewing existing resources and identifying potential new resources that can address the needs of stakeholders and target audiences.
- User research is needed to better understand the motivations and needs of target audiences related to conservation and restoration decisions as we pivot to Beyond 2025.

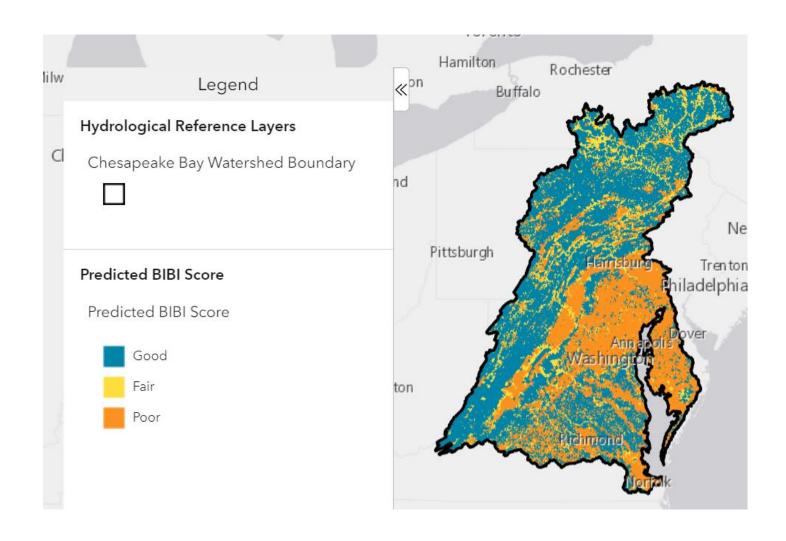


The Modular Approach



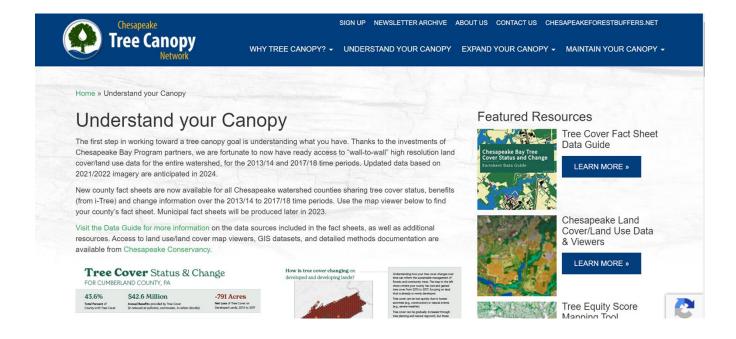


Chesapeake Healthy Watersheds Assessment 2.0 (CHWA2.0)



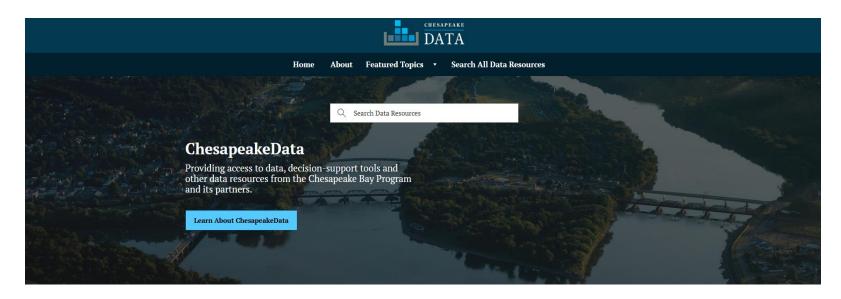
Assessment tool that explores the health and vulnerability of the Chesapeake Bay Watershed.

Tree Canopy Fact Sheets



County fact sheets for Chesapeake watershed counties sharing tree cover status, benefits (from i-Tree) and change information over the 2013/14 to 2017/18 time periods.

Chesapeake Data Portal



Collection of the latest data and geographic content from Chesapeake
Bay Program
Partners.

Watershed Data Dashboard



Welcome to the Chesapeake Bay Watershed Data Dashboard!

What is the Dashboard? What can you do with it? How can I get started? Updates

What is the Dashboard?

The Chesapeake Bay Watershed Data Dashboard is an online tool that provides accessibility and visualization of data and technical information that can help guide water quality and watershed planning efforts.

A large amount of scientific and technical information is available to environmental managers and planners at both state and local levels to inform restoration efforts. Much of this information has been updated or newly generated in recent years and can inform watershed restoration plan development and implementation. This information includes, but is not limited to:

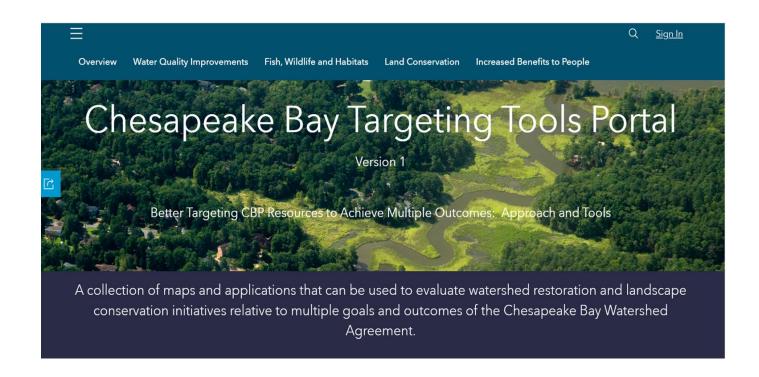
- Tidal and watershed water quality monitoring trends
- · Living resources trends and explanations
- · Information to help geographically target restoration efforts
- Information to help choose best management practices (BMPs)
- Current reported BMP implementation and opportunities
- · Opportunities for smart growth and land conservation

Data for the Targeting Restoration and Best Management Practice (BMP) Implementation modules come from the Chesapeake Assessment Scenario Tool (CAST). CAST provides access to the datasets and reports behind these modules, as well as tools for exploring transdo over time for watershed conditions such as animal populations, nutrient applications, land use acres, and nutrient and sediment loads. Users can also track BMP implementation, target BMP placement and view jurisdictional progress towards WIP goals and Planning Target reductions needed to achieve the Chesapeake Bay Total Maximum Daily Load (TMDL).

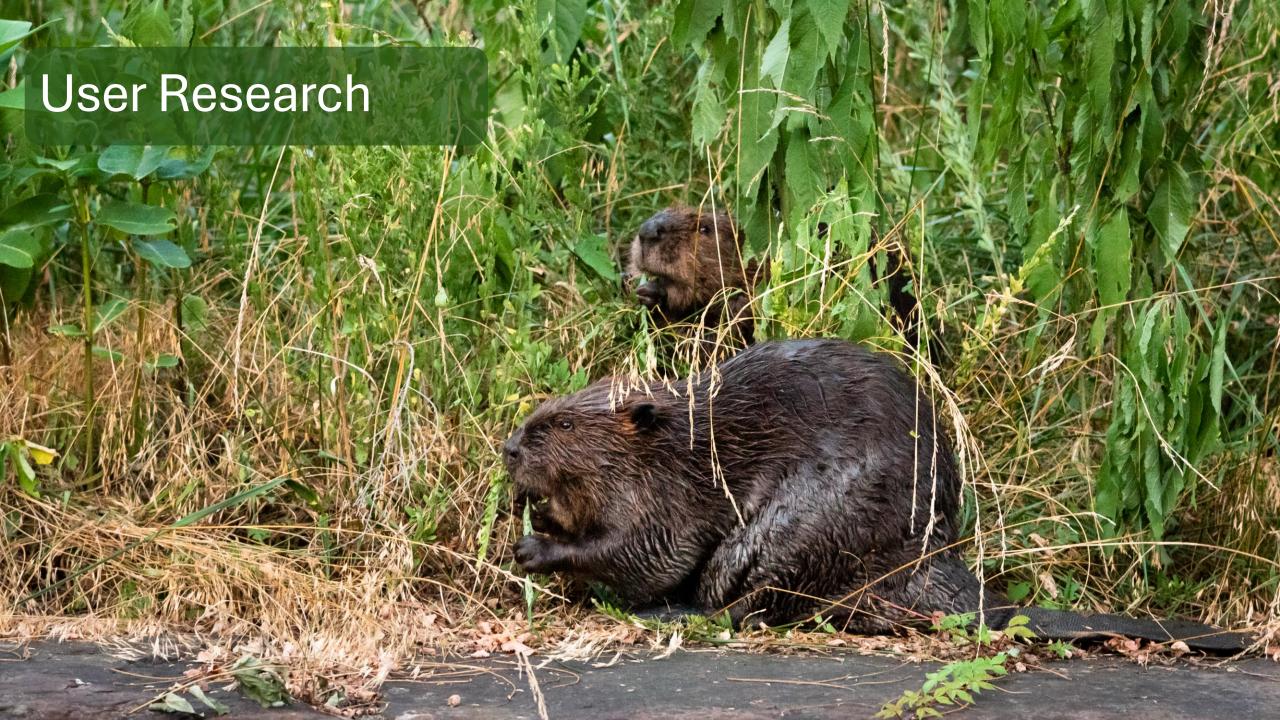
A tool that provides accessibility and visualization of data and technical information that can help guide water quality and watershed planning efforts.

Questions, comments, concerns? Reach us at: datadashboard@chesapeakebay.net

Chesapeake Bay Targeting Tools Portal



A collection of maps and applications that can be used to evaluate watershed restoration and landscape conservation initiatives relative to multiple goals and outcomes of the Chesapeake Bay Watershed Agreement.





Common Themes (Preliminary)

- Strong interest in parcel scale metrics
- Interest in BMP implementation suitability maps
- Desire for greater recognition of implemented conservation and restoration actions, through increased spatial representation
- Relatively frequent use of CBP/CIC 1m LULC data
- Request for datasets to include case studies and lessons learned in how to apply each resource

Next steps

- Final report Summer 2025
- Share findings with partners Summer 2025
- Prototyping of new decision support portal Summer and Fall 2025
- User testing of new decision support portal Fall and Winter 2025



Discussion Questions

- 1. What Bay Program resources (including, but not limited to geospatial tools) do you currently use, if any?
- 2. What factors motivate you to use decision support tools in general? (e.g., spatial scale, ease of use)
- 3. What type of technical assistance do you like to have when learning a new dataset or tool?
- 4. How can the Bay Program better support your work?