

Please stay muted with your camera off unless you are scheduled to present

Virtual Meeting
DAY 2: May 13, 2021
10am – 3pm



Recording Disclaimer

 This meeting will be recorded for internal distribution. By joining this meeting, you are consenting to such recordings. If you do not consent to being recorded, please do not join this meeting.



Admin & Logistics

- Be mindful of the meeting housekeeping notes:
 - Stay muted with your camera off unless you are presenting or are asking a question
 - Use the chat box for questions and brief comments, or use the Raise Hand icon to be called on during the discussion or Q&A sessions
 - For technical questions/problems, email shirley@greenfinstudio.com
- For the breakout sessions (no recording):
 - Introduce yourselves!
 - Participate actively and webcams on
 - Follow broadcast message directions
 - Stay in your assigned breakout group
 - Determine your break time
- For presenters:
 - Share copy of your slides: sherry.witt@gdit.com
 - Turn webcam on when presenting and responding to questions
 - Share your slides via zoom, stop sharing when done
 - Facilitator will queue you to wrap up via private chat or by turning on her webcam
- Engage in our meeting tools: Jamboard, Mentimeter, post-meeting survey



Day 2 Agenda

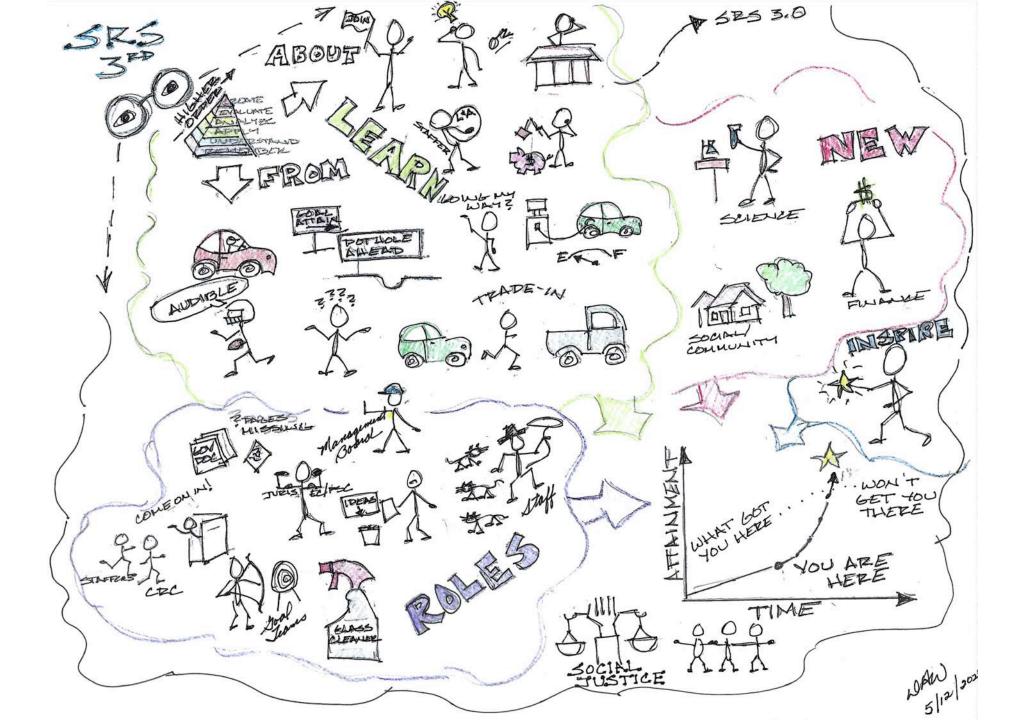
Schedule	Topic
10:00-10:15 am	VI. Opening Logistics & Opening Remarks
10:15-12:00 pm	 VII. What's on the Horizon: Lightening Rounds on Future Trends in Science, Policy & Economics Policy: Jurisdiction Policy; Tribal Engagement Science: STAC's CESR Initiative; Social Science Economics: Innovative Finance; USDA Funding Programs
12:00-12:30 pm	Lunch Break
12:30-2:15 pm	 VIII. Opportunities for Accelerating Progress in Outcomes Adaptive Management Successes and Challenges: Land Conservation; Oyster Restoration; Forest Buffers; Wetlands Breakout Group Session Breakout Group Report-outs
2:15-2:35 pm	IX. The Journey Forward, Nainoa Thompson
2:35-2:50 pm	X. Renewed Commitment & Collective Call to Action
2:50-3:00 pm	V. Wrap-up & Closing Remarks



Day 2 Opening Remarks

Denice Wardrop

CRC Executive Director, Biennial Meeting Co-Chair



DEIJ

Just as natural ecosystems depend on biodiversity to thrive, the long-term success of the Chesapeake Bay restoration effort depends on the equitable, just and inclusive engagement of all communities living throughout the watershed



What's on the Horizon: Lightening Rounds on Future Trends in Science, Policy & Economics

Presentations

Policy: Jurisdiction Policy, Greg Barranco, CBP Partnerships Team Lead, Biennial Meeting Co-Chair

Policy: Tribal Engagement, Brian Hamilton, Tribal Program Coordinator, EPA Region 3

Science: STAC's CESR Initiative, Kurt Stephenson, STAC, Virginia Tech

Science: Social Science, Amy Handen, Local Implementation Programs Coordinator

Economics: Innovative Finance, Tim Male, Environmental Policy Innovation Center

Economics: USDA Funding Programs, Jackie Byam, USDA

- Each presentation is ~10 min. The facilitator will monitor if time allows to take 1-2 questions from the chat following each presentation, otherwise Q&A will be reserved following the conclusion of all presentations.
- <u>Presenters</u>: Turn your webcam on during your presentation and Q&A. If the facilitator turns her webcam on, that is a signal to wrap up. You can share your own slides, unless we have a copy and you prefer for tech support to drive.

Jurisdiction Policy

Tribal Engagement

STAC's CESR Initiative

Social Science

Innovative Finance

USDA Funding Programs

STAC Initiative:

Achieving Water Quality Goals in the Chesapeake Bay: An Evaluation of System Response

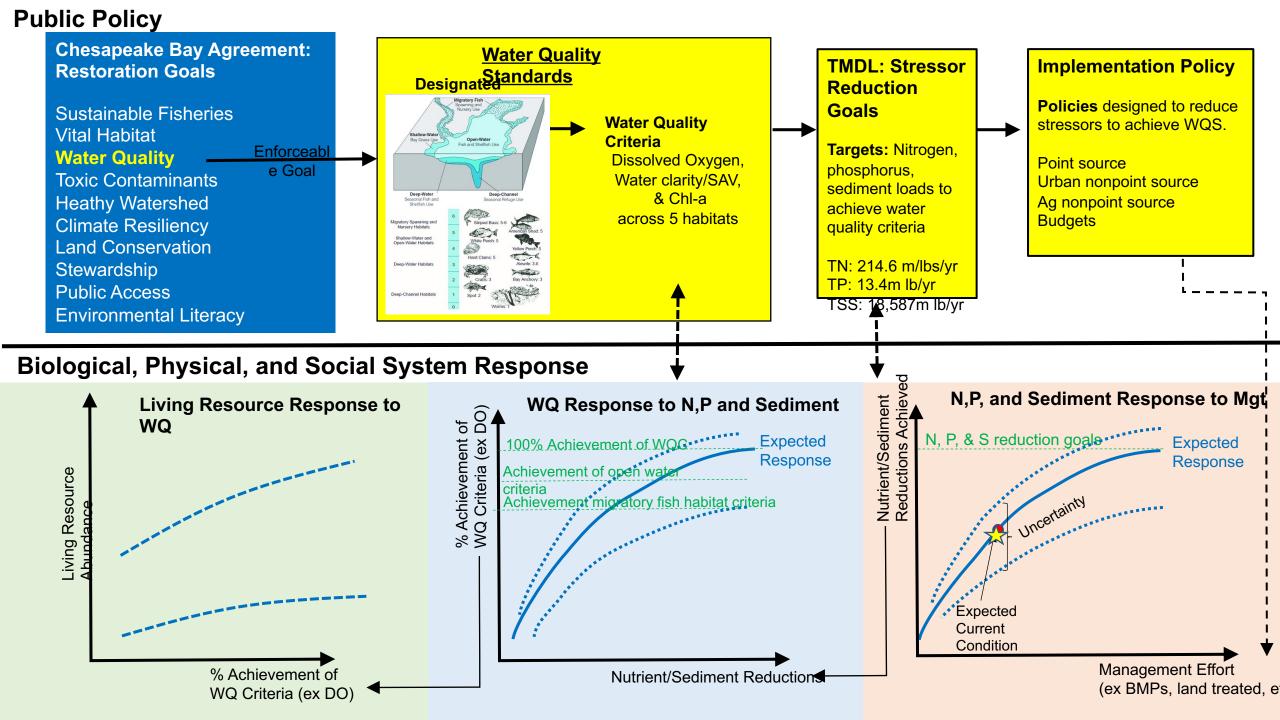
("CESR: Comprehensive Evaluation of System Response")

Kurt Stephenson STAC Member

Department of Ag & Applied Economics Virginia Tech

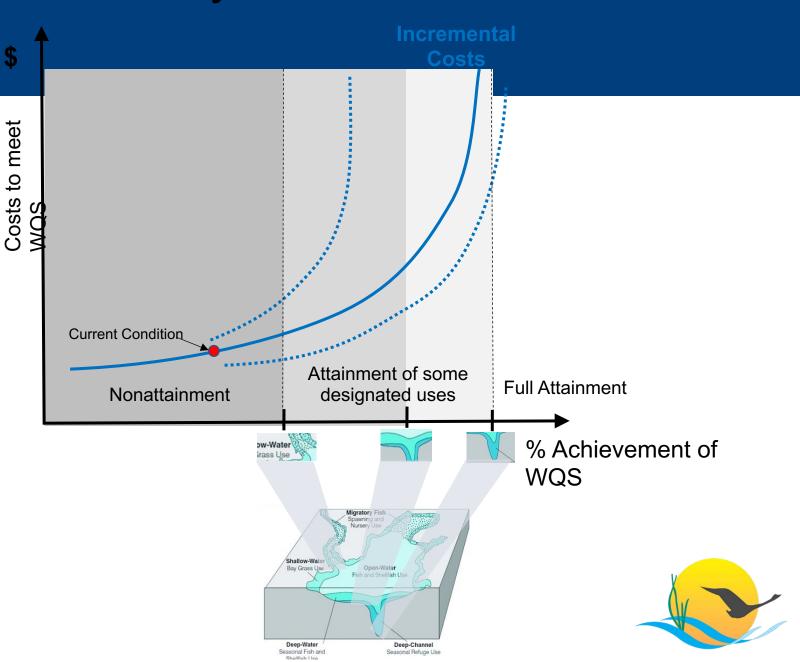
Report Objectives

- Identify response gaps and uncertainties in the system response (physical, chemical, biological, & socioeconomic) that impact efforts to attain Bay water quality standards (WQS), and identify recent scientific developments that can inform gaps & uncertainties
- Recommend strategies for improving understanding of system response and facilitating decision-making under uncertainty to attain WQS.



Attainability and Costs of WQS



























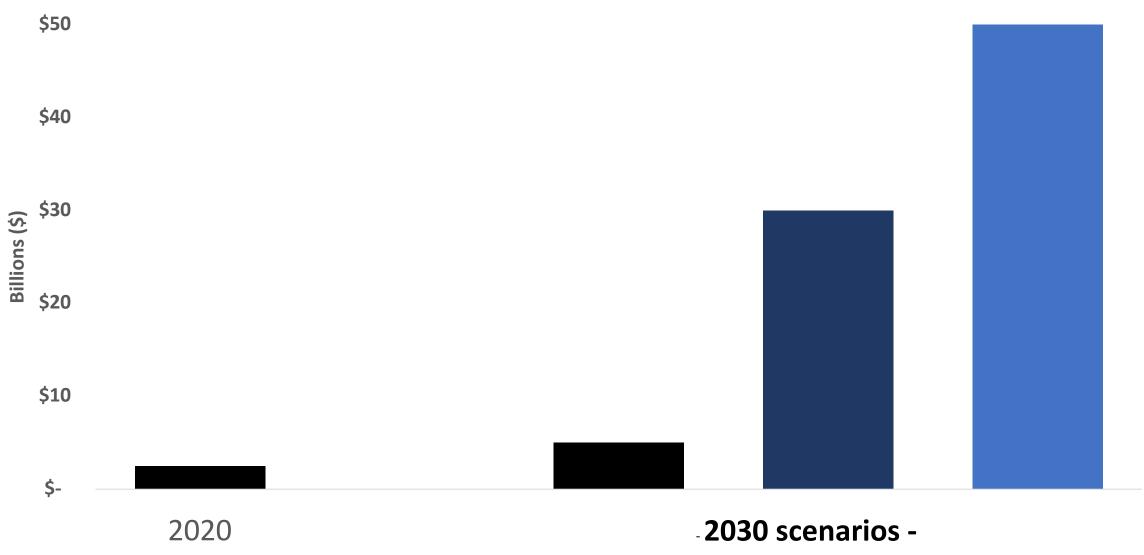
Our mission is to build policies that deliver spectacular improvement in the speed and scale of conservation.

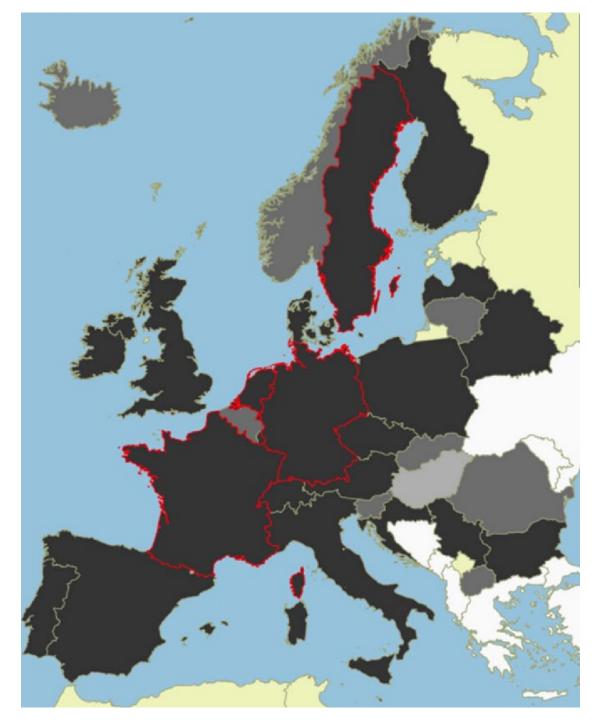
Wetland and stream mitigation banking - \$4 billion /year



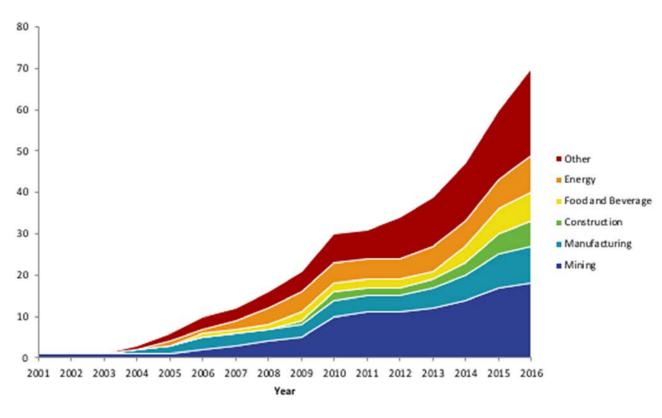


Likely Scenarios for Voluntary Demand for Carbon Credits

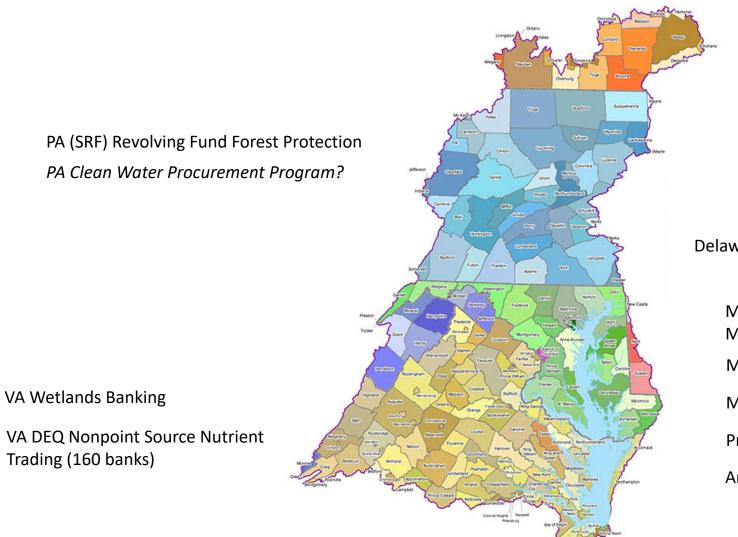




Corporate Net Zero Goals for Biodiversity



Finance Innovation Chesapeake Bay



Delaware Revolving Water Fund

MDOT Advance Stream Credit Procurement MDOT Smart Ponds

MD Clean Water Commerce Act

MD Forest Banking

Prince Georges P3 – biggest environmental P3 in US

Anne Arundel Full Delivery Credits

DC Stormwater Credit Price Floor

DC Stormwater Retention Credits

DC Green Bank

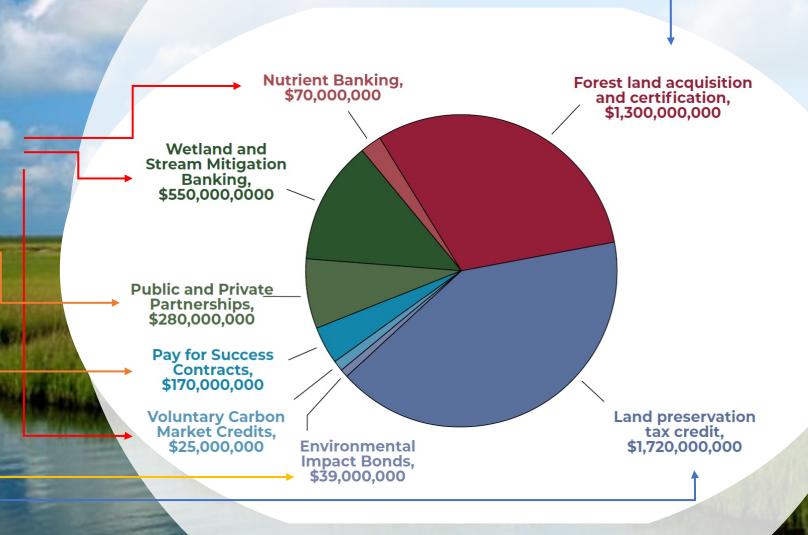
Market demand for sustainable products

Offset/net zero policies

Procurement & contracting

Bonds & borrowing

Tax policy























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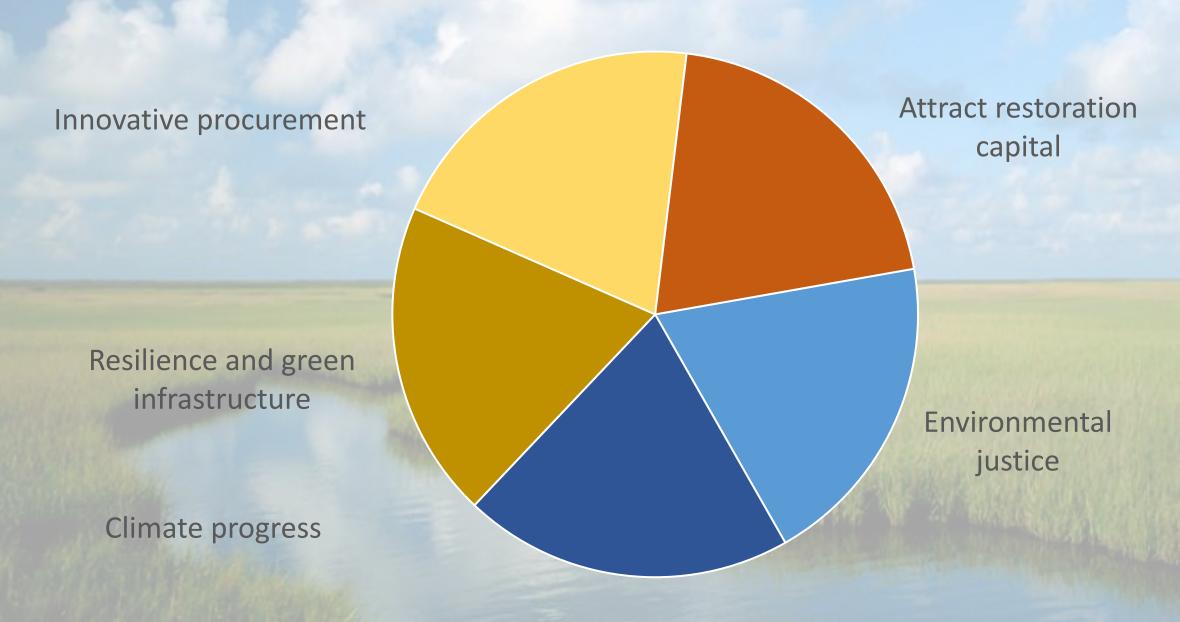








Maryland's Comprehensive Conservation Finance Act



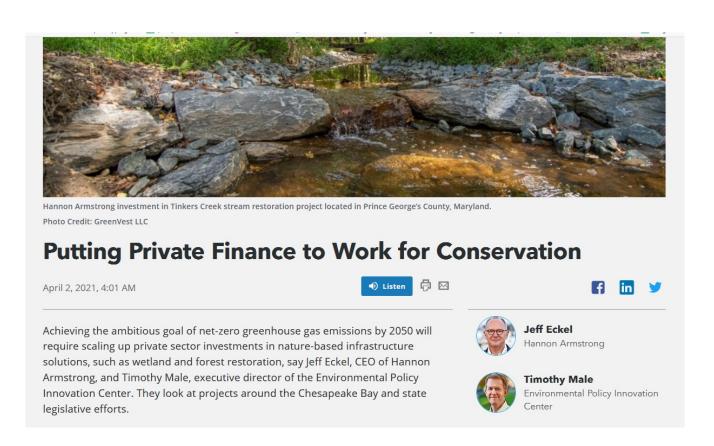
Maryland's Comprehensive Conservation Finance Act



- Recognize watersheds as state infrastructure
- First definition in law for blue infrastructure; first green infrastructure for climate resilience
- Water infrastructure loans include new priority for environmental justice & burdened communities
- Loan guarantees for nonprofits or for profits lower the cost to borrow money (used to finance green bonds, impact bonds, and pay for success contracts)
- Directs state to allow multiyear SRF and grant program applications for projects where intermediaries would deliver green infrastructure projects with co-benefits
- Steps toward human right to water
- Prioritizes projects with quantifiable co-benefits (local jobs, soil carbon, EJ)
- "Pay for Success" added as a contract category for environment agencies and DOT in state procurement code

Define Environmental Outcomes as Commodities

"Environmental outcome" means a commodity that is modeled or directly measured as a single, quantifiable, and certified unit of improvement to the environment, including a nutrient or carbon benefit



https://bit.ly/2R88Ksl

General policy principles that will help private investment expand



- Larger restoration projects are critical investments from pension funds and other investors have large minimum sizes (\$50M+)
- Environmental outcomes need to have a stable or predictable value; simply putting a definition in
 procurement code, allowing outcomes to be measured with models, raises the value of outcomes including
 for fully privately financed projects
- If it takes longer to permit or approve an oyster reef restoration or green infrastructure project than a highway interchange we've messed up and made the work less investable
- Opportunities for multi-year Revolving Loan and other funding will make it easier to add private investment to the funding pool for larger green infrastructure initiatives and the larger scale creates efficiencies that lower project costs
- Private conservation investment is best able to meet and accurately price the offset needs of regulated
 private activity let it. Don't subsidize development by having impact fees collected by government only at
 prices that are politically acceptable

What's on the Horizon: Q&A Session

Presentations

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Opportunities for Accelerating Progress in Outcomes

Sean Corson

Outcome Attainability Team, Sustainable Fishers GIT Chair

Adaptive Management Successes & Challenges

- **1. Oyster Restoration**, Sean Corson, Sustainable Fisheries GIT Chair
- **2. Land Conservation**, Joel Dunn, Chesapeake Conservancy President & CEO
- 3. Forest Buffers, Sally Claggett, Forestry Workgroup Coordinator
- 4. Wetlands, Christine Conn, Habitat GIT Co-Chair





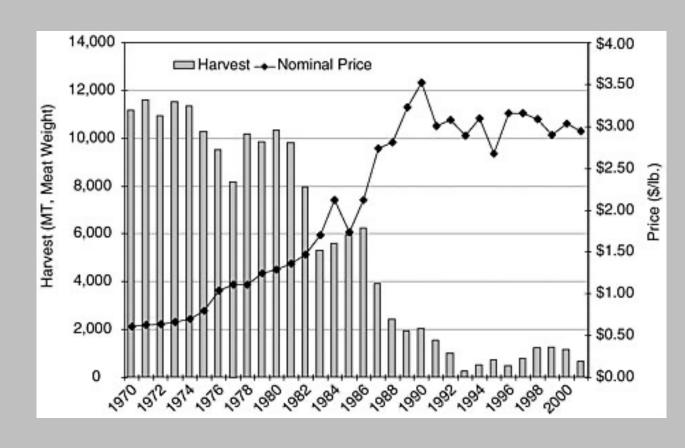
History and Status

- Oysters declined through the 20th Century due to overharvest, accelerated by disease in the 1980's and 1990's
- Industry focused restoration programs underway from the late 1980's and early 1990's throughout the Bay.
- By the late 1990's federal and state collaboration began on restoration

Early Collaborative Restoration

An example of entrenched thinking

- Small scale in size, a few acres at a time
- Counting acres restored in aggregate vs by project
- Closely tied to industry goals, with ancillary ecological benefits
- Sedimentation and disease suggested fishing them up within 3 years
- Seen as helping the economy and ecology, good solution under difficult circumstances



Shifting Perspective



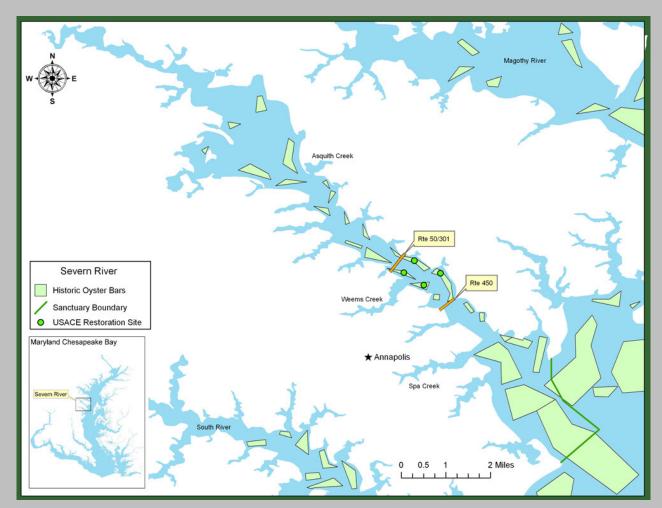
Steve Droter

- Chesapeake 2000 called for a 10x increase in oysters by 2010.
- Questions began to surface around the objective of restoration
- Economic benefits were simple to estimate
- An accountability problem developed around ecological benefits as the focus/perspective of the work changed

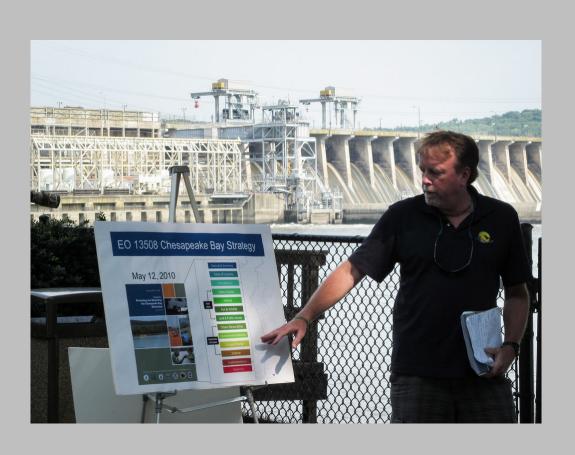
Severn River

new paradigm begins

- 2009 Turning point toward current approach in MD with implications for entire Bay
- Condemned waters, alternative substrates, bigger scale, prerestoration survey
- Clearly defined roles between
 MD, USACE, NOAA, UMCES, NGO



Taking the Concept to Scale



New kind of Goal

- Restore 20 tributaries by 2025 under EO 13508
- Emphasizing economic aspects of spillover, fish habitat, water quality
- USACE Master Plan
 - Evaluate best options in the Bay
- Federal invitation to work with states, NGO, universities; agreed to in theory

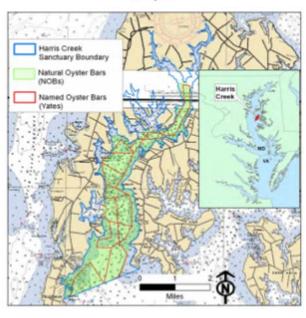
Cost and Accountability

- Overarching goal was set
- A general federal-state agreement to participate was in place
- Details needed to move forward
 - Metrics: What is a tributary? What is restored?
 What does success look like?
- Break goal out into manageable pieces
 - Begin with Harris Creek
- Blueprint clarified roles, responsibilities, costs, timelines
- One project in the context of 20

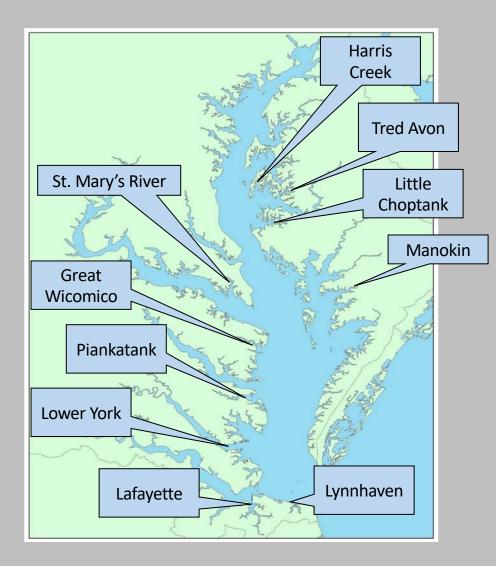
Harris Creek Oyster Restoration Tributary Plan:

A blueprint to restore the oyster population in Harris Creek, a tributary of the Choptank River on Maryland's Eastern Shore

As drafted by the Maryland Interagency Oyster Restoration Workgroup of the Sustainable Fisheries Goal Implementation Team January 2013



When Theory Meets Practice



2010 Harris Creek

- Sanctuary expansion 4%-24%
- Many potential targets, 20 tributaries +
- Price tag for project is \$30M

Adjust Expectations

• 2014 Agreement: 10 tributaries by 2025

Planning, accounting and monitoring success is critical

Meanwhile in Virginia

Good progress but a large resource gap

- USACE making progress on ecological restoration
- Virginia Marine Resources Commission, sanctuaries, and rotational harvest
- Multiple NGO's operating at a small scale

Building on recent success

- Blueprint, metrics, monitoring and strong performance results
- Design, cost, schedule providing predictable results

Conditions ripe for Commonwealth to find resources

- Flexibility in implementation but consistent with blueprint
- Provides structure while allowing for local differences led to additional cost savings
- Led to enough enthusiasm an 11th tributary was identified and completed





Keys to Success

- Collaboratively set goal (federal-state)
- Calibrate goal with access to property (public/private lands and water)
- Standardize measures of success
- Specify interim steps to achieve goal
- Establish clear roles and responsibilities in general and on each project
- Implement accounting and monitoring
- Remain patient, flexible, ambitious, yet realistic









































The Journey & Conditions for Success



















Land Trust Alliance Together, conserving the places you love.









ANACOSTIA

WATERSHED











OTSEGO LAND TRUST











































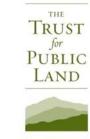






















Farms

Forests

Habitat

Heritage

Human 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



Timeline

President
Obama
EO 13508:
Chesapeake Bay
Protection and
Restoration.

NPS & Chesapeake
Conservancy
(newly formed) establish
partnership and begin to
regularly co-convene the
group.

CCP presents at
National Workshop
on Large Landscape
Conservation

Marking Milestones, comprehensive report on progress in conserving land in the watershed and compilation of State funding.

March 2021, CCP
Steering Committee
sent letter to
Secretaries Haaland,
Vilsack, and Raimondo
to share our
commitment to 30x30
and equitable access.



2010

2014

2019

2021 -

In response to EO,
NPS convened a group of
conservation
organizations to develop
recommendations on
land conservation and
public access.

CCP partners articulated for the first time the goal of protecting an additional 2 million acres and adding 300 public access sites by 2025.

2014 Chesapeake
Bay Watershed
Agreement signed
with verbatim CCP
goals

CCP sets new conservation goal to protect 30 percent of the watershed by 2030

May 2021, Conservation and Restoration of America the Beautiful report release with Chesapeake call out!

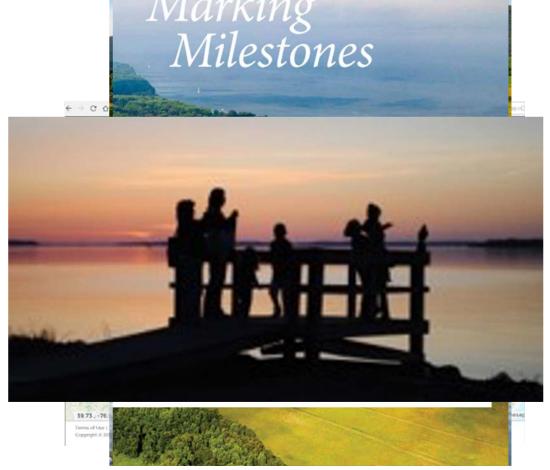
Conditions for success

- NPS leadership and support
- Leadership & engagement of a diverse senior-level Steering
 Committee
- Diverse funding
- Formal organization: guiding charter document, regular meetings, goals and annual initiatives, formal venue for idea and resource sharing
- Administration

Results

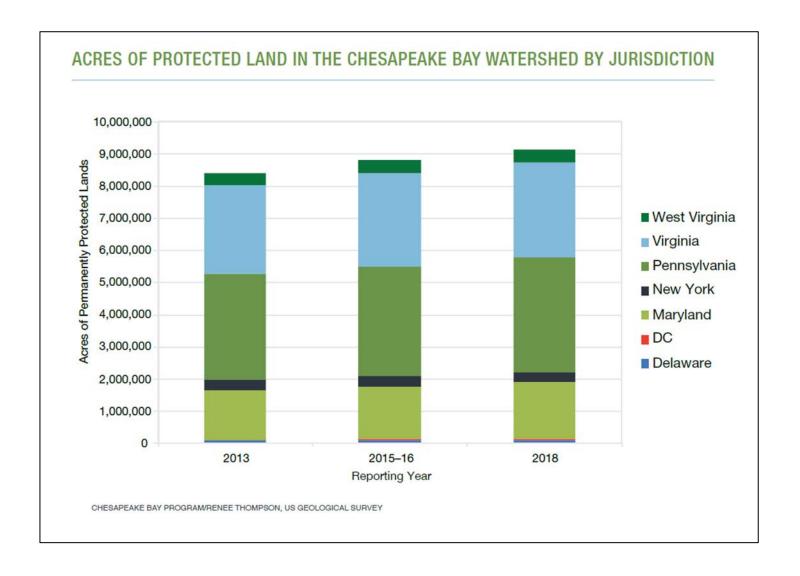
Increasing / Enhancing conservation across the Chesapeake Bay watershed through:

- Conservation Atlas
- Engaging an inclusive, new generation of conservationists
- Expanding land conservation financing
- Advancing conservation policy
- Building capacity of CCP and its members





Charting the future



Additional 2 million acres by 2025

30% by 2030

"Half Chesapeake"



2021 Strategy Review System (SRS)

Biennial Meeting

May 12-13, 2021



Wetlands

Christine Conn, Habitat Goal Implementation Team Co-Chair Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...



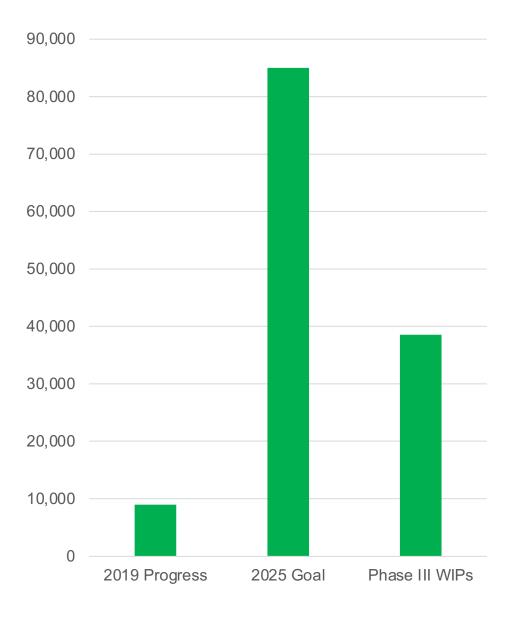
Goal: Vital Habitats (WETLANDS) Outcome:

Continually increase the capacity of wetlands to provide water quality and habitat benefits throughout the watershed. Create or reestablish 85,000 acres of tidal and non-tidal wetlands and enhance function of an additional 150,000 acres of degraded wetlands by 2025. These activities may occur in any land use (including urban), but primarily occur in agricultural or natural landscapes.



What is our Progress?

- 2010-2019: 16,130 acres of wetlands restored on agricultural lands (non-tidal)
- No tracking of tidal restoration





Is 85,000 Feasible?

- Outcome designed to address HABITAT with complementary water quality co-benefits
- Historic loss of about 1.5 million acres
- Restoration Potential = 1 million acres
- Restoration Goal = < 1% of available agricultural land

The Opportunity to Restore is There!



Tidal Wetlands

- Coastal Resilience
- Marsh Migration and Enhancement
- Shoreline Management
- Non-Tidal Wetlands
- Inland Resilience
- Floodplain Management/Flood Mitigation

Big Ideas = Big Projects = Landscape Conservation and Restoration

Opportunities for Accelerating Progress in Outcomes Breakout Group Session

- Breakout Group Assignments:
 - Participants will be placed into random groups ~10 persons each
 - Groups focus on one outcome: Forest Buffers, Tidal Wetlands, or Non-tidal Wetlands
- Breakout Agenda (~40 min):
 - Assign a person to facilitate the process and report out
 - Conduct quick intros
 - Discuss questions below and report brief responses in Jamboard pages that align with your breakout group name:
 - Sessions will end by 1:40pm for report-outs by outcome group
- 1. Which solutions and/or best practices from successful Outcomes can be applied to Forest Buffers and Wetlands? How and why?
- 2. What new, creative and/or big ideas should we consider for Forest Buffers and Wetlands that could significantly change the rate of trajectory in the short term?

Opportunities for Accelerating Progress in Outcomes Breakout Group Session Ground Rules

Focus on response to the two questions

- Focus on identifying solutions
- Refrain from picking apart the problems
- Avoid judgement, be supportive
- Move roadblocks and limitations to a parking lot
- Focus on what we can do now and in the near future

Think big, think differently

- Be creative and positive
- Be curious to explore
- Look at how we can change the trajectory in a big way to achieve Outcomes

No need for more input

 Forest Buffers and Wetlands leads will be participants of this process; they will not act as SMEs to answer questions or pick apart issues

Opportunities for Accelerating Progress in Outcomes Report Outs: Observations & Key Takeaways

- [Show Jamboards]
- Observations & Key Takeaways from the Outcome Attainability Team









The Journey Forward

Nainoa Thompson
Native Hawaiian navigator
Polynesian Voyaging Society President

Renewed Commitment & Collective Call to Action

Denice Wardrop

CRC Executive Director, Biennial Meeting Co-Chair

Renewed Commitment & Collective Call to Action

Menti.com, Passcode: (see chat)

- 1. [List question]?
- 2. [List question]?

Observations and Key Takeaways

- Sean Corson, Sustainable Fisheries GIT Chair
- Carin Bisland, Branch Chief, Partnerships, EPA CBPO



Day 2 Wrap-up & Closing Remarks

Michelle Price-Fay
CBPO Acting Director

Thank you for your support and participation!

