Pooled Monitoring Forum: Restoration Research to make Science and Regulatory Connections

Tuesday, June 9, 2020, from 10 AM to 4 PM
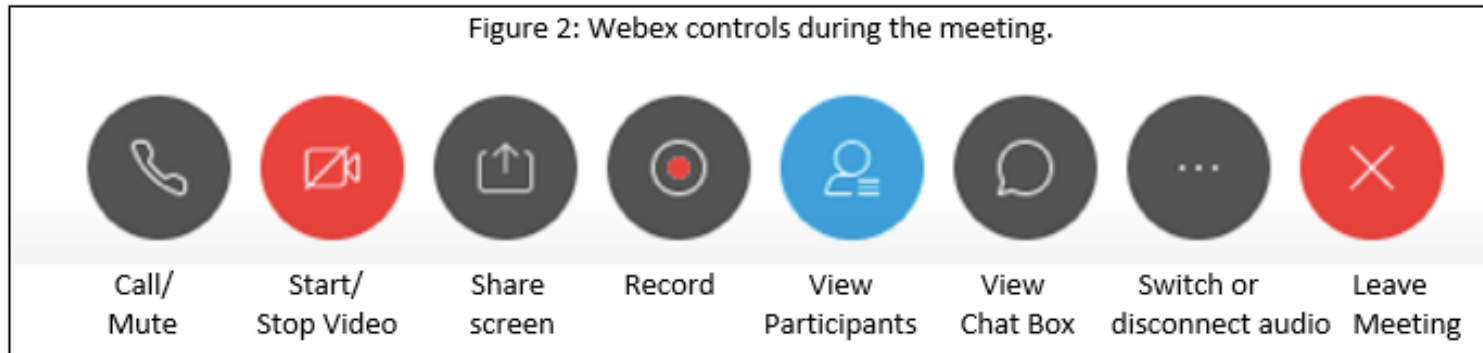
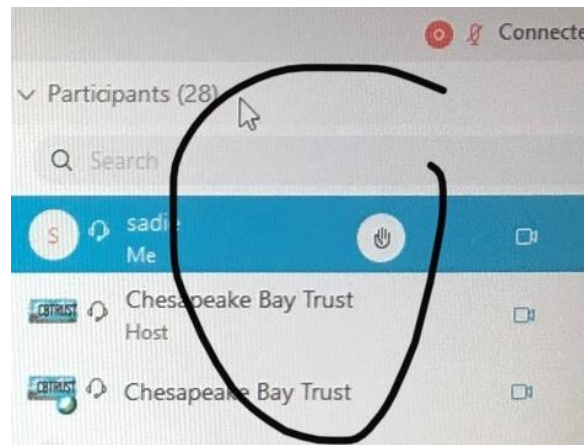| WebEx Link	https://cbtrust.webex.com/cbtrust/j.php?MTID=m9ddee56fb7be6449edbe2b17cc9f4ca2

Audio	1. Join by computer audio automatically. *Recommended* or
	2. Join by phone: Use this option if your computer lacks an internal microphone or if you do not have access to a computer.
	   a. Call 415-655-0001
	   b. Enter meeting access code/meeting number: 160 353 5588 (join by phone only – stop here)
	   c. Enter your attendee ID # (must join WebEx meeting through meeting link first to access your ID #)

Tech Help	• Nguyen, is our Webex host, and she can help if you raise your hand, chat with host, email nle@cbtrust.org, or call/text 410-635-0266 throughout the meeting • Joe Toolan is tech help in the morning and for the afternoon Zoom practitioner/researcher "break-out" and can be reached at jtoolan@cbtrust.org & by calling 410-974-2941 ext 116 • Kathy Somoza is presenting content and helping presenters throughout the meeting & is back-up help with technology; she can be reached at 443-223-2278, ksomoza@cbtrust.org.

Technology Landing

- How to join and participate in this webex meeting: https://drive.google.com/file/d/1ekkfyYCsE81boQjjS_yxFleXvfoQppLp/view?usp=sharing
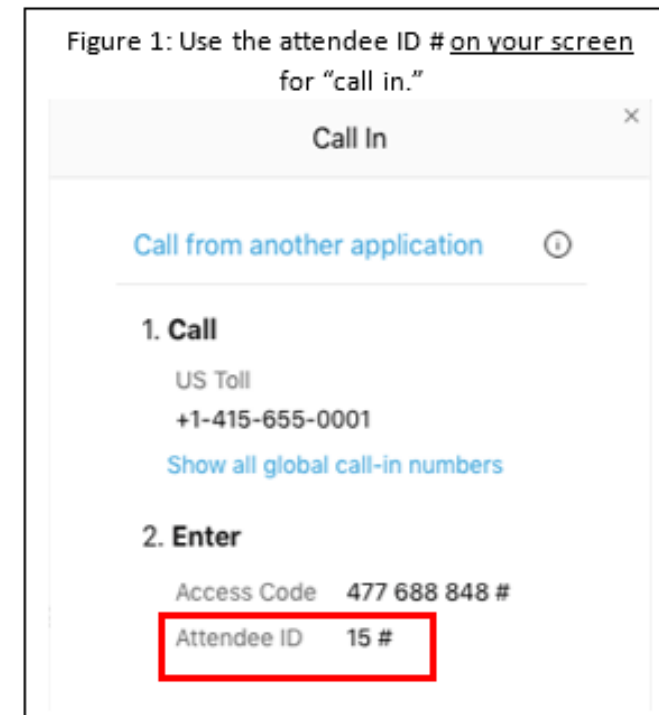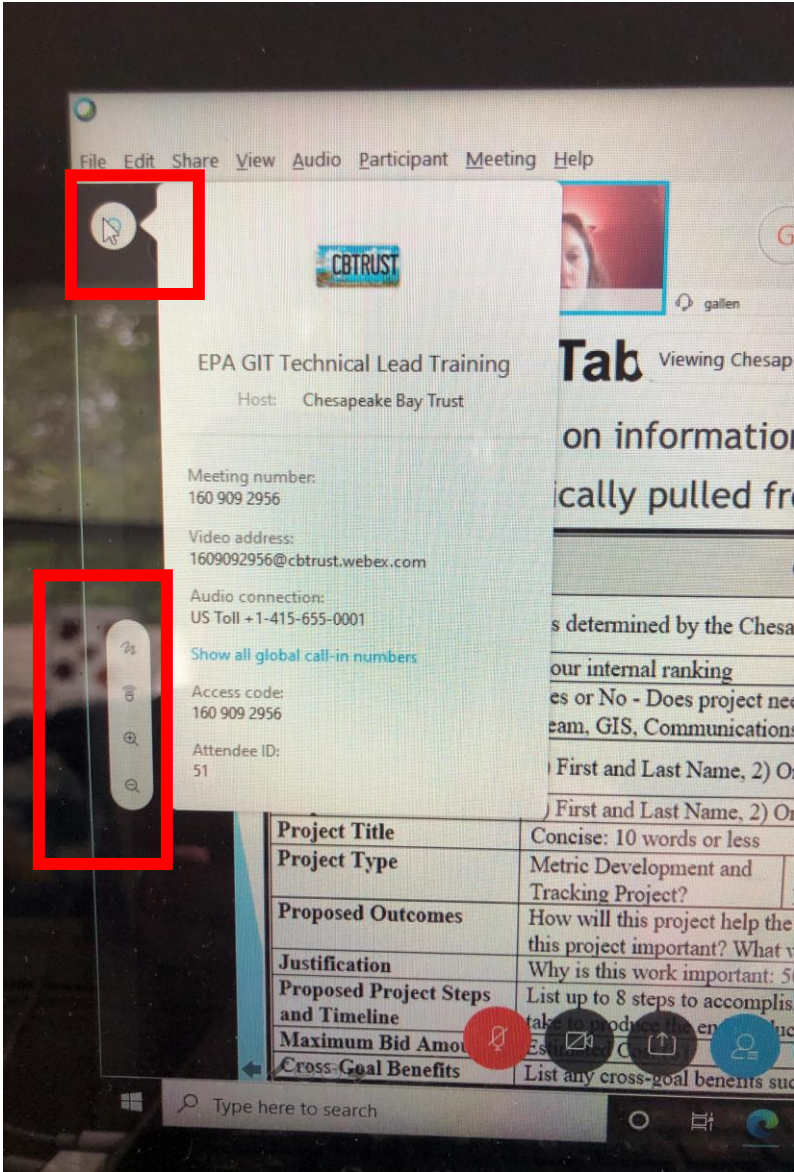
- Webex controls:

Figure 2: Webex controls during the meeting.

| Call/ Mute | Start/ Stop Video | Share screen | Record | View Participants | View Chat Box | Switch or disconnect audio | Leave Meeting |

- <u>Raise hand</u> or chat with host (Nguyen) for assistance throughout the meeting

Participants (28)

Search

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Chesapeake Bay Trust Host

Chesapeake Bay Trust

Connected

If phoning into the meeting use your attendee ID:

Figure 1: Use the attendee ID # <u>on your screen</u> for "call in."

Call In

Call from another application

1. **Call**
   US Toll
   +1-415-655-0001
   Show all global call-in numbers

2. **Enter**
   Access Code   477 688 848 #
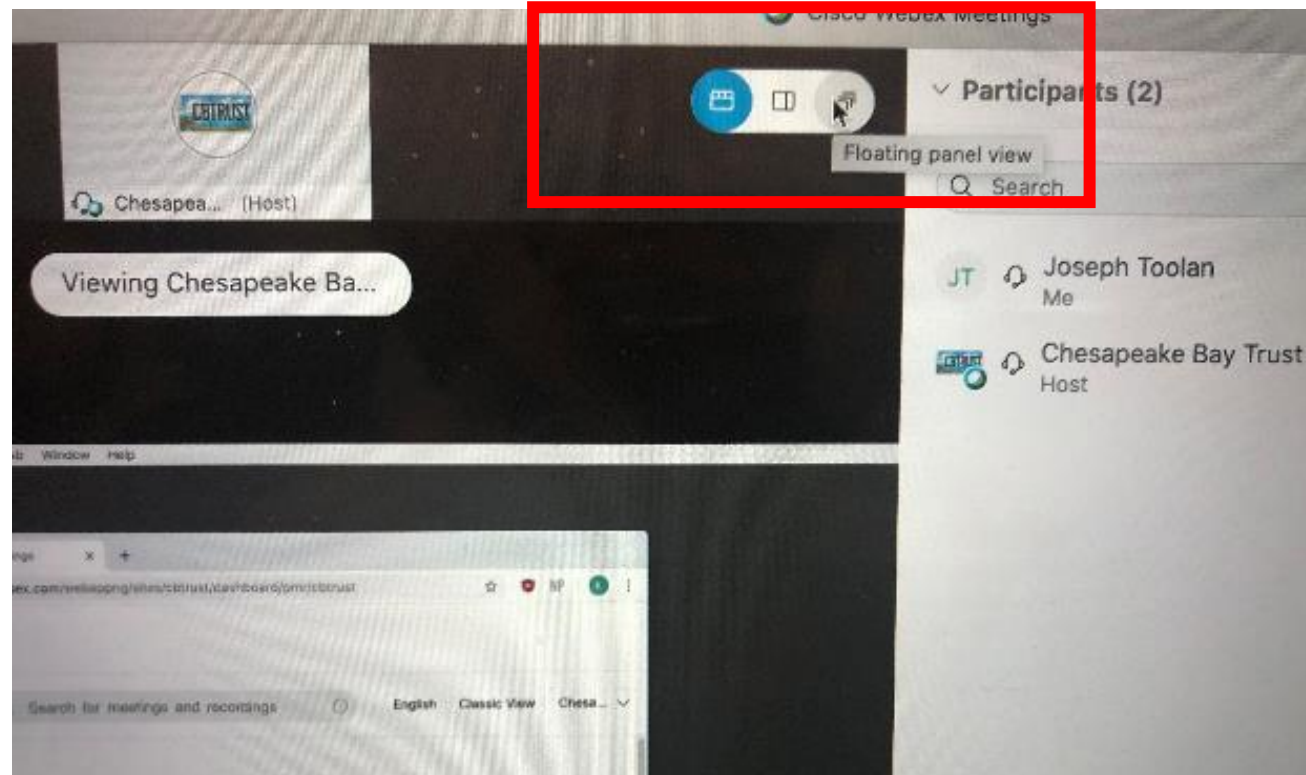   Attendee ID   15 #
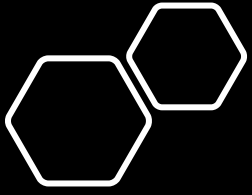
Meeting Information & Zoom In/Out
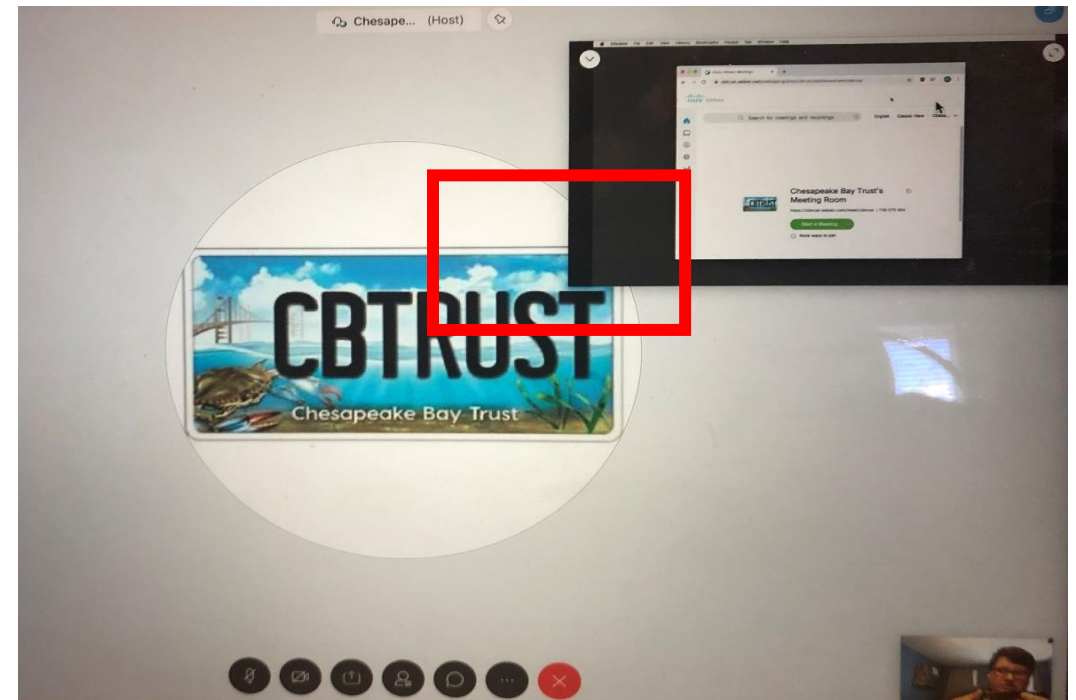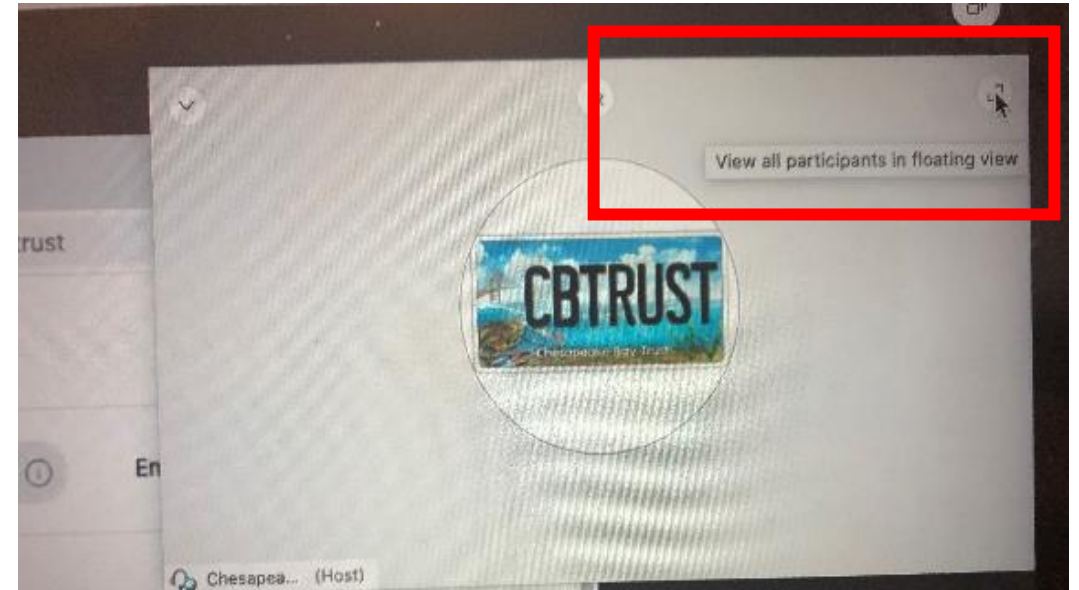
View Participants & Raise Your Hand
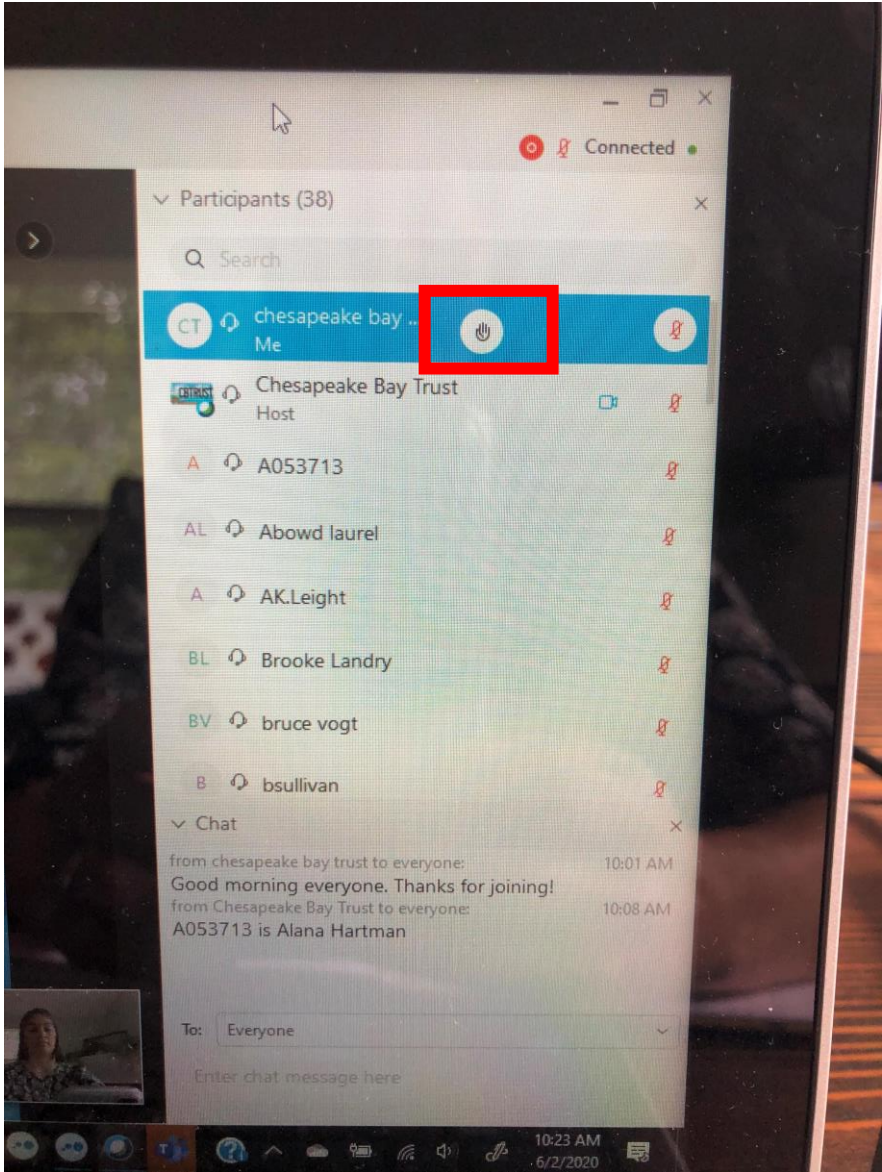
Changing your view

Floating panel view

- In the "Floating panel" located right below your mouse, find the circular button in the upper right corner that says, "view all participants in floating view" and click (top image).

- Your screen will look like the image on the bottom. When there are more people, you will see everyone in a "grid" and be able to move the presentation screen as needed.

  - Need to make the presentation screen bigger? Grab the lower left corner of the box and drag to expand as needed.

Panel view showing zoom feature (left) and participants (right)

Meeting Materials

- Meeting materials such as the agenda, presentations, and registration list:

  - are on the google drive at: https://drive.google.com/drive/folders/1G6DHiyEBm6qObqMQ29vWKegzvVTRcd58?usp=sharing

  - will be posted on the Chesapeake Bay Trust's Pooled Monitoring Initiative website after the meeting at: https://cbtrust.org/grants/restoration-research/

Pooled Monitoring Forum Agenda

10 to 10:30 am	Morning Session with <u>opening remarks from **Lee Currey**</u>, Director of the Water and Science Administration, MDE
10:30 to 11 am	**Jon Butcher** (Tetra Tech, Inc.), "Climate impacts to restoration practices"
11 to 11:30 am	**Roxolana (Lana) Kashuba** (Exponent, Inc.), "The effect of BMPs on water quality: Optimizing monitoring to reduce uncertainty and maximize scientific value"
11:30 to 12 pm	**Cindy Palinkas** (UMCES), "Long-term impacts of living shorelines to SAV habitats in Chesapeake Bay"
12 to 12:30 pm	Lunch Break
12:30 to 1 pm	**Tom Schueler**, Executive Director of the Chesapeake Stormwater Network "Value of Pooled Monitoring Program & Practitioner stream restoration research needs"
1 to 1:30 pm	**Tess Thompson** (Virginia Tech), "Linking stream restoration success with watershed and design characteristics"
1:30 to 2 pm	**Bob Hilderbrand** (UMCES), "Determining ecologically realistic restoration objectives"
2 to 2:30 pm	**Jesse Iliff** (Arundel Rivers Federation) and **Tom Jordan** (SERC), "Assessing Watershed-Scale Restoration Effectiveness: Treatment Impacts and Monitoring Requirements"
2:30 to 3 pm	**Carol Wong** (Center for Watershed Protection, Inc.), "Literature review on techniques to reduce salt loadings to streams: Which techniques of salt application to roadways will result in less loadings to streams?"
3 to 3:30 pm	Break Out Groups to Change the World (of Restoration)
3:30 to 4 pm	Summary of top research questions from regulators and practitioners in Break Out groups

Morning Session
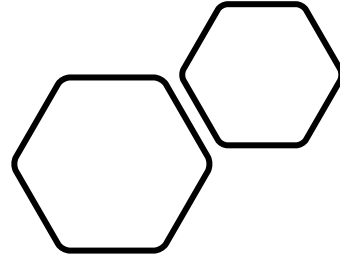
- **Welcome and charge for the day - Jana Davis**, Executive Director of the Chesapeake Bay Trust

- **Lee Currey**, Director of the Water and Science Administration, Maryland Department of the Environment (MDE) – Opening remarks for state priorities and how research can help

- Pooled Monitoring Initiative – Restoration Research program background, current state, and future of the program/science (**Sadie Drescher**, Director of Restoration Programs, Chesapeake Bay Trust)

Lee Currey, Director of the Water and Science Administration, Maryland Department of the Environment (MDE) – Opening remarks for the Pooled Monitoring Initiative's Forum 2020

Pooled Monitoring Initiative - Science answers key restoration questions

Kelsey (UMD student) measuring groundwater for "Tree Trade-Offs in Stream Restoration Projects: Impact on Riparian Groundwater Quality" project (PI is Sujay Kaushal)

➤ Desire to support the best, most cost-effective practices at the most optimal sites, but differences of opinion sometimes exist, and questions about the performance and function of some of these practices persist

➤ Pool resources to answer restoration questions posed by regulatory community & practitioners

➤ Increase power, objectiveness, and ability to know what works

➤ Bring science back to those that can use the research/data

Pooled Monitoring Initiative Provides Solutions

- Regulators prioritize their concerns with input from practitioners

- Funders "pool" resources

- Top restoration questions issued in the Restoration Research Request for Proposals (RFP) in FY15 and led by the Chesapeake Bay Trust

- Scientific teams research these questions and deliver answers back to the regulators

- RFP open to any organization – looking for best groups to answer your questions

- Results used in decisions, policy, practices, etc.

Versar, Inc. scientist visiting Red Hill Branch to measure tree/vegetation "trade-offs" for stream restoration

Process is Inclusive and Transparent

This is how the Pooled Monitoring Initiative works - integrating the key partners, stakeholders, users, scientists, etc. throughout the process to share information and guide the feedback loop

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Pooled Monitoring Advisory Panel (PMAC)

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PMAC – Polls these communities on priority research needs

Regulators

Practitioners

Academics?

MS4s

↓

PMAC – Leads development of prioritized research questions list

↓

PMAC – Leads review of existing literature to determine if answer exists OR if data exist that could be analyzed →

↓

PMAC prepares and sends out a call for proposals to answer questions: either new research or new analysis

↓

PMAC reviews proposals along with review from additional experts →

Information disseminated to all groups

↑

Agency reps go back to agencies –training of permit review staff occurs

↑

Agency reps and AP meet again to get consensus on the feedback

↑

Agency rep takes info back to agency and gets input/ feedback from their staff

↑

PMAC meets with 1 individual from each agency to communicate results and recommendations/interpretations

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PMAC interprets answers into application recommendations (particular to permitting)

↑

Research conducted; answers obtained

Restoration Research Award Program

- ➤ Supported 27 projects since FY 15 at $4.7M

- ➤ Guided by the Pooled Monitoring Advisory Committee

- ➤ Uses scientific reviewers across the world to vet applications

- ➤ Runs all applications through a "management review"

- ➤ Projects are managed as contracts

- ➤ Questions are cycled off/on the RFP each year

- ➤ All awards, progress, and program products are online at: https://cbtrust.org/grants/restoration-research/
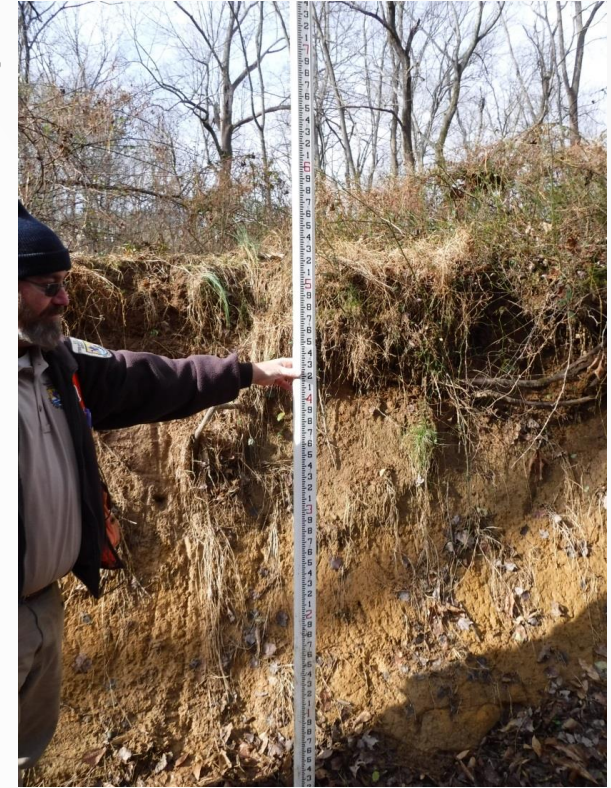
Monitoring stream banks in Carroll County, MD, to see if they recover after restoration

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