

## Digging Deeper into User Engagement to Build Collaborative Science Capacity



Date: Wednesday, April 26, 2023

Time: 2:00pm-3:00 pm EST

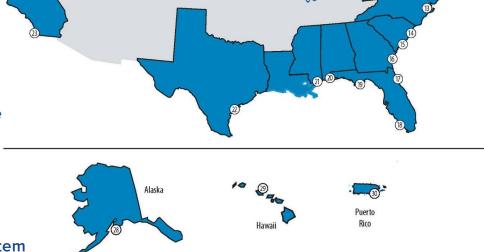


#### **NATIONAL ESTUARINE RESEARCH RESERVES**

#### The National Estuarine Research Reserve System (NERRS)

- **NOAA Program**
- Place-based collaboration with a local partner, e.g.:
  - State Agency
  - University
  - Nonprofit
- Reserve programs:
  - Stewardship
  - Research and scientific monitoring
  - Training
  - Education

#### The NERRS Science Collaborative supports science for estuarine and coastal decision-makers.



#### Great Lakes

- 1. Lake Superior, Wisconsin
- 2. Old Woman Creek, Ohio

#### Northeast

- 3. Wells, Maine
- 4. Great Bay, New Hampshire
- 5. Waquoit Bay, Massachusetts
- 6. Narragansett Bay, Rhode Island
- 7. Connecticut

#### Mid-Atlantic

- 8. Hudson River, New York
- 9. Jacques Cousteau, New Jersey
- 10. Delaware
- 11. Chesapeake Bay, Maryland
- 12. Chesapeake Bay, Virginia

#### Southeast

- 13. North Carolina
- 14. North Inlet-Winyah Bay, South Carolina
- 15. ACE Basin, South Carolina
- 16. Sapelo Island, Georgia
- 17. Guana Tolomato Matanzas, Florida

#### Gulf of Mexico

- 18. Rookery Bay, Florida
- 19. Apalachicola, Florida
- 20. Weeks Bay, Alabama
- 21. Grand Bay, Mississippi
- 22. Mission-Aransas, Texas
- West
- 23. Tijuana River, California
- 24. Elkhorn Slough, California
- 25. San Francisco Bay, California
- 26. South Slough, Oregon
- 27. Padilla Bay, Washington
- 28. Kachemak Bay, Alaska

#### Pacific

29. He'eia, Hawai'i

#### Caribbean

30. Jobos Bay, Puerto Rico

#### PROPOSED

Bay of Green Bay, Wisconsin Louisiana





#### Questions

Use the **Questions** feature to ask the speakers questions about the presentation.

#### Need help?

Use the **chat** feature to contact organizers and panelists.





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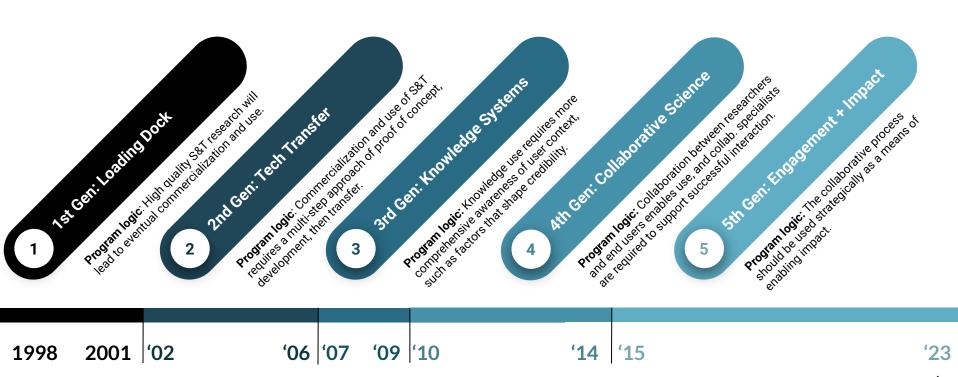
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#### **Problem Statement**



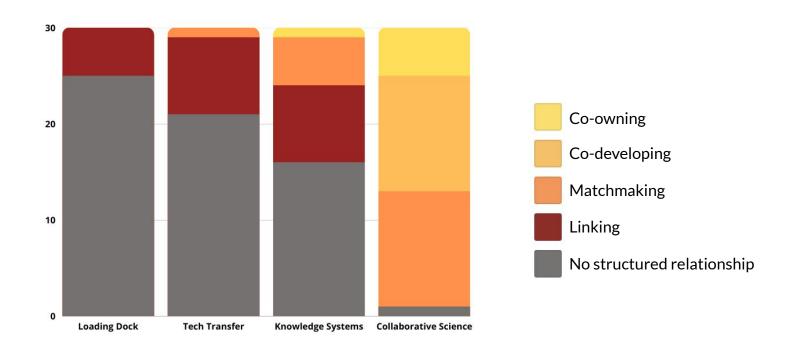
- Interaction between project teams and intended users is known to help increase the impact of jointly produced knowledge.
- BUT...
  - It takes a lot of time.
  - It can be costly to all parties involved.
- Therefore, the NERRS Science
  Collaborative wants to understand how its approach can best enable effective collaboration.

## The Science Collaborative Through Time

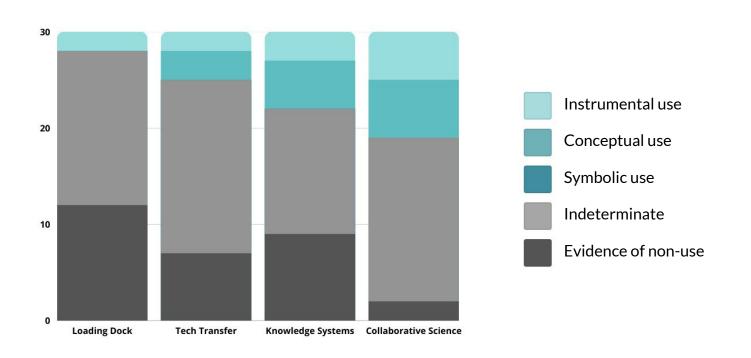


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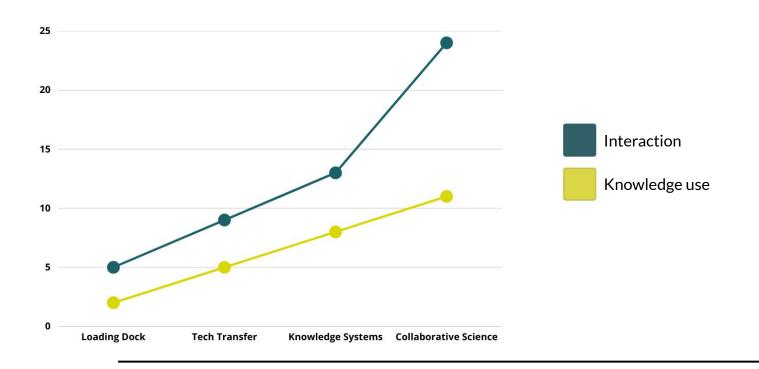
### Interaction intensity (first 4 generations)



## **Use (first 4 generations)**



#### Interaction vs. Use



## **Engagement + Impact: Reframing the Question**

#### This work includes:

- Expanding "outcomes" category to understand the nuance of impact beyond use
- 2. Understanding practical dimensions of "process"
- Supplementing project reports by talking to users directly about their experiences

Central question: Under what conditions does interaction between project teams and intended users yield impact?



## **Approach**



## 3 Points of Analysis

Goals: What were the goals of the project?

**Process:** What did the process look like? This is referring to both interaction intensity and the practicalities of the engagement

**Outcomes:** What were the outcomes of this project? How closely did they align with project goals? What was the resulting use?

## **Approach**

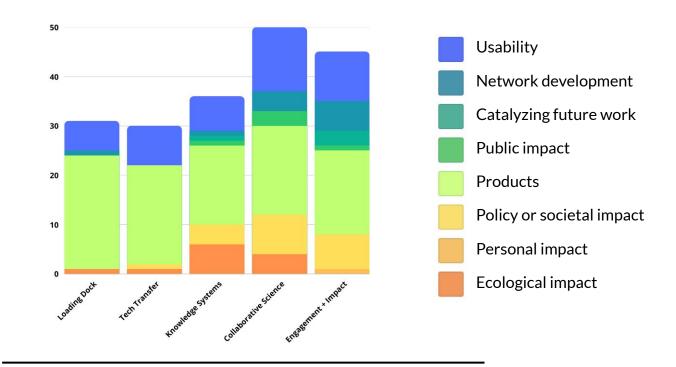


#### **Collaborative Goals**

"

Be realistic about what you can accomplish from the beginning. What were the results of [similar projects]? Did you ever get off the ground to begin [with]? What was the kind of experience that you can take and apply, so that you don't make the same mistakes... and actually move in a direction that gives you something."

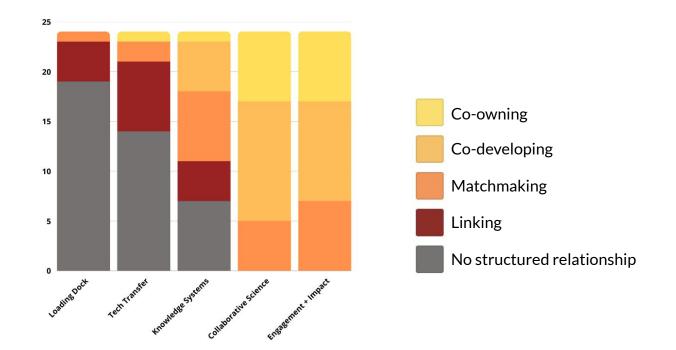
-Senior Program Manager, Environmental Research and Consulting Firm



### **Interaction Intensity**

[What] we're trying to do, it's just one of one hundred balls that are all in the air. So you have to keep visible enough that people don't forget, and they remember what they're doing, but not so much that also they're like, 'I can't engage on that anymore'. There's definitely a balance in there."

-Senior Research Scientist, Federal Agency



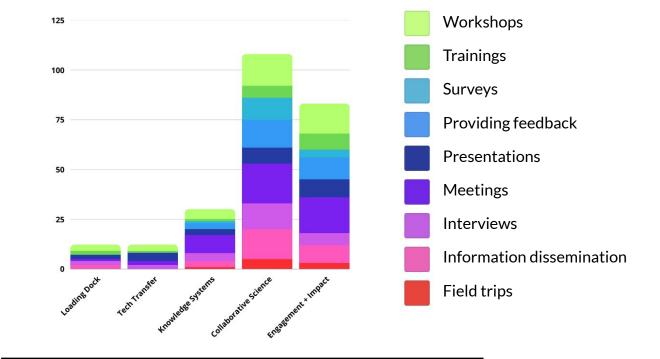
#### **Process Activities**

Having multiple people to contact [made a difference]. So let's say if there's someone who really didn't want to talk to a regulatory person, they could talk to somebody else that wasn't regulatory. And I think that was very important."

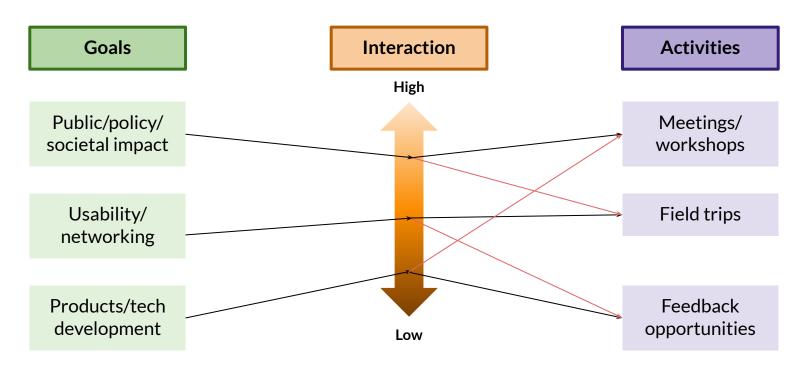
-County Planning Director

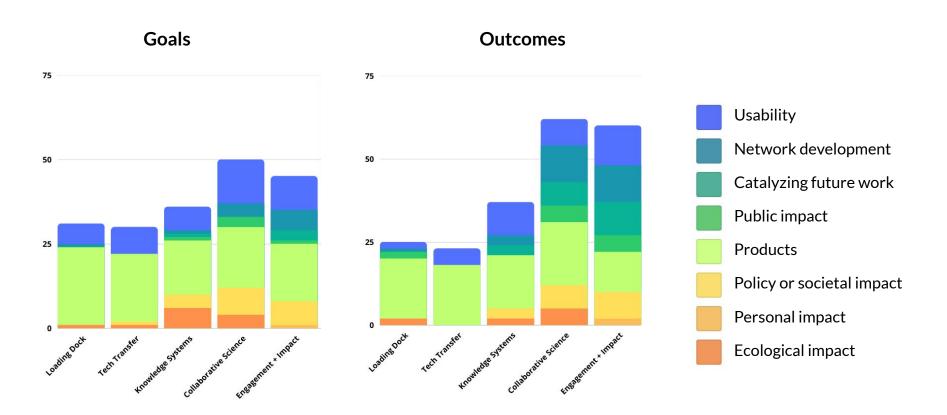
It wasn't overwhelmingly scholastic, you know. I think that's one of the things that I see turns off a lot of people... Anything that you can do that can bring it down to earth."

-Conservation District Manager

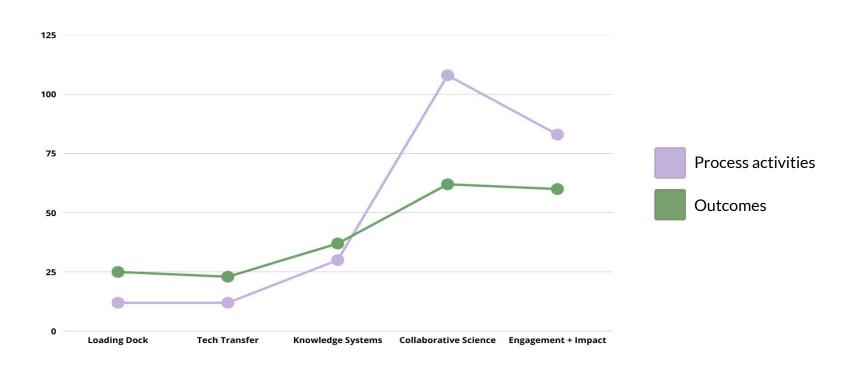


### **Potential Approach Pathways**





#### **Process Activities vs. Outcomes**

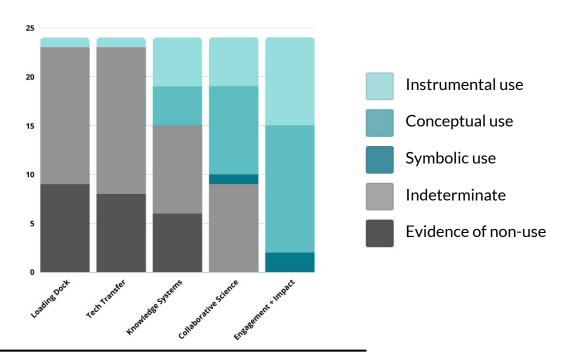


#### Use

"

.. chain reactions of information and cultural shift... it became a huge awareness thing where people were like 'We need to protect our [habitat]'... It's getting enculturated."

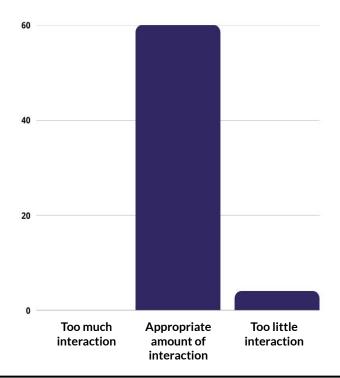
-Conservation District Manager



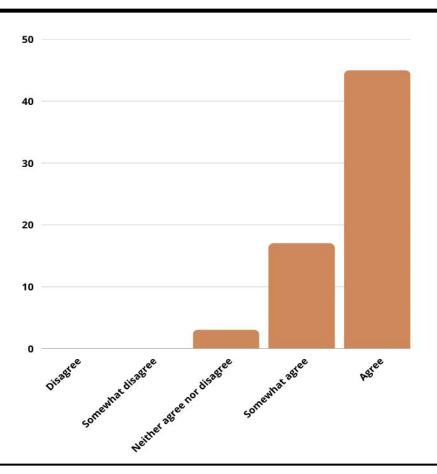
## **Approach**



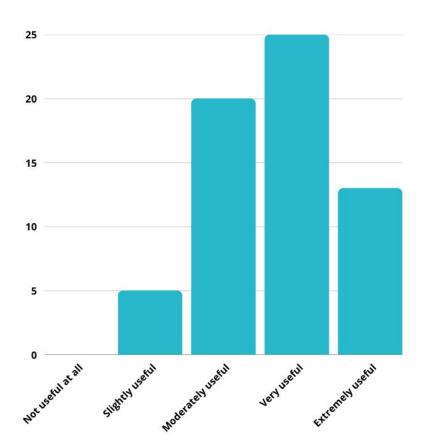
Please indicate which response most closely aligns with your opinion on the amount of time you spent interacting with the project team.



As a participant in this project, I feel like my input and expertise was meaningfully represented in the project's activities and outputs.



Please indicate the extent to which new knowledge has been useful to your work.

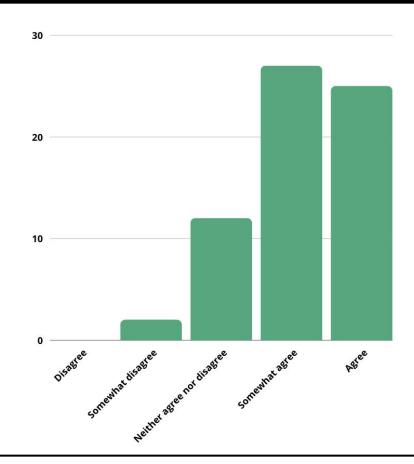


# This project has changed the way I think about a problem or potential solutions.

"

The work products, the development of understanding... being able to have a language that's transferable outside of the project area... I'm able to use and apply those understandings in many more contexts."

-Borough Land Management Officer

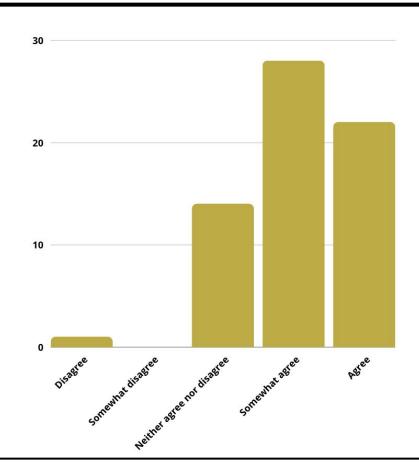


## This project has improved my ability to do my job.



The lessons learned are the best out of anything I get from any project, because it makes me do my next project better. We openly share, and we can ask [that of] others... I think the reserve system is a safe place to be able to have these types of conversations where folks can lay it on the line."

-Marine Program Director, Nonprofit Organization

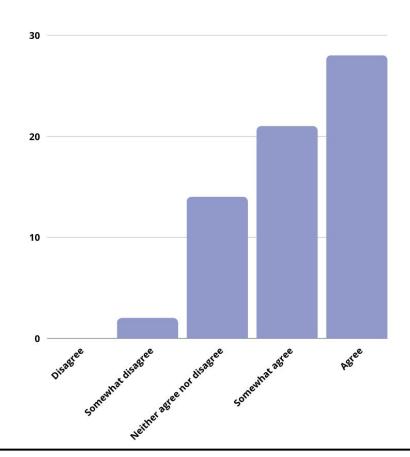


# This project has increased the ability of my organization to carry out its mission.

"

[The project] helped us hone in on what information we needed in the next steps... based on the conceptual alternatives that were chosen to move forward... That kind of stakeholder process really fed into the next stage of planning."

-Environmental Scientist, State Parks Department



## **Insights for Practice**

Goals: Project scoping should be narrow but long; allow for pivot

**Process:** Interaction intensity **not one-size-fits-all**; build in **process redundancies** as much as possible

**Outcomes:** Provide means of *closing the loop*; report on *failures* to enable better future work; collect *user feedback* (if possible)

### **Broad Takeaways**

- Ever-changing understanding of impactful engagement
- Feedback loop between Science Collaborative and project teams
  - Updating of materials: Guide to Collaborative Science, synthesis documents
- Users are pivotal to understanding nuance of collaborative engagement and outcomes:
  - **Process:** Not just what to do, but when to do it and how
  - Outcomes: Above and beyond what project teams have the ability to capture

## Thank you!

## Wrapping Up

- Webinar recording will be made available in the next few days.
- Looking ahead:
  - Next webinar: 3 pm ET, Thursday, June 22, 2023

