COLLABORATIVE SCIENCE FOR ESTUARIES

WEBINAR SERIES

Soupy Dalyander
Water Institute of the Gulf

George Ramseur Moffatt & Nichol Aimee Good
San Francisco Bay NERR

Stuart Siegel San Francisco Bay NERR Caitlin Young NOAA RESTORE Science Program | Moderator **Doug George** NOAA Office for Coastal Management | Moderator

Collaborative Science Conversations BOO! Does Working Across Political Boundaries Scare You? Try Collaborative Science!



National Estuarine Research Reserve System Science Collaborative



Date: Wednesday, November 2, 2022 Time: 3:00-4:00 PM ET

Session Overview

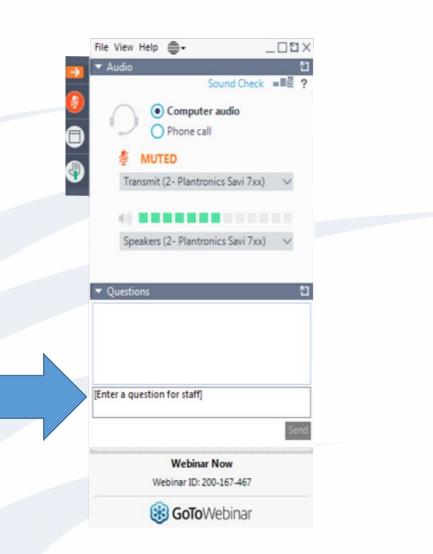
- Housekeeping
- Framing today's session
- Panelist introductions and opening remarks
- Discussion and Q&A



National Estuarine Research Reserve System Science Collaborative

Have a question? Use the "Questions" function to

pose questions throughout the webinar.



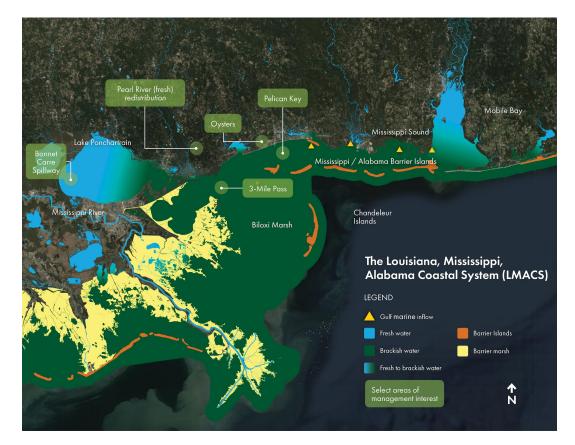


National Estuarine Research Reserve System Science Collaborative



Structured-decision making to co-produce an actionable science plan in support of

Louisiana, Mississippi, Alabama Coastal System (LMACS) Water Quality Management



Core Team: George Ramseur, Soupy Dalyander, James Pahl, Donna Averion, Anna Linhoss, Paul Mickle, Mike Miner



Long-term

Year 5+

HOLISTIC MANAGEMENT OF WATER QUALITY IN THE LOUISIANA, MISSISSIPPI, ALABAMA COASTAL SYSTEM (LMACS)

Near-term

Years 1 to 5

Development of a decision-support and model framework to investigate the impacts of management actions and natural drivers on water quality in the LMACS

Creation of an interagency RM working group to use framework outputs and guide its continued development to support decision-making

Application of framework to investigate response of hydrodynamics and primary water quality parameters to management factors and natural drivers

Structured-Decision Making to Co-Produce an Actionable Science Plan



Identified critical uncertainties that affect water quality management **Devised** a research **plan** for reducing those uncertainties

ALABAMA DEPARTMENT OF CONSERVATION AND

Outdoor

Formulated an application plan to ensure decision relevancy

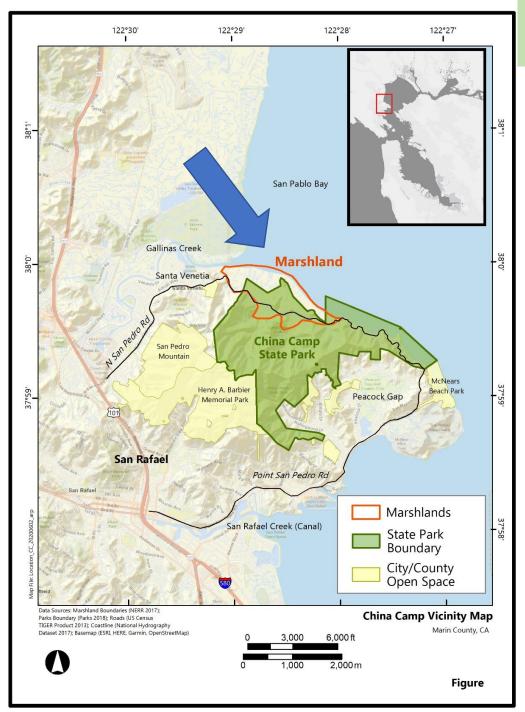




US Army Corps of Engineers .

5

SDM TO CO-PRODUCE AN ACTIONABLE SCIENCE PLAN IN SUPPORT OF LMACS WATER QUALITY MANAGEMENT



The Project



- Community Co-Design of Low-Lying Road Adaptation at China Camp State Park
- Resolve marsh impairment, maintain transportation network function
- CA State Parks land, NERR reserve, County road, CA and fed permits needed
- Road connects City-County
- Many affected and interested parties

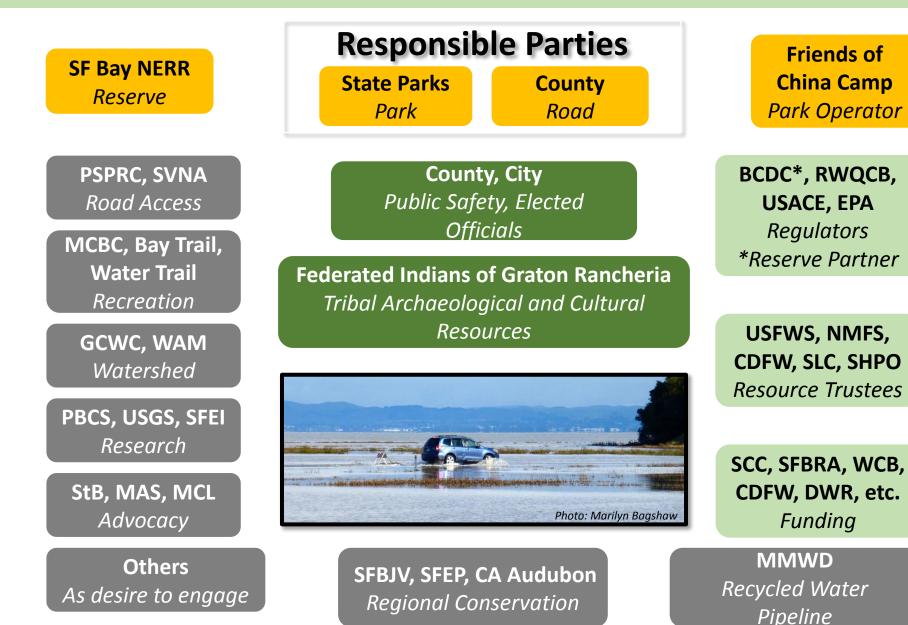
China Camp is Rare Ecologically



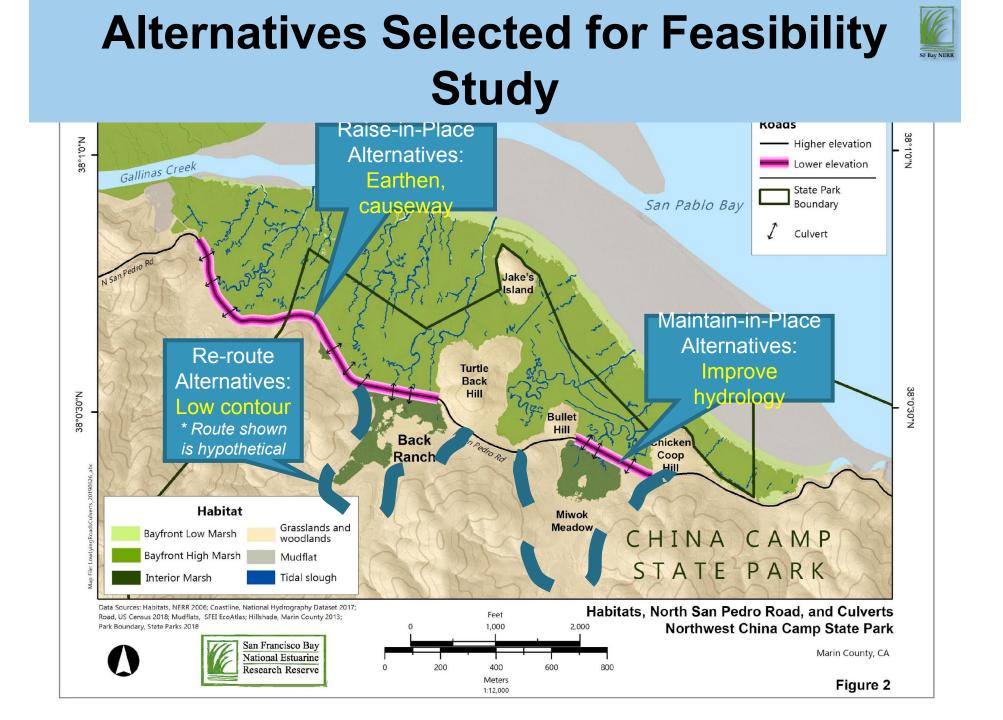


Community of Interests



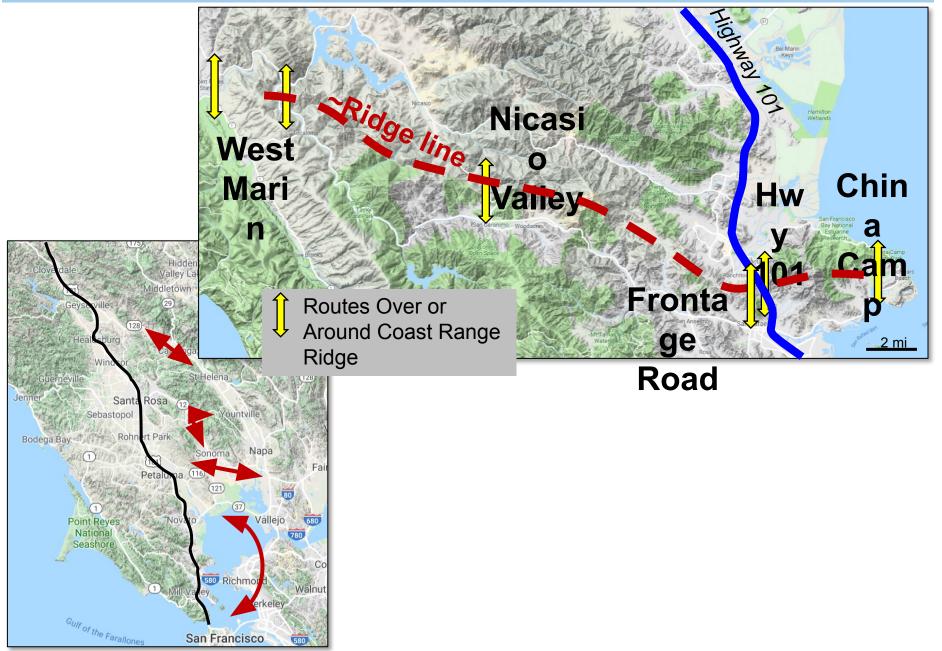


SF Bay additional slides for more context



The Road is Important





Management Issues





Management Issues



Interior Marsh

Small culverts connect tidal marsh under San Pedro Road to Interior Marsh impede exchange of water, sediments, nutrients and organisms between the two San Pedro Road

Ecology of inland marshes impacted – water impounded, sediment dynamics change marsh migration prevented habitats altered. As-is, road will flood more and more

marshes

Tidal

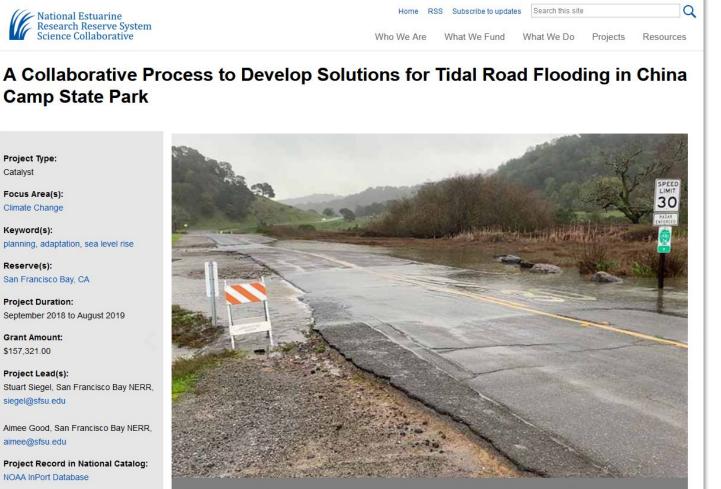
Marsh

often.

Funding Planning: Grant #1 of ?

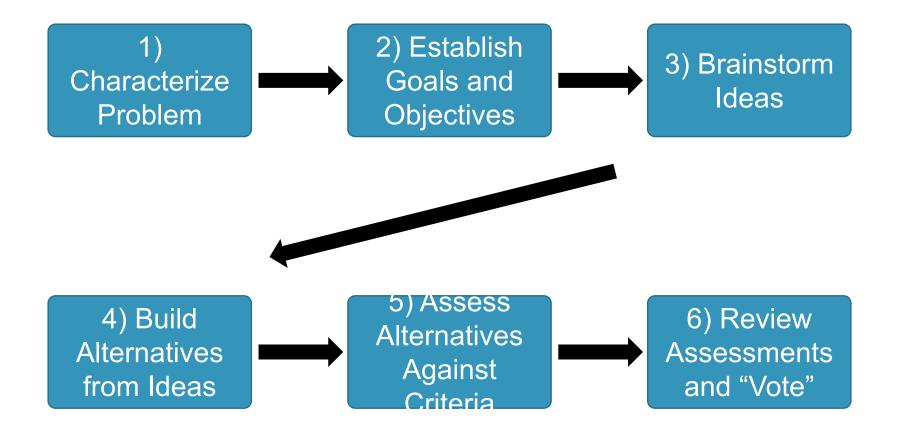


NERRS Science Collaborative, 2018-2019



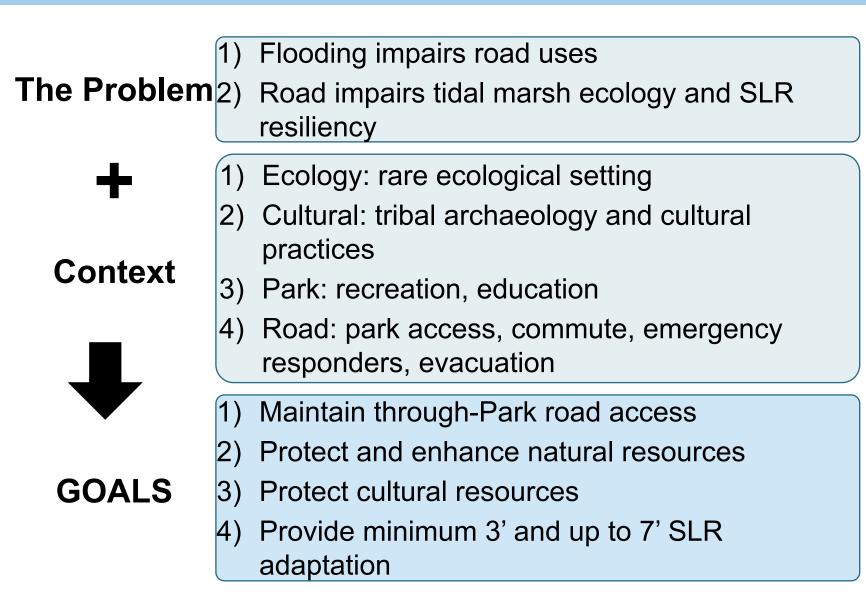
Catalyst

Alternatives Development (2018-2019)



Setting Project Goals





Funding Planning: Grant #2 of ?

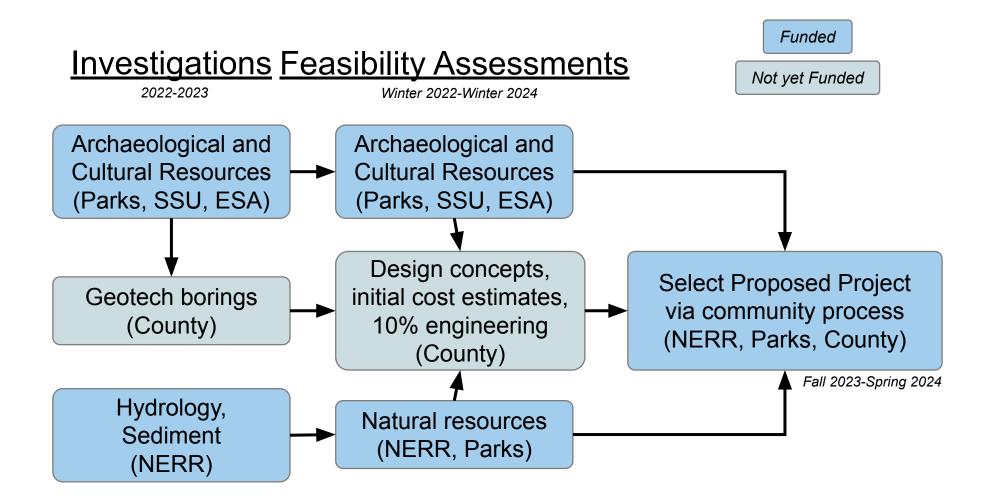


NERRS Science Collaborative, 2022-2024



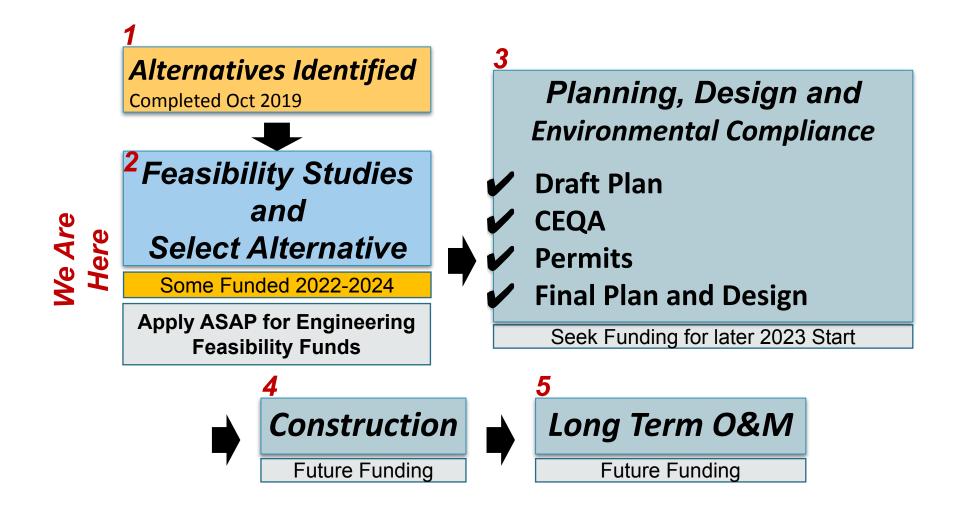
Getting to a Project Design





Next Steps



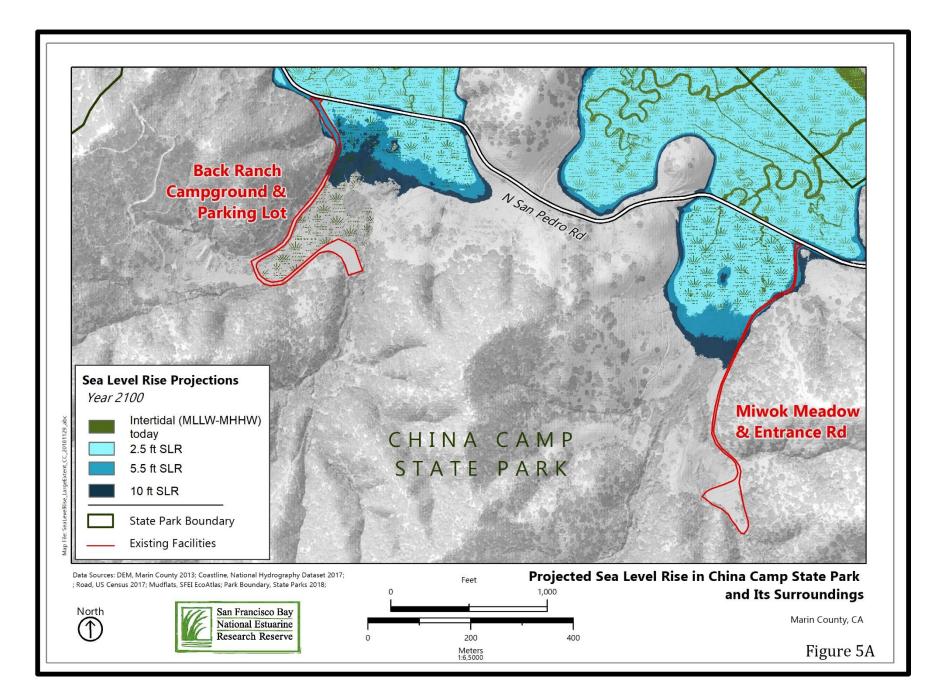


Source: Updated from NERR 2019: Road Map to Implementation, China Camp Shoreline Road Adaptation.

THANK YOU

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Blending Technical Expertise and Community Participation to Plan Adaptation of North San Pedro Road Through China Camp State Park

San Francisco Bay National Estuarine Research Reserve Stuart Siegel, PhD, PWS (Project Lead) Aimee Good (Collaborative Lead)



San Francisco Bay National Estuarine Research Reserve



COUNTY OF

National Estuarine Research Reserve System



29. Jobos Bay, Puerto Rico

Q&A

Q: Speaking of compromise. How do you navigate different expectations of folks coming from the 'bottom' vs requirements of folks coming from the 'top'? Is there a time to bring those two groups together, or is there a need to translate between those two groups?

• A: Be super clear and deliberate about who is a decision maker and who's a stakeholder. Nothing frustrates people more than thinking that you're asking for their input when you're actually just asking them for information. Q: Do you have advice for a case where working groups have a few members who aren't interested in compromising their own goals?

• A: That's tricky. Sometimes people don't want to make an "informed" decision. It can help to understand where they're coming from and what they hope to gain from putting up a roadblock. If you want to try and plan ahead for how you'll handle that situation if/when it arises, consider implementing a team charter from the outset of the project. You can find examples of team charters in the Guide to Collaborative Science here:

https://nerrssciencecollaborative.org/guide/manage/launch/ #3atip2



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