



SF ESTUARY
Wetlands
Regional
Monitoring
Program



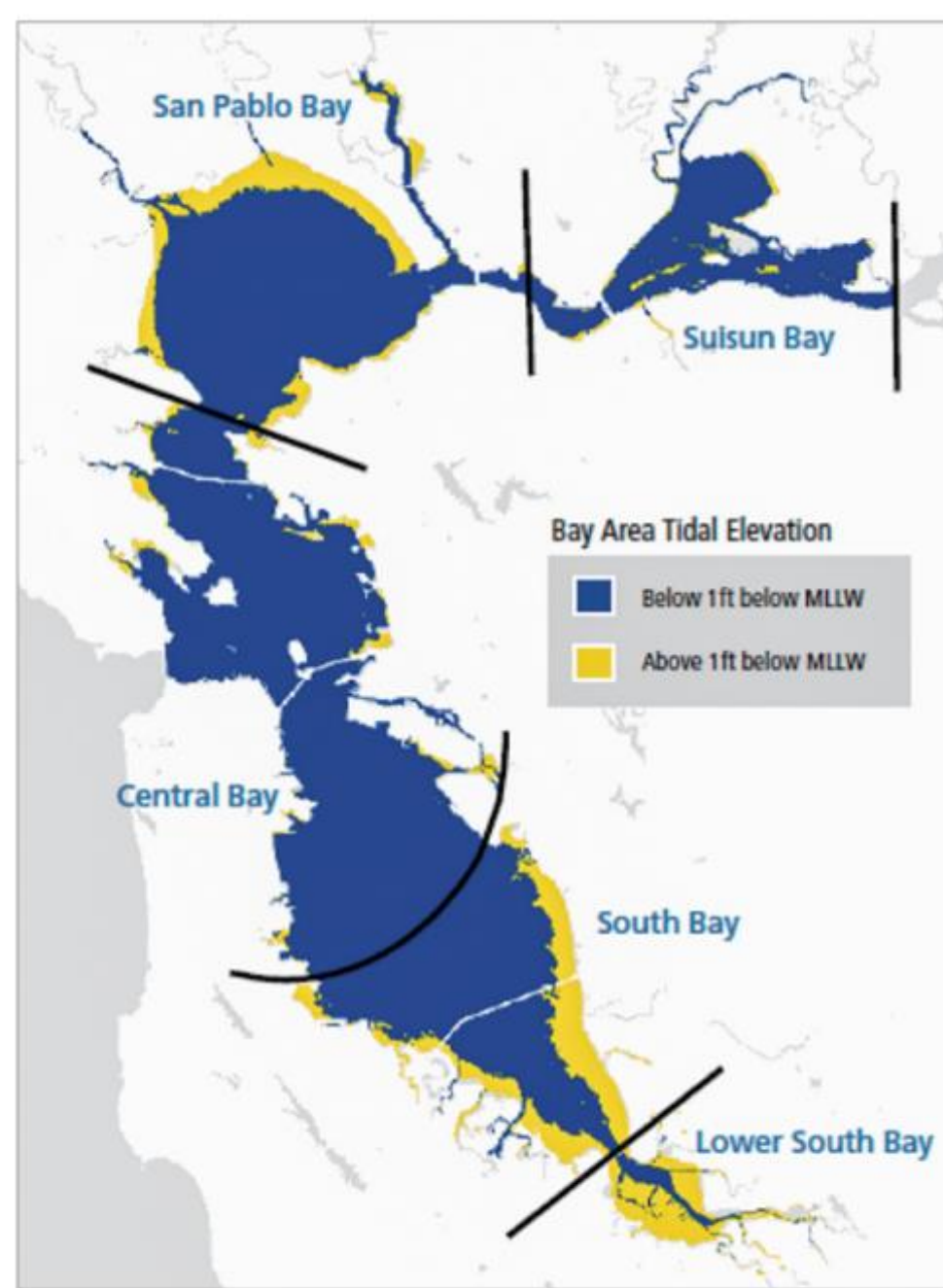
EPA Region 9 WPDG Grantee Conference

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WRMP OVERVIEW

Kelly Santos, CA Sea Grant State Fellow
San Francisco Estuary Partnership





WRMP Scope and Focus

- Establish a robust, sustainable program
- Better utilize existing data to answer some of the regions most critical questions
- Maintain an inclusive, collaborative process

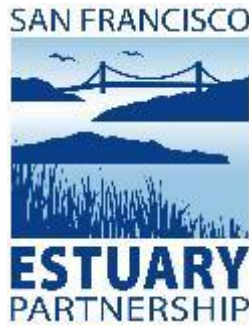
Why Regional Monitoring?

- Answers regionally (and collaboratively) developed managed questions
- Supports climate change adaptation
- Facilitates process for project-specific monitoring
- Supports science and research through shared data platform
- Greater efficiencies in wetland protection



US Army Corps of Engineers®

South Bay Salt Pond Restoration Project



DELTA STEWARDSHIP COUNCIL
DELTA SCIENCE PROGRAM



California Department of
Fish and Wildlife



Coastal
Conservancy



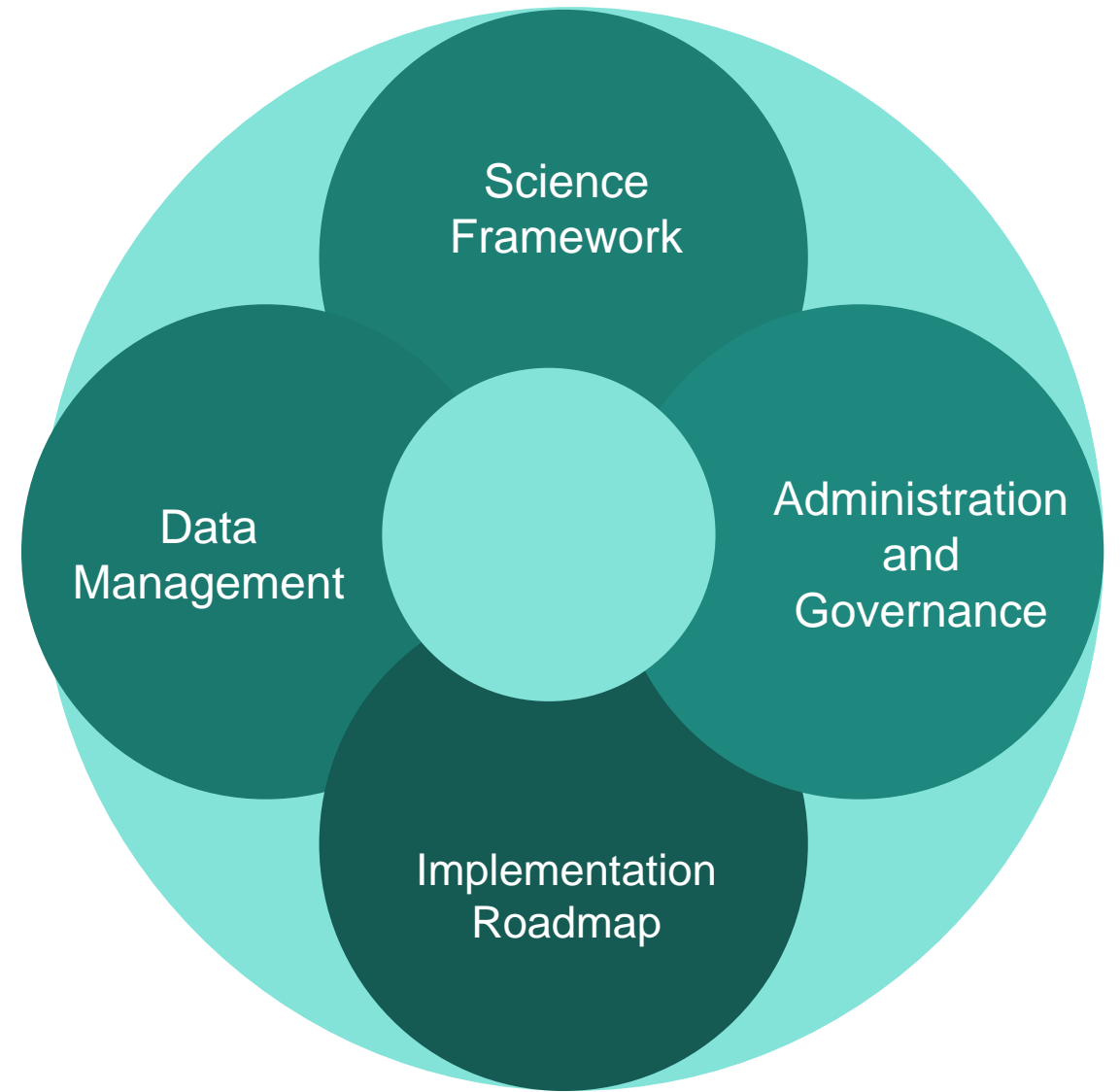
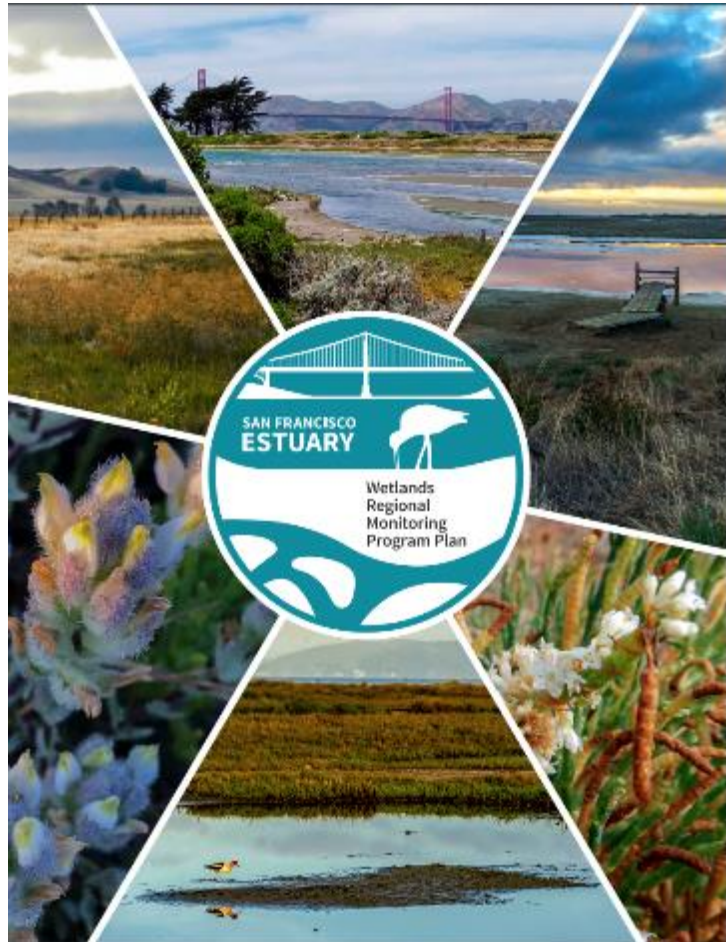
SAVE THE BAY



San Francisco Bay
National Estuarine Research Reserve

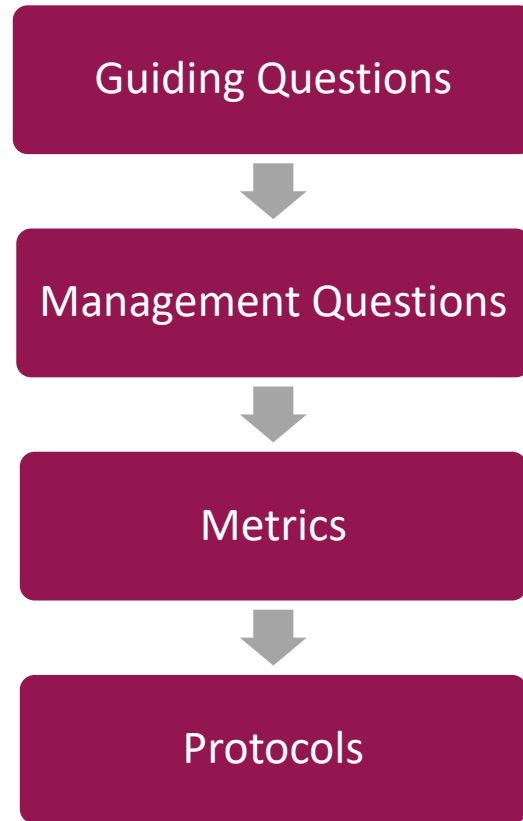
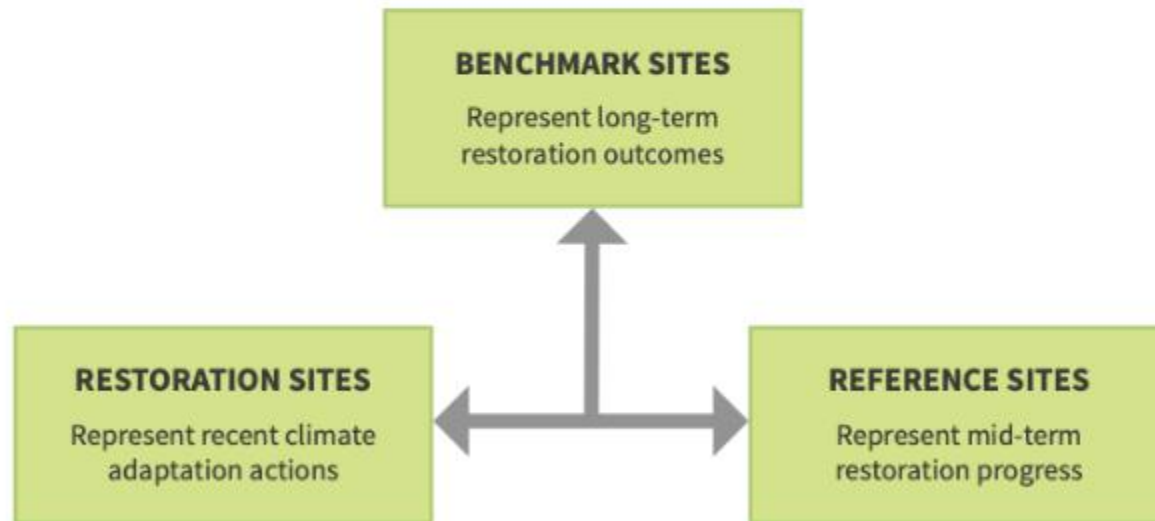


WRMP Plan

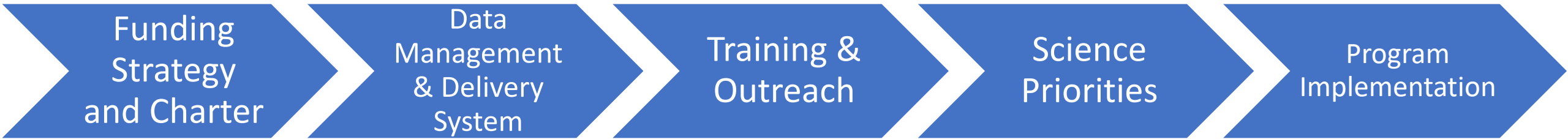


Monitoring Program Framework

Regional Monitoring Site Network



WRMP 2020 – 2021 Priorities



WRMP REGULATORY ENGAGEMENT AND SCIENCE UPDATE

Xavier Fernandez, Planning and TMDL Division Chief
SF Bay Regional Water Quality Control Board



WRMP Science Framework



CHAPTER 2 SCIENCE FRAMEWORK

- 2.1 WRAMP Framework
- 2.2 Priority Recommended Actions
- 2.3 Science Content
- 2.4 Space and Time Framework
- 2.5 Indicator Recommendations



Photo: Michael Korte



Surveys & inventory of distribution, abundance, diversity, and condition of tidal wetlands

Priority Recommended Action based on Guiding Question 1

Photo: Pete Kauhanen, SFEI-ASC

Benchmark Sites & WRMP monitoring site network

Priority Recommended Action based on Guiding Question 2

Photo: Mike Vasey



Repeat surveys (detect change) of living organisms & habitats (indicators)

Priority Recommended Action based on Guiding Question 3

Photo: Anna Deck



Analyze sources of sediment to counter threat of SLR

Priority Recommended Action based on Guiding Question 4

Photo: Shira Bezalel



Monitor interactions between people & wetlands

Priority Recommended Action based on Guiding Question 5

Photo: Shira Bezalel

Regulatory Engagement Priorities

- Shifting model of permit-driven monitoring from single site to regional approach
- Provides indicators and methods vetted by a Technical Advisory Committee for use in permitting by regulatory agencies
- WRMP BRRIT (Bay Restoration Regulatory Integration Team) Workshop, planned for January 2021

Thank you!

How to get engaged:

- Sign up for our newsletter at www.wrmp.org

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