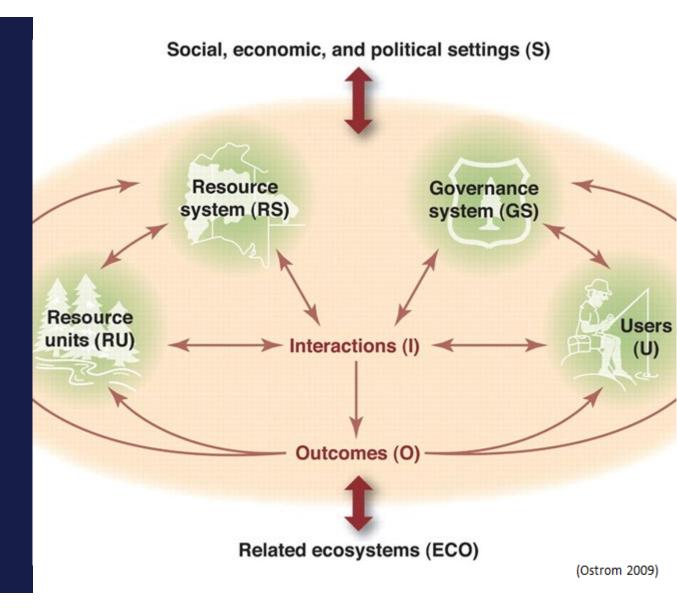


WHAT IS SOCIAL 11. SCIENCE?

Bay-Delta: A Complex Social-Ecological System



GROUNDWATER AGENCIES VARY IN SIZE AND RANGE Groundwater and Surface Water Basin priority Critically overdrafted basins Social, economic, and political settings (S) Other priority basins Alternative plan and adjudicated basins Groundwater sustainability agencies One GSA in basin More than one GSA in basin GSA area 2 million acres 200,000 acres 2,000 acres Resource Governance system (RS) system (GS) From CA Water Plan 2014 Note: SGMA established different procedures for adjudicated basins (where courts settled disputes over how much groundwater can be extracted by each land owner) and for local groundwater agencies that have operated their basins sustainably for at least 10 years and have submitted alternative plans. From: PPIC Blog, August 2017 Resource Users units (RU) Interactions (I) (U) Outcomes (O) Drinking water access Agriculture productivity Groundwater-dependent ecosystems (Ostrom 2009) Climate resilience

What is social science?

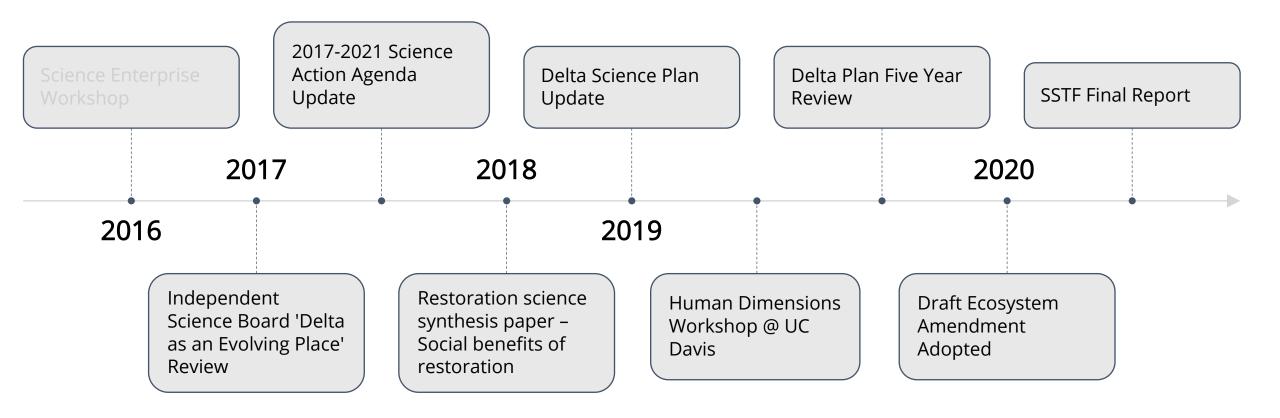
"...social science disciplines seek to understand social processes, social phenomena, or individual human attributes that are critical to the effectiveness of management decisions, including those on environmental restoration..."

Delta Social Science Task Force



)2. CATALYZING DELTA SOCIAL SCIENCE

Growing Calls for Social Science



Social Science Task Force

- There is a lack of social science capacity and investment
 - Invest in social science studies
 - Invest in external network of social scientists
 - Invest in internal social science capacity at the Council
- 2. Research activities are ongoing, but there is no long-term vision for social science integration
 - Collaboratively develop conceptual framework
 - Establish improved social indicators
 - Integrate social and biophysical science to improve decision making
- 3. The adaptive management process is not informed by the social sciences
 - Evaluate institutional, cultural and individual barriers to learning & integration
 - Reduce barriers to integration



A Social Science Strategy for the Sacramento-San Joaquin Delta

Delta Social Science Task Force Kelly Biedenweg¹, Ph.D. James N. Sanchirico² (Chair), Ph.D. Holly Doremus³, Ph.D., J.D. Robert Johnston⁴, Ph.D. Josué Medellín-Azuara⁵, Ph.D. Christopher M. Weible⁶, Ph.D.

March 2020





Social Science Vision for the Delta

Emerging from Delta Social Science Task Force findings and recommendations







Goal 1:

Outreach and network building

Goal 2:

Social science capacity and integration

Goal 3:

Social science knowledge development and implementation

Social science objectives & tracking progress

Goal 1: Outreach and Network Building



- Widespread
 Awareness
 - Outreach metrics
- Network Building
 - Social Scientists seeking funding
 - Network created

Goal 2: Capacity and Integration



- Internal Coordination
 - Enhanced processes
- Internal Capacity
 - Grow staff skills through training and hiring
- Integration into science strategy

Goal 3: Knowledge Development and Implementation

- Develop a conceptual framework
- Identify and track social indicators
- Manage adaptively
 - Review our internal work plans systematically

PROGRESS UPDATES ON IMPLEMENTATION

Goal 1: Outreach and network building

Building a
Bay-Delta
Social Science
Community of
Practice





Community of Practice Activities

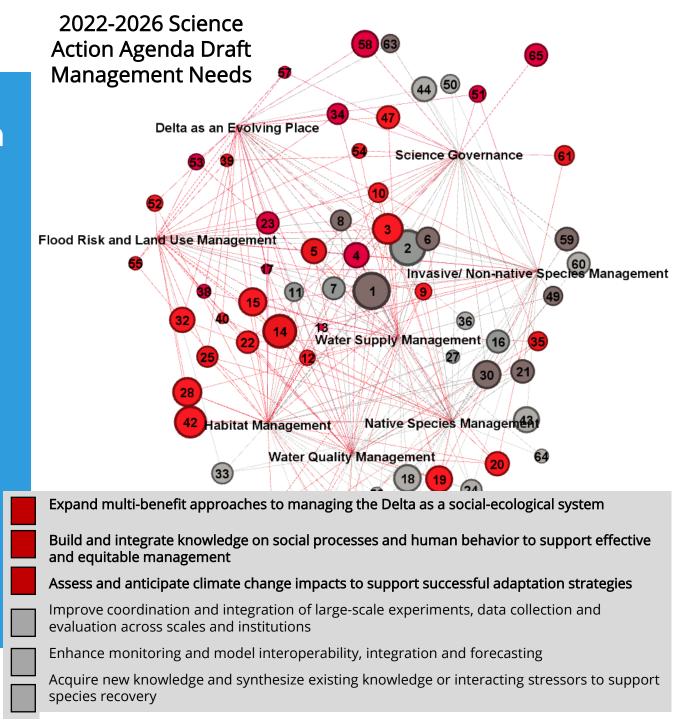
- Communicate social science
 - Brownbag seminars, workshops, symposia
- Develop resources and synthesize research
 - Build social science research repository
 - Review and synthesize available data and key gaps
 - Training opportunities
- Build collaborative research efforts
 - Develop social and interdisciplinary science priorities
 - Facilitate connections with natural/ biophysical scientists
 - Longitudinal studies to monitor trends and change
 - Comparative studies with other estuaries



Research priorities from Community of Practice

Goal 2: Capacity and Integration

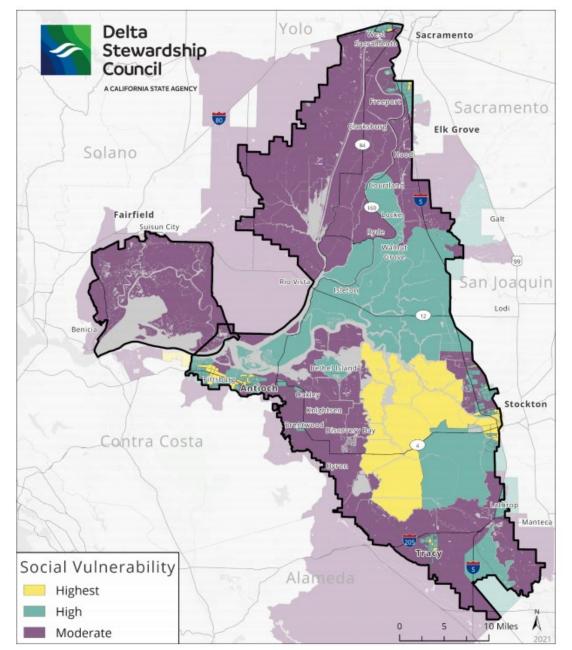
Developing interdisciplinary research priorities in the Science Action Agenda



Goal 3: Knowledge development and implementation

Building data to assess social well-being trends and change over time

Social Vulnerability Index (Delta Adapts: Equity Technical Memo, 2020)



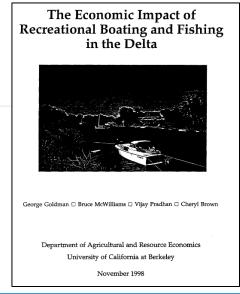
Review of past survey efforts in the Delta

19 surveys in past 25 years

- Recreational uses: location, mode activities
- Tourism and recreation-based economy
- Resident and user attitudes and perceptions of Delta issues
- Fish consumption







Questions for Council Members

- What types of social science integration activities would you like to see prioritized?
 e.g. survey of Delta residents, EJ, funding new research, research synthesis,
 community of practice development, training opportunities, outreach,
 communications
- 2. What does success for social science integration look like? Are there other objectives that we should include in the social science integration vision?







