Delta Science Plan
One Delta, One Science

Delta Stewardship Council

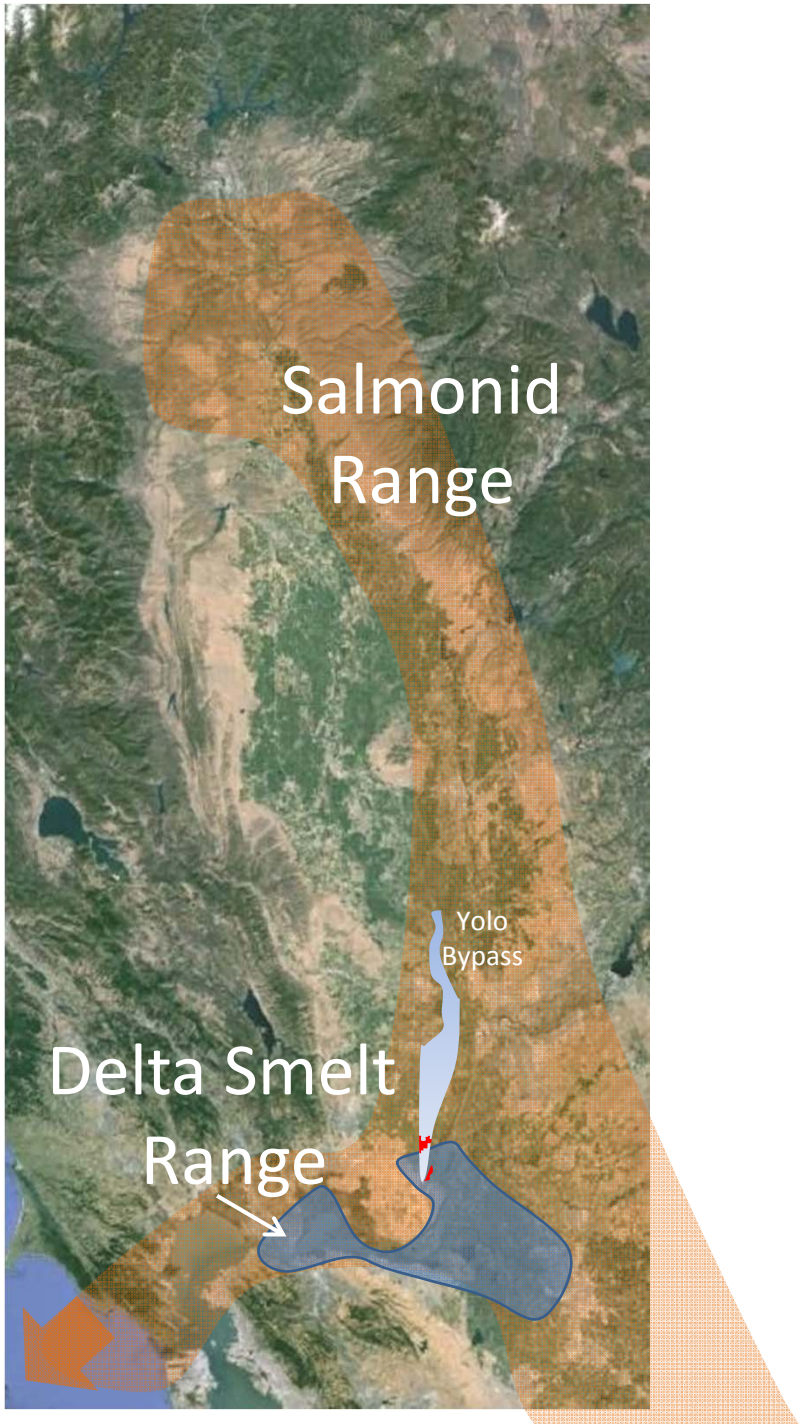
September 26, 2013

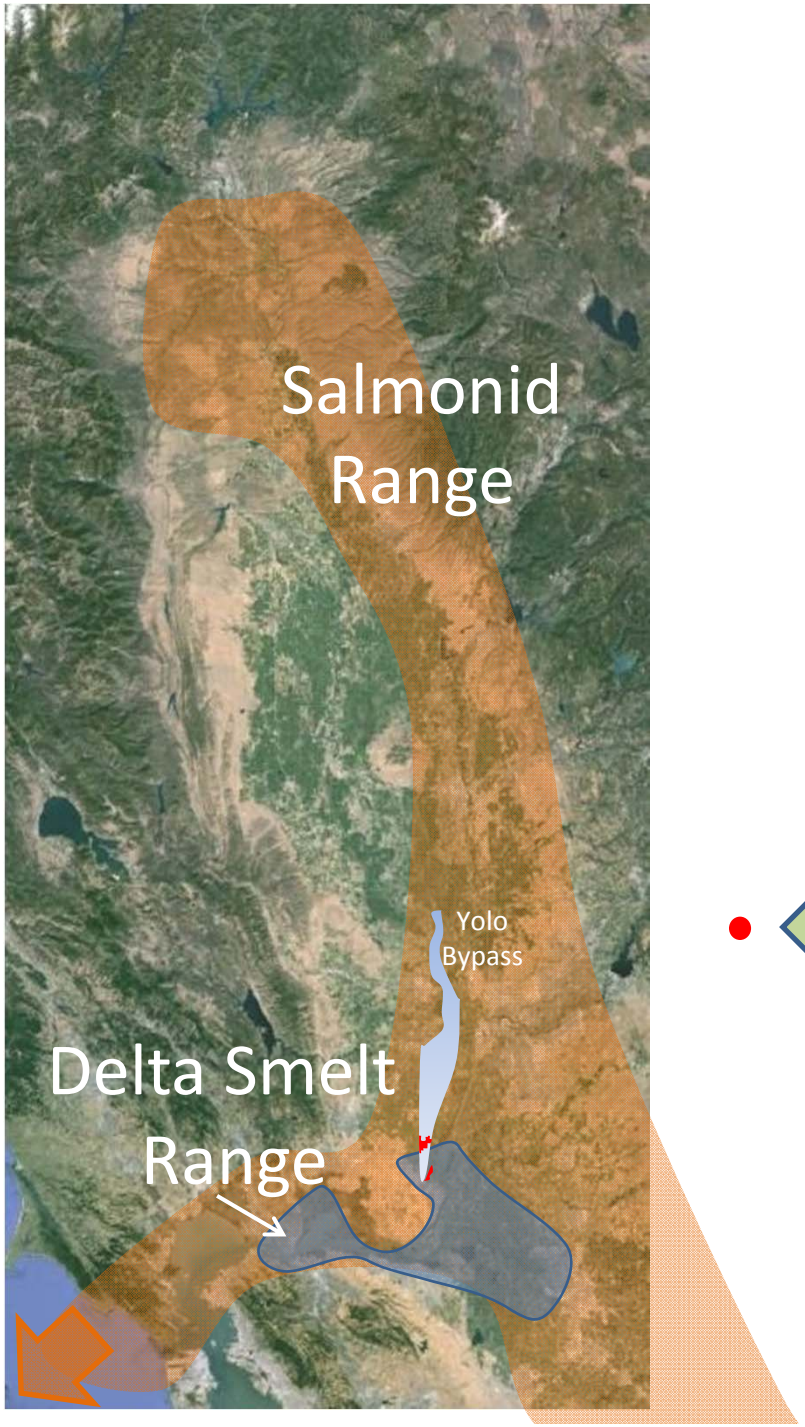
Today’s Discussion

Objective: Council guidance

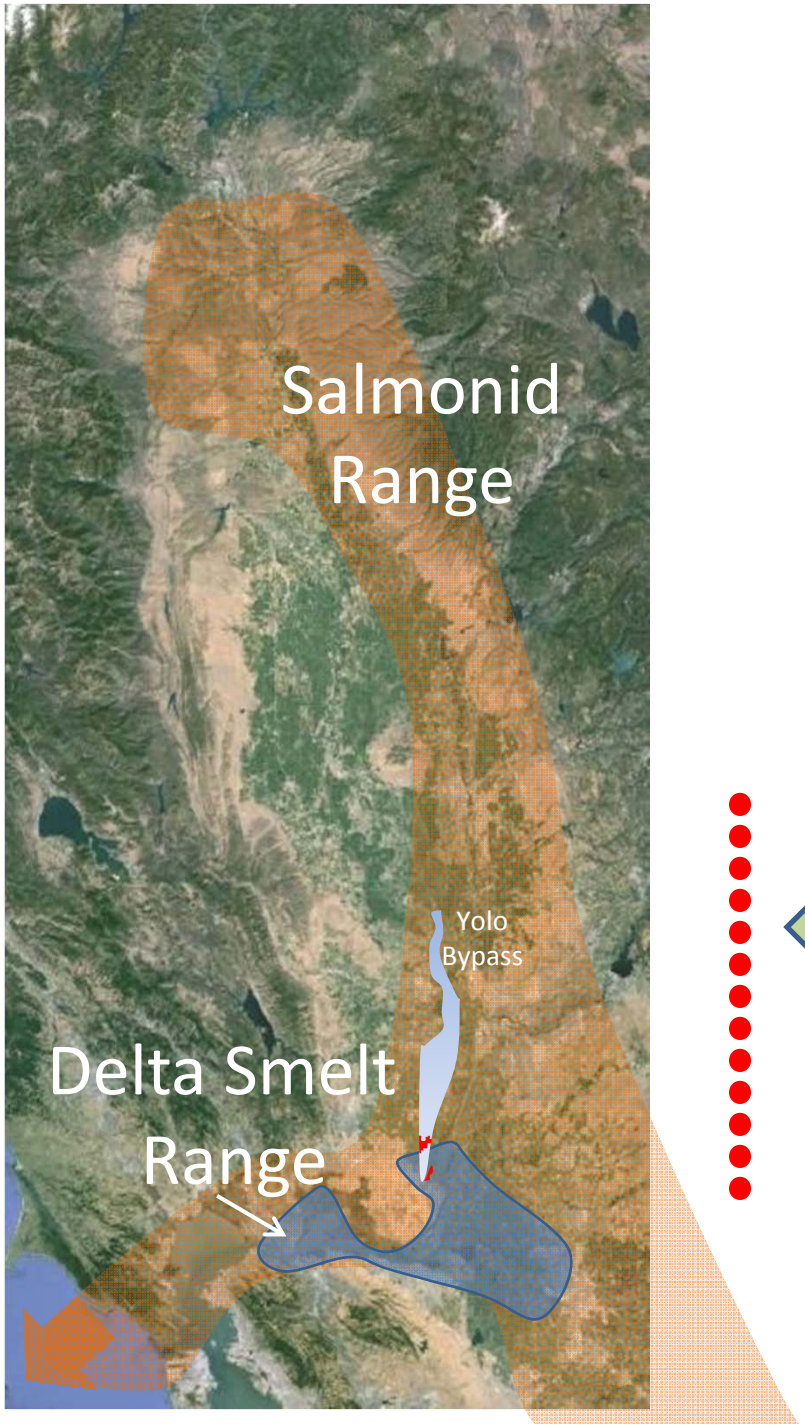
Outline

1. Update on Delta Science Plan
2. Revisions underway
3. Next steps

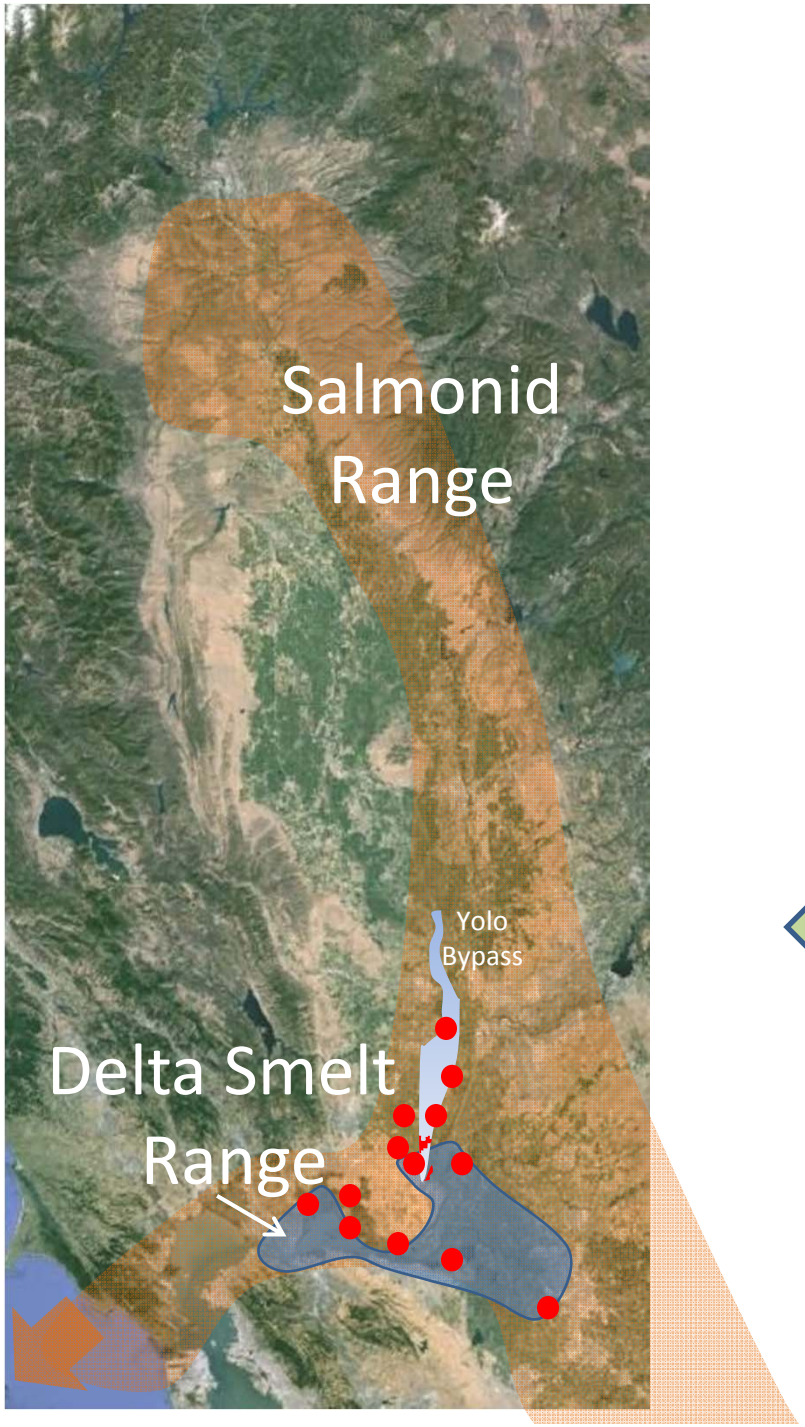

Salmonid
Range
Yolo
Bypass
Delta Smelt
Range



• ⟸ 8,000 acres (to scale)

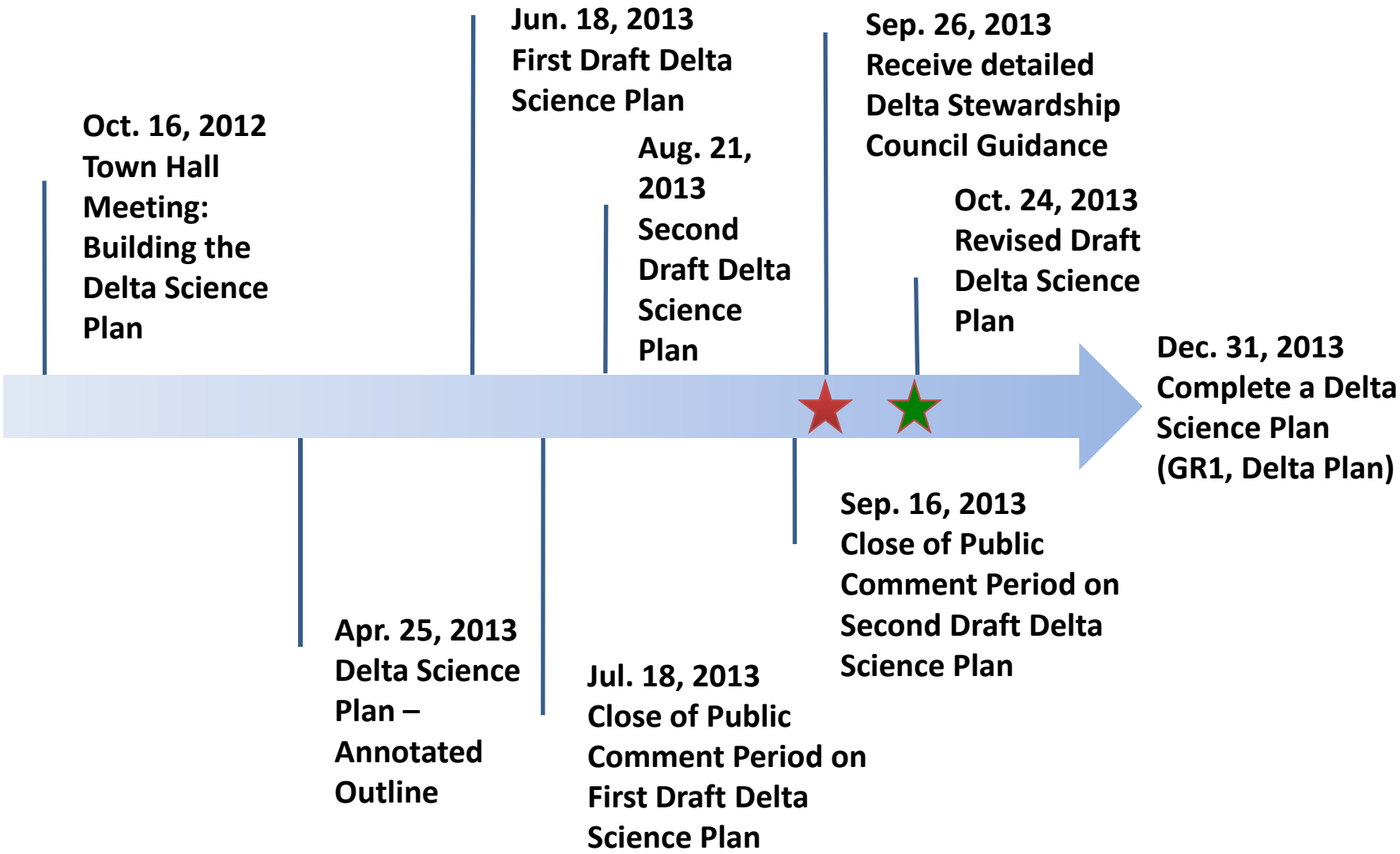


100,000 acres



100,000 acres

Delta Science Plan Milestones



Delta Science Plan – Second Draft

Five Chapters:

1. Introduction
2. Organizing Science to Inform Policy and Management
3. Adaptive Management for a Complex System
4. Building the Infrastructure for Science
5. Resources for Delta Science

Summary of Actions

Twelve Appendices

Summary of Comments Received on Second Draft

- Delta ISB
- Delta Stewardship Council – August Meeting
- Public Comments
  - 13 state and local agencies, stakeholders, and individual members of the public

Nearly 400 individual comments received on the Second Draft Delta Science Plan

Revisions Underway

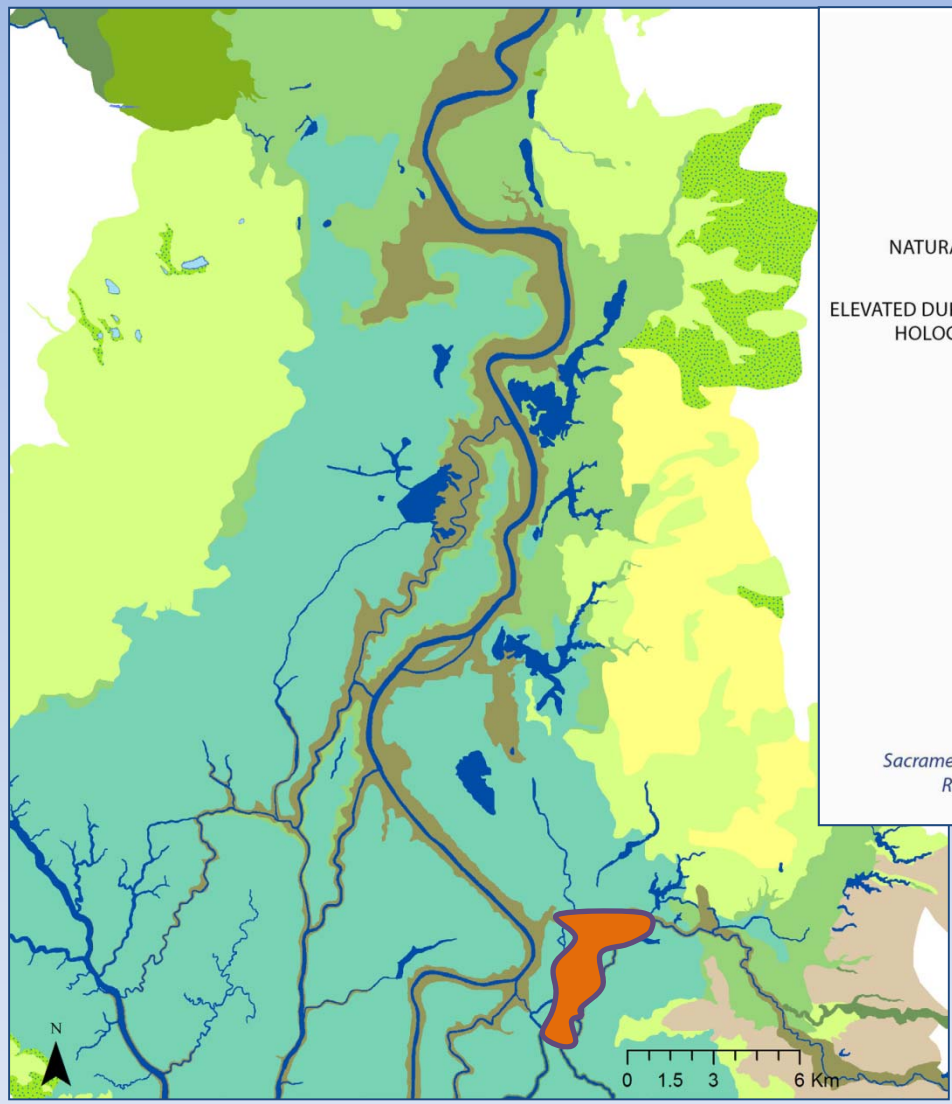
1. “Aim higher” (Delta ISB)
2. Addressing high-stakes science
3. Approaches for managing scientific conflict
4. Adaptive management resources and tools
5. Interim Science Action Agenda

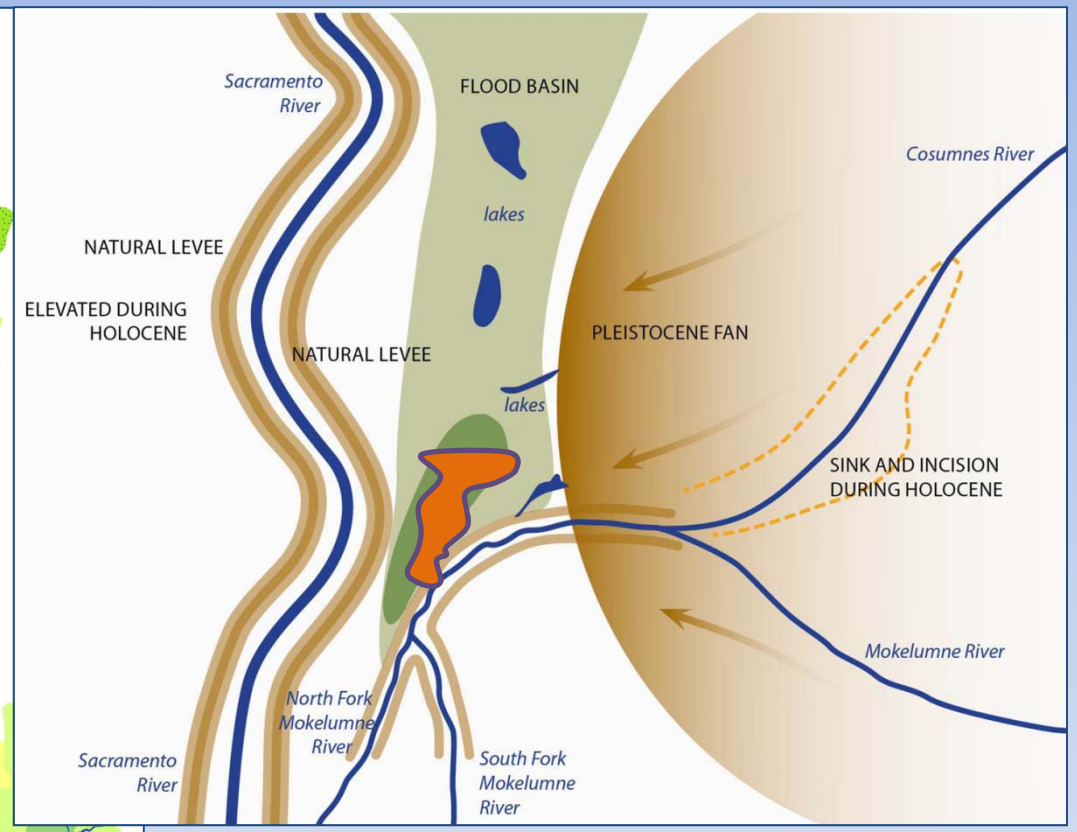
Example: Improve Ecosystem Restoration with Adaptive Management

Science Resources and Tools:

- **Adaptive Management Liaisons** [Action 3.3]
- **Restoration Framework** [Action 3.2]
- **Models** [Action 3.4]
- **Annual Adaptive Management Forum** [Action 3.1]

Tools for evaluating restoration opportunities





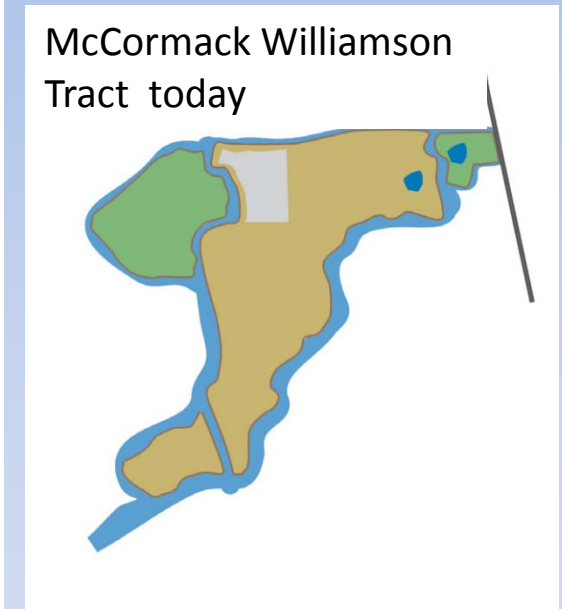
Landscape Conceptual Model

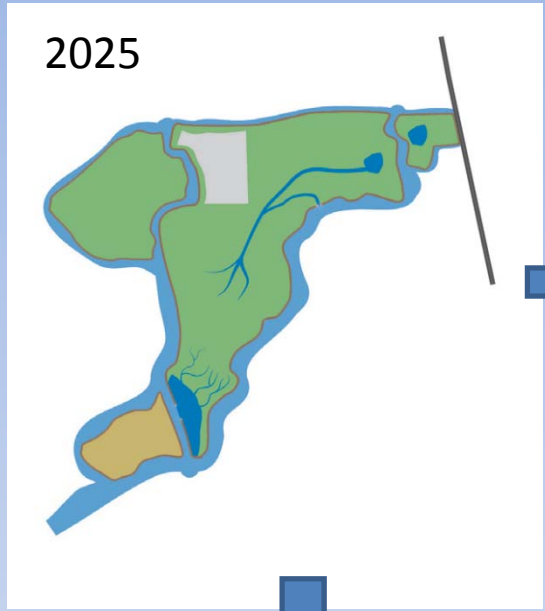
Historical Landscape Pattern

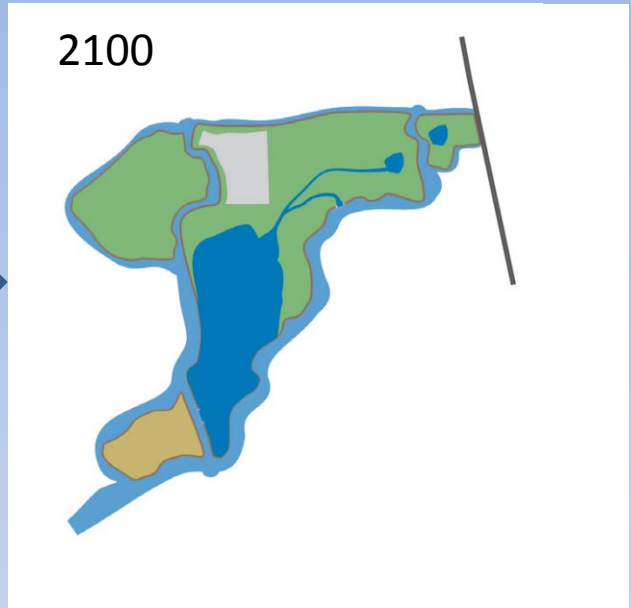
From SFEI 2013

Alternative restoration futures for McCormack-Williamson Tract

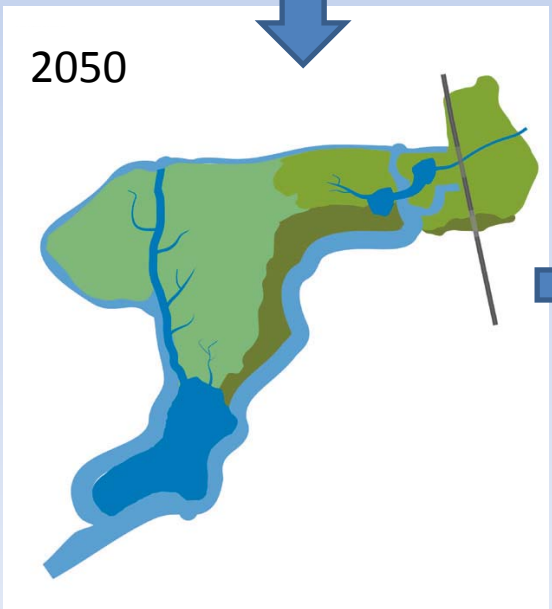
Site-scale restoration



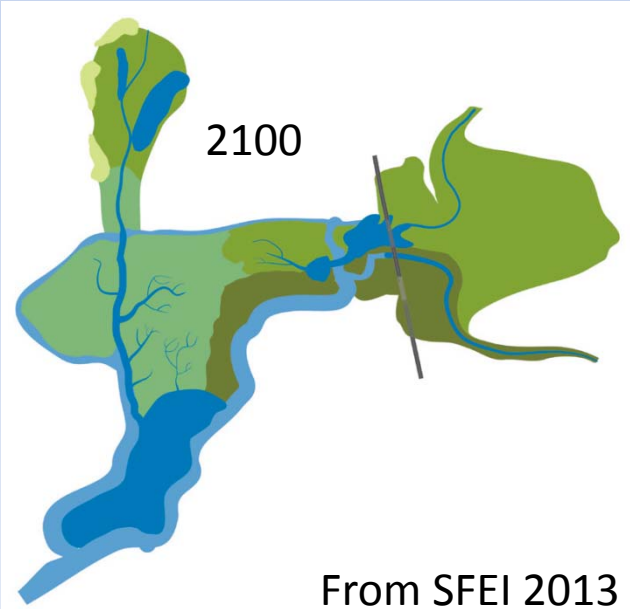




AM?



With sea-level rise



Landscape-scale long-term restoration

From SFEI 2013

Proposed Next Steps

- Revised Draft Science Plan Posting – Oct 14
- Council Action – Oct/Nov Council Meeting
- Assessment of Science Plan Performance – 2014
- Interim Science Action Agenda – 4 months after Delta Science Plan completion

Delta Science Plan
Example 1: Predation

Delta Plan Ch. 4: Workshops to address stressor impacts

or issue through Policy Science Forum

- Delta Science Plan (DSP) Action 4.5: Synthesis to support science-based decision making
- Identification of synthesis method by Science Steering Committee
- Expert Workshops Panel

(a) State of science – what is known, what are uncertainties
(b) Models – predictions, new hypotheses
(c) Evaluation of actions – adaptive management alternatives

Delta Science Plan
Example 2: Adaptive Management

Delta Plan GP1

- Adaptive Management Liaisons [DSP Action 3.3]

  Early consultation on 9-step AM process

- Restoration & Water Management Frameworks – Principles & Guidance [DSP Action 3.2]

  Historical ecology, landscape scale conceptual models, quantitative models, integrated monitoring, assessment & reporting

- Modeling Future Scenarios [DSP Action 3.4]
- Annual Adaptive Management Forum [DSP Action 3.1]

  Integrate regionally and between restoration & water management