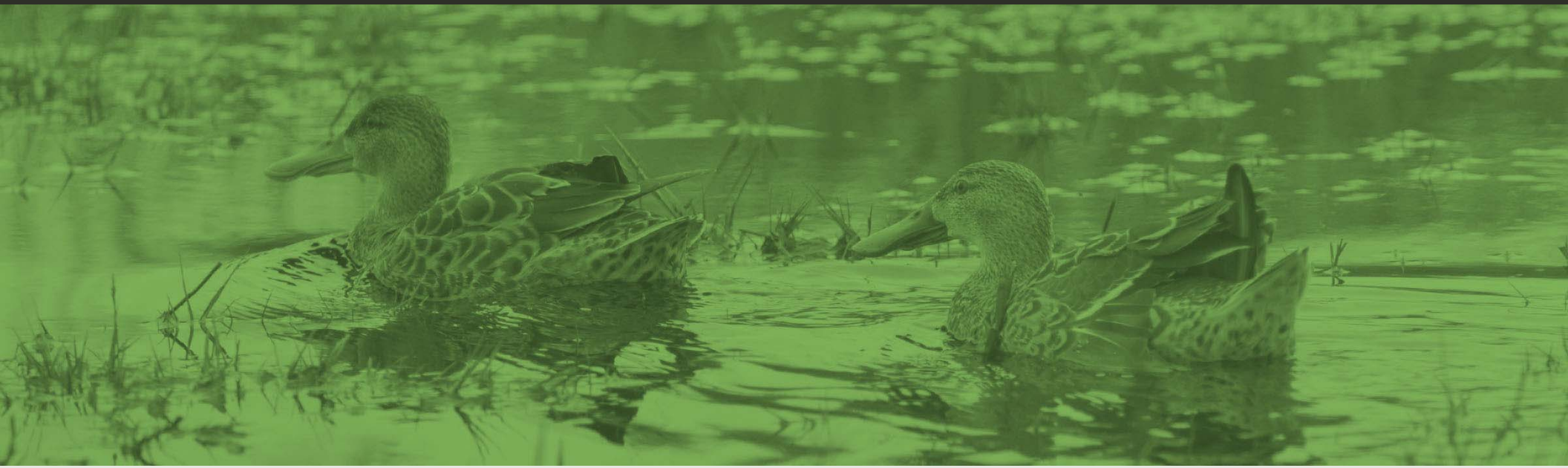
CALIFORNIA
ECO RESTORE
A STRONGER DELTA ECOSYSTEM.



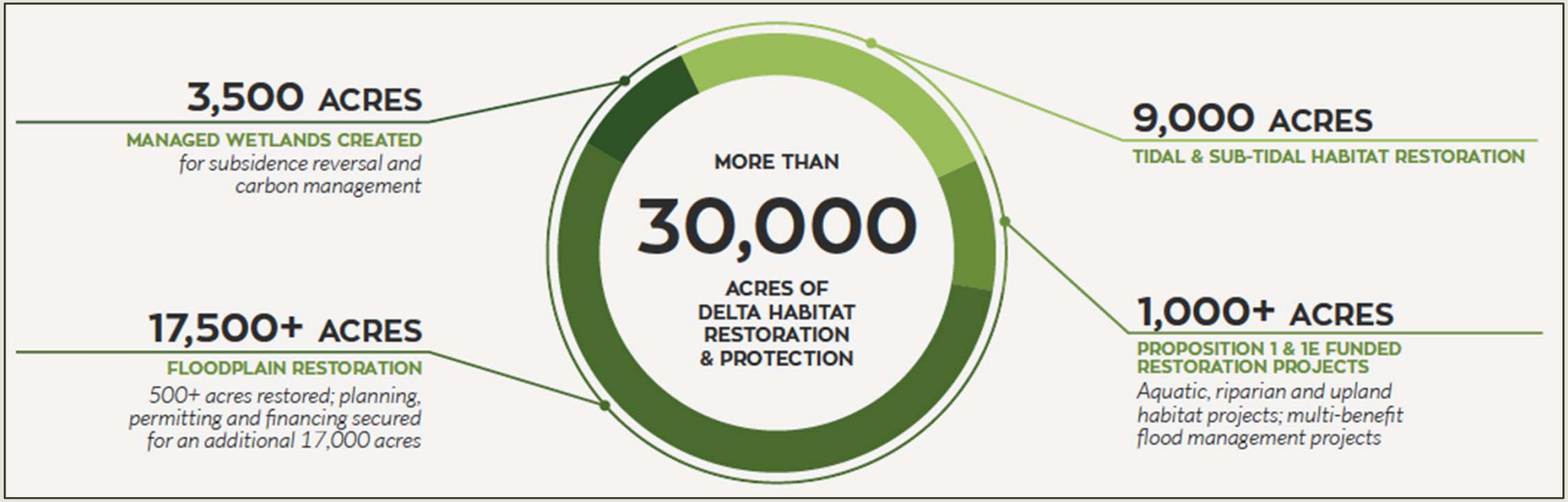
PROGRAM OVERVIEW

2015

CALIFORNIA ECORESTORE

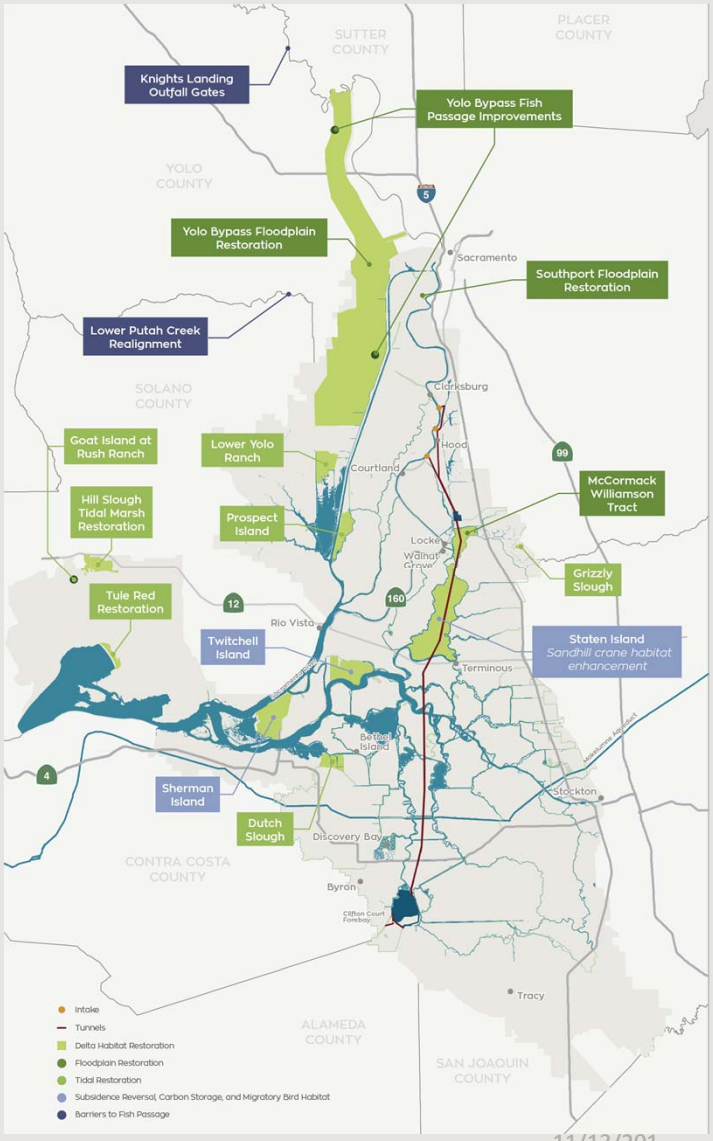
- **RESTORATION PROJECTS**: Program will accelerate the implementation of a comprehensive suite of habitat restoration actions in the Sacramento – San Joaquin Delta and Suisun Marsh
- **PLANNING**: Delta Conservancy will develop restoration plans for sub-regions of the Delta
- **MONITORING AND ADAPTIVE MANAGEMENT**: Development of a landscape Adaptive Management process to maximize effectiveness of restoration projects.

RESTORATION PROJECTS



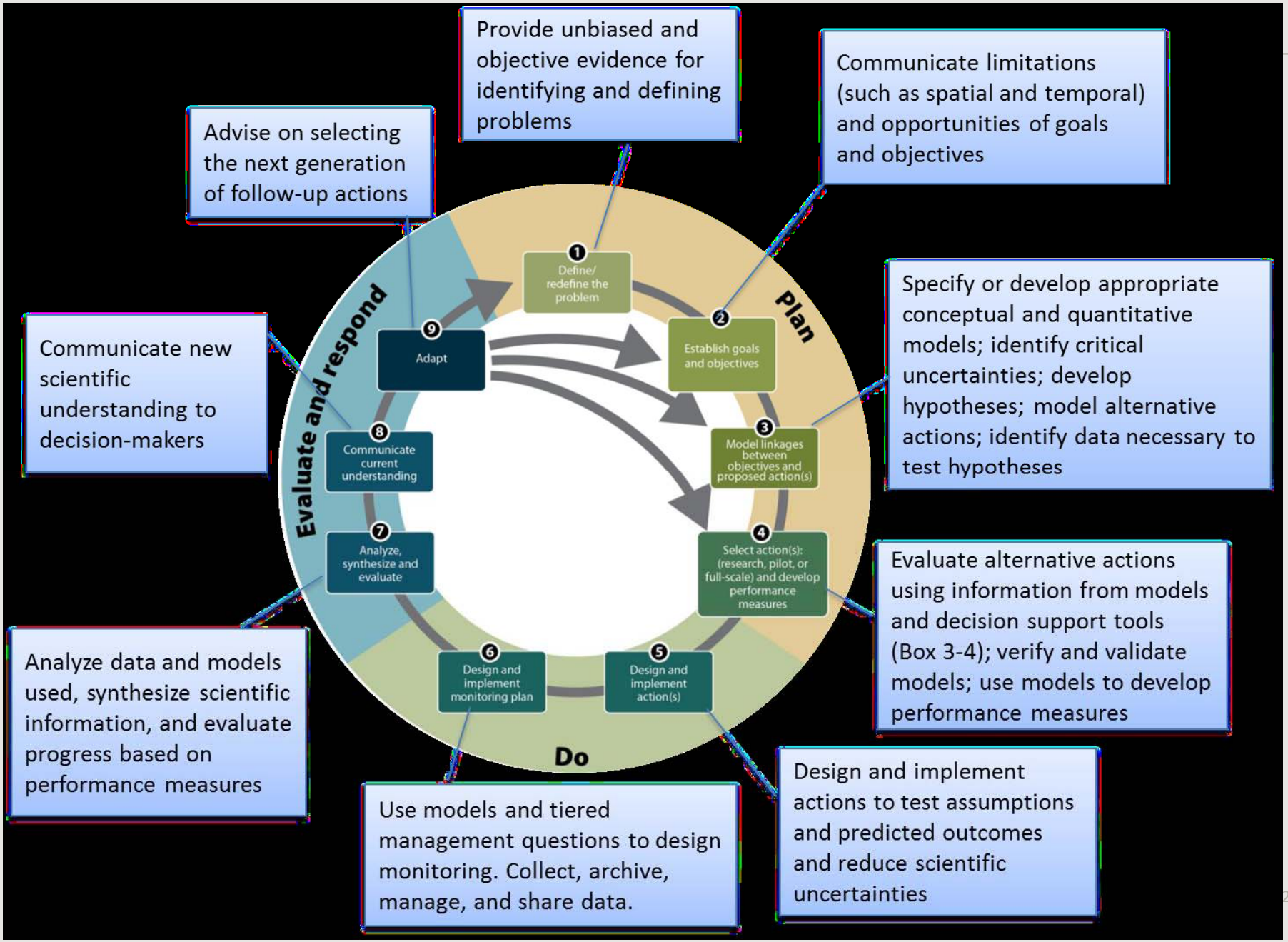
RESTORATION PROJECTS BREAKING GROUND IN 2015/2016

- 2015:
  - Sherman Island Whale's Mouth Wetland Restoration
  - Knights Landing Outfall Gates
- 2016 (Planned):
  - Wallace Weir
  - Hill Slough
  - Request for Proposal Projects



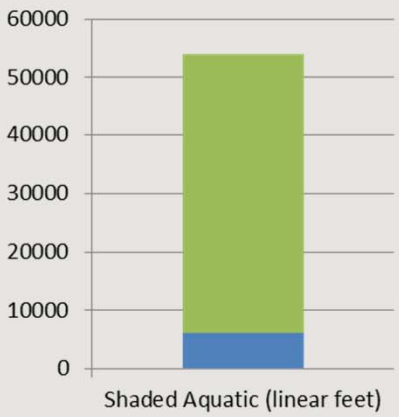
ADAPTIVE MANAGEMENT

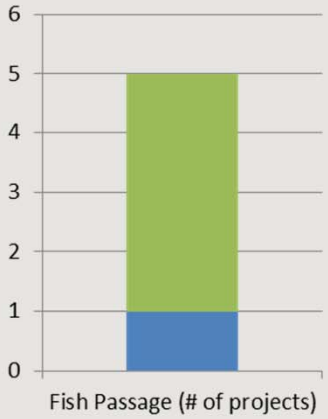
- Delta Independent Science Board recommends an Adaptive Management program for the Delta
- How well do habitat projects improve the environment?
- Adaptive Management Circle: Monitoring – Synthesis – Decisions – Monitoring – etc.
- Well established monitoring programs exist
- Need to Develop Institutional and Financial Structure for Adaptive Management


Provide unbiased and objective evidence for identifying and defining problems
Communicate limitations (such as spatial and temporal) and opportunities of goals and objectives
Advise on selecting the next generation of follow-up actions
Specify or develop appropriate conceptual and quantitative models; identify critical uncertainties; develop hypotheses; model alternative actions; identify data necessary to test hypotheses
Communicate new scientific understanding to decision-makers
Evaluate alternative actions using information from models and decision support tools (Box 3-4); verify and validate models; use models to develop performance measures
Analyze data and models used, synthesize scientific information, and evaluate progress based on performance measures
Design and implement actions to test assumptions and predicted outcomes and reduce scientific uncertainties
Use models and tiered management questions to design monitoring. Collect, archive, manage, and share data.
Plan
Do
Evaluate and respond
1 Define/ redefine the problem
2 Establish goals and objectives
3 Model linkages between objectives and proposed action(s)
4 Select action(s): (research, pilot, or full-scale) and develop performance measures
5 Design and implement action(s)
6 Design and implement monitoring plan
7 Analyze, synthesize and evaluate
8 Communicate current understanding
9 Adapt

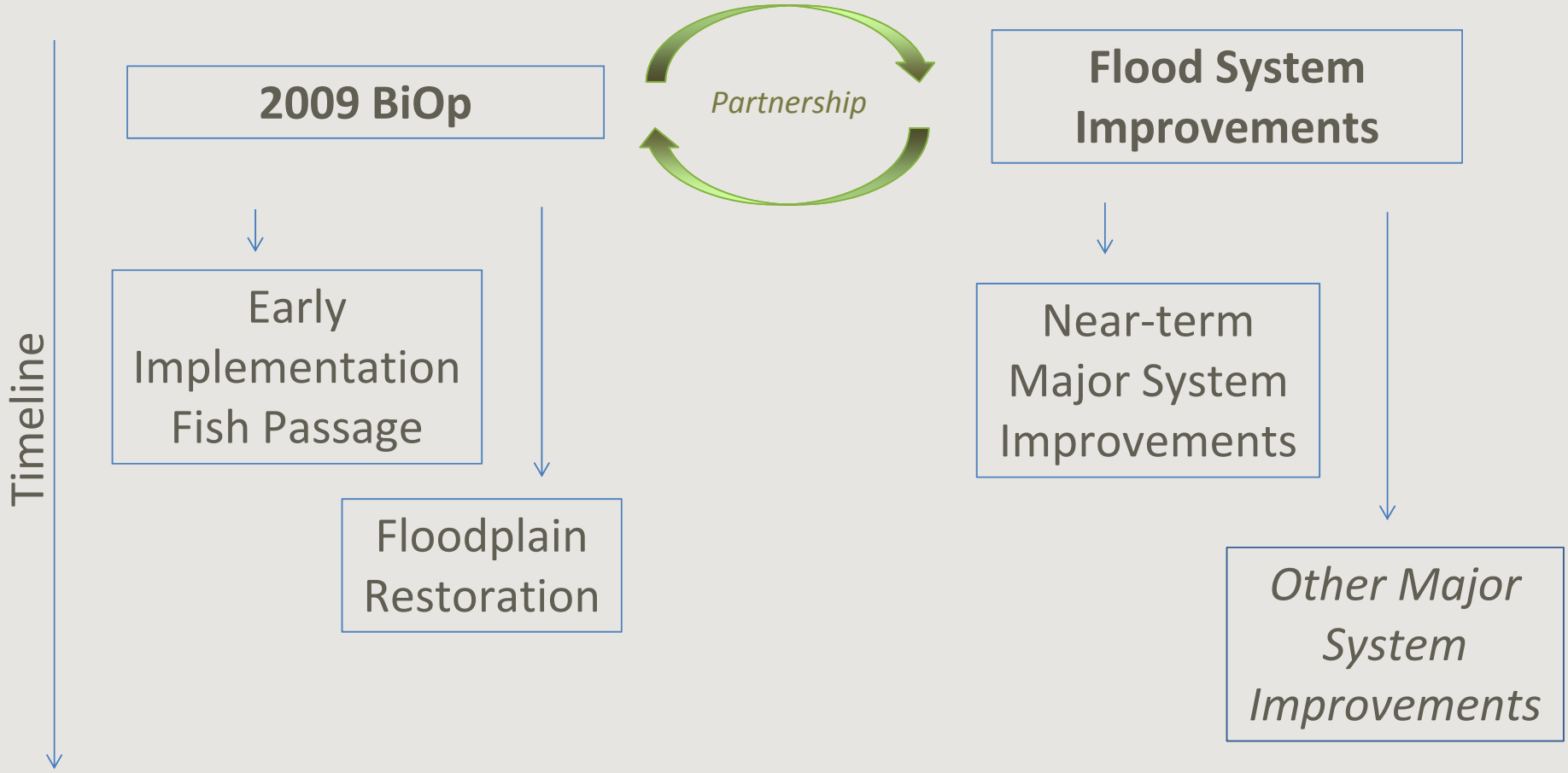
ECORESTORE GOALS

PROGRESS UPDATE (VERSION 11.01.15)





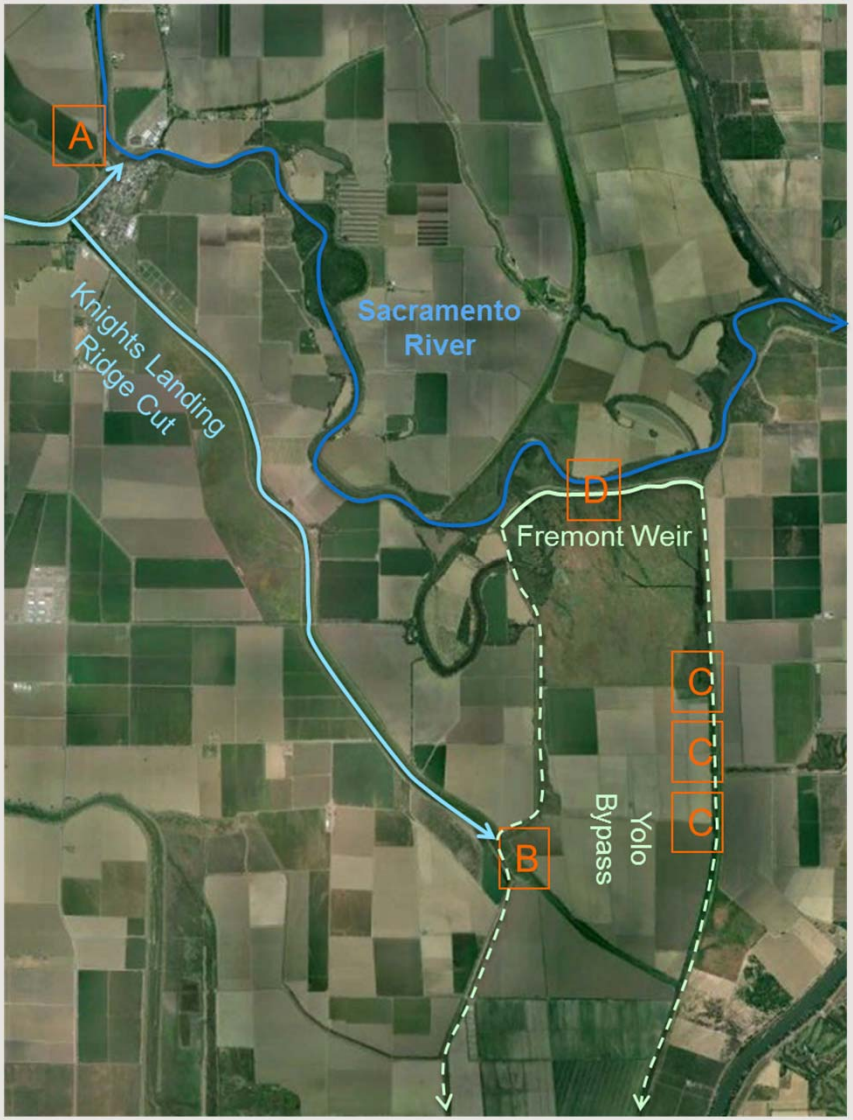
YOLO BYPASS EFFORTS



EARLY IMPLEMENTATION FISH PASSAGE

2009 BiOp

- A — Knights Landing Outfall Gates - 2015
- B — Wallace Weir - 2016
- C — Tule Crossings - 2017
- D — Fremont Fish Ladder Mods - 2017



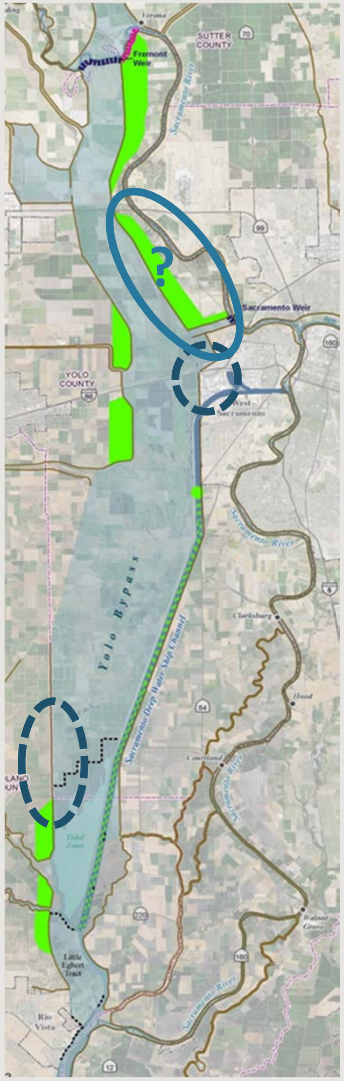
FLOODPLAIN RESTORATION

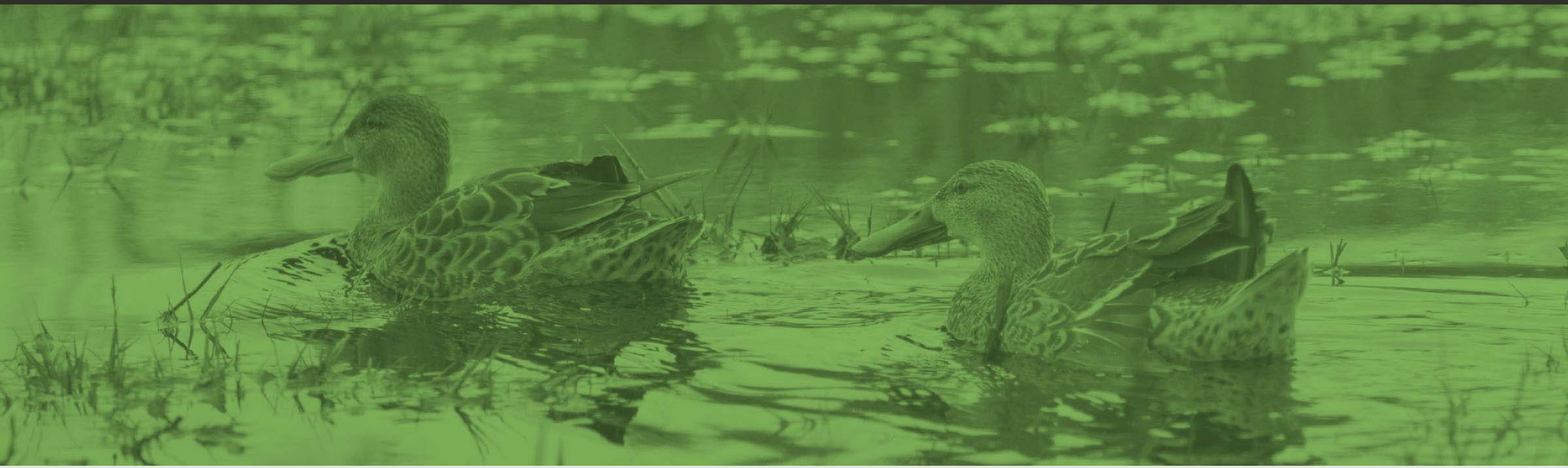
- 2009 NMFS Biological Opinion
- Aiming for local/state/federal alignment
- “Jointly Developed Alternative” (CEQA/NEPA)
- Maximize ecosystem outcomes and minimize local impacts
- Retain same timeline: Public draft EIR/EIS in early 2017

NEAR-TERM FLOOD SYSTEM IMPROVEMENTS

Project selection will be driven by:

- Funding availability
- System-scale flood benefits
- Local/state/federal alignment



Conceptual – for discussion purposes only

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