

CVFPP Conservation Strategy: Integrating Restoration of Ecosystem Functions into Flood Management Planning

Presented to:

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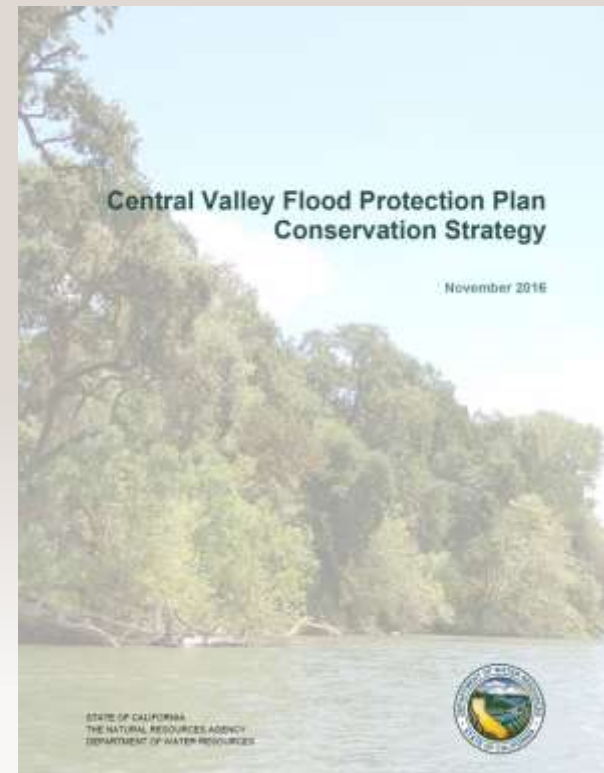
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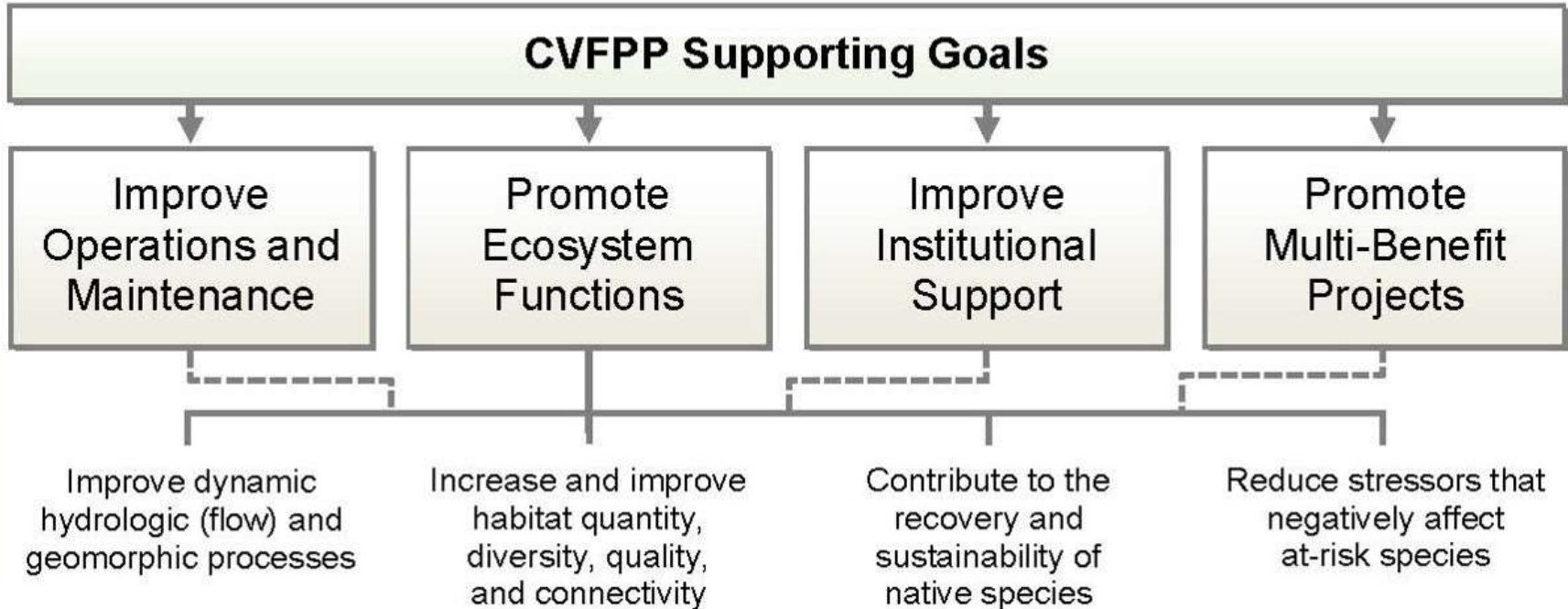


Outline

- Background of the Central Valley Flood Protection Plan (CVFPP) Conservation Strategy
- Context for incorporating conservation into flood planning
- Example of integrated flood project yielding multiple benefits
- Use of Conservation Strategy approaches and tools toward meeting CVFPP goals

CVFPP Primary Goal

Improve Flood Risk Management



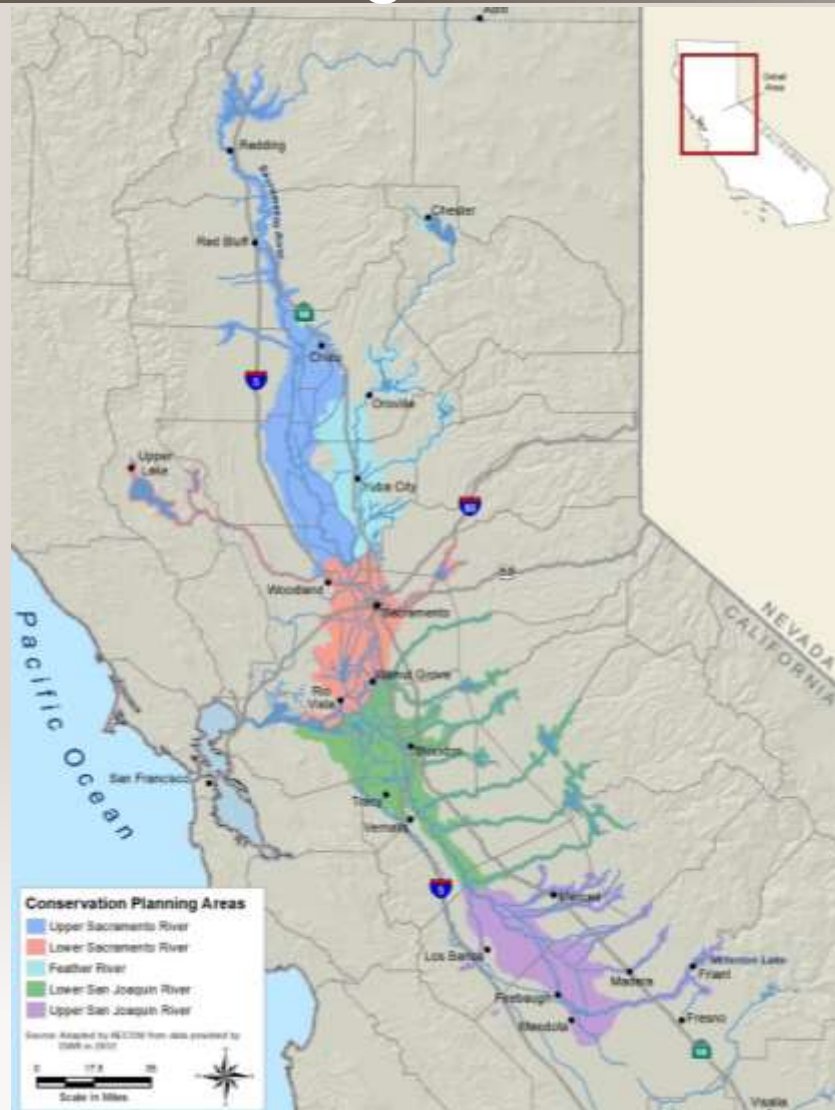
Conservation Strategy Background

2008 Central Valley Flood Protection Act

- Promote natural dynamic hydrologic and geomorphic **processes**
- Increase and improve the quantity, diversity, and connectivity of riparian, wetland, floodplain, and shaded riverine aquatic **habitats**
- Promote the recovery and stability of **native species** populations and overall biotic community diversity
- Reduce **stressors**



CVFPP Systemwide Planning Area and Conservation Planning Areas



C V F P P

2017 ROADMAP

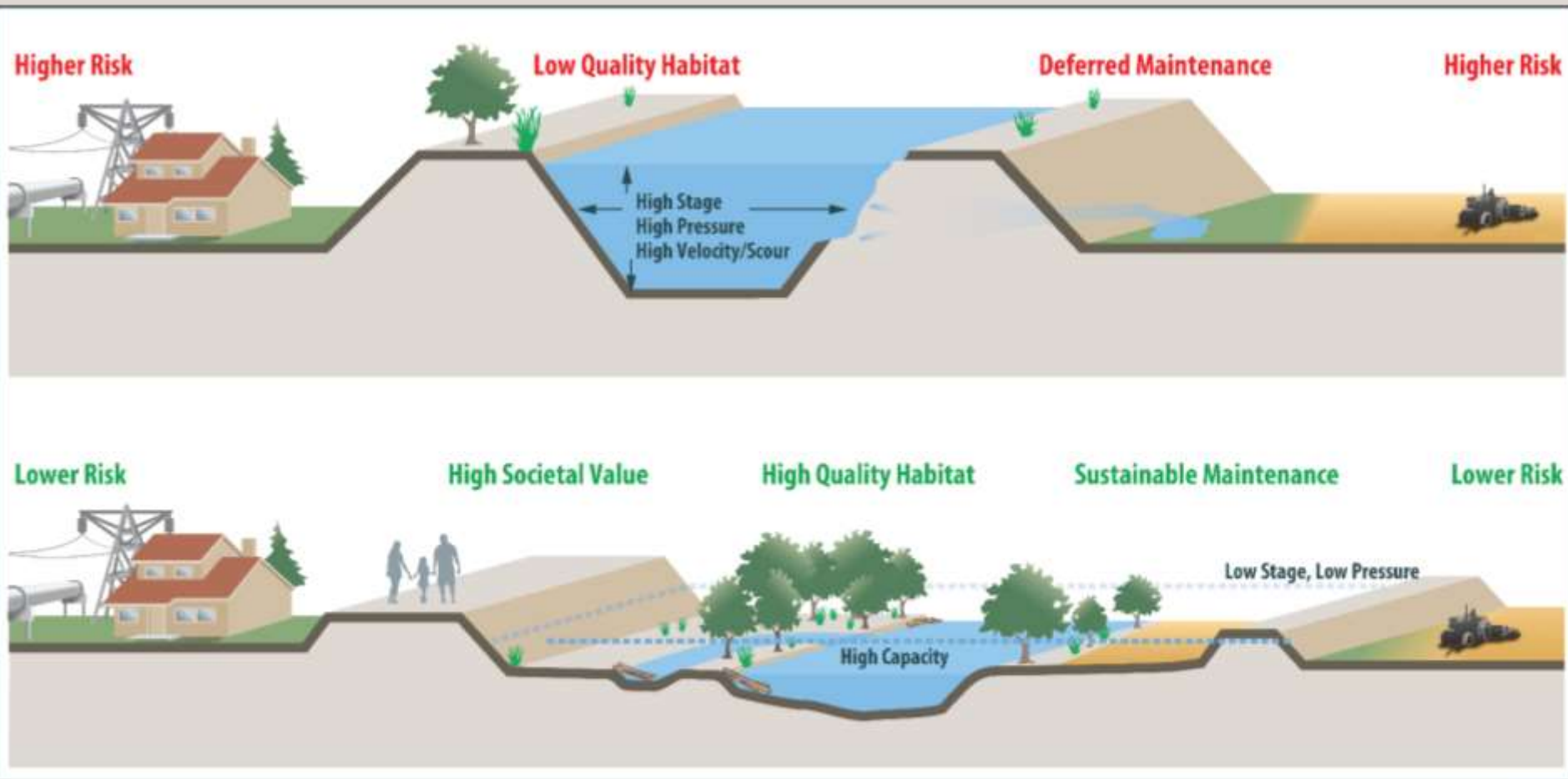


Context: The State River and Floodplain Ecosystems in the Planning Area



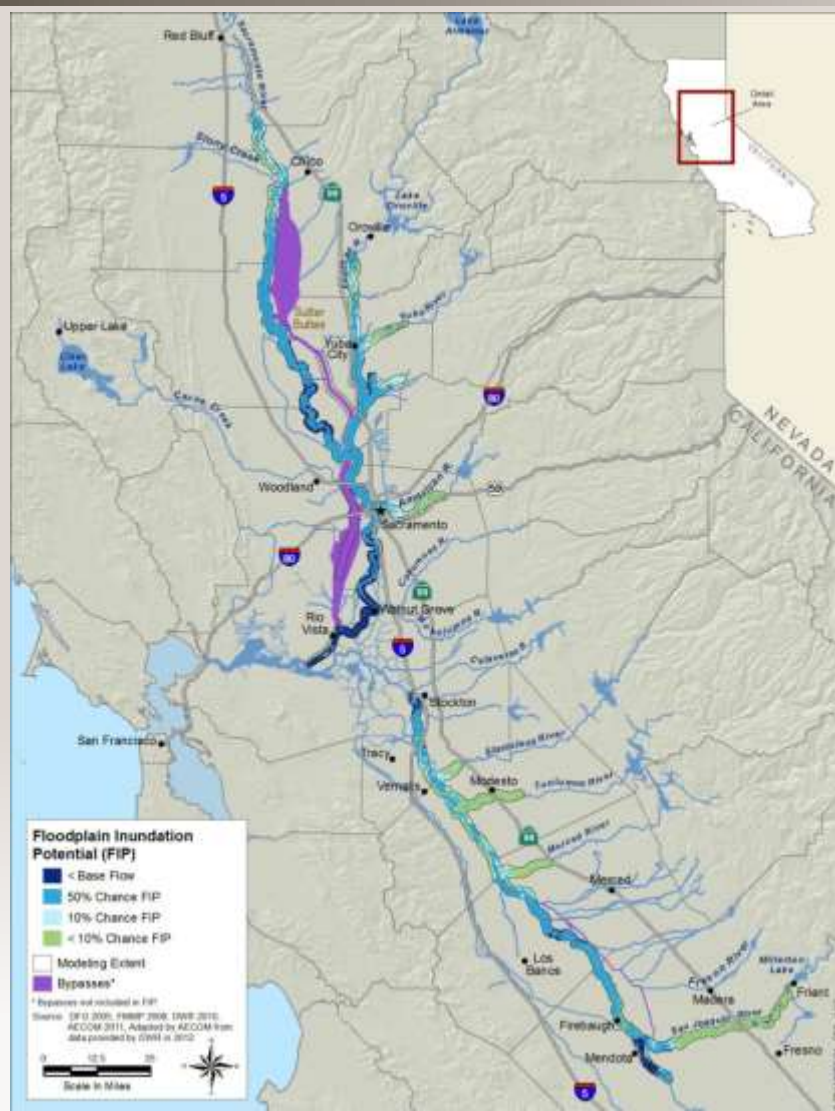
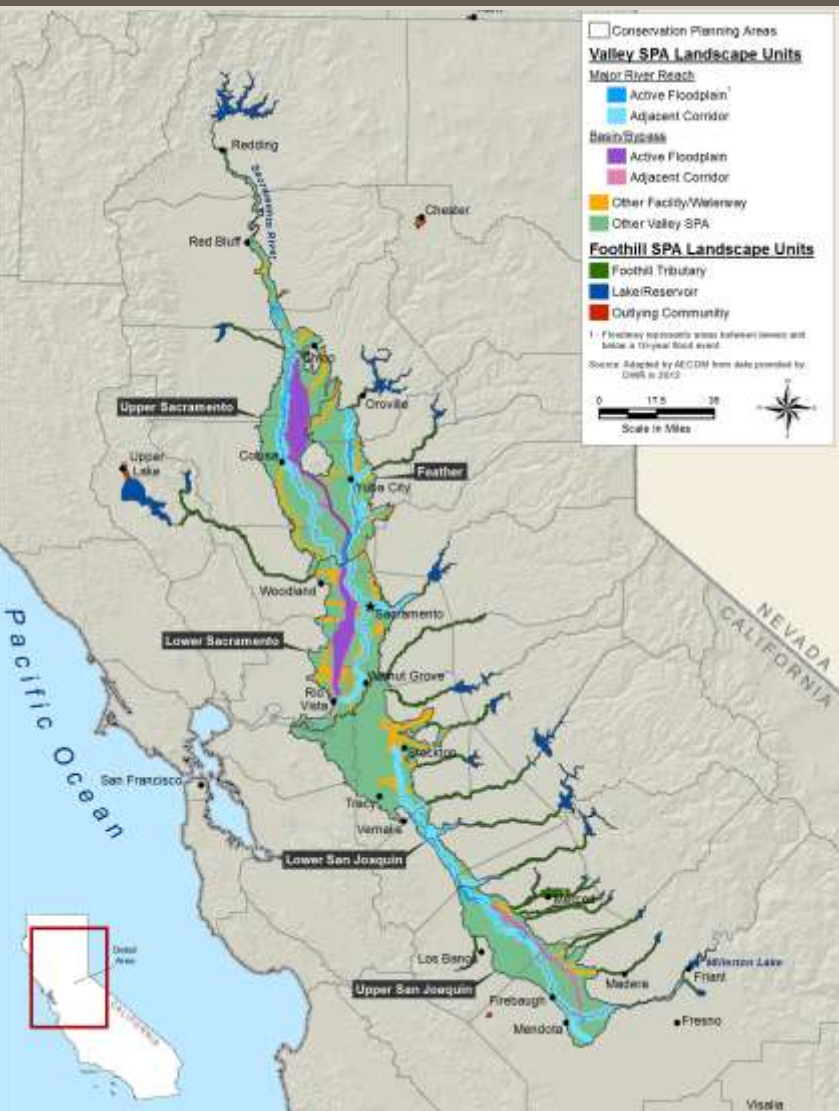
- 95% of historical wetland and riparian vegetation no longer exists
- 90% of salmonid rearing habitat no longer exists
- 25 associated species threatened or endangered

Conservation Strategy Approach: Reconnection of Floodplains



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Conservation Strategy Approach: Innovative Tools

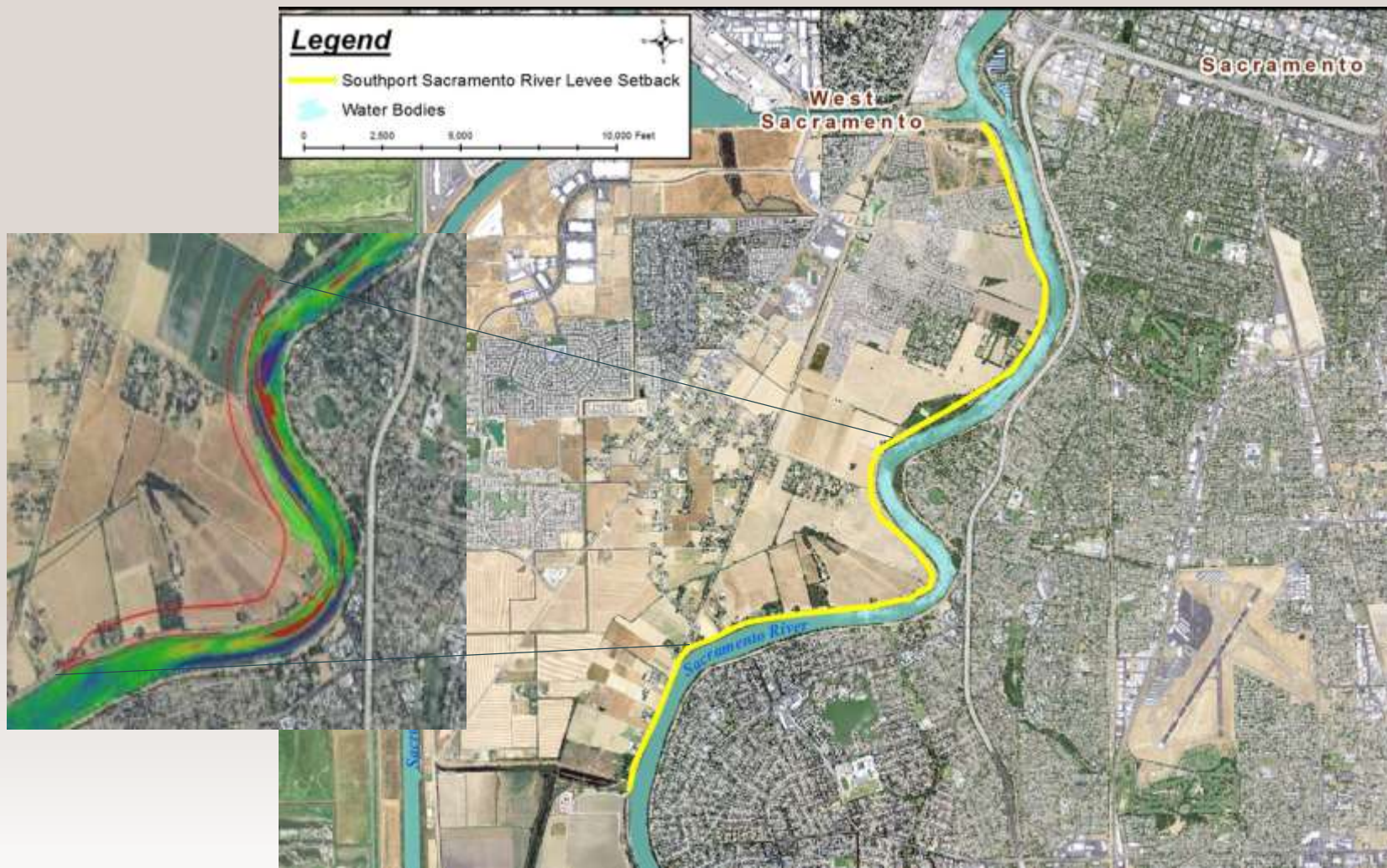


Conservation Strategy Approach: Targeted Species Plans

- 17 target species
- Associated with Central Valley river and floodplain ecosystems
- Greatest recovery needs
- Appendix G of the Conservation Strategy



Southport Setback Levee



C V F P P

2017 ROADMAP



Southport Setback Levee



How is flood management/public safety improved?

- Provide 200-year level of protection for about 50,000 residents in West Sacramento
- Levee setback expected to lower stage in Sacramento River



How is O&M improved?

- New engineered levee will replace existing levee on unstable soils
- Is expected to reduce frequent erosion, seepage, and other structural issues, and is shorter in length
- Comprehensive plan for federal compliance



How is habitat/ecosystem improved?

- Setback levee will create up to 150 acres of new mixed floodplain and riparian habitat
- Provides important habitat for threatened and endangered species in a highly urbanized area where little to no other habitat exists.



How are enriching experiences provided?

- Increase opportunity for recreation on nearby lands (boating, fishing, new parks and trails)
- Provide education and public awareness through interpretive displays in new recreational areas

Conservation Strategy Approach: Multi-Objective, Multi-Benefit

CVFPP GOALS	CONSERVATION STRATEGY APPROACHES
Improve flood risk management	Promotes increased system flexibility and reliability by supporting structural improvements compatible with floodplain ecosystems.
Promote ecosystem functions	Provides ecological goals that promote ecosystem processes, habitats, species, and reduction of stressors.
Improve O&M	Reduces conflicts with habitat and geomorphic processes, and proposes more reliable and less costly permitting.
Improve institutional support	Promotes permitting efficiencies, and may attract additional funding sources for multi-benefit projects and support from public and resource agencies.
Promote multi-benefit projects	Supports multi-benefit projects by integrating conservation into flood system improvements, rather than as separate conservation actions.

CS_005



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Thank You

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