

YOLO BYPASS COMPREHENSIVE STUDY

South Pacific Division
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MEETING PURPOSE & AGENDA

Meeting Purpose:

- Provide an overview of the Yolo Bypass Comprehensive Study's purpose, process, timeline, and relationship to other studies
- Obtain input on concerns, priorities, and potential measures to incorporate into the Study's alternatives
- Share ways to stay up-to-date with the study

<u>TOPIC</u>	<u>TIME</u>
Welcome, Introductions	5 minutes
Study Overview, Purpose & Process	15 minutes
Exploring Potential Measures to Reduce Flood Risks & Restore Aquatic Habitat <i>Gaining Input</i>	25 minutes
Next Steps & Ways to Stay In Touch	10 Minutes





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STUDY AUTHORITY AND PURPOSE

3



Authority: Section 209(a) of Water Resources Development Act (WRDA) of 2020 directs:

*“The Secretary shall **conduct a comprehensive study** of the Sacramento River in the vicinity of the Yolo Bypass System, California, to **identify actions to be undertaken by the Secretary for the comprehensive management of the Yolo Bypass System** for the purposes of flood risk management, ecosystem restoration, water supply, hydropower, and recreation.”*

Section 209(b)(1) further provides the Secretary **“shall consult with the Governor of the State of California, applicable Federal, State, and local agencies, non-Federal interests, the Yolo Bypass and Cache Slough Partnership (Partnership), and other stakeholders.”**

Study Purposes: Flood Risk Management (FRM) and Ecosystem Restoration (ER)

Sponsors: Central Valley Flood Protection Board (CVFPB) and Sacramento Area Flood Control Agency (SAFCA)

The study will develop recommendations which may include:

- Additional monitoring and adaptive management of the existing system;
- Potential follow-on activities to design and construct flood risk management and/or aquatic ecosystem restoration features (including potential modifications to the existing system); and/or
- Potential recommendations for future feasibility studies that could lead to the construction of new water resources development projects that complement the existing Yolo Bypass System authorized purposes.





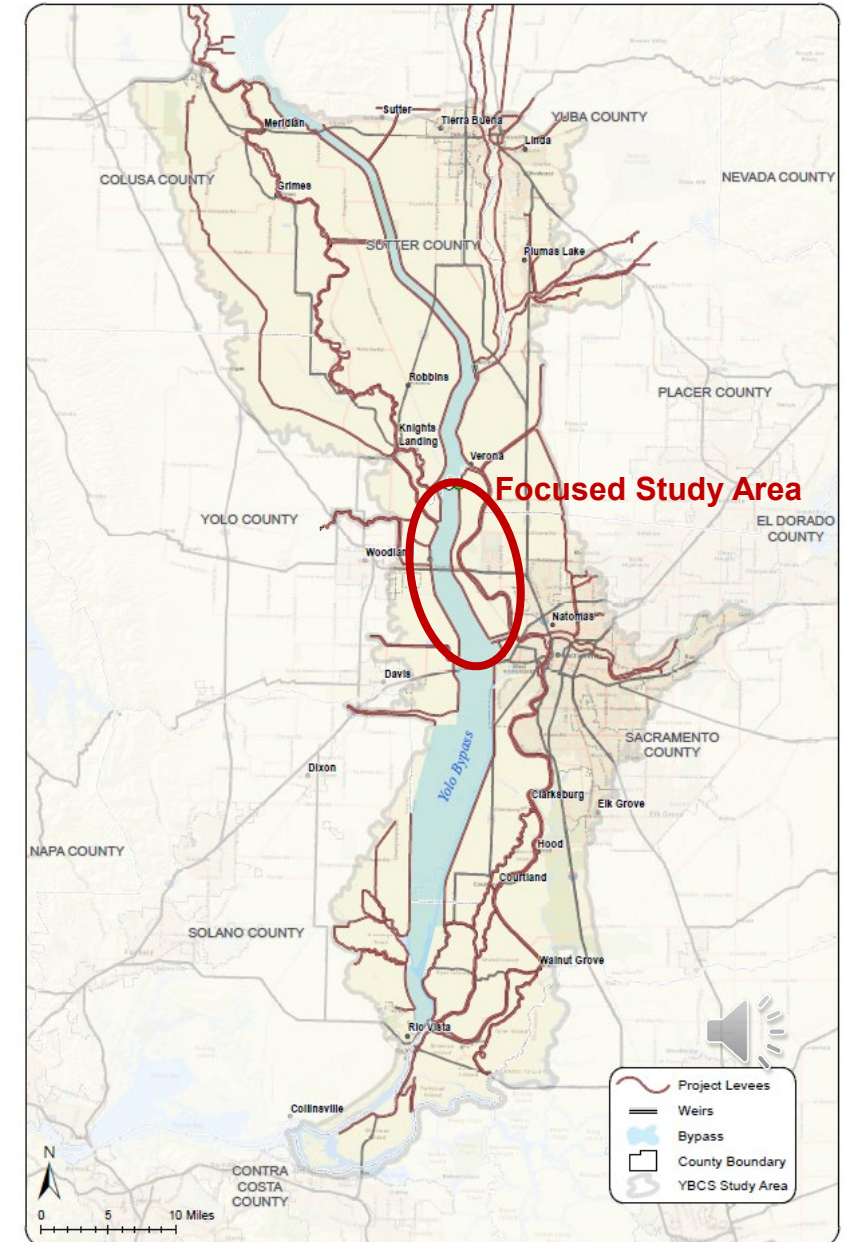
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STUDY AREA

4



- Study area includes the Sacramento River Flood Control System in the vicinity of the Yolo Bypass
- Focused study area for the feasibility portion of the study includes the northern Yolo Bypass vicinity, in order to follow a sequenced approach, as upstream changes will propagate downstream

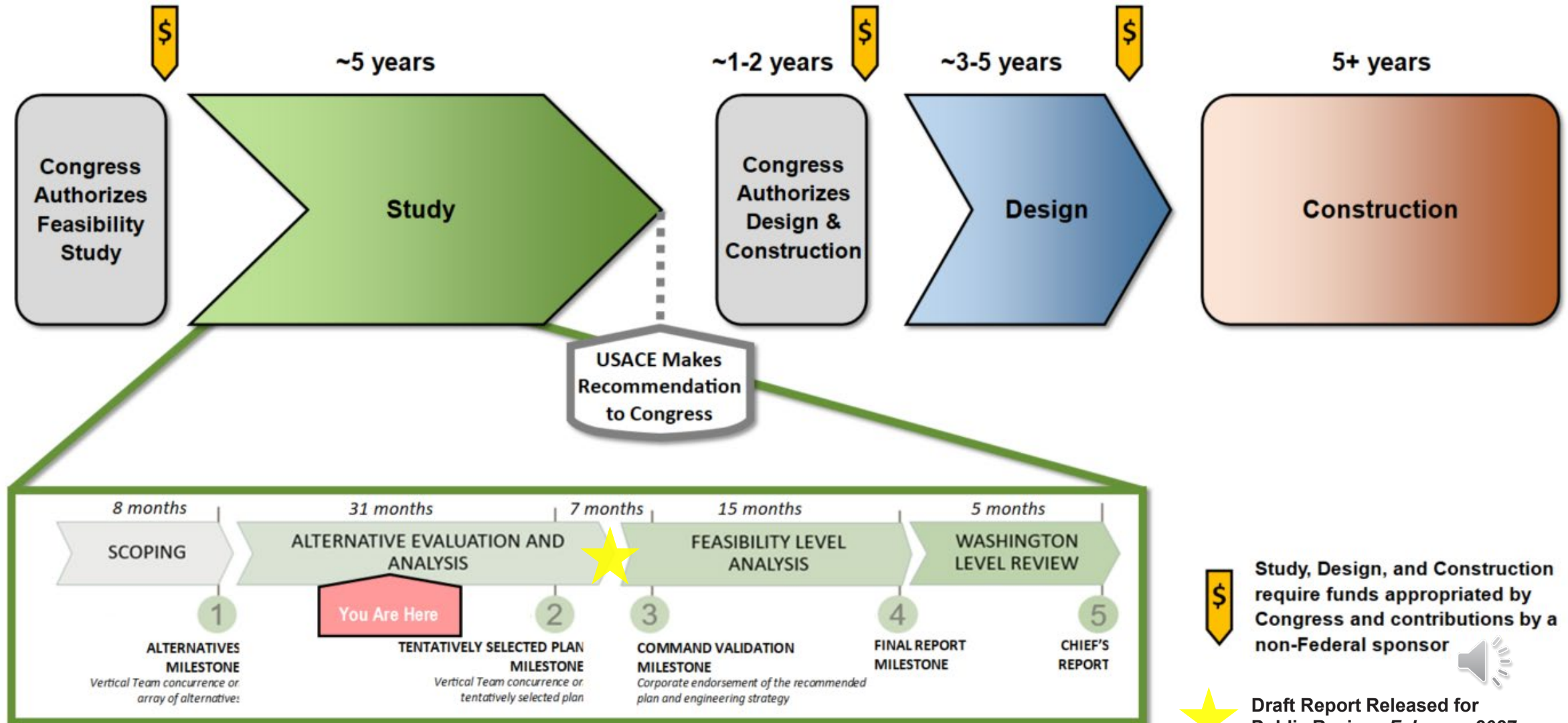




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STUDY AND PROJECT TIMELINE



Study, Design, and Construction require funds appropriated by Congress and contributions by a non-Federal sponsor



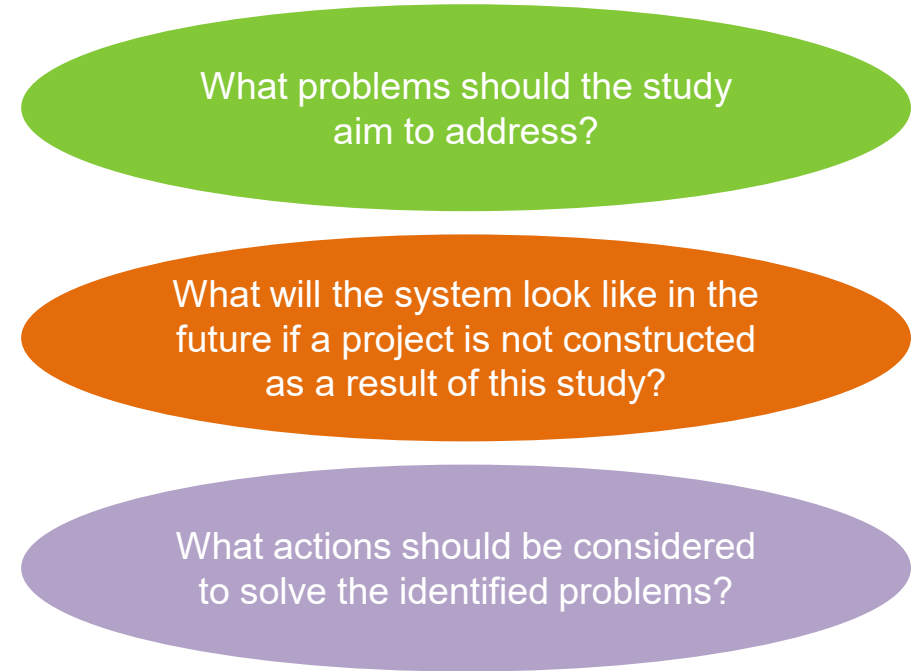
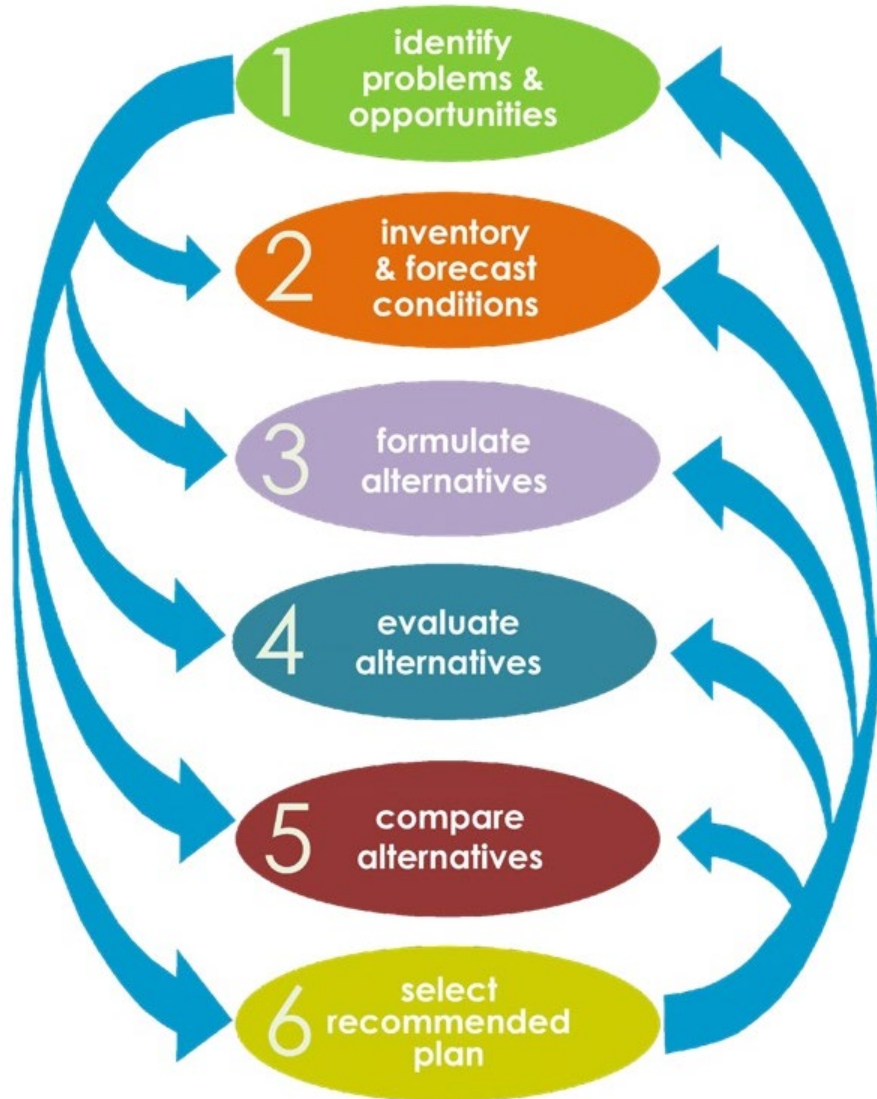
Draft Report Released for Public Review: February 2027



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CORPS PLANNING PROCESS

6





FLOOD RISK MANAGEMENT



A risk of flooding threatens public safety, property, economic sustainability, and critical infrastructure throughout the study area with significant consequences, including Sacramento, West Sacramento, Woodland, Davis, Elk Grove, Walnut Grove, and other populated areas. In particular:

- 950,000 people
- 284,000 structures and \$150 billion in critical infrastructure
- \$1.5 billion in annual agricultural revenue
- Water supply infrastructure which delivers drinking water to 27 million Californians and irrigation to 2.5 million acres of agricultural land

Note: Evaluation of future without-project condition (underway) will help us better define the problems





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AQUATIC ECOSYSTEM RESTORATION



Impaired natural hydro-geomorphic processes and land use changes have removed, fragmented, and degraded native aquatic, wetland, and riparian habitats, reducing their function and value, and the abundance, distribution, and diversity of native species. In particular:

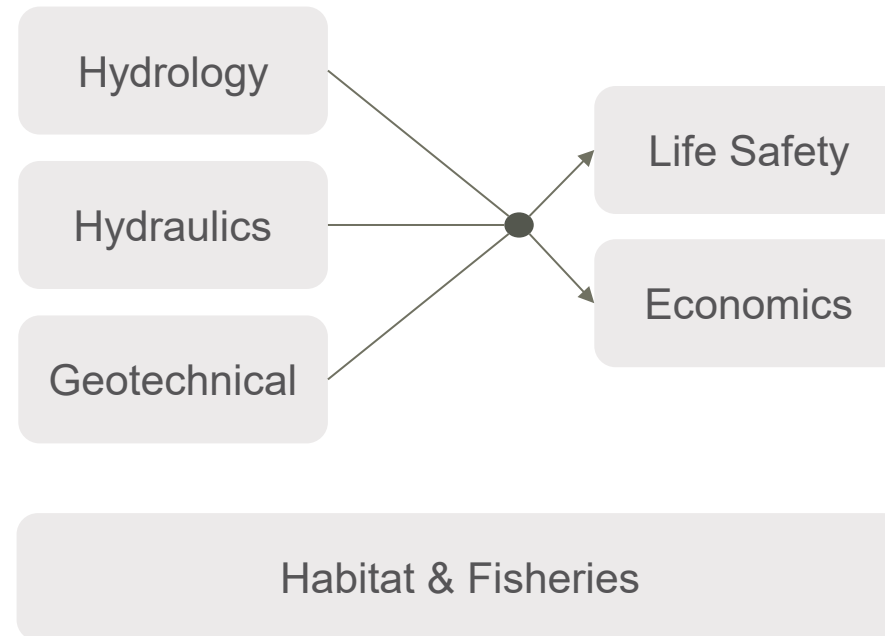
- Lack of shaded riparian vegetation increases water temperatures in waterways of the Yolo Bypass and creates poor water quality conditions for freshwater habitat.
- Restricted fish passage and connectivity along the bypass system greatly reduces accessibility to native fish (including salmonid) habitat and causes stranding.

Note: Evaluation of future without-project condition (underway) will help us better define the problems



INVENTORY AND FORECAST

Technical evaluation of the existing and future without-project condition are underway, which will allow the team to better define the problems the study intends to address



Note: Evaluation of future without-project condition (underway) will help us better define the problems and identify potential solutions





COMPREHENSIVE MANAGEMENT



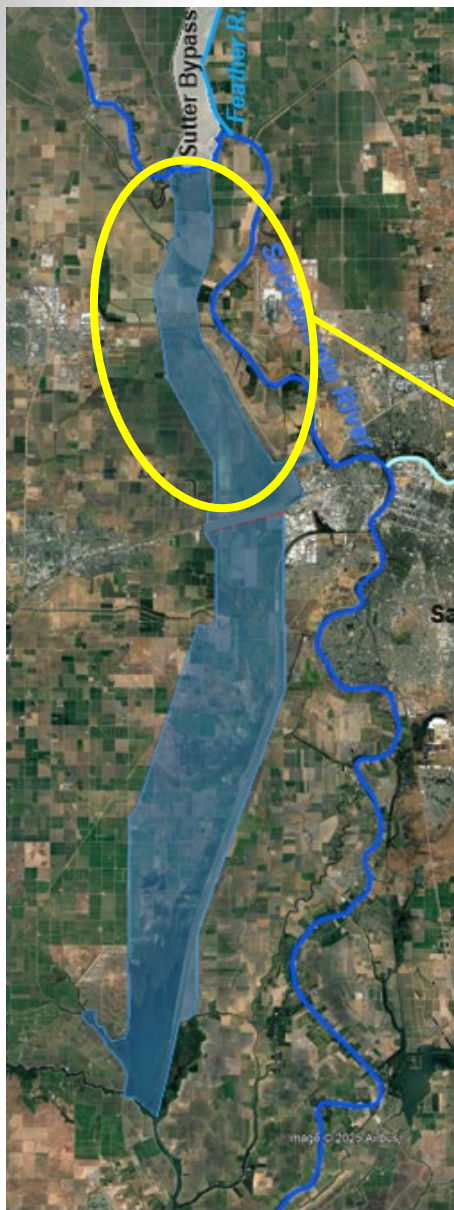
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Congress directed the study to consider recommendations for additional monitoring or adaptive management measures for the system. The following have been identified as potential needs:

- Long-term System Management and Monitoring
- Coordinated Emergency Response
- Flood Response and Recovery
- Tribal Co-Management
- Infrastructure Resiliency
- Floodplain Management
- Ecological Benefits of Flooded Agricultural Lands

What actions should be considered to solve the identified problems?





Measures

Building Blocks of Alternatives

Aquatic Ecosystem Restoration	Restore Low Flow Channels & Associated Habitat (including Shaded Riverine Aquatic)
	Restore Channel Sinuosity/Meanders
	Restore Natural Bank Habitat
	Restore Hydrologic Connectivity With Floodplain
	Remove Invasive Species
	Restore Wetland Habitat
	Remove Impediments to Riverine Connectivity
Flood Risk Management	New Levees
	Raise/Strengthen Existing Levees
	Repair Levees
	Bank Protection
Multi-purpose Flood/Eco	Widen Weirs
	Increase Capacity of Yolo Bypass
	Add New Weirs Into Levees
	Setback Levees
	Degrade Levees
	Remove/Modify Obstructions
	Shallower Slopes on Existing Levees
	Flooded Agricultural Fields
Recreation	Install Boat Ramps
	Install Fishing Platforms
	Install Bike Paths/Walking Trails
	Create Parking Areas





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FEASIBILITY EVALUATION

EXAMPLE CONCEPTUAL MEASURES

3

formulate
alternatives

12



Elevating/Floodproofing Structures; Develop Emergency Plans

- Knights Landing
- Verona
- Adjacent urban areas

Modifications to Existing System

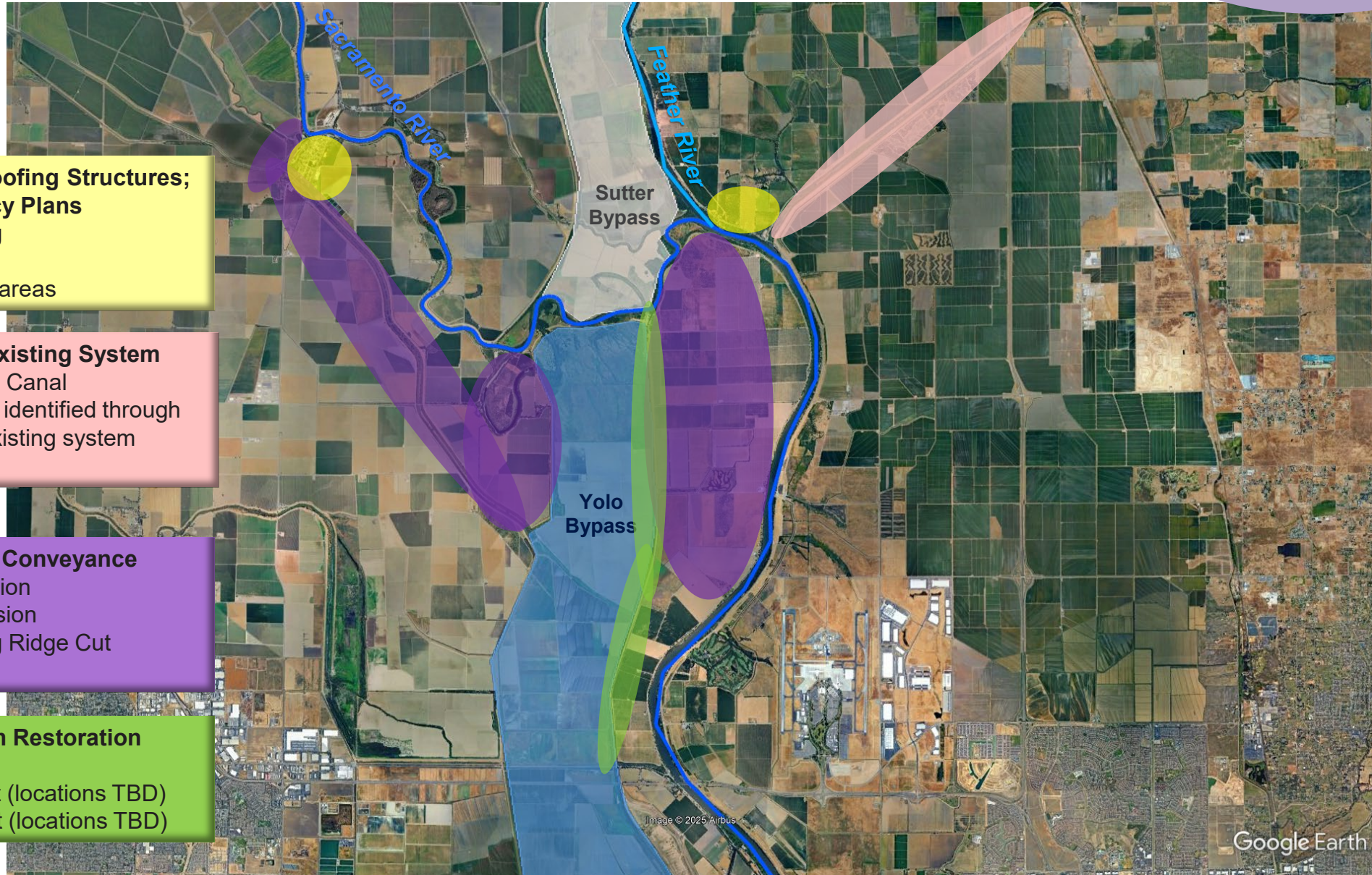
- Natomas Cross Canal
- Locations to be identified through evaluation of existing system (underway)

Additional Bypass Conveyance

- Eastern Expansion
- Western Expansion
- Knights Landing Ridge Cut Expansion

Aquatic Ecosystem Restoration

- Tule Canal
- Wetland Habitat (locations TBD)
- Riparian Habitat (locations TBD)

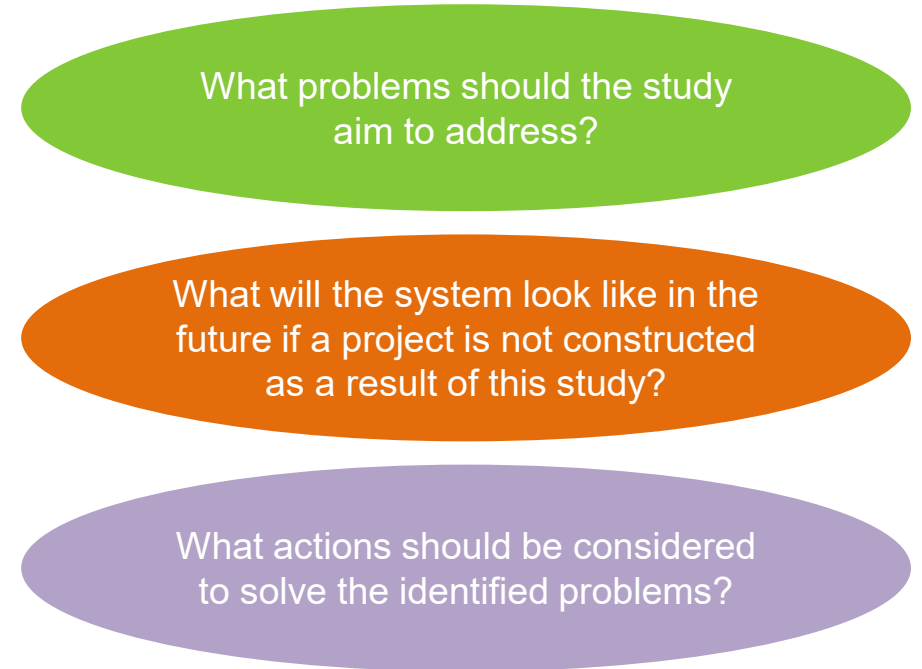
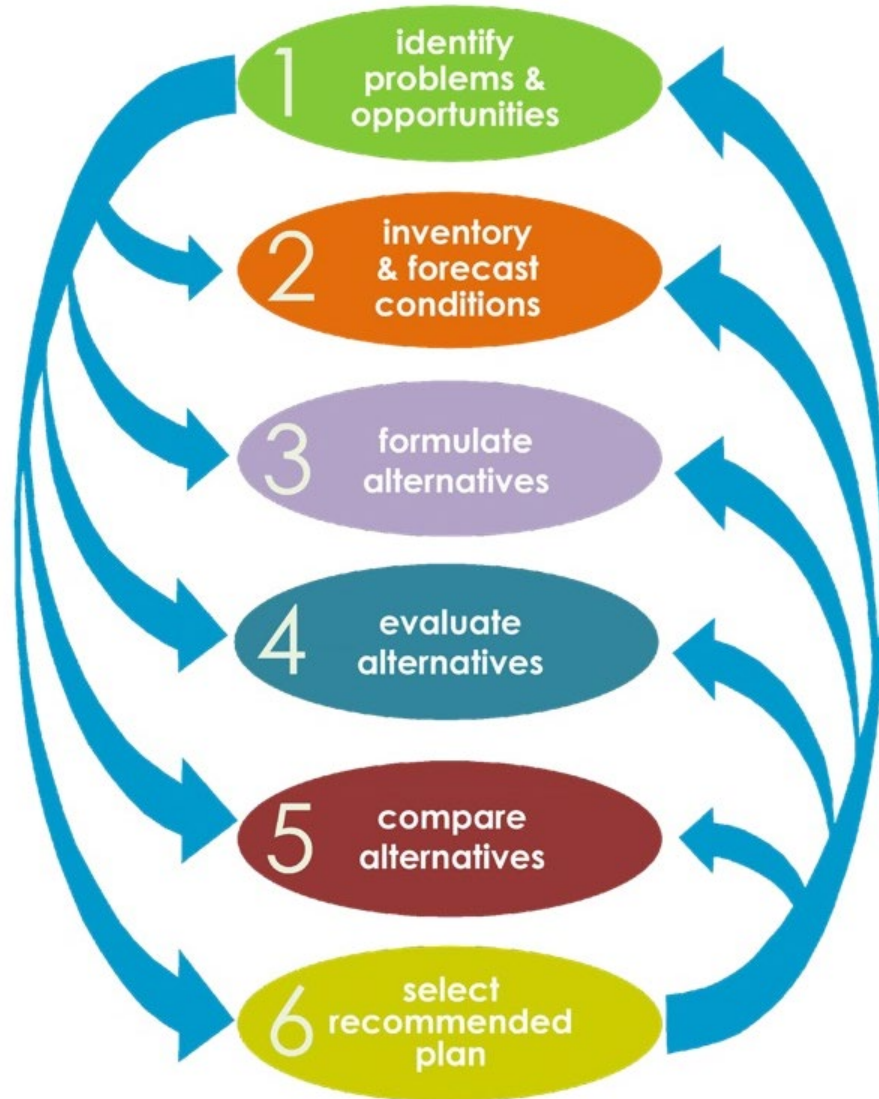




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CORPS PLANNING PROCESS

13





COMPREHENSIVE PLANNING



Considering your role in the bypass, what challenges have you identified?

What's going well that you would like to see continue or expand?





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FEASIBILITY EVALUATION

NORTHERN BYPASS VICINITY



15

Are there other measures that should be considered to reduce flood risk or restore habitat?

Are there specific areas that should be included in the evaluation?

Are there areas that should be avoided?





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HOW TO STAY IN TOUCH

16



Study updates will be posted to our website:

<https://www.spk.usace.army.mil/Missions/Civil-Works/Yolo-Bypass/>

E-mail the study team with any questions or to be added to the distribution list:

CESPK-YOLOBypass@usace.army.mil

Reach out by phone:

916-557-5100

Mailing Address:

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Reminder: We are early in the process – Draft Report release scheduled for February 2027

