

# SR12

## State Route 12 Comprehensive Corridor Evaluation and Corridor Management Plan Stakeholder Briefing



# Objectives

1. Study Purpose, Scope, & Workplan
2. Preview work to date:
  - *Existing Conditions Analysis*
  - *Environmental Scan*
  - *Bridge Operations*
3. Next Steps



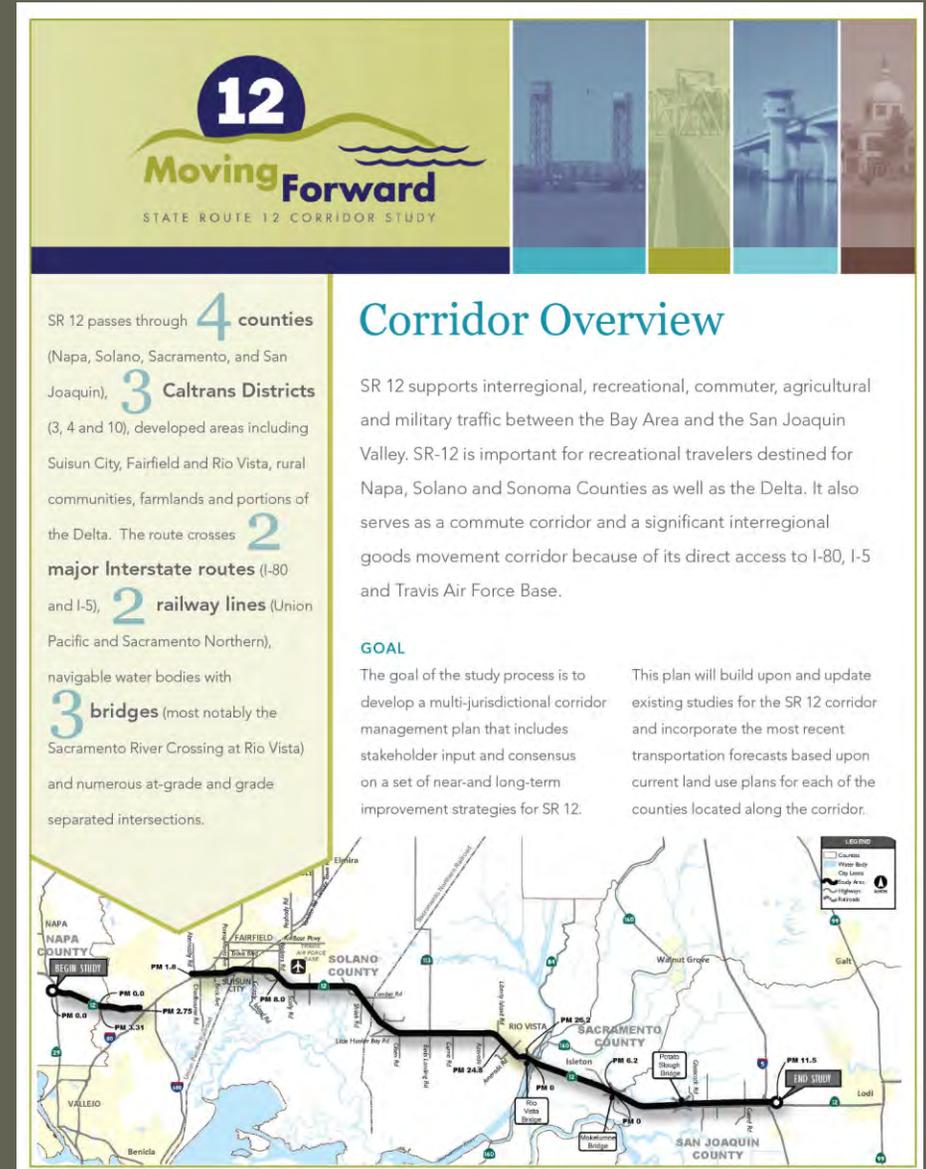
*SR 12 Rio Vista Bridge looking onto City of Rio Vista*

# Purpose

*Conduct a comprehensive evaluation of the State Route 12 corridor from SR-29 in Napa County through Solano, Sacramento, and San Joaquin Counties to I-5, building upon previous studies and projects.*

*Identify improvement strategies that address near- and long-term needs of the SR-12 corridor through an active stakeholder collaboration process.*

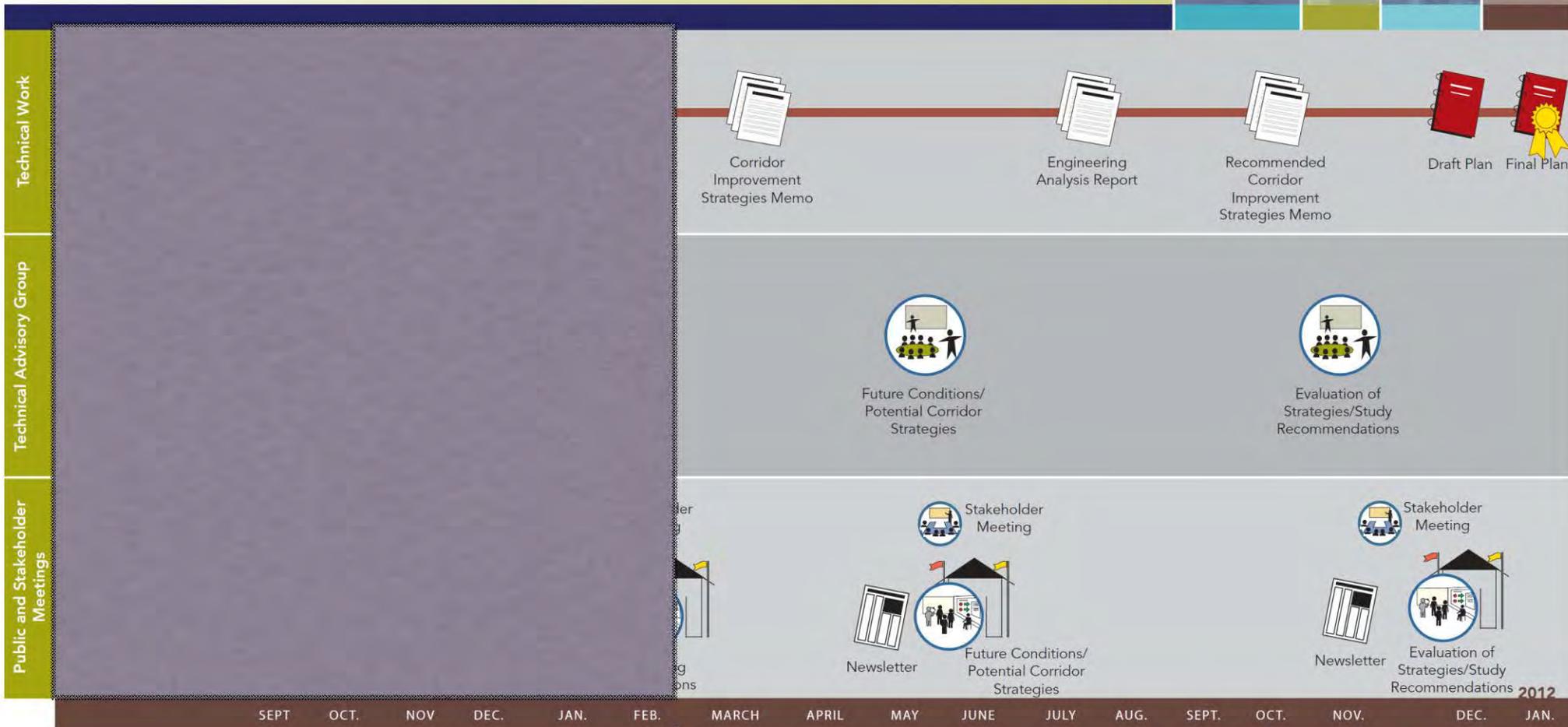
*Inform future county and regional funding and planning processes.*



# Work Plan & Major Milestones

## State Route 12

Comprehensive Corridor Evaluation and Corridor Management Plan



# Major Corridor Issues

- Freight and goods movement
- Future levels of inward commuting to the Bay Area
- Access, mobility and safety
- Future development in Rio Vista
- Increased Shipping to the Port of Sacramento
- Travis AFB as a military installation and as a joint passenger / freight airport
- Preservation of the Delta environment
- Location appropriate design
- Policy Mandates such as SB 375
- Integration of economic, environmental and equity concerns



*SR 12 Rio Vista Bridge*

# 53-Mile, Multi-Jurisdictional Corridor

- 4 Counties -- Napa, Solano, Sacramento & San Joaquin
- 3 Caltrans Districts -- 3, 4 and 10
- Developed areas -- Suisun City, Fairfield & Rio Vista
- Rural communities, farmlands and portions of the Delta
- 2 Major Interstate routes -- I-80 and I-5
- 2 Railway lines -- Union Pacific & Sacramento Northern
- 3 Bridges -- Rio Vista, Mokelumne and Potato Slough



# Past and Present Activities

This effort builds upon previous studies in the Corridor...

- *Highway 12 Major Investment Study (2001)*
- *State Route 12 Comprehensive Transportation Corridor Study (2006)*
- *State Route 12 Transit Corridor Study (2006)*
- *Rio Vista Bridge Study (2010)*
- *SR-12 and Church Road Intersection PSR (2010)*
- *Corridor System Management Plan (CSMP) (2011)*

... and near-term safety enhancements...

- *Legislation - AB 122*
- *Enforcement*
- *Education*
- *Engineering (Caltrans short-term enhancements in 2007)*

... and current projects underway

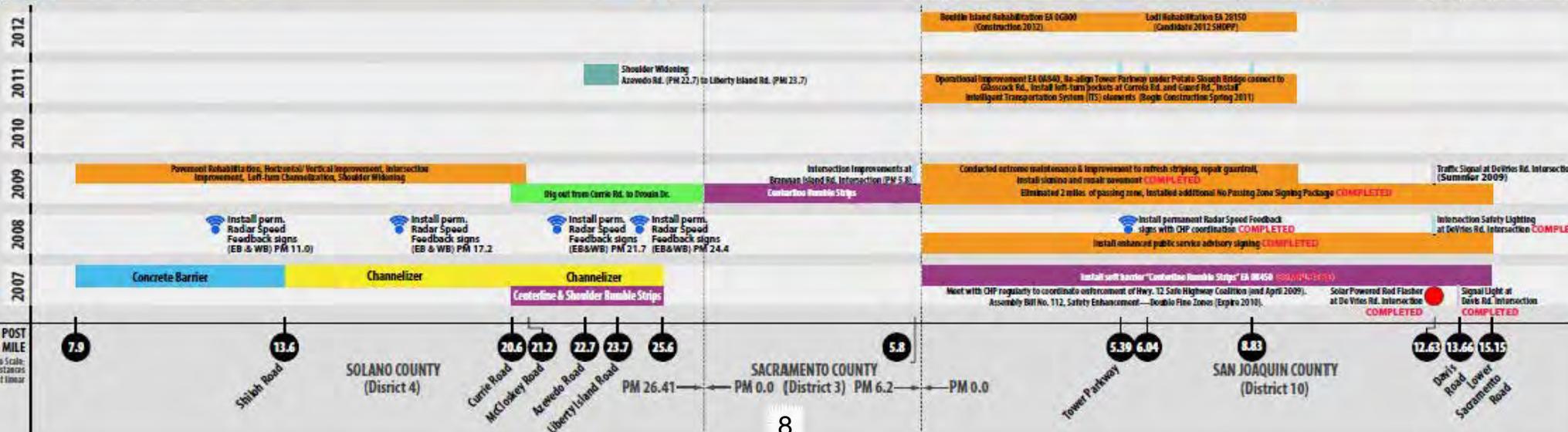
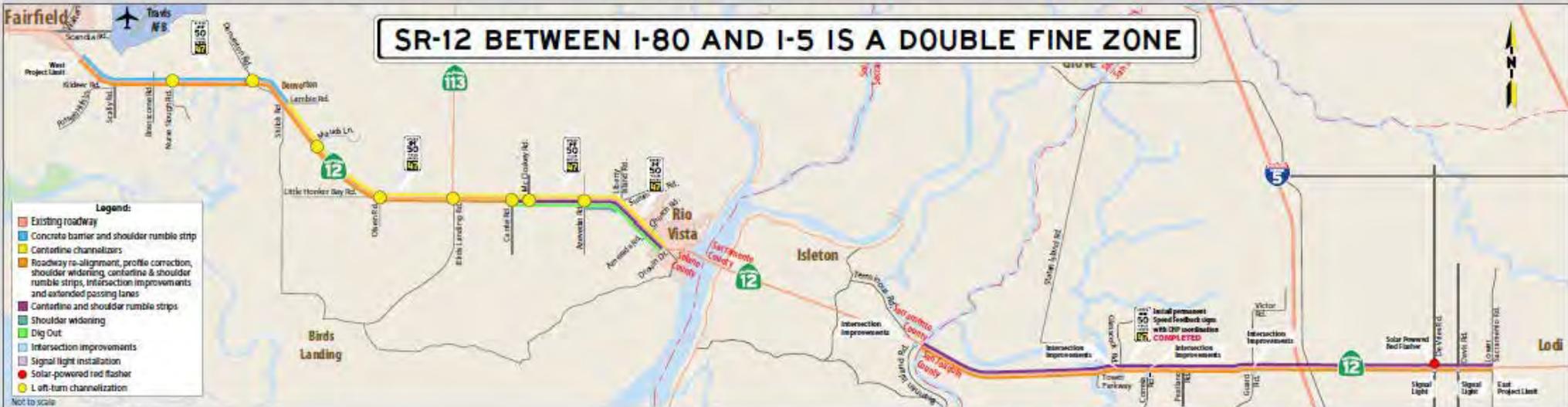
- *SR-12 Roadway Rehabilitation Project (Solano)*
- *SR-12 Bouldin Island Project (San Joaquin)*
- *SR-12 Improvements Project (San Joaquin)*
- *SR-12 Roadway Rehabilitation Project (Solano)*
- *SR-12 Jameson Canyon Project (Napa & Solano)*
- *I-80/I-680/SR-12 Interchange Project (Solano)*



SR 12 CHP Enforcement

# Planned Improvements

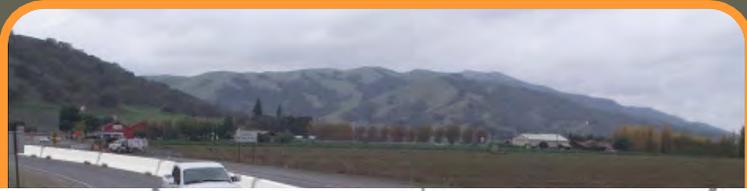
## Planned Improvements for State Route 12 Through Solano, Sacramento and San Joaquin Counties



## State Route 12 Corridor Study

# Median Treatments & Passing Lanes

- Median treatments will be implemented throughout the corridor.



# Traffic Characteristics

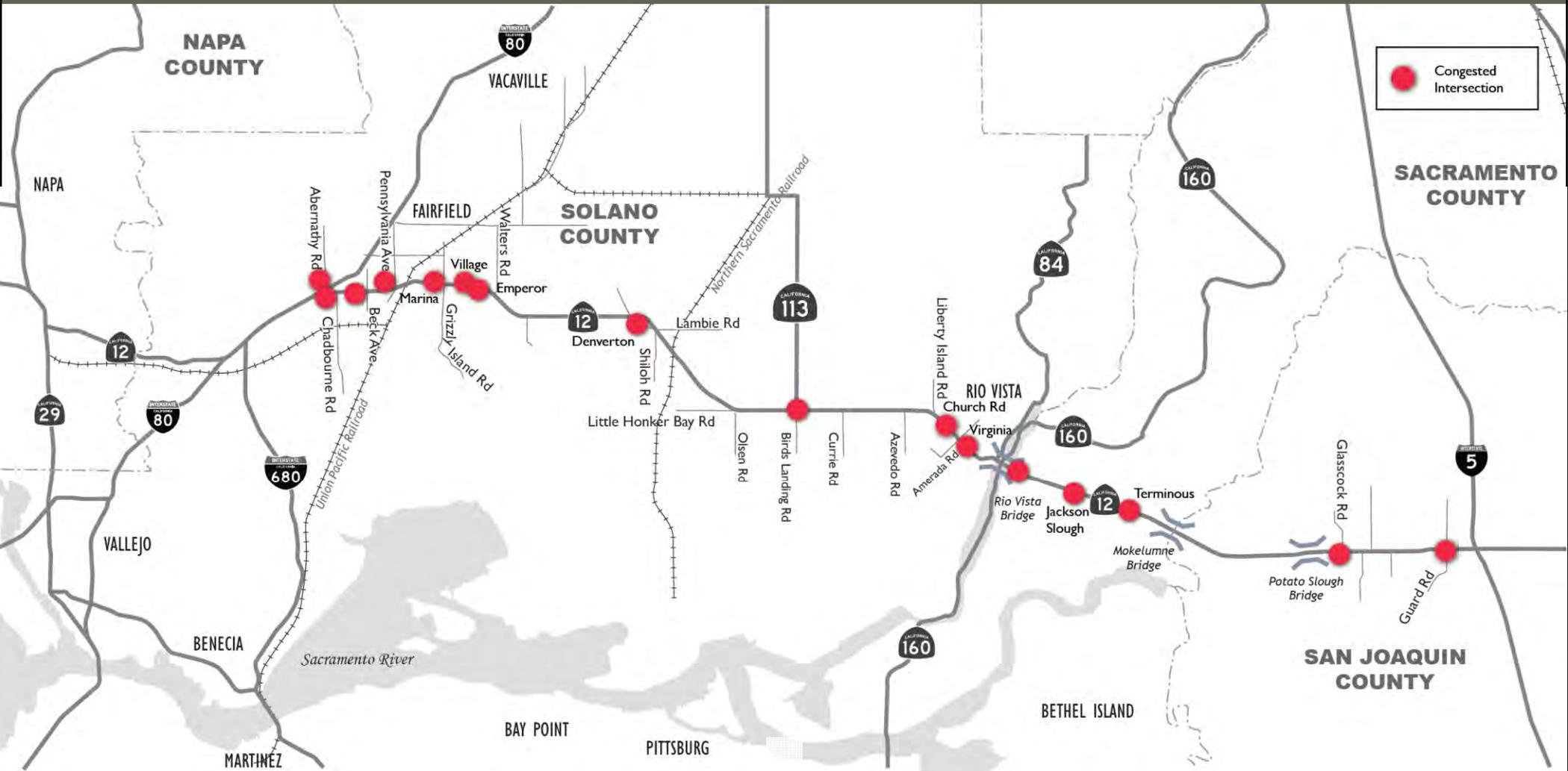


SR 12 San Joaquin

- Daily traffic volumes vary from 9,000 veh. (rural) to 40,000 veh. (urban)
- Highest volumes are on Fridays
- Peak hours: 6:00 - 8:00 a.m. and 4:00 - 6:00 p.m.
- Peak summer traffic is about 10% higher
- High truck and recreational vehicle traffic
- Trucks represent 7-14% of daily traffic (or 950 – 3,750 trucks/day)
- Presence of agricultural vehicles in Sacramento and San Joaquin Counties
- Traffic volumes are about 15% lower than 2007 traffic

# Intersection Congestion

- Capacity of the SR-12 Corridor is controlled by signalized intersections.



# Safety

- Safety enhancements are making a difference
  - Downward trend in total accidents
  - Downward trend in severity (including fatal accidents)
  - Reduction in head-on accidents
- No head-on accidents where concrete barrier is installed
  - Total accidents remain the same
  - Higher number of hit object accidents
- Locations with accident concentrations include:
  - Signalized intersections
  - Movable bridges
  - SR 113 & SR 160



# Environmental Scan

## Purpose

- *To provide an overview of known environmental resources and potential constraints on the development of transportation strategies in the corridor*



## Content

- *Resources evaluated*
- *Resources of concern*



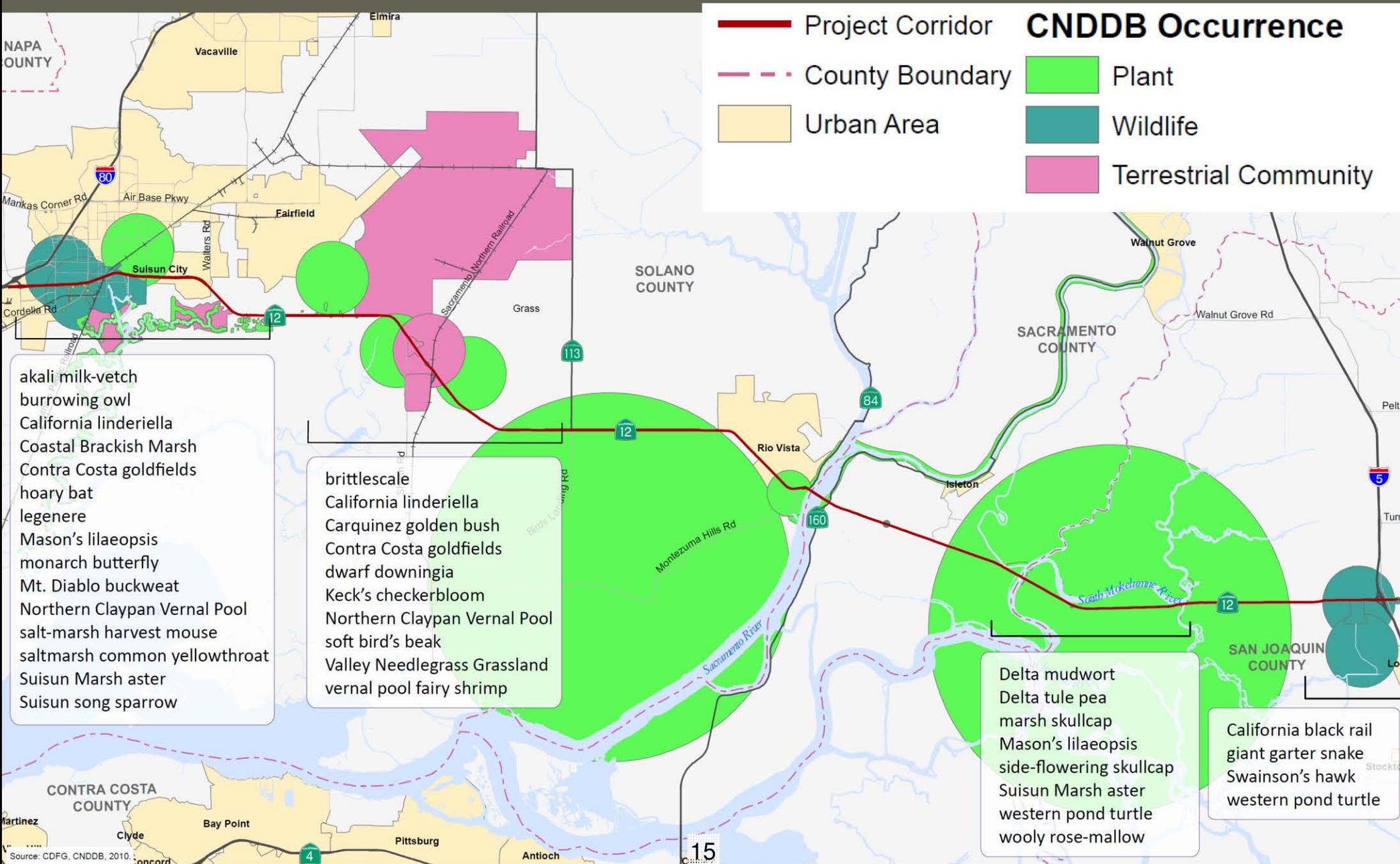
# Resources of Special Concern

Resources in the corridor which may influence the development of alternatives:

- Wetlands
- Threatened and Endangered Species
- Critical Habitat
- Flood Hazards/  
Sea Level Rise
- Farmland
- Historical/  
Archaeological  
Resources

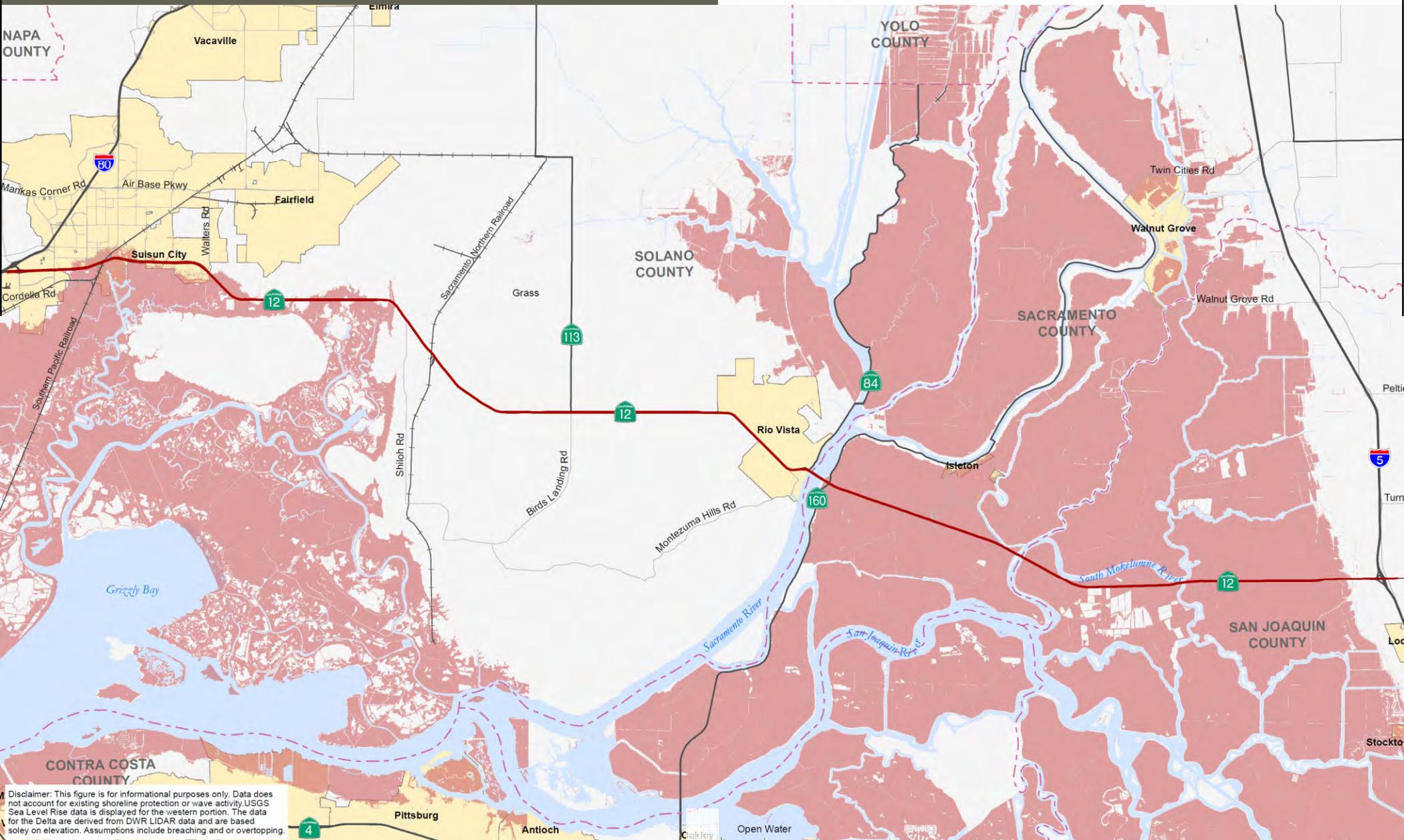


# Threatened and Endangered Species



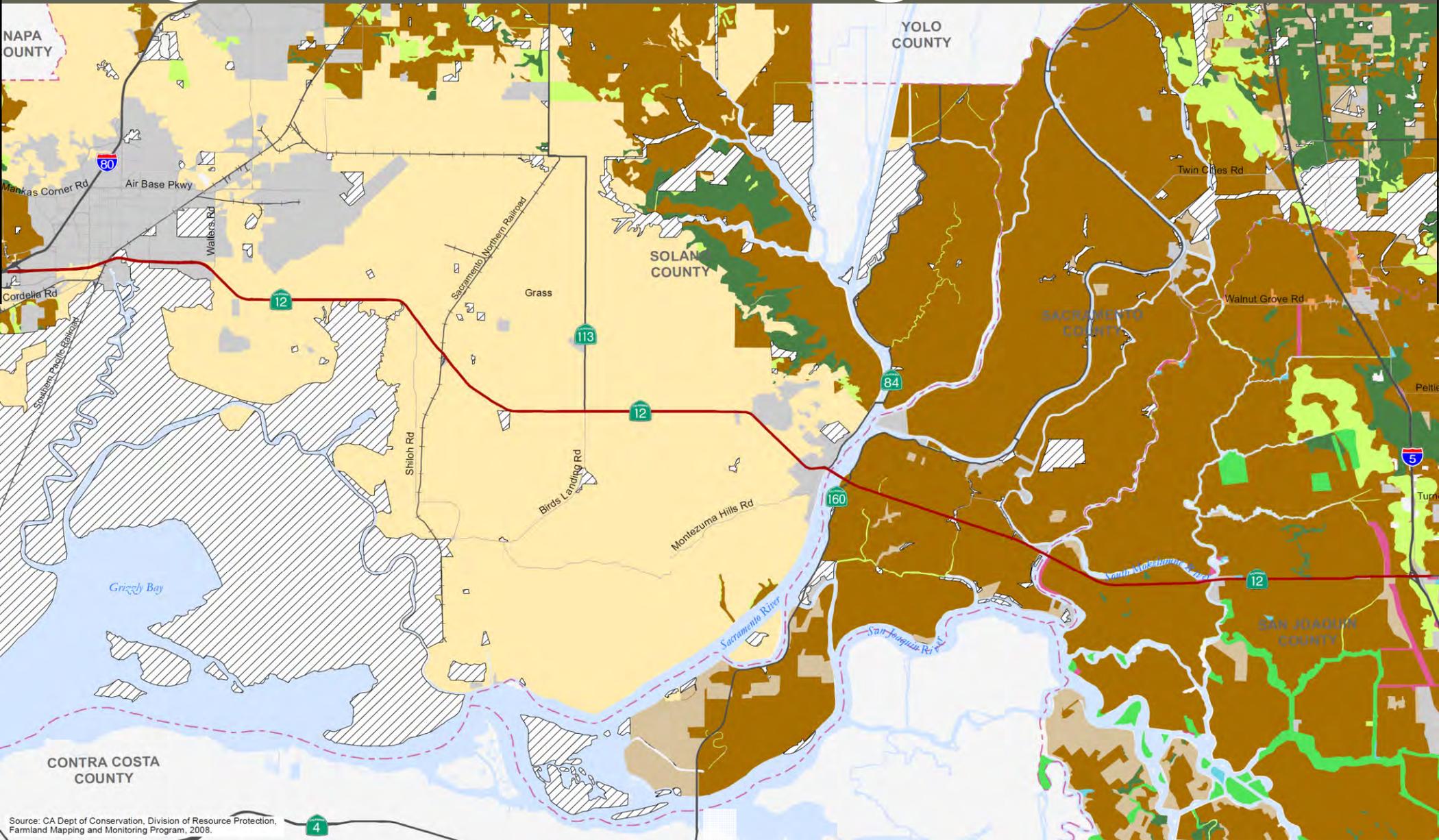
# Environmental Scan

# Sea Level Rise (Year 2100)



Environmental Scan

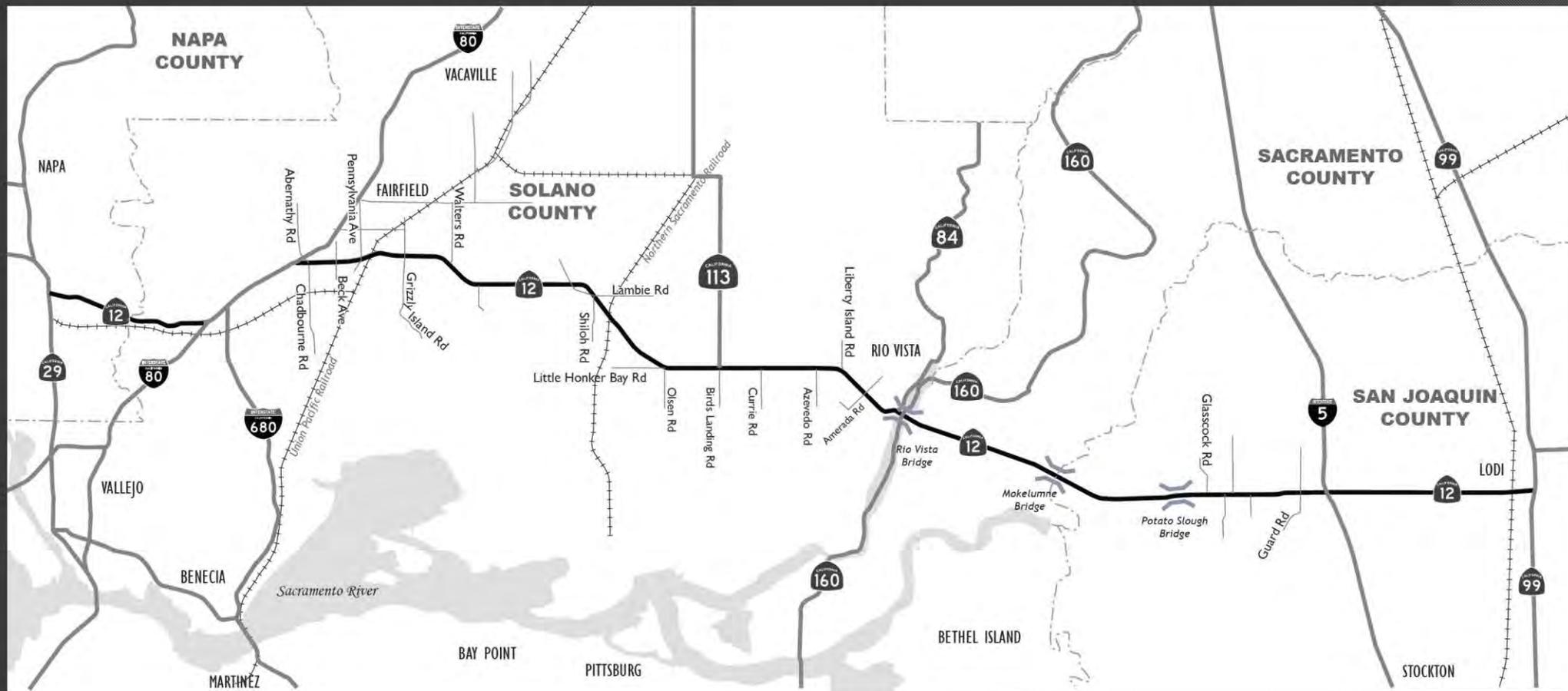
# Farmland Mapping and Monitoring Program (FMMP) Designations



SR-12 Corridor Study (I-80 to I-5)

**ONE ROUTE  
THREE BRIDGES**

# SR-12 Corridor



# Potato Slough Bridge



# Potato Slough Bridge (PM: SJ 4.75)



- River: Little Potato Slough
- Bridge Type: Center Swing
- Constructed: 1991
- Crossing Distance: 120m (920m)
- Average High-Tide Clearance: 35ft

# Mokelumne Bridge



# Mokelumne Bridge (PM Sac 6.20)



- River: Mokelumne
- Bridge Type: Center Swing
- Constructed: 1942 (widened 1978)
- Crossing Distance: 360m
- Average High-Tide Clearance: 8ft

# Rio Vista Bridge



# Rio Vista Bridge (PM: Sol 26.41)



- River: Sacramento/Shipping Channel
- Bridge Type: Vertical Lift
- Built: 1944 (widened 1960)
- Crossing Distance: 730m
- Average High-Tide Clearance: 18ft

# Bridge Operations

There are 3 elements that effect bridge operations.

1. River Traffic
2. Opening Procedure
3. Mechanical Reliability

# 1. River Traffic

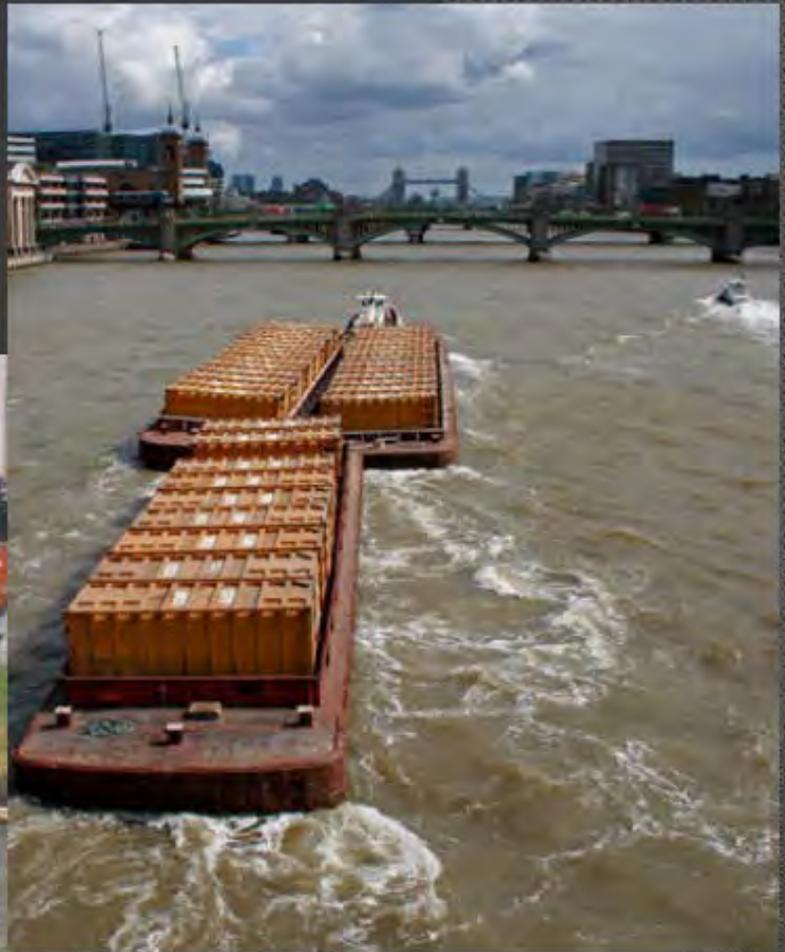


House Boat passing through Mokelumne Bridge



Boat passing beneath the Rio Vista Bridge

# Examples of river barges carrying containers



## 2. Opening Procedure





# 3. Reliability



# Next Steps

- Feedback

- *Existing Conditions Analysis and Environmental Scan*
- *Will be posted on [www.movingSR12forward.com](http://www.movingSR12forward.com)*

- Milestones/Meetings

- *May/June- Future Conditions and Potential Corridor Strategies*
- *November - Strategy Evaluations / Study Recommendations*

