



#### Success in Partnership and Planning Along Three Highway Corridors in California

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> AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS

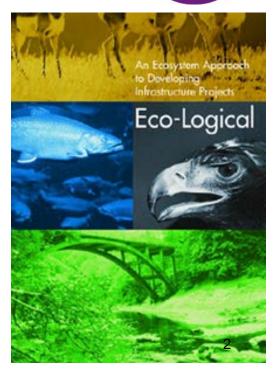


#### **Caltrans/UC Davis and SHRP2**

# Applying Eco-Logical to three corridors in California:

- Highway 37 User Incentive
  Stakeholder coordination
- Highway 89 C21 Pilot
  Mitigate wildlife mortality
- Highway 101 C40 Pilot
  - -Regional model evaluation





#### **California SHRP2 Efforts**

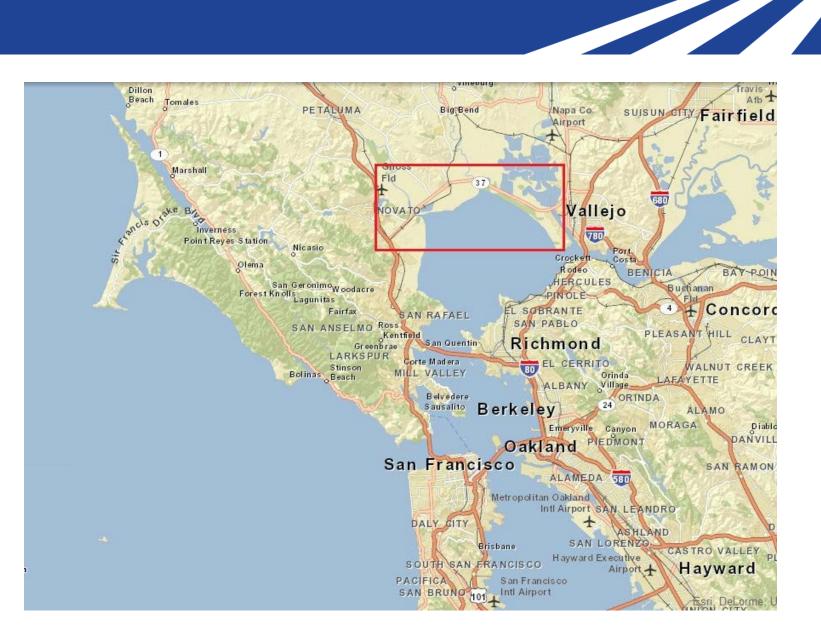




## Promoting Stewardship Principles to Gain Consensus on a Vision for Highway 37, California



#### **Challenges for Highway 37**

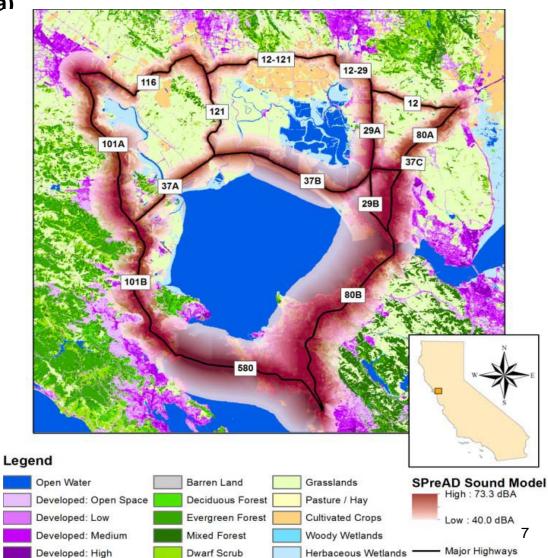


#### **Approach for Highway 37**



#### **Data Findings**

Land Cover Type	Impacted Area (Ha)
Lacustrine	1042
Annual Grass	465
Coastal Oak Woodland	d 26
Urban	681
Saline Emergent Wetla	and 915
Fresh Emergent Wetland 568	
Blue Oak Woodland 12	
Barren	131
Cropland 1394	



#### **Overall Benefits**



- Build collaborative partnerships and vision for SR 37 that meets multiple goals.
- Create framework for integrated planning and decisions in the corridor.
- Establish potential ecological and transportation actions that could be proposed for SR 37.
- Working in collaboration with resources agencies, test value of impacts, avoidance and mitigation.
- Develop foundation for model analysis agreements among infrastructure and resources agencies.



Generating Success for Wildlife Beyond the Right of Way: Planning for Cost Effective Mitigation along California's Highway 89

## **HIGHWAY 89**

## A Partnership Approach: Wildlife Mortality along Highway 89

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## SHRP2 Eco-Logical: User Incentive Recipient

- Supports the stakeholder outreach for the project, through the development of the Highway 89 Stewardship Team
- Objective to reduce vehicle collisions and preserve wildlife movement corridors through
  - Education
  - Research
  - Identify Mitigation

Recommendations



#### **Partnership Benefits**

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### **Agency Benefits**

- 'Working beyond the right-of way'.
- Anticipate if mitigation is needed, where an appropriate expenditure of mitigation funds would best serve the resources impacted .
- Demonstrating a process by which the mitigation strategy was determined.
- Unique partnership allows for flexibility in solutions for wildlife movement that extend beyond the DOT right of way.



Cross-testing transferability of national mitigation planning tools with California's Regional Advance Mitigation Planning (RAMP) framework on a new pilot region (450 miles of US 101)

## **HIGHWAY 101**

#### **SHRP 2 Project**

## C40 - A

- Develop an integrated, geospatial ecological screening tool
  - Conduct user-needs assessment
  - Work with C40-B team to test the new product

# C40 - B

- Demonstrate workability and value of geospatial tools and data in early stages of long-range transportation planning
- Test the transferability of regional methods by performing the analysis on a new pilot study area.

#### SHRP 2 101 Pilot

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#### C-40 A Ecological Screening Tool

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#### **Regional Advance Mitigation Planning Tools**

C40 – B Pilot

### SHRP2: A California Assessment Methodology

#### **Regional Advance Mitigation Planning (RAMP)**

- Caltrans and Dept. of Water Resources = Infrastructure Agency Leads
- Estimate the mitigation needs early in the timeline
- Consider the environmental impacts of several infrastructure
  projects



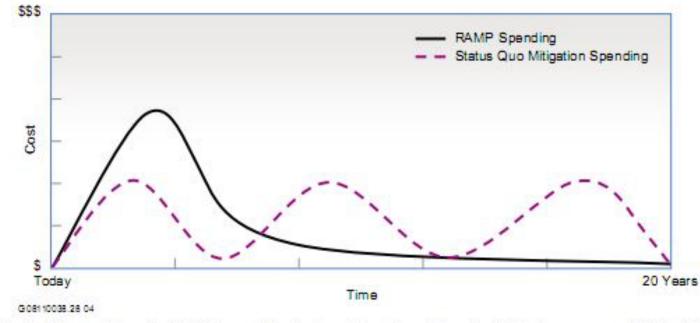
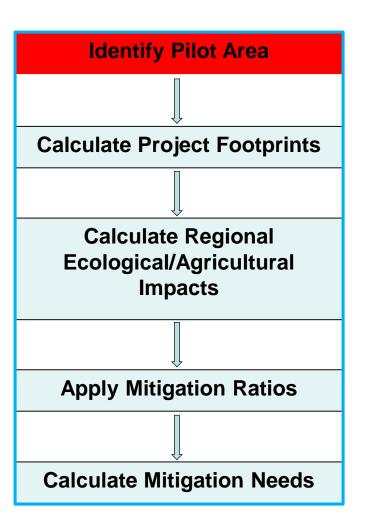


Exhibit 1-1

An Anticipated Benefit of RAMP would be Reduced Cost Over Time for Mitigation

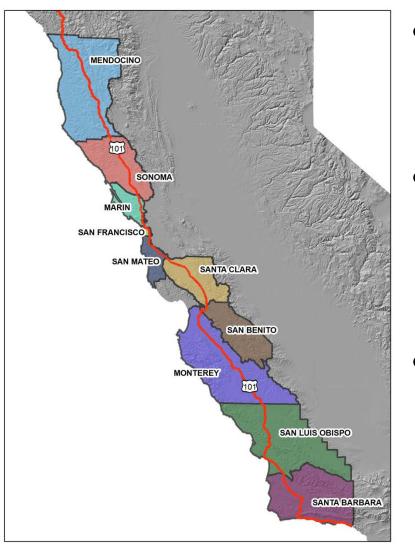
#### Methods



- 2 sets of data needed
  - Transportation projects

- Resource data
- UCD in process of outreach to 4 different districts

## Pilot Area – 450 miles of Highway 101



• District 1: North Coast

- Aquatic impacts
- Bridge retrofits
- District 4: Bay Area
  - Highly urbanized
  - Impacts to personal property, farmland
- District 5: Central Coast
  - Oak woodlands, grasslands, farmland
  - Habitat corridors







Photo by Danel W Bachman