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Integrating Transportation, Ecology, and Sea Level Rise Adaptation into One Design

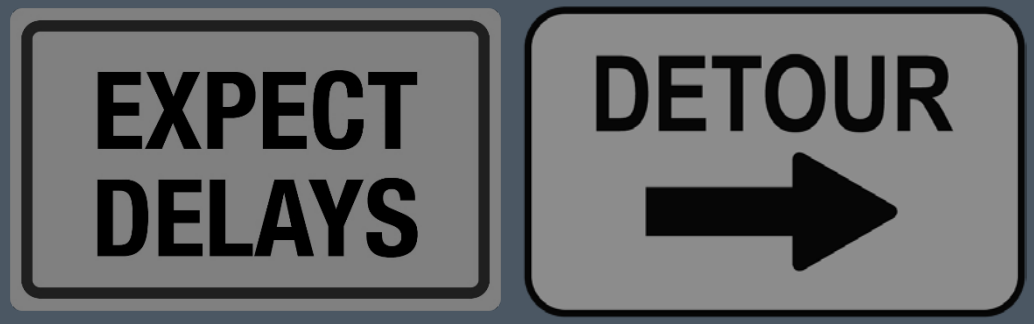
SR 37 Policy Committee
November 2, 2017

Image: San Pablo Bay National Wildlife Refuge, USFWS

MT · NVTA Napa Valley Transportation Authority · scta Sonoma County Transportation Authority · STA Solano Transportation Authority ...working for you! · TAM Transportation Authority of Marin · Caltrans · AECOM · Kimley»Horn · SFEI San Francisco Estuary Institute & the Aquatic Science Center · Aquatic Science Center · Coastal Conservancy

Design Alternative Assessment Aims to Break Delivery Paradigm:

Expedite Operational Project Delivery for Immediate Relief



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SR 37 [SR 121→Mare Island]

Transportation, Ecosystem, & Sea Level Rise Adaptation Project

- A Raised Roadbed That Provides Resiliency to Long Term Sea Level Rise Threat through Year 2100
  - Design for 66” SLR + 100-Year Storm
  - New Elevation: 17’ - 20’ (NAVD 88)
- Ecological Enhancement
  - Wetland Hydrological Connectivity
  - Living Levees that Provide Habitat Opportunities
- Greater Capacity to Address Travel Demand
  - New Managed Lane(s)
- Multimodal and Local Access Improvements
  - Improve Bay Trail/Bike Access
  - Provide Transit Service
  - Intersection and Interchange Improvements at SR 121, Mare Island

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SR-37 Baylands Group
Vision and Guiding Principles

"Integrate infrastructure improvements for SR 37 with existing and future habitat planning, conservation and restoration to ensure healthy ecosystem function and resilience to landscape scale change of the San Pablo Bay."

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One Design, Many Inputs

Transportation

Ecosystem

Sea Level Rise
Adaptation

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Project Goals

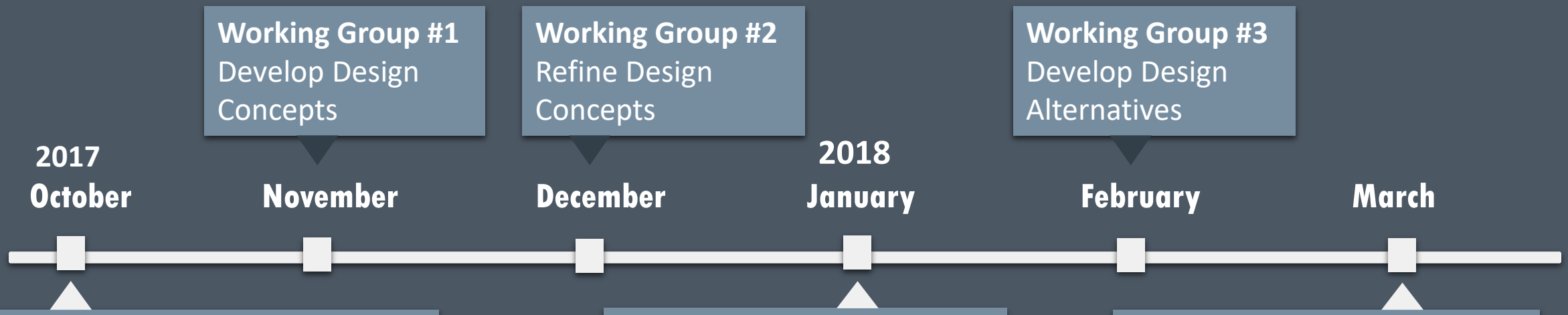
ONE DESIGN

Integrate transportation, ecosystem, and sea level rise adaptation into **one design**

Improve **mobility** across all modes and maintain public access

Increase corridor **resiliency** to storm surges and sea level rise

Environmental Stakeholder Outreach Series



Workshop #1
DAA Goals, Objectives & Design Concepts

Breakout #1
Goals and Guiding Principles

Breakout #2
Key Opportunities & Constraints

Workshop #2
Review Design Concepts Developed by Working Group

Breakout #1
Opportunities and Constraints of Each Design Concept

Workshop #3
Review Design Alternatives Developed by Working Group

Breakout #1
How Do Each Alternative Support Project's Purpose & Need

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SR 37 Environmental Workshop Participants

- Coastal Conservancy
- Sonoma Land Trust
- SF Estuary Institute
- SF Bay Joint Venture
- Ducks Unlimited
- Point Blue
- Marin Audubon Society
- Solano Land Trust
- California Department of Fish and Wildlife
- U.S. Fish and Wildlife Service
- The Nature Conservancy
- BCDC
- SF Bay Regional Board
- Army Corps of Engineers
- National Marine Fisheries Service
- U.S. EPA
- State Lands Commission
- Vallejo Sanitation & Flood Control District
- Caltrans
- Solano Transportation Authority
- Sonoma County Transportation Authority
- Transportation Authority of Marin
- Napa Valley Transportation Authority
- MTC
- Solano County Resource Management
- Alta Planning
- UC Davis

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Image: Chandriga Chandraan