# TRANSPORTATION INFRASTRUCTURE CLIMATE ADAPTATION PLANNING

Caltrans Division of Transportation Planning

California Adaptation Forum

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Leah Fisher

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**WHO WE ARE** 

POLICY & PLANNING ACTION

BEST PRACTICES
& EXAMPLES

**VISION** 



## **CALTRANS ORGANIZATION**

#### **Caltrans:**

Headquarters + 12 District Offices

**HQ Division of Transportation Planning** 

**HQ Division of Environmental Analysis** 

Office of Air Quality and Climate Change

Caltrans Coastal Program

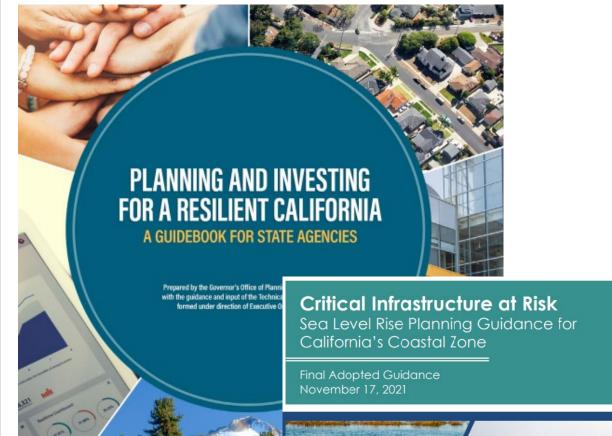


# INSTITUTIONALIZING ADAPTATION AND RESILIENCE

#### State direction and leadership:

- Executive Orders → guidance from Governor's Office of Planning & Research
- State Climate Change Assessments
- Regulatory direction: California
   Coastal Commission (sea level rise)

Caltrans Implementation: Planning for sea level rise and coastal adaptation





#### **CLIMATE ADAPTATION PLANNING**



#### WHERE WE'VE BEEN

Foundational climate planning data needs

**Project Delivery** 

2019 2021



Caltrans Climate Change
Vulnerability Assessments
Foundational data



Climate Change
Adaptation Priority Reports
Preliminary risk prioritization

### Project Planning

Gap identified between assessments and moving into project planning and development

associated staffing needs

### ADAPTATION PLANNING GUIDANCE

GUIDANCE

Ensure consideration of climate hazards and adaptation strategies are considered in all stages of planning + regulatory requirements!

OUTCOME

Key to ensure adaptation strategies and associated climate change costs are incorporated into project planning



#### PLANNING BEST PRACTICES

**ENGAGEMENT** 

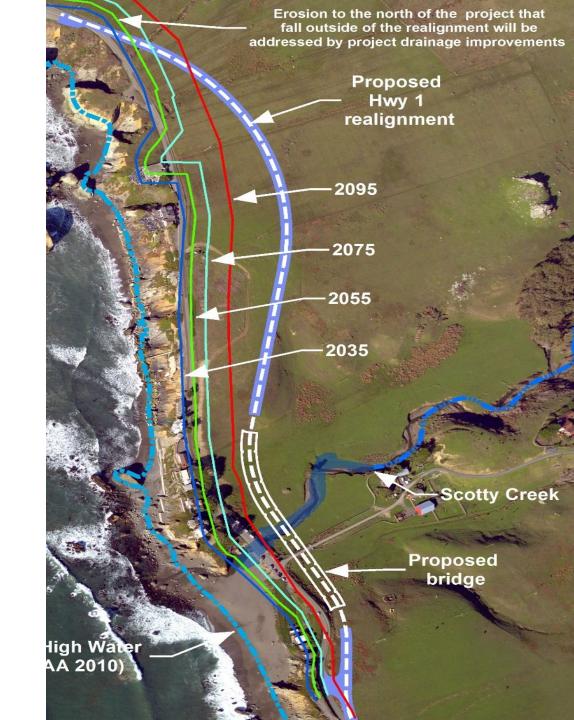
Agencies, users/public

NATURAL RESOURCES

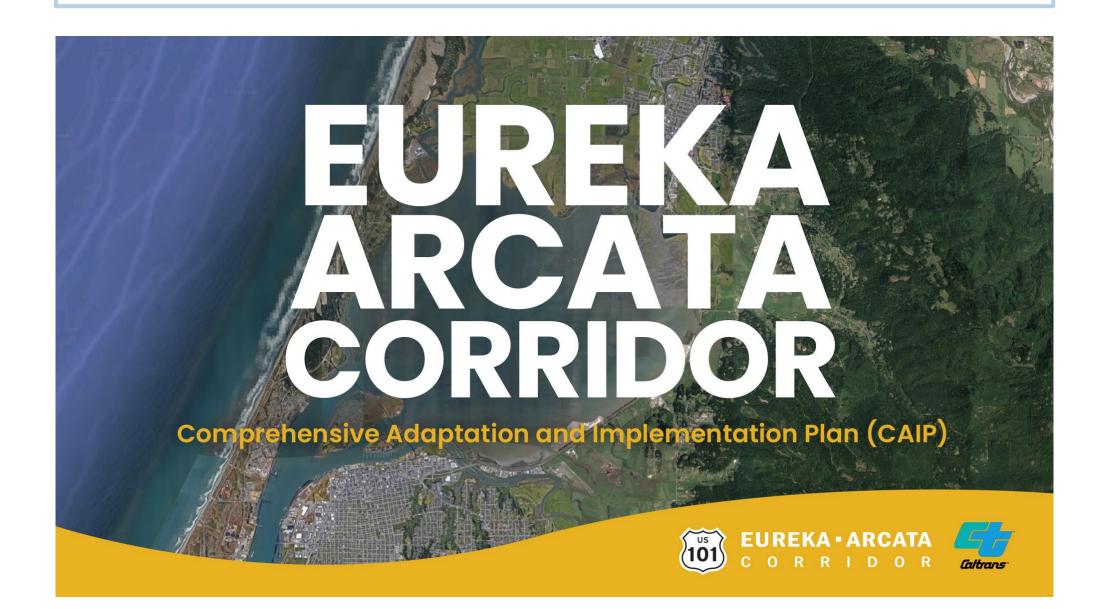
Coastal squeeze (ex: Gleason Beach)

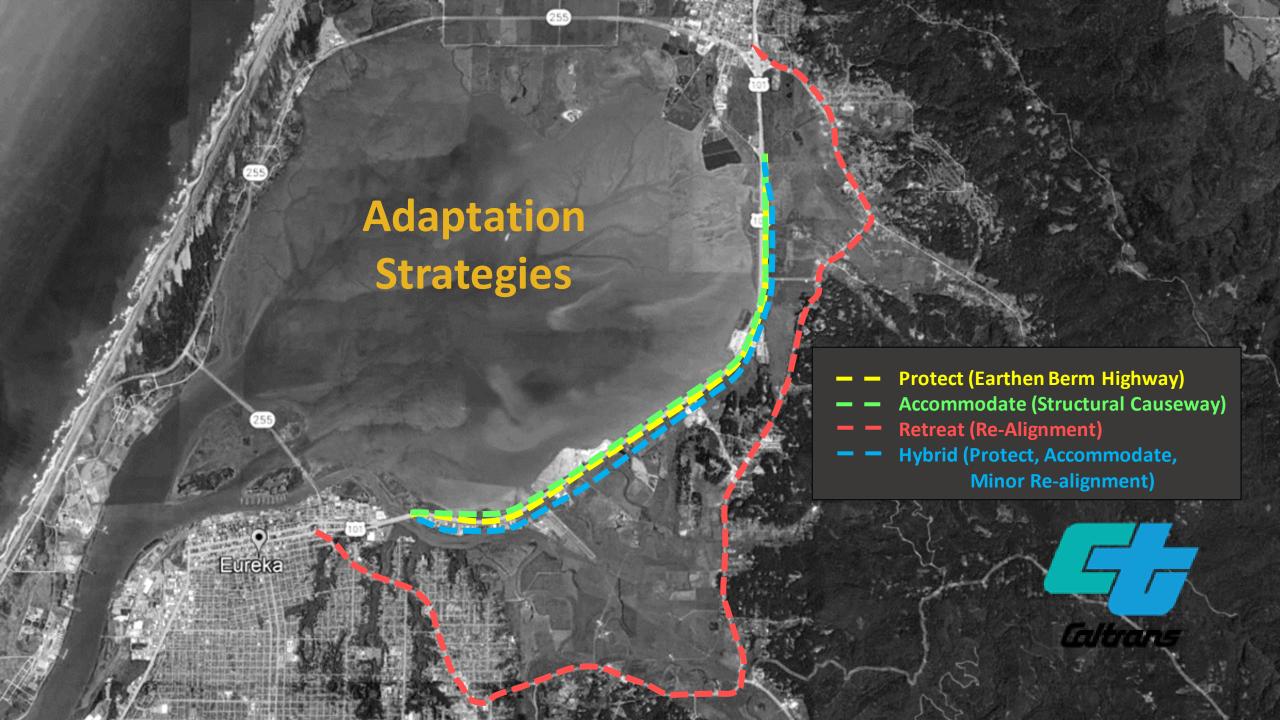
PHASED APPROACHES

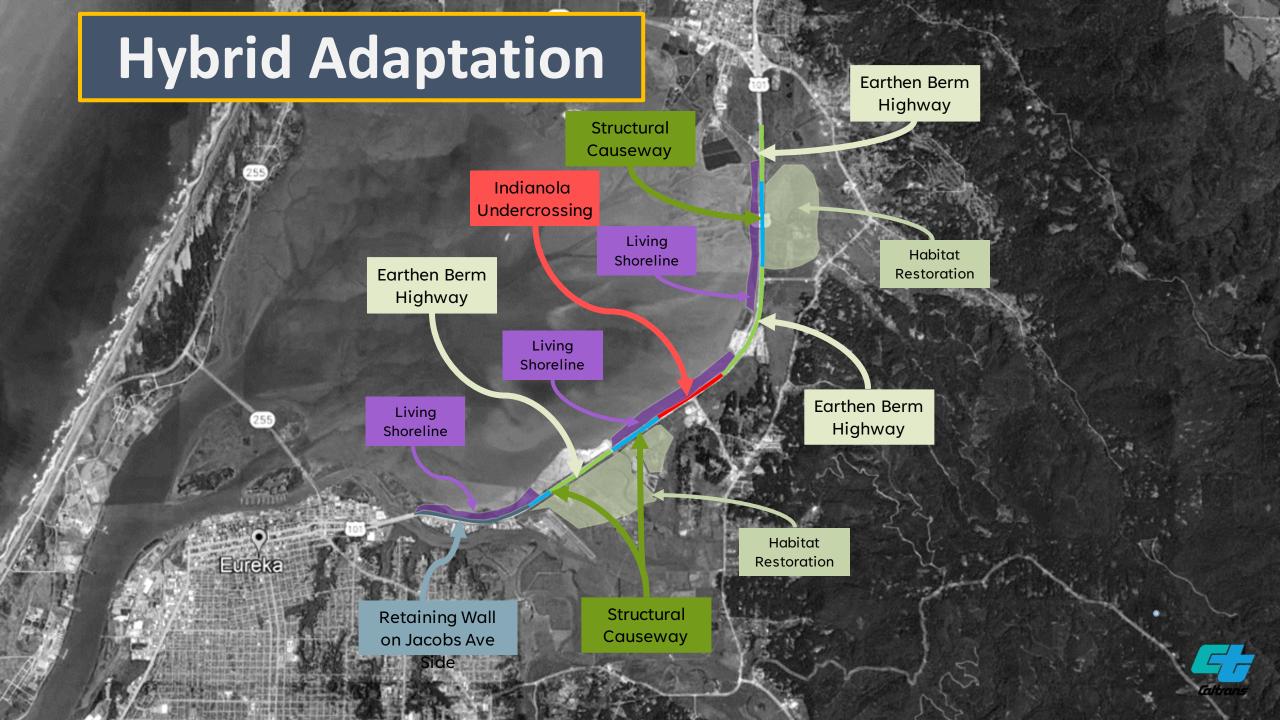
Short-term need vs. long-term solution (ex: Piedras Blancas)



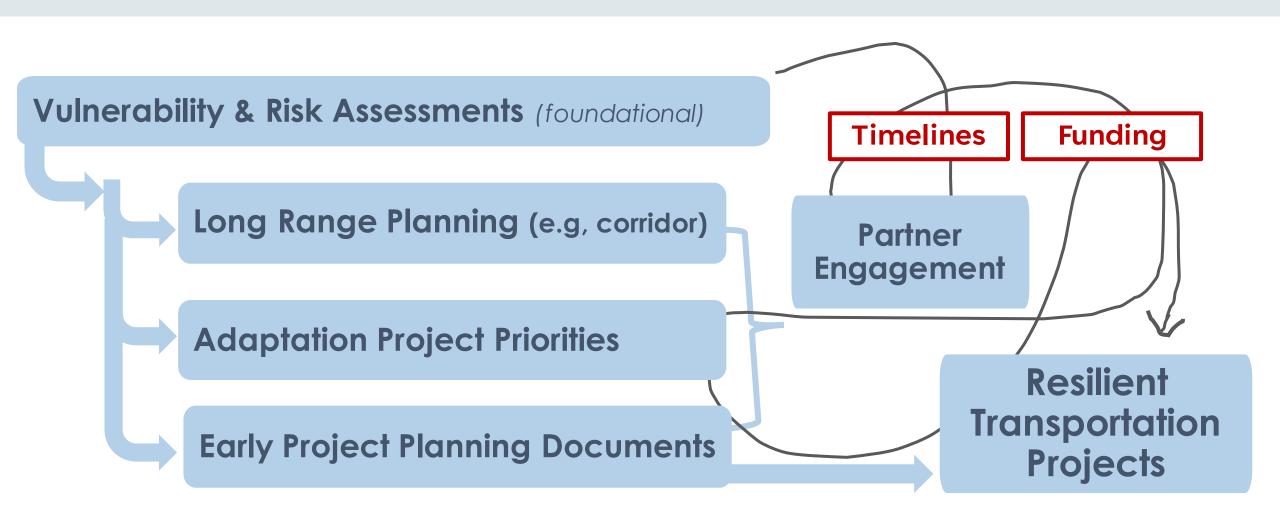
#### CASE STUDY: EUREKA-ARCATA CORRIDOR







## HOW IT ALL TIES TOGETHER → SYSTEM RESILIENCY





## THANK YOU

