AGENDA ITEM 3B - PPT Presentation



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CALTRANS ORGANIZATION

Caltrans:

Headquarters + 12 District Offices

HQ Division of Transportation Planning

Office of Air Quality and Climate Change



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 through Planning:

- Tools
- Guidance
- New funding programs



CLIMATE ADAPTATION TOOLS & GUIDANCE





Climate Change Vulnerability Assessments

- Identify climate vulnerabilities along the State Highway System
- Gain understanding of the magnitude of climate change impacts statewide through the end of the century.
- 3 Key Deliverables: Summary Report, Technical Report, & ArcGIS Webmap



ADAPTATION PRIORITY REPORTS

Risk metrics applied for assets exposed to climate hazards.

- Multiple metrics delivered a final cross-hazard score.
 - **Exposure**: Extensiveness, severity, and timing of a hazard's projected impact on an asset.
 - Consequence: Condition of exposed asset and sensitivity to damage resulting from projected impact.
- Final Product: 12 District-specific reports evaluating risk for assets

ROADWAYS



BRIDGES



CULVERTS



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: identifying
vulnerability and risk

project planning and
development

ADAPTATION PLANNING GUIDANCE

GUIDANCE

Ensure consideration of climate hazards and adaptation strategies are considered in all stages of planning

OUTCOME

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



CASE STUDY: PACIFIC COAST HIGHWAY (PCH) CORRIDOR PLANNING

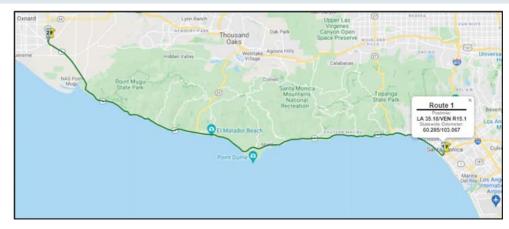


CASE STUDY: PCH CORRIDOR PLANNING

Purpose:

Develop Comprehensive Multimodal Corridor Plan for SR-1:

- Climate-related vulnerabilities along the PCH
- Identify opportunities to enhance complete streets elements
- Provide comprehensive list of adaptation strategies for future implementation



Results: 1) climate change adaptation concepts and strategies;

- 2) conceptual treatment plan utilizing those concepts;
- 3) methodology guide assessing the cost benefit of concepts.

PCH Corridor Plan lead by Caltrans District 7

HOW IT ALL TIES TOGETHER → SYSTEM RESILIENCY



UPCOMING FUNDING OPPORTUNITIES



PROTECT Program & SB 198

Promoting Resilient Operations for Transformative, Efficient, Cost-saving Transportation

PROTECT Formula Funding Program

California: ~\$631 million over 5 years

- •Purpose: Fund activities that assess and address vulnerabilities to current and future weather events and other natural disasters and changing conditions due to climate change.
- •Eligible projects: highways and bridges, public transportation facilities, intercity rail, and port facilities including intermodal connectors.

SB 198: Transportation Climate Adaptation Programs

Created 2 programs to oversee PROTECT funds

Local Transportation Infrastructure Climate Adaptation Project Program:

- Administered by the California Transportation Commission (CTC)
- Oversees local/regional PROTECT funds
- Requires consideration of climate risk and alignment with State adaptation planning guidance

State Transportation Infrastructure Climate Adaptation Program

Sustainable Transportation Planning Grant Program: Climate Adaptation Planning

The Climate Adaptation Planning Grant will allocate \$50 million through a one-time funding cycle in FY 22-23.

- The grants will support:
 - Identification of transportationrelated climate vulnerabilities through development of climate adaptation plans.
 - Project-level adaptation planning to identify adaptation projects and strategies for transportation infrastructure.

• Who May Apply:

- <u>Primary applicants</u>: transit agencies, local, regional, and tribal governments.
- <u>Sub-applicants</u>: the above as well as community-based/non-profit organizations, universities, and other public entities.

• Example Project Types:

- Climate Vulnerability and Risk Assessments
- Planning for Extreme Weather Events & Evacuation
- Resilience Improvement Plans (PROTECT Program)
- Technical Feasibility Studies
- Educational Resources and Training

