



SOUTHERN CALIFORNIA
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REMOTE PARTICIPATION ONLY

RESILIENCE AND CONSERVATION SUBCOMMITTEE

Monday, October 17, 2022
9:00 a.m. – 11:00 a.m.

To Attend and Participate on Your Computer:

<https://scag.zoom.us/j/82486482030>

To Attend and Participate by Phone:

Call-in Number: 1-669-900-6833

Meeting ID: 824 8648 2030

***Please see next page for detailed
instructions on how to participate in the meeting.***

PUBLIC ADVISORY

Given the declared state of emergency (pursuant to State of Emergency Proclamation dated March 4, 2020) and local public health directives imposing and recommending social distancing measures due to the threat of COVID-19, and pursuant to Government Code Section 54953(e)(1)(A), the meeting will be held telephonically and electronically.

If members of the public wish to review the attachments or have any questions on any of the agenda items, please contact Maggie Aguilar at (213) 630-1420 or via email at aguilarm@scag.ca.gov. Agendas & Minutes are also available at: www.scag.ca.gov/committees.

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1. **In Writing:** Submit written comments via email to: ePublicComment@scag.ca.gov by **5pm on Friday, October 14, 2022**. You are **not** required to submit public comments in writing or in advance of the meeting; this option is offered as a convenience should you desire not to provide comments in real time as described below.

All written comments received after 5pm on Friday, October 14, 2022, will be announced and included as part of the official record of the meeting.

2. **In Real Time:** If participating in real time via Zoom or phone, during the Public Comment Period (Matters Not on the Agenda) or at the time the item on the agenda for which you wish to speak is called, use the “raise hand” function on your computer or *9 by phone and wait for SCAG staff to announce your name/phone number. SCAG staff will unmute your line when it is your turn to speak. Limit oral comments to 3 minutes, or as otherwise directed by the presiding officer. For purpose of providing public comment for items listed on the Consent Calendar, please indicate that you wish to speak when the Consent Calendar is called; items listed on the Consent Calendar will be acted on with one motion and there will be no separate discussion of these items unless a member of the legislative body so requests, in which event, the item will be considered separately.

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OUR MISSION

To foster innovative regional solutions that improve the lives of Southern Californians through inclusive collaboration, visionary planning, regional advocacy, information sharing, and promoting best practices.

OUR VISION

Southern California’s Catalyst for a Brighter Future

OUR CORE VALUES

Be Open | Lead by Example | Make an Impact | Be Courageous



Instructions for Participating in the Meeting

SCAG is providing multiple options to view or participate in the meeting:

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2. If Zoom is not already installed on your computer, click “Download & Run Zoom” on the launch page and press “Run” when prompted by your browser. If Zoom has previously been installed on your computer, please allow a few moments for the application to launch automatically.
3. Select “Join Audio via Computer.”
4. The virtual conference room will open. If you receive a message reading, “Please wait for the host to start this meeting,” simply remain in the room until the meeting begins.
5. During the Public Comment Period, use the “raise hand” function located in the participants’ window and wait for SCAG staff to announce your name. SCAG staff will unmute your line when it is your turn to speak. Limit oral comments to 3 minutes, or as otherwise directed by the presiding officer.

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2. Enter the **Meeting ID: 824 8648 2030**, followed by #.
3. Indicate that you are a participant by pressing # to continue.
4. You will hear audio of the meeting in progress. Remain on the line if the meeting has not yet started.
5. During the Public Comment Period, press *9 to add yourself to the queue and wait for SCAG staff to announce your name/phone number. SCAG staff will unmute your line when it is your turn to speak. Limit oral comments to 3 minutes, or as otherwise directed by the presiding officer.

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Resilience and Conservation Subcommittee
Members – October 2022

- 1. Hon. Kathleen Kelly**
Chair, Palm Desert, RC District 2
- 2. Hon. Cindy Allen**
Long Beach, RC District 30
- 3. Hon. David Avila**
Yucaipa, SBCTA
- 4. Hon. Lorrie Brown**
Ventura, RC District 47
- 5. Hon. Margaret Clark**
Rosemead, RC District 32
- 6. Hon. Peggy Huang**
TCA Representative
- 7. Hon. Trish Kelley**
Mission Viejo, OCCOG
- 8. Hon. Anni Marshall**
Avalon, GCCOG
- 9. Hon. Cynthia Moran**
Chino Hills, SBCTA
- 10. Hon. Oscar Ortiz**
Indio, CVAG
- 11. Hon. Nicholas Schultz**
Burbank, AVCJPA
- 12. Hon. Wes Speake**
Corona, WRCOG

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RESILIENCE AND CONSERVATION SUBCOMMITTEE AGENDA

Southern California Association of Governments
Remote Participation Only
Monday, October 17, 2022
9:00 AM

The Resilience and Conservation Subcommittee may consider and act upon any of the items on the agenda regardless of whether they are listed as Information or Action items.

CALL TO ORDER AND PLEDGE OF ALLEGIANCE *(The Honorable Kathleen Kelly, Chair)*

PUBLIC COMMENT PERIOD (Matters Not on the Agenda)

This is the time for persons to comment on any matter pertinent to SCAG's jurisdiction that is **not** listed on the agenda. Although the committee may briefly respond to statements or questions, under state law, matters presented under this item cannot be discussed or acted upon at this time. Public comment for items listed on the agenda will be taken separately as further described below.

General information for all public comments: Members of the public are encouraged, but not required, to submit written comments by sending an email to: ePublicComment@scag.ca.gov by 5pm on Friday, October 14, 2022. Such comments will be transmitted to members of the legislative body and posted on SCAG's website prior to the meeting. Any writings or documents provided to a majority of the Resilience and Conservation Subcommittee regarding any item on this agenda (other than writings legally exempt from public disclosure) are available at the Office of the Clerk, located at 900 Wilshire Blvd., Suite 1700, Los Angeles, CA 90017 during normal business hours and/or by contacting the office by phone, (213) 630-1420, or email to aguilarm@scag.ca.gov. Written comments received after 5pm on Friday, October 14, 2022, will be announced and included as part of the official record of the meeting. Members of the public wishing to verbally address the Resilience and Conservation Subcommittee in real time during the meeting will be allowed up to a total of 3 minutes to speak on items on the agenda, with the presiding officer retaining discretion to adjust time limits as necessary to ensure efficient and orderly conduct of the meeting. The presiding officer has the discretion to equally reduce the time limit of all speakers based upon the number of comments received. If you desire to speak on an item listed on the agenda, please wait for the chair to call the item and then indicate your interest in offering public comment by either using the "raise hand" function on your computer or pressing *9 on your telephone. For purpose of providing public comment for items listed on the Consent Calendar (if there is a Consent Calendar), please indicate that you wish to speak when the Consent Calendar is called; items listed on the Consent Calendar will be acted upon with one motion and there will be no separate discussion of these items unless a member of the legislative body so requests, in which event, the item will be considered separately.



REVIEW AND PRIORITIZE AGENDA ITEMS

CONSENT CALENDAR

1. Minutes of the Meeting – September 19, 2022 PPG. 5

INFORMATION ITEMS

2. Southern California Jurisdictions’ Climate Resilience Landscape Analysis 30 Mins. PPG. 11
(Lorianne Esturas, Assistant Regional Planner, SCAG)
3. Updated Resilience Definition and Expert Panel 80 Mins. PPG. 24
(Kimberly Clark, Planning Supervisor, SCAG)

ANNOUNCEMENTS

ADJOURNMENT



Southern California Association of Governments
Remote Participation Only
October 17, 2022

**MINUTES OF THE MEETING
RESILIENCE AND CONSERVATION SUBCOMMITTEE (RCS)
MONDAY, SEPTEMBER 19, 2022**

THE FOLLOWING MINUTES IS A SUMMARY OF ACTIONS TAKEN BY THE RESILIENCE AND CONSERVATION SUBCOMMITTEE (RCS). AN AUDIO RECORDING OF THE ACTUAL MEETING IS AVAILABLE AT: <http://scag.ig2.com/Citizens/>.

The Resilience and Conservation Subcommittee (RCS) of the Southern California Association of Governments (SCAG) held its meeting virtually (telephonically and electronically), given the declared state of emergency (pursuant to State of Emergency Proclamation dated March 4, 2020) and local public health directives imposing and recommending social distancing measures due to the threat of COVID-19, and pursuant to Government Code Section 54953(e)(1)(A). A quorum was present.

Members Present

Hon. Kathleen Kelly, Chair
Hon. Margaret Clark, Vice Chair
Hon. Cindy Allen
Hon. Lorrie Brown
Hon. Trish Kelley
Hon. Anni Marshall
Hon. Cynthia Moran
Hon. Oscar Ortiz
Hon. Nicholas Schultz
Hon. Wes Speake

Palm Desert
Rosemead
Long Beach
Ventura
Mission Viejo
Avalon
Chino Hills
Indio
Burbank
Corona

District 2
District 32
District 30
District 47
OCCOG
GCCOG
SBCTA
CVAG
AVCJPA
WRCOG

Members Not Present

Hon. David Avila
Hon. Peggy Huang

Yucaipa

SBCTA
TCA

CALL TO ORDER AND PLEDGE OF ALLEGIANCE

The Honorable Kathleen Kelly called the meeting to order at 9:01 a.m. Chair Kelly asked Honorable Oscar Ortiz, Indio, CVAG, to lead the Pledge of Allegiance.

PUBLIC COMMENT PERIOD

Chair Kelly opened the Public Comment Period and outlined instructions for public comments. She noted this was the time for persons to comment on any matter pertinent to SCAG’s jurisdiction that were not listed on the agenda. She reminded the public to submit comments via email to ePublicComment@scag.ca.gov.

The Clerk acknowledged there were no written public comments for items not listed on the agenda.

Seeing no public comment speakers, Chair Kelly closed the Public Comment Period.

REVIEW AND PRIORITIZE AGENDA ITEMS

There was no prioritization of agenda items.

ACTION ITEM

1. Selection of Vice Chair

Chair Kelly opened the Public Comment Period.

Seeing no public comment speakers, Chair Kelly closed the Public Comment Period.

A MOTION was made (Moran) to nominate Margaret Clark, Rosemead, District 32, as Vice Chair. Motion was SECONDED (Clark) and passed by the following votes:

AYES: Allen, L. Brown, M. Clark, Kelley, Kelly, Marshall, Moran, Ortiz, Schultz, and Speake (10)

NOES: None (0)

ABSTAIN: None (0)

INFORMATION ITEMS

3. Proposed Resilience and Conservation Subcommittee Outlook

Chair Kelly opened the Public Comment Period.

Seeing no public comment speakers, Chair Kelly closed the Public Comment Period.

Kimberly Clark, Program Manager II, provided a presentation on the Resilience and Conservation Subcommittee (RCS) Outlook. Ms. Clark's presentation included information on the Connect SoCal 2024 development process, a brief overview of the special subcommittees which will meet 4 times between September 2022 through January 2023, and the role of the RCS. She noted that staff would be seeking recommendations on how Connect SoCal can mitigate and adapt to the impacts of climate and seismic related hazards on our built natural systems and increase our region's resilience. Her presentation also included the proposed goals of the RCS which were to advance the direction set in the SCAG Regional Council Resolution on Climate Change Action to consider opportunities for enhanced resilience and resource conservation, and to develop recommendations on how Connect SoCal can support our communities in adapting to changing conditions or mitigating risks to become more resilient. Lastly, she provided a brief overview of the topics to be discussed in the four meetings which included work planning goals, policy areas of focus and implementation tools, resilience policy discussion and review of the final white paper.

The comprehensive staff report and PowerPoint presentation were included in the agenda packet.

4. Proposed Resilience Definitions

Chair Kelly opened the Public Comment Period.

Seeing no public comment speakers, Chair Kelly closed the Public Comment Period.

Lorianne Esturas, Assistant Regional Planner, provided background information on SCAG's resilience efforts since November 2020, the proposed resilience definition, how it was developed and its connection to SCAG's conservation goals. Ms. Esturas indicated that in defining resilience for SCAG the goal was to create a definition that captured work under SCAG's planning division and could encompass work aimed at building a more resilient region. She also noted that in assessing the definition they asked what SCAG's role was when it came to resilience, how did the definition connect to work within the different planning departments, how did resilience differ from planning in general, and how did SCAG's definition compare to definitions of resilience from other agencies. She explained that to help answer these questions they conducted a series of focus groups and surveys with each of SCAG's planning departments where they sought feedback on the proposed resilience definition, and also worked with staff to identify how resilience was presently factored into SCAG's current and future work. These focus groups spanned a three-week period with analysis and summarization of their findings conducted. From their assessment she indicated that there were some key findings which centered around four main areas which consisted of feedback on the definition itself, understanding the scope or scale of resilience, discussing how resilience can be operationalized into SCAG's work, and brainstorming other applications or approaches to integrating resilience. She also briefly discussed the connection between resilience and

conservation noting that one of their goals under Connect SoCal 2020 centered on promoting conservation of natural and agricultural land and the restoration of habitats. Lastly, she provided a brief overview of the Regional Resilience Framework to which SCAG committed to exploring new challenges in the region to help move Southern California towards a more sustainable future. She also noted that it was a two-year study aimed to define regional resilience and understanding the impacts of shocks and stressors across the region, all while conducting meaningful outreach engagement and an exploratory scenario planning process in supporting implementation of Connect SoCal strategies.

RCS members provided input on the resilience definition and suggested adding language to quickly or effectively respond and to address the timeliness of them being able to recover. Members also expressed that staff did a great job with the resilience definition.

The comprehensive staff report and PowerPoint presentation were included in the agenda packet.

5. Overview of Resilience and Conservation Goals, Policies, and Strategies from Connect SoCal 2020

Chair Kelly opened the Public Comment Period.

Seeing no public comment speakers, Chair Kelly closed the Public Comment Period.

Emily Rotman, Assistant Regional Planner, provided an overview of how resilience and conservation shows up in Connect SoCal 2020, SCAG's adopted Regional Transportation Plan/Sustainable Communities Strategy, as well as some additional context on SCAG's existing policy foundation for resilience and conservation. She explained that resilience and conservation were key themes throughout Connect SoCal and helped to realize the plan's vision to advance the region's economic vitality, improve mobility options and grow in a sustainable way that builds healthy and vibrant communities. Her presentation was focused on how connect SoCal addressed climate and natural hazards as well as the region's resources that are affected by climate change, and how balanced conservation of those resources can help us build climate resilience and support future growth. She explained that both resilience and conservation were embedded in many of Connects SoCal's core goals which were to: 1) enhance the preservation, security and resilience of the regional transportation system; 2) reduce greenhouse gas emissions and improve air quality; 3) support healthy and equitable communities; 4) adapt to a changing climate and support an integrated regional development pattern and transportation network; and 5) promote conservation of natural and agricultural lands and the restoration of habitats. She also noted that resilience and conservation also show up in many of Connects SoCal's guiding principles which focus the plan goals and provide a specific direction for plan investments. She further explained that the plan includes guiding principles to assure that land use and growth strategies recognize local input, promotes

sustainable transportation options, support equitable and adaptable communities, as well as encourage investments that reduce congestion and the use of single occupancy vehicles. Additionally, the plans guiding principles related to transportation and mobility prioritize funding projects and programs that improve mobility, accessibility, reliability and safety, preserve systems and expand travel choices, improve air quality and public health, and reduce greenhouse gas emissions. The plan also includes more process focused guiding principles that can support resiliency and conservation, such as monitoring progress, reflect the best-known science on climate change, and designing for long term resilience. She briefly addressed Connect SoCal 2020 strategies in land use and sustainable development, transportation and mobility and equity and environmental justice. She also reported that another piece of Connect SoCal was the Program Environment Impact Report (PEIR) which analyzes the potential region wide impacts of the plan and puts forward mitigation measures to help address those impacts. She indicated that many of the mitigation measures in the PEIR can help them build resiliency and address conservation. She briefly explained the mitigation measures in wildfire, water, greenhouse gases, agriculture and forestry, biological resources, and other areas that show resilience and conservation like diversion of solid waste such as recycling and composting programs.

RCS members provided input and suggested: 1) a clear definition of the term congestion; 2) a statement on VMT, which overall is a good thing to focus on, but there needed to be an understanding that one size does not fit all; 3) addressing public transportation that can move people around and focus on economic development; 4) creating incentives or investing money into regional workforce development boards to help address issues about where jobs are being placed, how jobs are being invited into cities, where the workforce primarily lives, where offices or warehouses end up establishing, and how that affects transit and where people drive to; 5) looking at solar equity for disenfranchised communities with possible neighborhood solar farms for those who maybe own their homes and don't have enough money that are on a fixed income; 6) looking at underground electrical lines, notifications for seniors, hot and cold shelters during heat and extreme cold; 7) the establishment of regional water authorities that lean in on legislative solutions for water rights and tables and legal assistance for cities with multiple owners of major basins; 8) having a neighborhood specific master plan that cities can adopt for their own plans; 9) emphasizing the importance of native planting to help reduce water use, improve biodiversity and help local wildlife; 10) help disadvantaged communities by providing solar and a financial benefit; 11) keeping an eye on hydrogen vehicles and the advancements in hydrogen; and 12) the importance of looking at unintended consequences.

The comprehensive staff report and PowerPoint presentation were included in the agenda packet.



ANNOUNCEMENTS

Hon. Cynthia Moran reported that Cal State Fullerton Arboretum would be hosting a lecture on the Chaparral wildfires from 4:00 p.m. to 5:00 p.m. tomorrow [September 20] which was an in-person event.

ADJOURNMENT

There being no further business, Chair Kelly adjourned the Meeting of the Resilience and Conservation Subcommittee at 10:14 a.m.

[MINUTES ARE UNOFFICIAL UNTIL APPROVED BY THE RCS]

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Southern California Association of Governments
Remote Participation Only
October 17, 2022

To: Resilience and Conservation Subcommittee (RCS)

EXECUTIVE DIRECTOR'S
APPROVAL

From: Lorianne Esturas, Assistant Planner
(213) 236-1853, esturas@scag.ca.gov

Subject: Southern California Jurisdictions' Climate Resilience Landscape Analysis

RECOMMENDED ACTION:

Information Only – No Action Needed

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians.

EXECUTIVE SUMMARY:

As part of Meeting 1 of the Subcommittee on Resilience and Conservation, SCAG staff provided an overview of the SCAG’s draft definition of resilience and internal assessment to gather information on current and potential program areas incorporating resilience. Building upon SCAG’s unanimously adopted Climate Change Action Resolution (Resolution 21-628-1) and the subsequent actions to develop a Regional Resilience Framework, SCAG conducted a Climate Resilience Landscape Analysis to study how resilience is currently reflected within policies, plans, and/or strategies for local jurisdictions across the SCAG region. In partnership with Climate Resolve and Estolano Advisors, the Climate Resilience Landscape Analysis aimed to (1) understand the status of resilience planning across the region; (2) identify common “resilience focus areas” across SCAG jurisdictions; and (3) explore opportunities to engage and ground-truth the climate resilience landscape findings with community partners.

BACKGROUND:

The Climate Resilience Landscape Analysis (Landscape Analysis) study kicked off in June 2021 and continued through March 2022. The primary purpose of the Landscape Analysis was to gather an inventory of past and current climate resilience planning efforts for local jurisdictions across the SCAG region, with the following project goals:

- Understand the status of resilience planning across the region;
- Identify common “resilience focus areas” across jurisdictions; and

- Explore opportunities to engage and ground-truth the study's resilience findings with community partners.

The study included review of resources from 191 jurisdictions and two tribal communities within the SCAG region to capture information on the status of climate resilience planning efforts across the region. The study involved extensive review of climate action/adaptation plans; sustainability and resilience plans; local hazard mitigation plans; general plans, specifically legislative compliance related to climate adaptation and resilience strategies; and emergency operations and management plans. Findings from the study were consolidated into a matrix of climate resilience focus areas and identified common shocks and stressors.

Following completion of the study, key deliverables included a summary report on climate resilience planning efforts across the region and recommendations on next steps to ground-truth the study's findings with community, local, and regional partners. SCAG staff and Climate Resolve will share these findings. Work under the Landscape Analysis helps support development of the Regional Resilience Framework (RRF), an effort to anticipate a wide range of potential futures and strengthen the resilience and preparedness of the SCAG region.

Staff from SCAG's consultant for the effort, Climate Resolve, will present findings from the study as well as information on another non-SCAG funded study – the Inland Southern California Landscape Report:

1. Kris Eclarino is the Technical Project Manager at Climate Resolve. His work for Climate Resolve includes reviewing municipal climate adaptation strategies, conducting analyses using climate datasets to identify climate-vulnerable municipalities, and researching the impacts of extreme heat and wildfire smoke on vulnerable worker populations. He utilizes analytical skills and technical skills (in ArcGIS, R, and STATA) throughout his work. He holds a Master of Public Policy from the University of California, Los Angeles
2. Michelle Baron is currently a consultant with Climate Resolve and has also previously worked with the organization as a co-facilitator of the Inland Southern California Climate Collaborative (ISC3). She lives in the Inland Empire and graduated from UC Riverside with a Master's in Public Policy and B.S. in Sustainability Studies.

FISCAL IMPACT:

Work for this effort was funded under SCAG's Fiscal Year 2020-2021 and 2021-2022 Overall Work Program (OWP) under project 065.4858.01 (Regional Resiliency Analysis).



ATTACHMENT(S):

1. PowerPoint Presentation - Resilience Landscape Analysis and Inland Southern California Landscape Report

Resilience Landscape Analysis and Inland Southern California Landscape Report

SCAG: Resilience and Conservation Subcommittee

Kristopher Eclarino and Michelle Baron

Climate Resolve

October 17, 2022

www.scag.ca.gov



Regional Resilience Framework: Resilience Landscape Analysis

Connect SoCal Commitments

- Define “resilience”
- Understand the impacts of disruptions (shocks/stressors) across the region
- Conduct meaningful outreach & engagement



Resilience Landscape Analysis



Resilience Landscape Analysis

Project Goals:

- Identify Resilience Focus Areas (RFAs)
- Conduct Gap Analysis on Resilience Planning
- Recommendations/Next Steps

Key Deliverables:

1. Matrix Spreadsheet of “Resilience Focus Areas” (RFAs) & Potential Shocks/Stressors
2. Gap Analysis of Resilience Planning Efforts Report
3. Next Steps Summary Report



RFA Analysis & Matrix

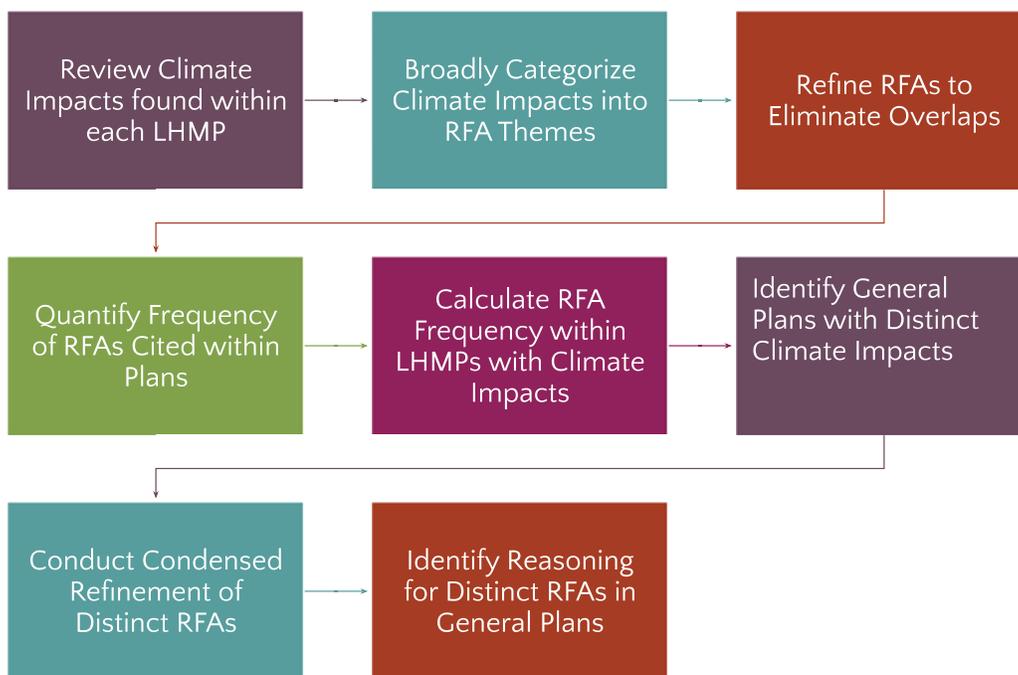
Task 2.2: RFA Analysis & Matrix (SCAG region)

County	Municipality	Name, title, affiliation, contact information of key staff	Municipality has a standalone climate, sustainability, and/or resilience plan?	Plan that includes climate action integration?	Plan that includes climate adaptation?	What departments and stakeholders were involved in creating this plan?	Municipality has a Local Hazard Mitigation Plan (LHM) or other created by City or from the County?	When was LHM last updated?	Does LHM account for climate change?	If updated for climate, did climate impacts relevant?	Updated General Plan per SB 279 & SB209?	SB 279 integration reference to LHM General Plan later?
San Bernardino	Azusa	Frank Allen Planning Director Tel: (951) 246-1100 x 1118	No	No	No		No				No	No
Los Angeles	Agoura Hills	Denise Thomas, Community Development Director Tel: (818) 397-7311 dthomas@agourahills.org	No	No	No	City of Agoura Hills	Yes	2018 (LA, Virginia/Malibu COCs) NO LHM	Yes	Temperature Rise, Water, Drought, Wildfire, Sea Level Rise	No	No (reference)
Los Angeles	Arroyo	Paul Lam, Principal Planner Tel: (818) 570-5234 plam@cityofarroyo.org	No	No	No	City of Arroyo	No				No	No (reference)
Orange	Ashe Valley	Olivia Taylor oliataylor@cityofashevally.com	No	No	No		No				No	No
Orange	Aviation	Ted Winkler, Planning Director Tel: (714) 700-2112 tedwinkler@aviation.net	No	No	No		Yes	2021 (Aviation LHM)	Yes	Flood, Wildfire, Drought	No	No
San Bernardino	Apple Valley	Daniel Alkoush, Planning Manager Tel: (951) 240-7000 x 7225 dalkoush@cityofapplevalley.org	Yes	Yes	No	Item Departments - Financial and Environmental and Regulatory Compliance Southern California Edison Southwest Gas Corporation California Victor Valley Transit Agency	Yes	2021 (City of Apple Valley)	Yes	Flood, Wildfire	No	Yes (reference)

RFA Analysis & Matrix

- **Study area:**
 - SCAG region (191 cities, 2 tribal communities)
- **Compilation of climate-related resilience planning efforts**
 - CAPs & CAAPs
 - Sustainability Plans
 - Resilience Plans
 - LHMPs
 - General Plans (SB 379, SB 1035, SB 1000)
 - Emergency Operations/Management Plans
- **Climate Strategies**
- **State & Local Climate Resources**
- **RFA Analysis Statistics**

RFA Analysis & Matrix: Methodology

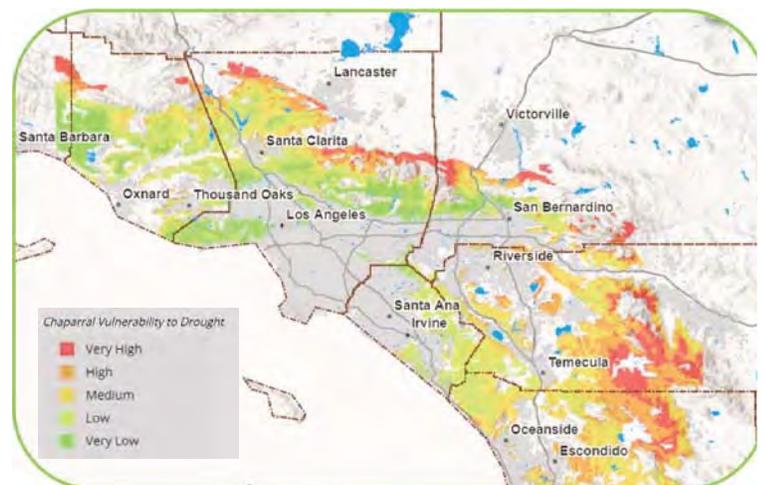


RFA Analysis Findings: Resilience Planning Across the Region

- 86 out of 193 (45%) jurisdictions adopted a standalone climate, sustainability, and/or resilience plan
 - 30 of the 86 plans include adaptation strategies
- 141 out of 193 (73%) jurisdictions adopted an LHMP (either local or multijurisdictional)
 - 105 of the 141 adopted an LHMP accounting for climate change impacts
- 19 out of 193 (10%) jurisdictions updated General Plans per SB 379 & SB 1035
 - SB 379 requires Safety Elements to be updated to address climate risks by 2022
 - SB 1035 expands Safety Elements to also be updated upon revision to the Housing Element or LHMP
- 104 out of 193 (54%) jurisdictions have DACs (Cal EnviroScreen 4.0)
 - 17 of the 104 adopted environmental justice goals, policies, and objectives
 - 10 of the 17 updated General Plans per SB 1000

RFA Analysis Findings: Common RFAs Across the Region (most to least common)

- Drought
- Flood
- Wildfire (wildfire & urban fire)
- Extreme Heat
- Non-heat-related Severe Weather
- Sea Level Rise
- Tsunami
- Infrastructure Failure
- Coastal Erosion



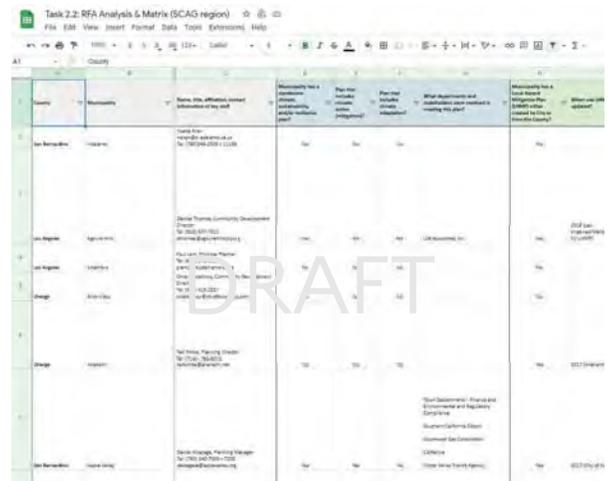
RFA Analysis Findings: Climate-related Shocks & Stressors to the Region

Shocks	Stressors
<i>Sudden or acute events that threaten immediate safety and well-being</i>	<i>Chronic challenges that weaken natural, built, or human resources</i>
<ul style="list-style-type: none"> • Avalanche • Drought • Earthquake • Extreme Cold • Extreme Heat • Flood • Hazard Material Release • Infrastructure Failure • Landslide • Non-heat-related Severe Weather 	<ul style="list-style-type: none"> • Access & Function Needs Population • Access to Open Space • Age Dependency Ratio • Aging Infrastructure • Car-less Households • Economic Security • Educational Attainment • Female Head of Household • Food Insecurity • Foreign Born

Key Takeaways & Next Steps

- **Key Takeaways:**
 - Most frequently cited RFAs in LHMPs & GPs are drought, flood, and wildfire
 - Further analysis is needed to identify connections between RFAs
- **Next Steps:**
 - QA/QC RFA findings & analysis
 - Summarize Resilience Planning Efforts by County
 - Lessons learned & stakeholder outreach

**Anticipated release:
Spring 2022**



Landscape Analysis Report for the Inland Southern California Region

- Overview of the Region
- Overview of Climate Impacts
- Climate Preparedness Planning
- Climate Action in the Region
- Funding and Financing Climate Preparedness
- Get Involved - Next Steps



→ Overview of the Region

- ◆ Imperial, Riverside, and San Bernardino Counties
- ◆ Demographics & Economy
 - Hispanic or latino population is 50% or higher in each county and high percentage of Spanish speakers
 - Economy highly reliant on agriculture and logistics industry. High percentage (~30%) of outdoor workers in each county

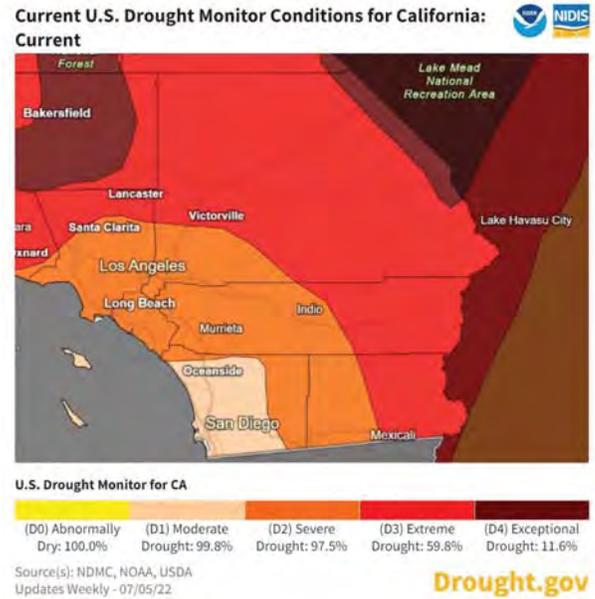


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#usca90062

→ Overview of Climate Impacts

- ◆ **Air quality**
 - San Bernardino & Riverside County ranked 1st and 2nd for the worst ozone pollution in the nation
 - Imperial, Riverside, and San Bernardino Counties were among the fourteen counties that received a failing grade for all three measures of pollution (Daily PM, Annual PM, and Ozone)
- ◆ **Heat**
 - increase of extreme heat days, daily maximum temperatures, heat waves
- ◆ **Drought**
 - Each county is expected to see extended periods with little to no precipitation
- ◆ **Flooding**
 - Each county is projected to see more frequent flooding events
- ◆ **Landslides**
 - Riverside and San Bernardino counties are projected to see an increase in the probability of landslides
 - Since Imperial County is generally flat the probability of landslides are not considered a major hazard
- ◆ **Wildfires**
 - Each county may be expected to see an increase in annual average area burned and risk of a wildfire occurring



→ Climate Preparedness Planning – Status of planning in the Inland Southern California region

SB 379 (2016): Climate Adaptation and Resiliency strategies

- Imperial County and Riverside County both have adopted County Multi-Jurisdictional Hazard Mitigation (MJ HMP) plans in compliance with SB 379.
 - **Imperial County:** All 7 cities participated in the creation and adoption of the County's MJ HMP
 - **Riverside County:** All 28 municipalities participated in the creation and adoption of the County's MJ HMP
- **San Bernardino County** has an adopted MJ HMP, which serves only the unincorporated areas within the county.
 - 17 out of 24 municipalities in San Bernardino County have adopted their own Local Hazard Mitigation Plan to account for climate change impacts.

SB 1000 (2016): Environmental Justice strategies

- Across the Inland Southern California region, **62% of municipalities are identified to have DAC census tracts.**
- Out of the 37 municipalities to have DAC census tracts within their jurisdiction, only **27%** of them have updated their General Plans to comply with SB 1000.

→ Climate Action in the Region

- ◆ **Warming and Cooling Centers** – locations open to the public to shelter from extreme weather events, locations usually found within a city’s website
- ◆ **Air Quality**
 - *Imperial County Community Air Monitoring Project* – air monitoring network that makes community-level air quality data available in real-time to residents
- ◆ **Urban Greening**
 - *GrowRIVERSIDE* – includes a co-work learning center, training & workforce development, education programs, a community garden, a community gathering & event space, solar greenhouses (43k sq ft), & new farmer & agricultural technology incubation programs
- ◆ **Adaptation**
 - *Resilient IE Toolkit* – comprehensive document bridging the San Bernardino County and Western Riverside County Vulnerability Assessments, Adaptation Strategies, Hazard & Evacuation Maps, & Resilience Guidebook. Also led to the creation of the Inland Southern California Collaborative (ISC3)

→ Climate Action in the Region

- ◆ **Land Use**
 - *Map of Warehouse Growth (Redford Conservancy)* – animated map showing warehouse growth in Riverside & San Bernardino Counties from 1975-2021
- ◆ **Transportation**
 - *Coachella Valley (CV) Link* – 40-plus-mile bicycle, pedestrian, & low-speed electric vehicle pathway that is being built largely along the Whitewater River, extending from Palm Springs to Coachella
- ◆ **Transformative Climate Communities**
 - *Ontario Together* – development program that includes modern affordable housing, multimodal transportation, an urban greening program, an expansive rollout of solar energy, a small business incubator & workforce career training

→ Funding and Financing Climate Preparedness

- ◆ Planning and Implementation programs
- ◆ Best Practices for Grant Writing
- ◆ Grant Writing Assistance Programs within the Region

IMPACT	STRATEGIC
<ul style="list-style-type: none"> • Does it serve our target population? • Does it have a clear impact? • Do we have strong ties in the project community? • Is the effort better with us than without? • Would another organization be a better fit? If so, should we partner with them? 	<ul style="list-style-type: none"> • Does it have the ability to be a landmark program / have a wow factor? • Does it serve our mission? • Is it strategic for future growth (or a one-off)? • Is it multi-year?
WINNABILITY	IMPACT ON THE ORGANIZATION
<ul style="list-style-type: none"> • Can we meet the deliverables in a timely manner? • Do we have the knowledge and ability in-house? • How competitive are we? • Do we want to work with this funder? 	<ul style="list-style-type: none"> • Do we have the available staff time / capacity? • Is there money that is worth the effort and from a reputable funder? • Are we allowed to claim credit and advertise this project? • Do we acquire new skills? • How much effort does the application require? • Will we get paid quickly and efficiently?



→ Get Involved-Next Steps

- ◆ Inland Southern California Climate Collaborative (ISC3)

→ Next Steps – in the case of a future version

- ◆ Identify county-specific impacts (such as impact on air quality) related to the logistics industry
- ◆ Reach out to CBOs to identify areas through which they can collaborate, share ideas, and help shape the next iteration of the report
- ◆ Provide an updated snapshot of federal, state, and private grant opportunities to support climate related projects
- ◆ Inclusion of California Public Utilities Commission (CPUC) Disadvantaged Vulnerable Communities (DVCs), which require special attention for climate adaptation purposes when utilities begin making
- ◆ Infrastructure, operations and services changes as part of their climate adaptation efforts
- ◆ Include land use and landscape. Noting conservation areas and land itself is important in discussing climate
- ◆ Water quality and supply

→ Anticipated release Fall 2022

Thank You!

Questions?

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Southern California Association of Governments
Remote Participation Only
October 17, 2022

To: Resilience and Conservation Subcommittee (RCS)

EXECUTIVE DIRECTOR'S
APPROVAL

From: Lorianne Esturas, Assistant Planner
(213) 236-1853, esturas@scag.ca.gov

Subject: Updated Resilience Definition and Expert Panel

RECOMMENDED ACTION:

Information Only – No Action Required

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians.

EXECUTIVE SUMMARY:

During the September 19th meeting of the Connect SoCal 2024 Resilience and Conservation Special Subcommittee, SCAG staff presented the draft “resilience” definition developed as part of a staff-led effort under the SCAG Resilience Policy Lab. The “resilience” definition aims to encapsulate existing and potential SCAG work areas to integrate resilience into Connect SoCal 2024. The draft “resilience” definition set the foundation for SCAG staff to establish a shared understanding on resilience for considerations relating to Connect SoCal 2024 and has been updated based on feedback from the Subcommittee.

BACKGROUND:

As a foundational step to developing a Regional Resilience Framework and to guide SCAG’s ongoing resilience efforts, the SCAG Resilience Policy Lab developed the following proposed definition of resilience through a collaborative and iterative process:

“The capacity of the SCAG region's built, social, economic and natural systems to anticipate and respond to changing conditions, acute shocks, and chronic stressors by creating multiple opportunities for a sustainable, thriving and equitable future.”

This definition benefits from a survey of resilience studies conducted by agencies throughout the United States and Canada, as well as academic articles on the topic.

In the resilience policy space, shocks and stressors are key factors to consider in resilience, and are commonly defined as:

- *Shocks – Sudden and acute events that threaten immediate safety and well-being*
- *Stressors – Chronic challenges that weaken natural, built, or human systems and resources*

Following discussion of the definition at the September 19th Resilience and Conservation Subcommittee meeting, staff revised the resilience definition to the following:

“The capacity of the SCAG region's built, social, economic and natural systems to anticipate and effectively respond to changing conditions, acute shocks, and chronic stressors by creating multiple opportunities for a sustainable, thriving and equitable future.”

The Resilience Policy Lab continues to serve as a staff-led forum for integrating resilience into Connect SoCal 2024 and support efforts of the Connect SoCal 2024 Resilience and Conservation Subcommittee.

As a means of exploring resilience in the context of the region’s built, social, economic, and natural systems, the following speakers will discuss the implications of resilience in the context of future growth:

1. **Leah Fisher** is the Office Chief for Air Quality and Climate Change at Caltrans (CA DOT), in the Division of Transportation Planning. The office was created in 2021 to elevate and strengthen the integration of climate change considerations into all Caltrans planning efforts and implementation. Leah leads the development of tools and guidance to support climate adaptation planning in Caltrans’ districts, and is leading implementation of the new FHWA PROTECT Program for Caltrans. Prior to joining Caltrans, Leah was the Senior Advisor for Research & Innovation at the California Strategic Growth Council and Governor’s Office of Planning & Research, where she provided guidance on integrating climate science into a variety of policy efforts, contributed to the State’s Fourth Climate Change Assessment, and managed two grant programs that centered racial justice and equity in advancing research and planning. Leah joined the State of California after five years supporting federal agencies in Washington, DC, including the U.S. Department of Energy and the National Oceanic and Atmospheric Administration. Attachment 2 contains materials for this presentation.
2. **Rutger de Koning and Robert Mens** are with Bouwinvest Real Estate Investors, which manages real estate portfolios in the Netherlands and abroad. Bouwinvest has been an international leader in assessing how their real estate investments are impacted by climate change and in identifying mitigation strategies that can help the private sector adapt to climate hazards and reduce uncertainty in real estate investments.

3. **Charles Wilson** serves as Executive Director and CEO of the Southern California Water Coalition (SCWC), a nonprofit, nonpartisan, public education partnership between cities, counties, business, industry, agriculture, and water agencies dedicated to securing reliable, affordable, quality water for Southern California. The SCWC - established in 1984 - is a nonprofit, nonpartisan public education partnership dedicated to informing Southern Californians about water needs and the state's water resources. Through measured advocacy, SCWC works to ensure the health and reliability of Southern California's water supply. Spanning Los Angeles, Orange, San Diego, San Bernardino, Riverside, Ventura, Kern and Imperial counties, SCWC's approximately 200 member organizations include leaders from business, regional and local government, agricultural groups, labor unions, environmental organizations, water agencies, as well as the general public. Mr. Wilson has been a leading public affairs professional in Southern California for more than 30 years and is a recognized leader in the industry. He has spent the past 25 years in the electric utility industry with Southern California Edison where he led the development and implementation of third-party strategic planning and communication efforts and aligned company interests with local, state, and federal government officials and agencies. He also serves as principal owner of PC Consulting Services Inc, a consulting firm dedicated to providing strategic counsel, public affairs, government relations and communications to public agencies, private sector business clients and non-profits.

4. **Dr. Qinjin Liu** is an interdisciplinary artist and scientist who studies the connection between water, energy, and agriculture with climate change. She has published several peer-reviewed international articles examining these issues in California. She spent twenty years of her career at the State of California's Natural Resources Agency, both at the Department of Water Resources and the Department of Fish and Wildlife. Her climate and art-science works have been selected for international and national exhibitions including National Science Museum in Taipei, California Art Center Museum, Crocker Art Museum, Duluth Art Museum, Yosemite National Park, America Ecology Conference, and universities in Asia and US (<http://www.drqliu-artscience.com/>).

FISCAL IMPACT:

Work for this effort is funded in SCAG's Fiscal Year 2022-2023 Overall Work Program (OWP) under project 290.4896.01 (Regional Resiliency Analysis).

ATTACHMENT(S):

1. PowerPoint Presentation - Updated Resilience Definition and Expert Panel Overview
2. PowerPoint Presentation - Caltrans



Revised Resilience Definition & Expert Panel

October 17, 2022

WWW.SCAG.CA.GOV

Revised "Resilience" Definition

The capacity of the SCAG region's built, social, economic and natural systems to anticipate and effectively respond to changing conditions, acute shocks, and chronic stressors by creating multiple opportunities for a sustainable, thriving and equitable future.

Focus of Resilience & Conservation Subcommittee Meeting #2



Resilience Examples for Built, Economic, and Natural Systems

Panel of Experts



Leah Fisher
Office Chief for Air Quality
and Climate Change,
Caltrans



Rutger de Koning
Product Owner for GIS &
Building Information Modeling,
Bouwinvest Real Estate
Investors



Charles Wilson
Executive Director,
Southern California
Water Coalition



Dr. Qinqin Liu
Environmental Scientist,
Biologist and
Interdisciplinary Artist



THANK YOU!

For more information, please visit:

<https://scag.ca.gov/>

CLIMATE ADAPTATION AT CALTRANS

DIVISION OF TRANSPORTATION PLANNING

SCAG Resilience & Conservation Subcommittee

October 2022

Leah Fisher

CONTENTS OF THIS PRESENTATION

WHO WE
ARE

TOOLS &
GUIDANCE

ADAPTATION
CASE STUDY

UPCOMING
FUNDING
OPPORTUNITIES



CALTRANS ORGANIZATION

Caltrans:

Headquarters + 12 District Offices

HQ Division of Transportation Planning

Office of Air Quality and Climate Change



Attachment: PowerPoint Presentation - Caltrans (Updated Resilience Definition and Expert Panel)

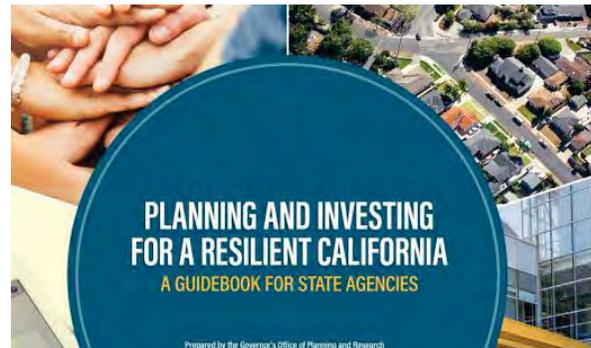
INSTITUTIONALIZING ADAPTATION AND RESILIENCE

State direction and leadership:

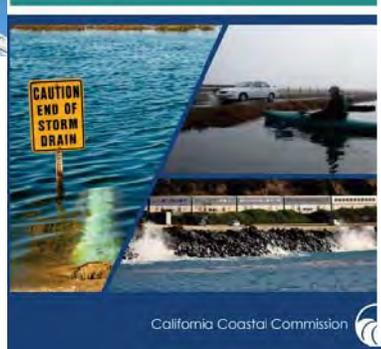
- Executive Orders → guidance from Governor's Office of Planning & Research
- State Climate Change Assessments
- Regulatory direction: California Coastal Commission (sea level rise)

Caltrans Implementation through Planning:

- Tools
- Guidance
- New funding programs



Critical Infrastructure at Risk
Sea Level Rise Planning Guidance for California's Coastal Zone
Final Adopted Guidance
November 17, 2021



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

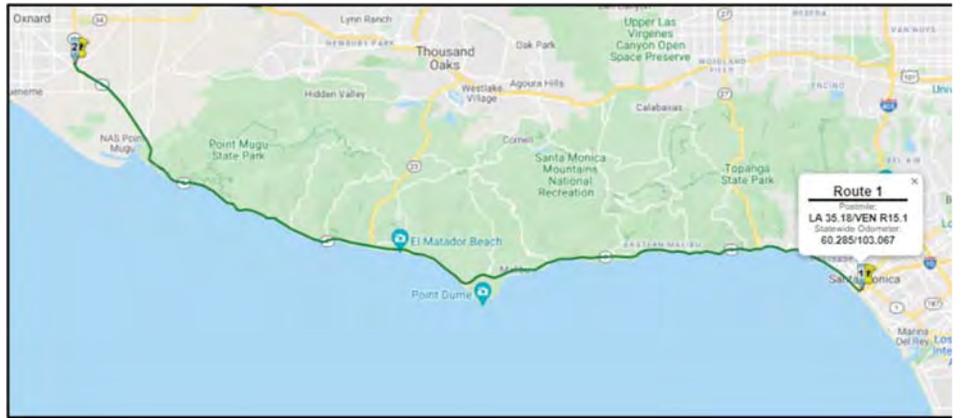


CASE STUDY: PCH CORRIDOR PLANNING

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

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 transportation-related climate vulnerabilities through development of climate adaptation plans.
 - Project-level adaptation planning to identify adaptation projects and strategies for transportation infrastructure.

• Who May Apply:

- Primary applicants: transit agencies, local, regional, and tribal governments.
- Sub-applicants: 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



THANK YOU

Leah Fisher

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