



ARCCA Learning Session

Safeguarding California

2018 Update



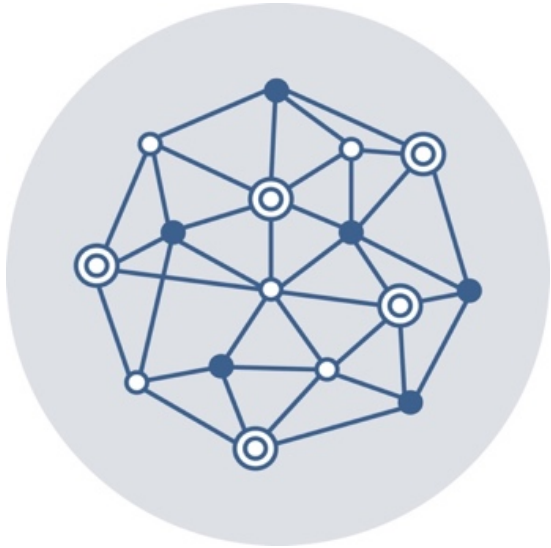
Friday, March 9th | 1:00 – 2:00 PM PST

Learning Session Agenda

- Webinar Logistics
- Brief overview of ARCCA
- Safeguarding California Presentation
- Participant Q&A
- Closing remarks

About ARCCA

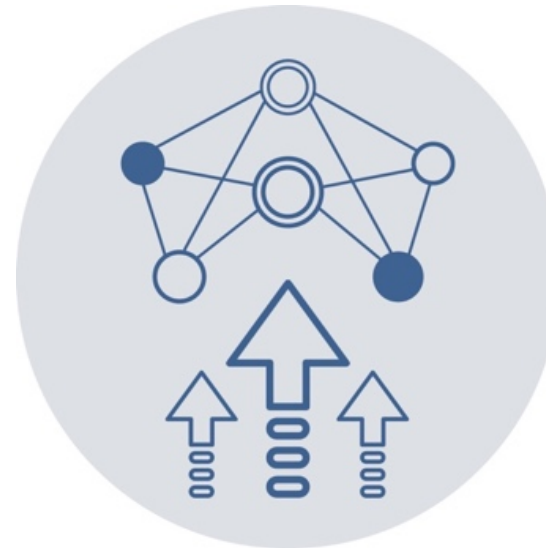
A network of leading regional collaboratives from across California that work together to advance adaptation statewide and increase local capacity to build community resilience.



Peer-to-Peer Network



Knowledge Exchange

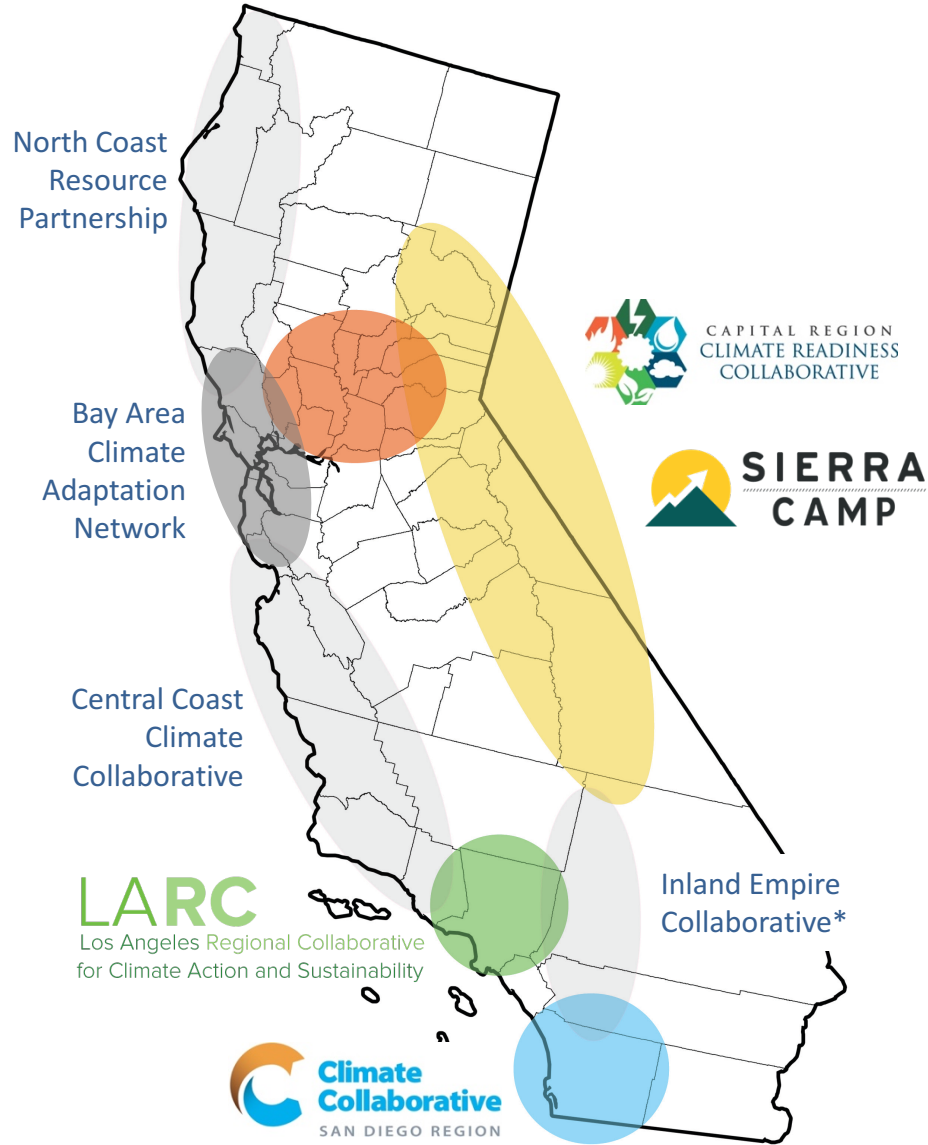


Emerging Collaboratives



State Engagement

ARCCA Members



Coordinator



Local Government Commission
Leaders for Livable Communities

State Liaison



Affiliates



Four Twenty Seven
Climate Solutions



Point Blue
Conservation Science



The California State University
OFFICE OF THE CHANCELLOR

GEORGETOWN
CLIMATE CENTER





Keali'i Bright

Deputy Secretary for Climate and Energy
California Natural Resources Agency



Joey Wall

Special Assistant for Climate Change
California Natural Resources Agency



Nuin-Tara Key

Resilience Program Manager
Governor's Office of Planning and Research

SAFEGUARDING CALIFORNIA: 2018 UPDATE



California's Climate Adaptation Strategy

Keali'i Bright, *Deputy Secretary for Climate and Energy*
California Natural Resources Agency

Joey Wall, *Special Assistant for Climate Change*
California Natural Resources Agency

Nuin-Tara Key, *Resilience Program Manager*
Governor's Office of Planning and Research

THE SAFEGUARDING CALIFORNIA PLAN ANSWERS 2 QUESTIONS:

1 WHAT ARE WE
DOING?

2 WHAT WILL WE
DO?



TO ADAPT TO CLIMATE IMPACTS



Acceleration of
warming across
the state



Accelerating sea
level rise



More severe
storms and
extreme weather
events



More intense and
frequent heat
waves



More intense and
frequent drought



Shrinking
snowpack and
less overall
precipitation



Greater riverine
flows



More severe and
frequent wildfires



Ocean
acidification,
hypoxia, and
warming

SHARED VISION FOR A RESILIENT CALIFORNIA

All people and communities respond to changing average conditions, shocks, and stresses in a manner that minimizes risks to public health, safety, and economic disruption and maximizes equity and protection of the most vulnerable.

Natural systems adjust and maintain functioning ecosystems in the face of change.

Infrastructure and built systems withstand changing conditions and shocks, including changes in climate, while continuing to provide essential services.

Government managers take climate change adaptation into account in all aspects of their work.

CALIFORNIA'S ADAPTATION STRATEGY

CLIMATE RESEARCH

California's Fourth
Climate Change
Assessment

OEHHA's Indicators of
Climate Change in
California

STATE POLICIES, PLANS, & PROGRAMS

SAFEGUARDING CALIFORNIA

Planning and Investing for a Resilient California:
A Guidebook for State Agencies

INTEGRATED LOCAL AND REGIONAL ACTION

OPR's Integrated Climate
Adaptation and Resiliency
Program

OPR's General Plan
Guidelines

ORGANIZATION OF THE PLAN



PRINCIPLES TO SAFEGUARD CALIFORNIA FROM CLIMATE CHANGE



CLIMATE JUSTICE

Social Systems and the Built Environment



EMERGENCY MANAGEMENT



ENERGY



LAND USE AND COMMUNITY DEVELOPMENT



PUBLIC HEALTH



TRANSPORTATION

Natural and Managed Resource Systems



AGRICULTURE



BIODIVERSITY AND HABITAT



FORESTS



OCEAN AND COAST



WATER



PARKS, RECREATION, AND CALIFORNIA CULTURE

38 LEAD AND SUPPORTING AGENCIES



INTRODUCTION Natural Resources Agency, *with support from OPR*



EMERGENCY MANAGEMENT Governor's Office of Emergency Services, *with support from CDPH*



ENERGY Energy Commission, *with support from DGS, CPUC*



TRANSPORTATION California Department of Transportation, CalSTA, HSR



PUBLIC HEALTH Office of Health Equity, *with support from CalEPA, OEHHA, CHHS, CDFA, CDPR, CAL FIRE, CalOES, CEC, SCC, CPUC, DWR, DTSC, HCD, OPR, OPC, State Water Board, Caltrans, CSD*



LAND USE AND COMMUNITY DEVELOPMENT Department of Housing and Community Development, Office of Planning and Research, *with support from Strategic Growth Council, CNRA*



AGRICULTURE California Department of Food and Agriculture, *with support from DOC, CalRecycle*



BIODIVERSITY AND HABITAT Department of Fish and Wildlife, *with support from DPR, SNC, WCB*



FORESTS Department of Forestry and Fire Protection, CNRA, *with support from CDFW, SNC*



WATER Department of Water Resources, State Water Resources Control Board, *with support from CNRA, DSC*



OCEAN AND COAST OPC, CNRA, *with support from BCDC, CDFW, SLC, DPR, CCC, SGC, DSC, DWR, SCC, State Water Board*



PARKS, RECREATION, AND CA CULTURE Natural Resources Agency, *with support from Regional Conservancies, SCC, CCC, DPR, OHP, SLC*

INTEGRATION ACROSS CHAPTERS

EM-2 | Enhance preparedness and coordination to address climate change impacts and inform emergency management policy.

A fundamental component of emergency management is effective interagency coordination across sectors and disciplines before, during, and after disasters. Preparedness and coordination mitigate damage from disasters and emergencies, including those events exacerbated by climate change. CalOES utilizes ad hoc and recurring advisory bodies to help guide the challenges of coordination across agencies on complex issues.

NEXT STEPS

- EM-2.1.** Improve integration of climate impacts and adaptation strategies into all phases of emergency management.
- EM-2.2.** Coordinate across agencies and levels of the emergency management sector to document mitigation efforts that achieve community and climate resilience.
- EM-2.3.** Develop and expand mechanisms and pathways to increase climate awareness and investments in resilience in all areas of the emergency management sector.
- EM-2.4.** Train and credential emergency management personnel within Cal OES, state government, and across



Click on chapter icons to redirect to related recommendations in other chapters

ADDITIONAL FOCUS ON EQUITY



Goal 1 Actively engage, educate, and partner with communities to enable early, continuous, and meaningful participation in adaptation initiatives.

Goal 2 Identify the most vulnerable communities to climate change to prioritize initiatives and build grassroots capacity.

Goal 3 Support and coordinate adaptation efforts across jurisdictions and policy areas to maximize community resilience.

Goal 4 Promote holistic approaches to climate adaptation that maximize co-benefits and economic development.

Goal 5 Make equity an integral consideration for climate research.



REAL WORLD EXAMPLES



Climate Justice

Climate Resilience Planning Among California Native American Tribes

With funding from the California Public Utilities' Electric Program Investment Charge, the Tribe developed a low-carbon, community-scale microgrid with a 500-kW solar array, a 1-MWh Tesla battery storage system, and a Siemens microgrid management system.



Transportation

Highway 1 Piedras Blancas Realignment

The California Department of Transportation (Caltrans) has realigned 2.8 miles of Highway 1 in northern San Luis Obispo County up to 475 feet inland of the original alignment to protect the route from severe coastal erosion exacerbated by the effects of climate change. The project will protect the highway for the next 100 years and provide access for vehicles, bicycles and pedestrians.



TRACKING PROGRESS

SUMMER 2018



Release report to track
implemented actions in
Safeguarding California
2018 Update and previous
climate adaptation plans

PROCESS



LOOKING FORWARD

AUGUST 2018

Fourth Climate Change Assessment

Climate-Safe Infrastructure Recommendations

California Adaptation Forum

SEPTEMBER 2018

Global Climate Action Summit

Natural and Working Lands Implementation
Plan



LAND USE AND COMMUNITY DEVELOPMENT

Example: Stormwater Capture at Katella High School



L-1

Develop innovative governance models and equitable public engagement strategies to engage residents, especially vulnerable and disadvantaged communities, to be sustainable and resilient.

L-2

Provide technical support, guidance, and capacity building to implement climate adaptation initiatives in local, regional, tribal, and state governments and communities.

L-3

Coordinate state laws, regulations, guidelines and policies to promote climate resilience and hazard avoidance and mitigation through local, regional and state planning.

L-4

Integrate economic development initiatives with programs designed to bolster resilience.

L-5

Ensure a coordinated and robust strategy is implemented across state, regional, local, and tribal governments to the state's most vulnerable populations and disadvantaged communities.

L-6

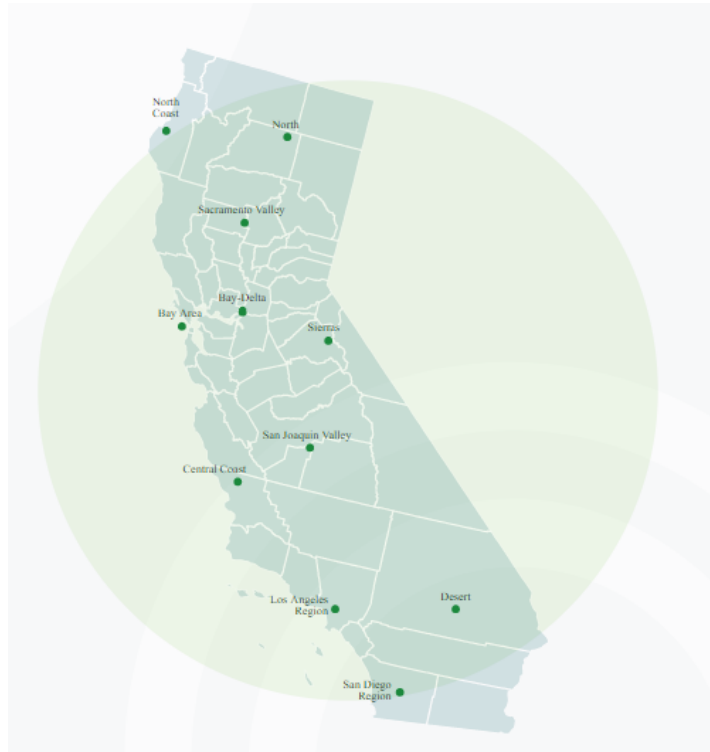
Provide financial assistance to promote investment in climate adaptation through land use and community development.

BETA ADAPTATION CLEARINGHOUSE

Topics

Map Viewer

Tools, Datasets, &
Research

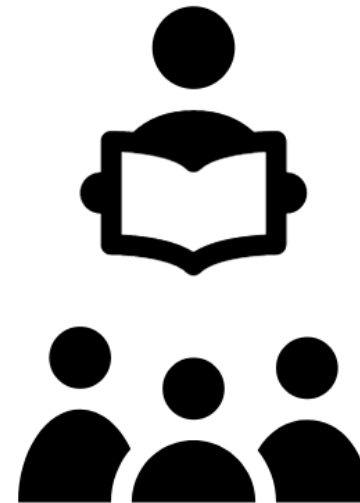


BETA ADAPTATION CLEARINGHOUSE

Case studies



Climate stories



“Together, we will come together to transform our world and make it truly livable, sustainable and utterly human for the rest of our descendants and those who are here to follow.”

*GOVERNOR EDMUND G.
BROWN*



THANK YOU

Keali'i Bright,

Deputy Secretary for Climate and Energy
California Natural Resources Agency

Joey Wall,

Special Assistant for Climate Change
California Natural Resources Agency

Nuin-Tara Key

Resilience Program Manager
Governor's Office of Planning and Research



Thank You!

- Safeguarding California Plan: 2018 Update
 - resources.ca.gov/docs/climate/safeguarding/update2018/safeguarding-california-plan-2018-update.pdf
- Upcoming ARCCA Learning Sessions
 - Cost-Benefit Analysis for Sea Level Rise Scenarios (3/21)
 - Navigating Coastal Resilience Strategy Development (3/30)
 - Adaptation Clearinghouse Beta Testing (4/18)
 - Learn more at arccacalifornia.org/resources/learning-sessions/
- New ARCCA Resources
 - 2018 Legislative Tracking: arccacalifornia.org/2018-legislative-tracking/
 - Roadmap to Transportation Resilience: arccacalifornia.org/roadmap-to-resilience/