

# THE CALIFORNIA NEVADA ADAPTATION PROGRAM



The California Nevada Adaptation Program (CNAP) work focuses on research that supports decision makers at local and regional scales to prepare communities for local-level actions to address extreme weather and natural hazards. This emphasis on preparedness provides opportunities to reduce costly damages from weather extremes that can devastate communities and economies. Part of NOAA's Climate Adaptation Partnership Program, we are a nonpartisan public service that protects families, supports infrastructure, and strengthens local economies in California and Nevada.

## IMPACTS

California and Nevada will be increasingly impacted by extreme heat, wildfire and smoke, flooding, drought, and coastal flooding. These climate impacts intersect and will strain the region's communities and economies. CNAP is working to create a network of scientists, local institutions, and community members to help create a resilient and prosperous region.

## APPROACH

CNAP's approach to climate resilience is built on three key pathways — convening and connecting, co-produced research, and catalyzing solutions. These pathways are supported by four core tenets: knowledge-to-action partnerships, mental/physical health, extreme weather preparedness, and regional resiliency.

## PARTNERING INSTITUTIONS:

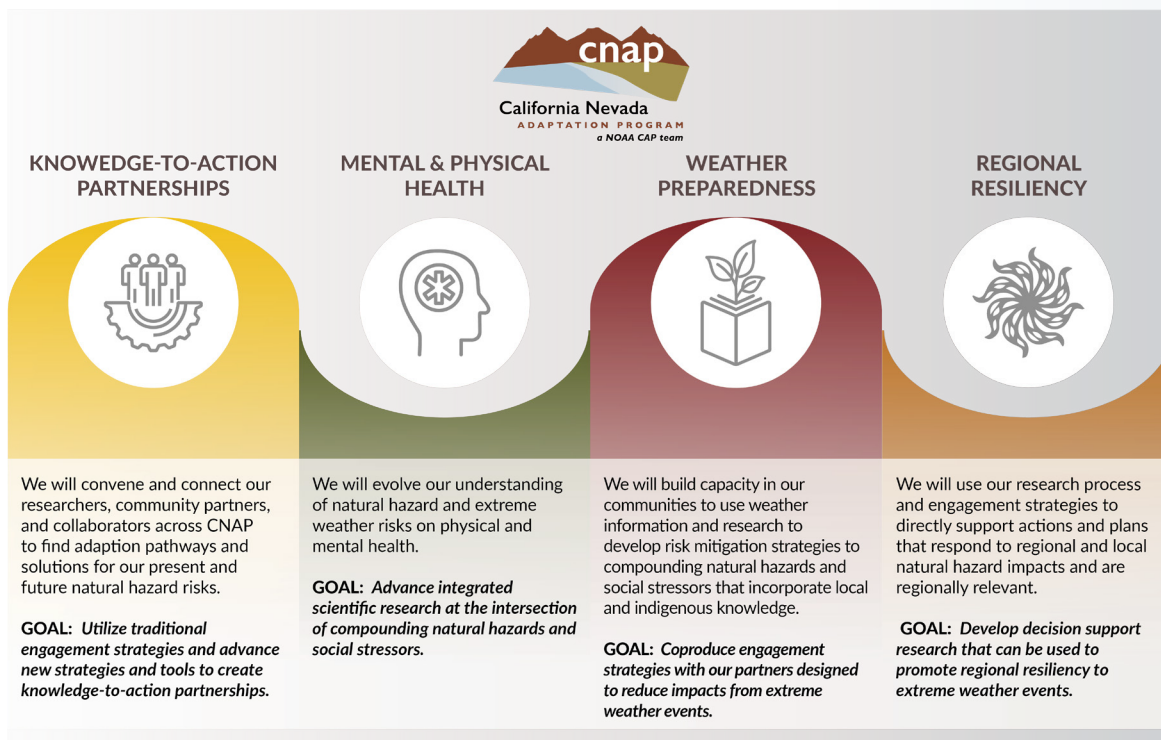
- DRI
- Scripps Institution of Oceanography, UCSD
- University of California, Merced
- University of Nevada, Reno
- University of Nevada, Las Vegas
- Kern Community College District
- Climate Science Alliance

## PROJECTS

Our multi-disciplinary team focuses on the region's acute natural hazard impacts: extreme heat, wildfire smoke, coastal flooding, and water scarcity. Five core research projects work with community partners to leverage local knowledge to promote adaptation approaches:

## MISSION

To improve weather preparedness in California and Nevada by providing decision makers usable research through integrating cutting-edge physical and social science.



### The Nevada Heat Lab (NHL)

- NHL will grow the capacity for Nevada to increase heat resilience in communities by implementing effective adaptation.
- Brings together local agencies and community organizations with researchers who assist in designing potential solutions.

### Building Water Resiliency through Climate Information and Workforce Development in the San Joaquin Valley

- Addresses the variability of California's water supply and the changing water policy landscape in one of the nation's most agriculturally productive regions.
- This project centers local technical and educational staff from the Kern Community College District and the Central Mother Lode Regional Consortium of community colleges in creating a local knowledge-to-action pathway for water resource use, management, and adaptation.

### Evaluating Nature-Based Solutions for Coastal Adaptation in Southern California

- Explores how solutions and Dynamic Adaptation Pathway Planning can reduce coastal flooding and erosion that threatens some of the West Coast's most heavily accessed beaches.
- Indigenous communities maintain their connection to these coastal places and resources and are leading dialogue about coastal resources stewardship.
- This project will demonstrate how interdisciplinary knowledge can better support coastal cities and agencies to start making investments in adaptation actions.

### Supporting Household Health Adaptation to the Compound Events of Extreme Heat and Wildfire Smoke

- Addresses household tradeoffs between cooling and wildfire smoke exposure in communities that lack or are financially unable to operate traditional air conditioning.
- This project will increase the opportunities for achieving optimal household health outcomes in Northern Nevada and California related to the compound events of extreme heat and wildfire smoke.

### Building Capacity through Reciprocity with Tribal Communities

- Through the Climate Science Alliance's Tribal Working Group, support Indigenous involvement in CNAP activities by identifying Tribal research priorities and center the co-production of that research through fellowships, compensation for Indigenous science consultants, and funding for Tribal-led projects.
- Bring together researchers and partners to address local adaptation challenges and solutions. All projects recognize the critical importance of incorporating local and traditional knowledge in project processes, outputs, and outcomes.

### CONTACTS:

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