

Technical Advisory Council Quarter 3 Meeting

Integrated Climate Adaptation and Resiliency Program

August 22, 2025, 10:00am



CA Governor's Office of
**Land Use and
Climate Innovation**

Agenda

1. Roll Call & Housekeeping
2. Approval of Draft Meeting Minutes
3. TAC Member Report Out
4. ICARP Updates and Staff Report
5. TAC Vice-Chair
6. Nature-Based Solutions State Targets and Context Setting
7. Case Study: Urban Forestry
8. Case Study: Sequoia Riverlands Trust
9. Case Study: Healthy Soils
10. Labor and Climate Intersections
11. The Nature Conservancy: Nature-Based Solutions Funding and Governance
12. Implementing Nature-Based Solutions in the Eastern Sierra
13. General Public Comment
14. Closing and Meeting Adjourned



Item 1 | Roll Call & Housekeeping



Zoom Support

- For virtual attendees, technical support and other questions can be asked in the Q&A function on Zoom.
- You can also reach Sam Magill by email for technical support:
s.magill@csus.edu



Item 2 | Approval of Draft Meeting Minutes



Item 2 | Public Comment



ACTION

Approve the meeting minutes from the ICARP Technical Advisory Council 2nd Quarter Meeting on May 16th, 2025.



Item 3 | TAC Member Report Out



CA Governor's Office of
Land Use and
Climate Innovation

TAC Member Report Out

- California Department of Public Health Update -
Linda Helland



Item 3 | Discussion

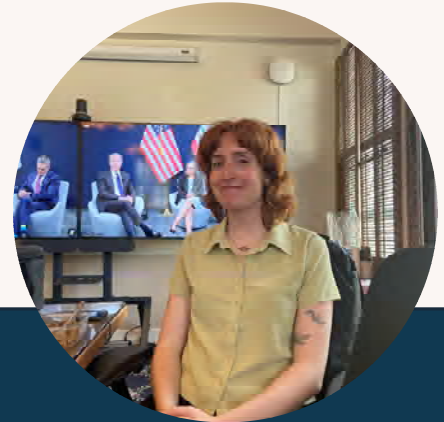


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Item 4 | ICARP Programmatic Updates and Staff Report



Thank you, Azura!



Welcome New Staff!



Sierra Woodruff
TAC Manager



Rowena Bush
Assistant
Adaptation and
Resilience Planner



Jessica McCool
Research
Engagement
Associate

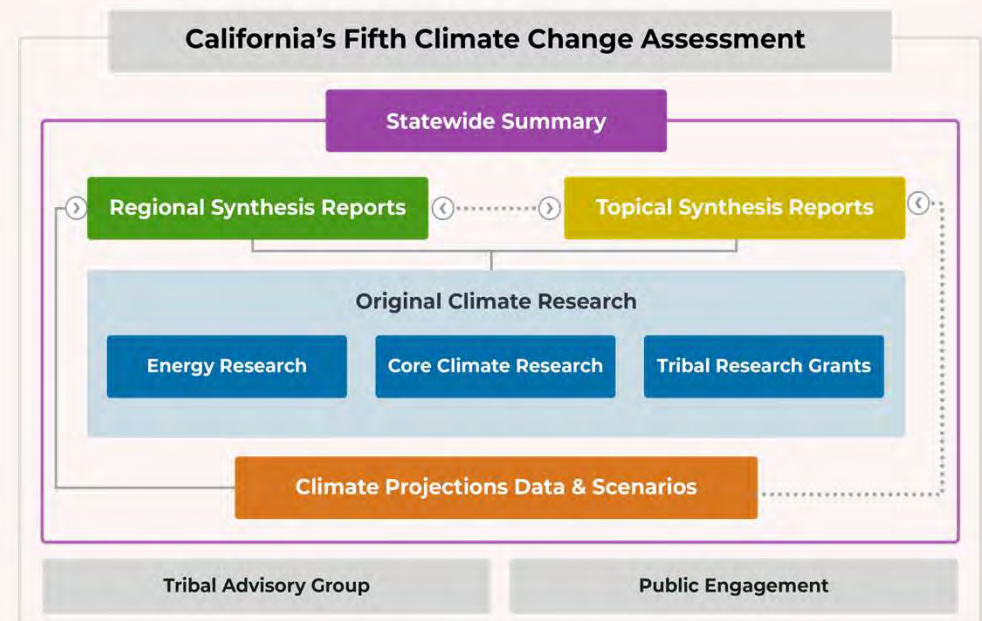


Guido Franco
Special Advisor



Updates – Fifth Assessment AH0

- **Editorial Board** has been established, and reviewer and associate editor assignments are being confirmed.
- **Tribal Advisory Group** has welcomed 3 new members from the Los Angeles and Central Coast Regions. Nominations from the Inland Deserts are open.
- **Request for Information (RFI)** launched to gather input on engagement and rollout planning for 2026.



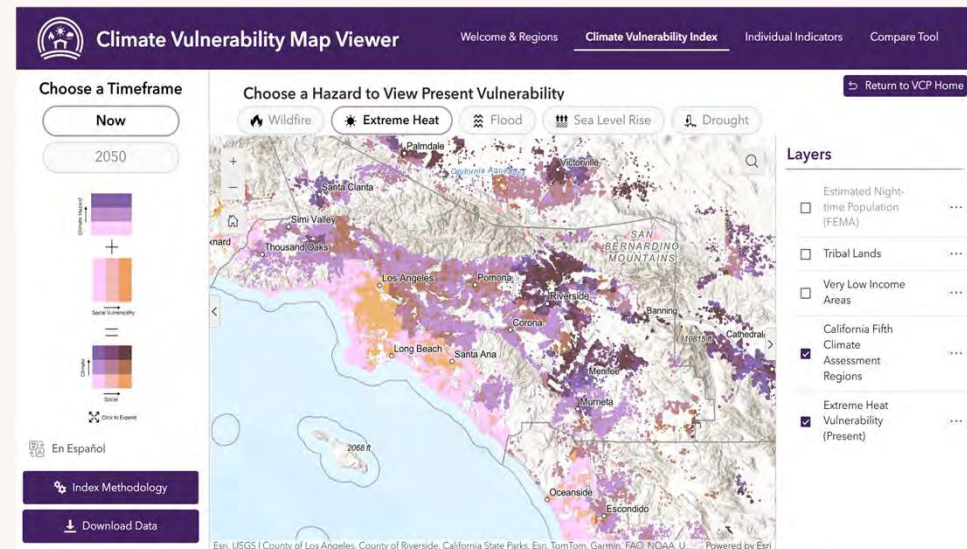
Slide 14

AHO [[@Elea Becker Lowe](#)] please edit as needed 😊
Azura Haley, 2025-08-13T00:38:41.506

EA0 0 Made some tweaks!
Emely Anico, 2025-08-18T18:18:51.619

Updates – Climate Services AH0

- Staff continue to support the Fifth Assessment team and report authors, especially around data use and visualization support.
- The **Vulnerable Communities Platform** team conducted intensive interagency engagement to improve the platform in June 2025.
- Version 1.0 of the **Adaptation Clearinghouse** help desk is live. It uses common user pathways to point visitors to the most relevant resources given their needs.



Slide 15

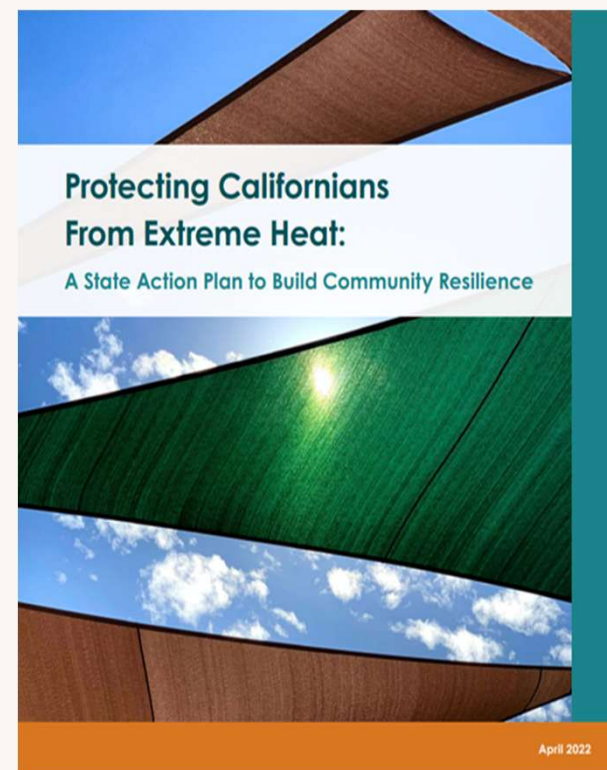
AH0 [@Ben McMahan] please edit as needed!
Azura Haley, 2025-08-13T16:20:15.917

AH0 0 [@Hanna Bliska]
Azura Haley, 2025-08-13T17:49:42.346

HBO 1 Looks fantastic, thank you!
Hanna Bliska, 2025-08-14T17:39:18.999

Updates – Extreme Heat and Community Resilience

- In partnership with the Office of Environmental Health Hazard Assessment and the LA Regional Collaboration for Climate Action and Sustainability (LARC), the team held **CalHeatScore** Webinars on June 12th and July 24th to gather input and feedback from the community on the tool to improve its usefulness and relevancy to extreme heat planning efforts.
- On June 30th, the California Natural Resources Agency and LCI held their first interagency meeting to discuss the update to the **Extreme Heat Action Plan**.
- CNRA and LCI held three input sessions for the Extreme Heat Action Plan Update on August 5th, 6th, and 21st.



Updates – Grant Programs

- **Adaptation Planning Grant Program:** Staff hosted 2 Technical Assistance workshops for grantees on Funding & Financing and a Walkthrough of the Adaptation Planning Guide.
- **Regional Resilience Grant Program:** RRGP grantee, UCLA/LARC: Heat Education, Ambassadors, and Training, has been busy educating and empowering heat-vulnerable communities across LA, through local community outreach events, deploying community heat ambassadors, and more.
- RRGP staff conducted a **grantee site visit** in Butte County, supporting two grantees: the Mechoopda Indian Tribe of Chico Rancheria and Paradise Recreation and Park District.



Other Updates

- LCI Staff hosted 2 **Tribal Input sessions** on June 25th to inform a Tribal User Needs Assessment, a deliverable of LCI's FEMA Cooperative Technical Partners (CTP) FY21 grant. Input from Tribal communities will be used to inform internal recommendations for how LCI can improve its tribal programs and partnerships.



LCI and SGC Tribal Staff crossing to limuw with Chumash partners at Climate Science Alliance's Mountain to Sea Summit.



Item 4 | Discussion



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Item 5 | TAC Vice-Chair



CA Governor's Office of
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Item 5 | Discussion



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Item 5 | Public Comment



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ACTION REQUEST

**Approve the appointment for
TAC Vice-Chair.**



Item 6 | Nature-Based Solutions State Targets and Context Setting



CA Governor's Office of
Land Use and
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NATURE-BASED CLIMATE SOLUTIONS

Briefing on California's Nature-Based Solutions Agenda

ICARP TAC | August 22, 2025



Introductions

- Clesi Bennett, Natural Resources Agency – Climate Team
- Jim Falter, Air Resources Board – Nature-Based Strategies Section
- Nina Bingham, Department of Food and Agriculture – Office of Agricultural Resilience and Sustainability



IPCC Special Report on Climate Change and Land (2019)

-
- “Land is both a source and a sink of GHGs and plays a key role in the exchange of energy, water and aerosols between the land surface and atmosphere. Land ecosystems and biodiversity are vulnerable to ongoing climate change, and weather and climate extremes, to different extents. Sustainable land management can contribute to reducing the negative impacts of multiple stressors, including climate change, on ecosystems and societies.”
 - “Sustainable land management... can prevent and reduce land degradation, maintain land productivity, and... can also contribute to [climate] mitigation and adaptation.”



What Are Nature-Based Solutions?

River Partners' 2,100-acre Dos Rios Ranch Preserve before and after restoration.

Nature-based solutions that deliver on California's climate change goals are land management practices that increase the health and resilience of natural systems, which supports their ability to durably store carbon.



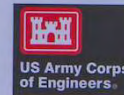


Tule Red Tidal Restoration

Acknowledgments:



Santa Clara Valley Water District



CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD



DELTA STEWARDSHIP COUNCIL









**NBS EXECUTIVE
ORDER & CLIMATE
SMART LANDS
STRATEGY**

EXECUTIVE ORDER ON NATURE-BASED SOLUTIONS EO N-82-20



In October 2020, Governor Newsom outlined a comprehensive and results-oriented agenda to expand nature-based solutions across California.

It called for restoring nature and landscape health to deliver on our climate change goals and other critical priorities, including improving public health and safety, securing our food and water supplies, and achieving greater equity across California.

CLIMATE SMART LANDS STRATEGY GOALS

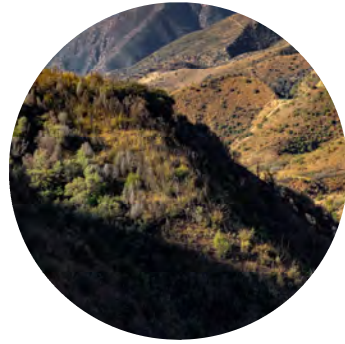
1. **Align existing state efforts** under one cohesive strategy, and identify opportunities to improve our approaches over time.
2. **Increase awareness** of nature-based climate solutions and their ability to deliver environmental, economic, public health, and equity improvements in California.
3. **Guide and accelerate** both near-term and long-term **climate action on California's lands**, prioritizing durable solutions that deliver multiple outcomes
4. **Advance equity and opportunity** for all regions and residents of California as we implement nature-based climate solutions, and prioritize investments that benefit climate vulnerable communities.
5. **Begin to track and measure our collective efforts** to accelerate climate smart land management and meet our goals and targets.



CALIFORNIA'S LAND SECTOR



FORESTS



SHRUBLANDS & CHAPARRAL



GRASSLANDS



WETLANDS



CROPLANDS



SPARSELY VEGETATED LANDS

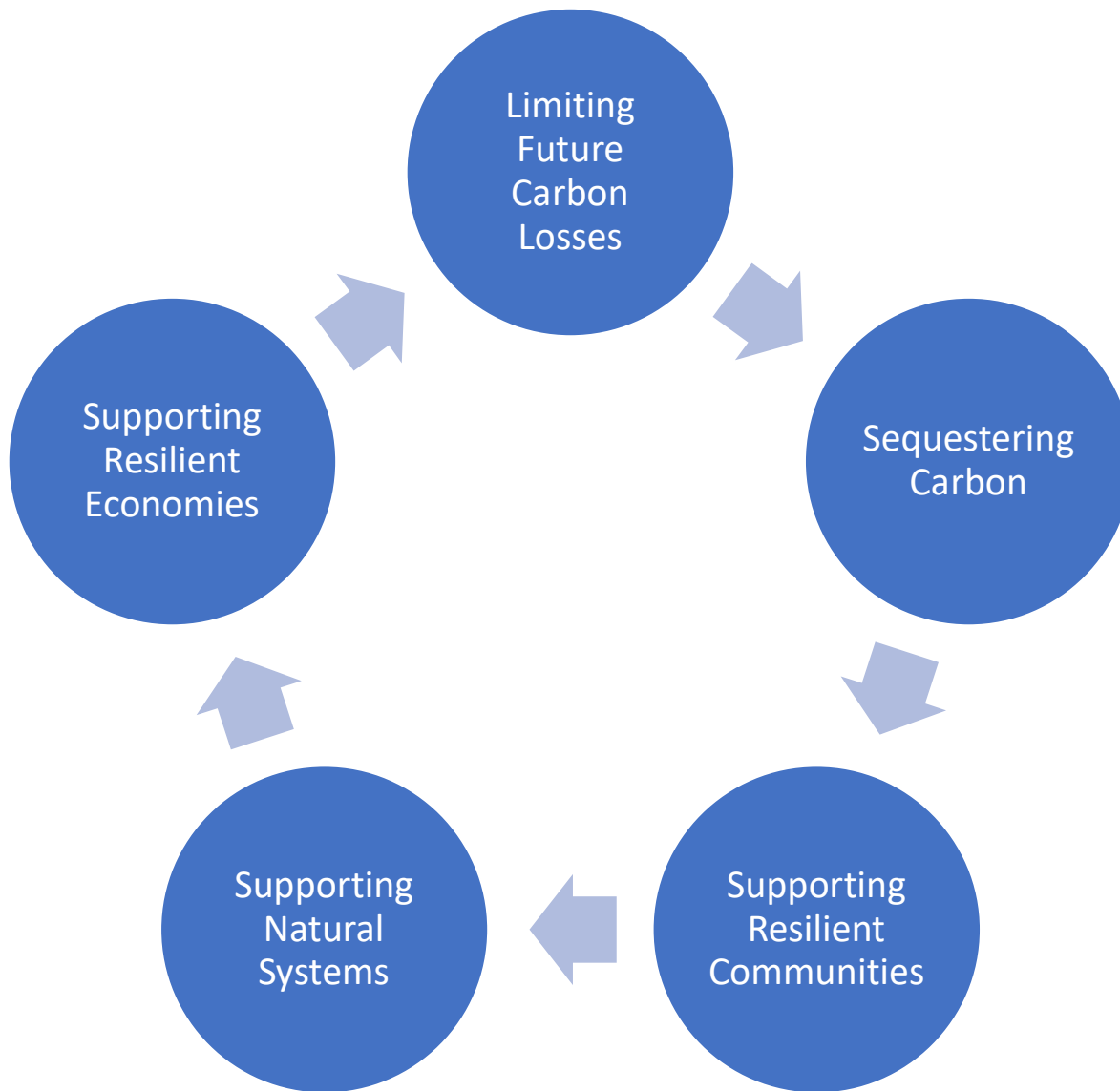


**SEAGRASSES &
SEAWEEDES**



DEVELOPED LANDS

PRIORITY APPROACHES



The Climate Smart
Lands Strategy

**describes the
climate action
potential**

for each of
California's land
types.

PLANS IN ACTION



Scoping Plan



Climate Adaptation Strategy



Climate Smart Lands Strategy

[Sector/Hazard-Specific Plans with Nature-Based Solutions]



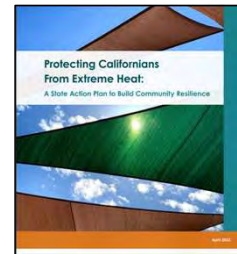
Strategic Plan for Oceans/Coasts



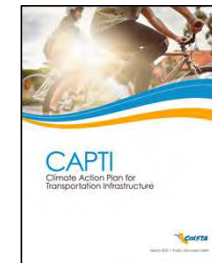
Wildfire/Forest Resilience Action Plan



Water Resilience Portfolio



Extreme Heat Action Plan



Climate Action for Transportation Infrastructure

And many more...

Update of the Climate Smart Lands Strategy

1. Update priority nature-based climate solutions for each land type, including their climate benefits.
2. Integrate the latest data into the land type maps.
3. Advance our approach to tracking action and measuring outcomes in this sector.
4. Identify barriers to implementation and solutions to overcome them.
5. Summarize progress to-date, as well as outline near-term priorities for action.



NATURE IN STATE CLIMATE PLANS

PLANS IN ACTION (2)



[Sector/Hazard-Specific Plans with Nature-Based Solutions]



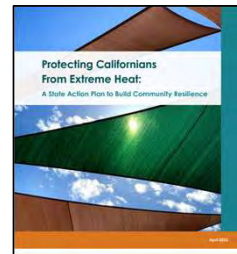
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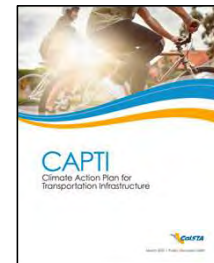
Wildfire/Forest Resilience Action Plan



Water Resilience Portfolio



Extreme Heat Action Plan



Climate Action for Transportation Infrastructure

And many more...



settings

OVERVIEW

PRIORITIES

REGIONS



CALIFORNIA CLIMATE ADAPTATION STRATEGY

Photo credit: State Parks



Organized around six outcome-based priorities
California's north stars
that guide all resilience actions



Priority
**Strengthen Protections for
Climate Vulnerable Communities**



Priority
**Bolster Public Health and Safety
to Protect Against Increasing
Climate Risks**



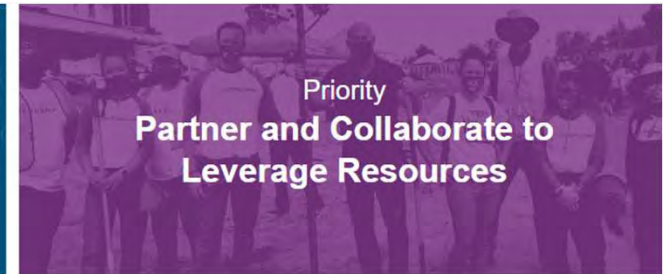
Priority
**Build a Climate Resilient
Economy**



Priority
**Accelerate Nature-Based
Climate Solutions and
Strengthen Climate Resilience of
Natural Systems**



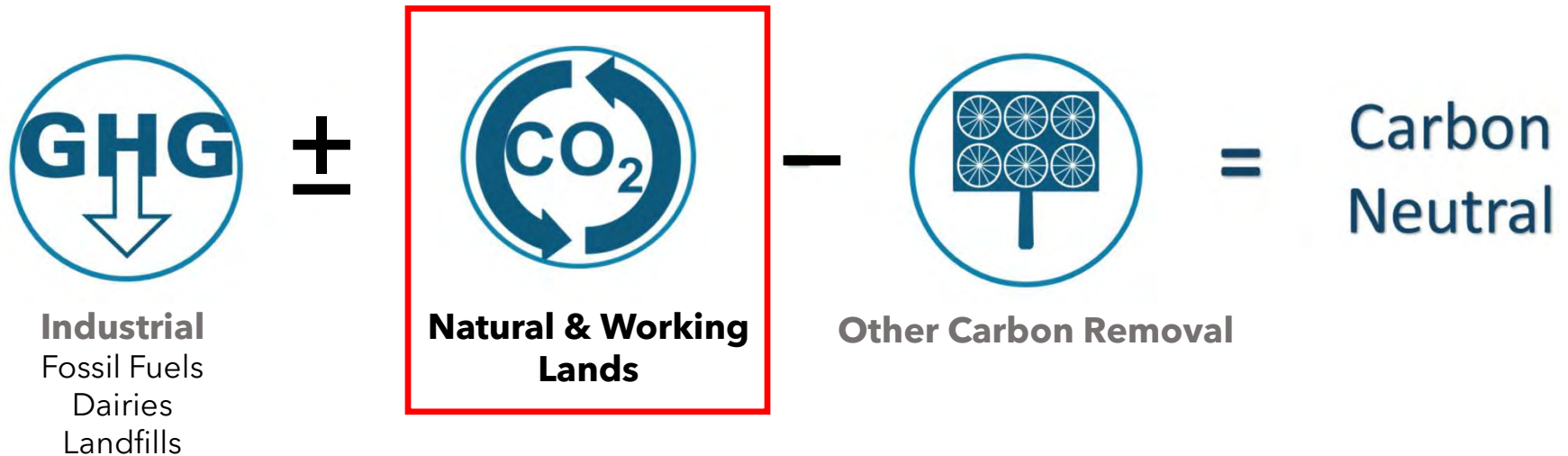
Priority
**Make Decisions Based on the
Best Available Climate Science**



Priority
**Partner and Collaborate to
Leverage Resources**

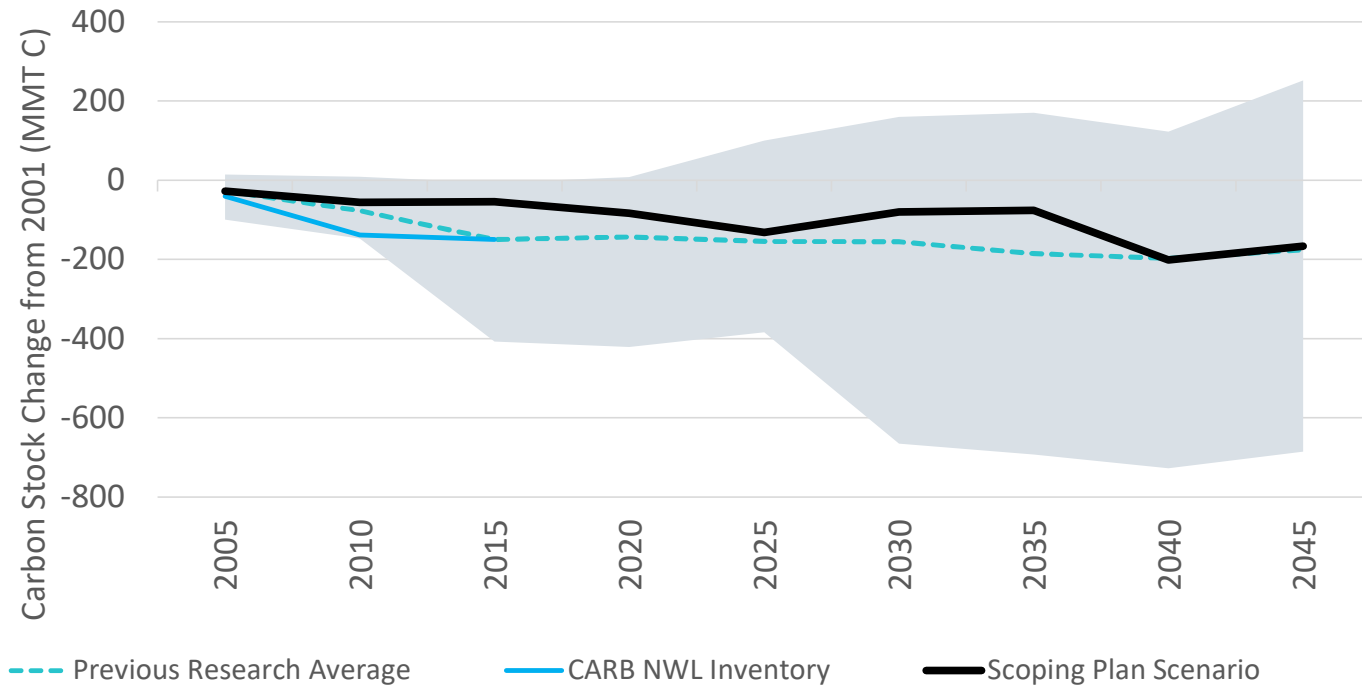
California's Path to Carbon Neutrality

The CARB Scoping Plan [AB 1279, 2022]

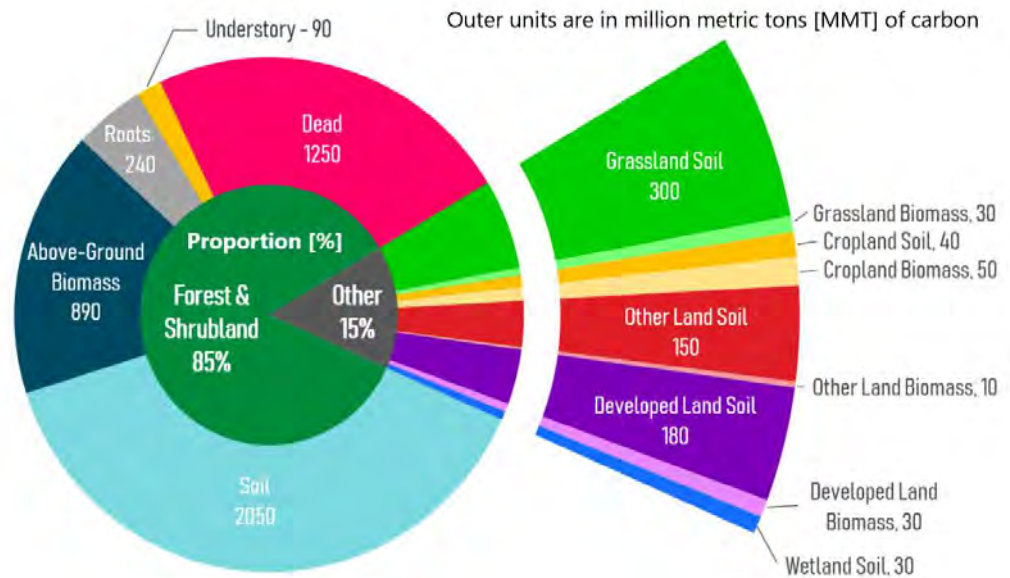
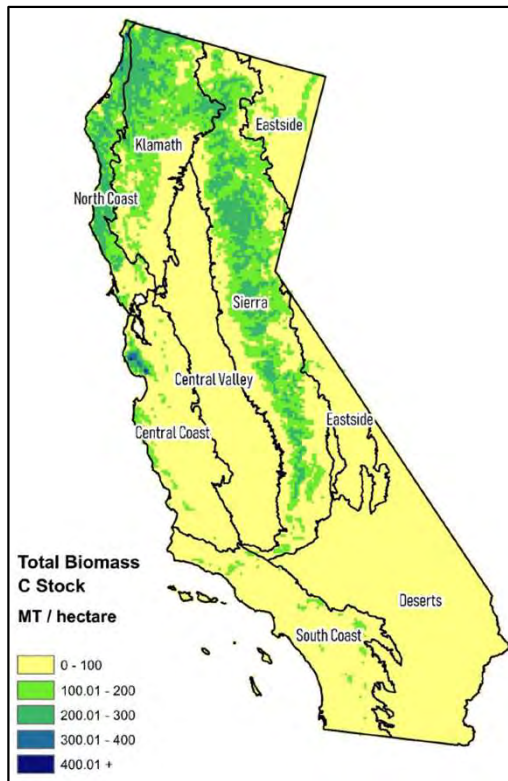


2022 Scoping Plan: NWL Carbon Target

Carbon Target = By 2045 carbon stocks 4% below 2014 levels



Natural & Working Lands Carbon Inventory



~5 billion tons of carbon total
 [~50x annual industrial CO₂ emissions]

Nature-Based Solutions Objective: **Achieving Carbon Neutrality**

- The objective of nature based solutions is not to maximize carbon and sequestration but to enhance the health and resilience of California's ecosystems and communities which will lead to durable and sustainable carbon stocks.

NBS CLIMATE TARGETS

Why Did We Set New Targets?

AB 1757 Requirements



California
LEGISLATIVE INFORMATION

- Determine an ambitious range of NBS climate targets for the lands sector – 2030, 2038, and 2045 – to support carbon neutrality and foster climate adaptation and resilience.
- Integrate these targets into the Scoping Plan and other relevant state policies.
- Establish an Expert Advisory Committee.
- Improve and standardize GHG emissions accounting for the lands sector, including co-benefits.
- Review and update California’s strategy for climate action in the lands sector.
- Develop standard methods for tracking GHG and resilience benefits from NBS climate action.
- Report on progress toward meeting the NBS climate targets every two years starting in 2025.



Target-Setting Approach

- Established quantitative goals for the most effective NBS actions that **increase the health and resilience** of our lands, thus supporting their ability to **durably store carbon**.
- Based on **best-available science**; reflect the total amount of collective climate action on California's lands that is needed, regardless of ownership.
- Designed to meet or exceed the carbon target for lands in the **Scoping Plan** and drive on the State's **Climate Adaptation Strategy**.

Target Calculation Considerations

- How lands are currently managed and associated carbon implications.
- Most effective NBS at the scale required by science that build resilience, and durable, sustainable carbon stocks.
- Technical and practical feasibility.
- The State's ability to measure and track progress over time.



Cumulative Totals

By 2045, the acreage-based targets will deliver:

- **33.5 million acres** managed to reduce wildfire risk, mostly through beneficial fire.
- **11.9 million acres** of forest managed for carbon storage as well as protection of California's water supply and biodiversity.
- **1.6 million acres** of grasslands managed to restore native grasses and protect biodiversity.
- **1.2 million acres** of increased greening and protection from wildfire across California's diverse communities.
- **4.2 million trees** planted to protect California communities from the climate crisis, remove carbon and increase access to nature where it's needed most.





Cumulative Totals (con't)

- **7.6 million acres** conserved with protections to avoid conversion.
- **3.4 million acres** of croplands managed to boost healthy soils, drought resilience, and below-ground biodiversity.
- **2.7 million acres** of shrubland and chapparral managed for carbon storage, resilience, and habitat connectivity.
- **1.5 million acres** to protect fragile ecosystems and biodiversity across California's sparsely vegetated lands.
- **233,600 acres** of wetlands and seagrasses managed to protect water supply, deliver carbon benefits, and buffer communities from flooding.

Tracking Progress

Progress will be measured through:

1. Improving California's understanding of collective climate action in the land sector. A progress report will be issued every two years.
2. Utilizing CARB's forthcoming standard methods to track NBS climate action.
3. Regularly inventorying the carbon stocks in California's lands using our NWL carbon inventory.



COLLABORATION & IMPLEMENTATION

A top-down view of several people's hands stacked in a circle, symbolizing teamwork and collaboration. The hands are of various skin tones and are wearing different colored sleeves (white, grey, blue, pink). The background is a soft, out-of-focus light color.

Continued Interagency Coordination on NBS

**NBS Climate
Target
Implementation
Elements**

Direct Land Management

Policies & Guidance

Funding & Financing

Land Use Permitting

Science & Research

Communications, Education, & Technical Assistance

Questions?



Potential Questions for TAC

- What are the biggest barriers to implementing nature-based solutions?
- What solutions exist to overcome these barriers, and how can state government most usefully advance them?
- How can tracking implementation progress towards the NBS climate targets be made as useful as possible to you and/or your constituents?

Item 6 | Discussion



CA Governor's Office of
**Land Use and
Climate Innovation**

LUNCH BREAK



Item 7 | Case Study: Urban Forestry



CA Governor's Office of
Land Use and
Climate Innovation

**Integrated Climate Adaptation and Resilience Program
Technical Advisory Council
Case Study on Urban Forestry
City of East Palo Alto**

August 22, 2025

Uriel Hernandez, Project Manager – City of Palo Alto
Walter Passmore, State Urban Forester – CAL FIRE



CAL FIRE Urban & Community Forestry Program

The mission of the California Department of Forestry and Fire Protection's Urban Forestry Program is to lead the effort to advance the development of sustainable urban and community forests in California. Trees provide energy conservation, reduction of storm-water runoff, extend the life of surface streets, improve local air, soil and water quality, reduce atmospheric carbon dioxide, improve public health, provide wildlife habitat and increase property values. In short, they improve the quality of life in our urban environments which, increasingly, are where Californians live, work, and play. The program also administers State and Federal grants throughout California communities to advance urban forestry efforts.

- **Technical assistance and advice**
- **Public and professional education**
- **Public events**
- **Local and regional advocacy**
- **Networking and partnerships**
- **Technology transfer**
- **Grants**
- **Conduit to national programs**



Why does Urban Forestry matter to climate?

- What it's not
 - The most significant carbon sink
 - The most effective pollution mitigation strategy
- What it is
 - It's personal - the nature where people live, work, and play daily
 - It's direct – the first filter of pollutants, moderator of local climate, habitat for humanity and wildlife, omnipresent infrastructure
 - It's connected – water, wildlife, weather
 - It's culture – living history that establishes a sense of place

Challenges and Solutions

Challenge

- Economics
- Canopy Cover
- Water
- Workforce
- Policies
 - General Plan Guidelines
 - Ordinances
 - Standard details, drawings

Solution

- Cost-benefit ratios often range from \$2-6 for every \$1 spent, even with partial economic models, [Local Economics :: Green Cities: Good Health](#). Health benefits are often analyzed separately but significant, \$374 per person/year, [More Trees and Cleaner Air Improve Health, Research Shows | Kaiser Permanente](#). [U&CF Economic Contribution Study | California ReLeaf](#).
- [California Urban Tree Canopy Data | Urban and Community Forestry](#)
- DWR-CAL FIRE study found renovated landscapes increased canopy 10% while using 10% less water

Accomplishments of Others



From left: Former Mayor Laura Martinez, Mayor Ruben Abrica, Teen Urban Foresters, and partners. Bayshore Christian Ministries tree planting in the fall of 2019. Photo: Canopy.

Accomplishments of Others



Former mayor Pat Foster visits the first soundwall tree planted by the East Palo Alto Tree Initiative. Photo: Canopy.

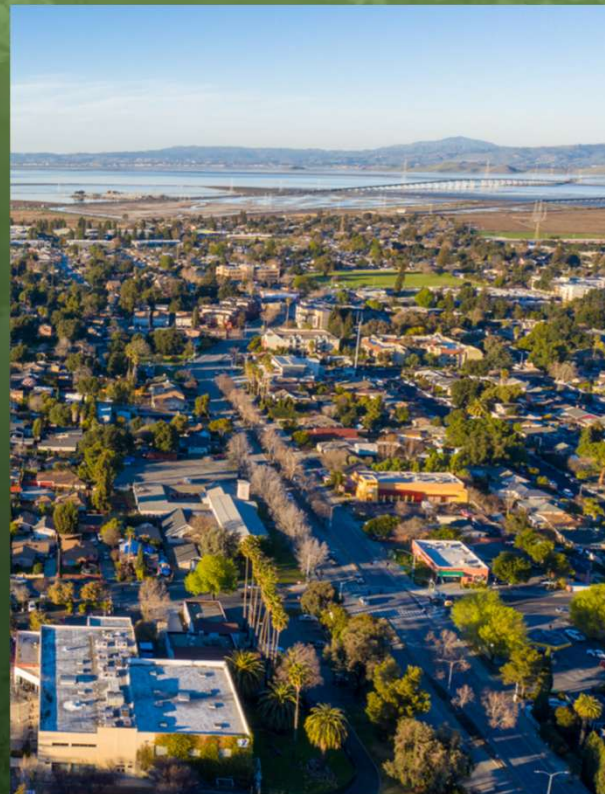
Culture of Care



Nobel Peace Laureate Wangari Maathai with mayor Ruben Abrica, former mayor Pat Foster, and members of the community.
Photo: Canopy.

City of East Palo Alto

- The Community
 - Population 30,034
 - Land Area 2.53 sq. miles
 - Elevation 20 ft.
 - Demographics (2020 census)
66.47% Hispanic or Latino,
10.62% Black or African
American, 7.67% White,
6.69% Pacific Islander,
5.22% Asian
 - Cal EnviroScreen,
[CalEnviroScreen 4.0](#) |
[OEHHA](#) scores 63-77,
disadvantaged and low-
income, [California Climate
Investments Priority
Populations 2022 CES 4.0](#)



Urban Forest Management Plan

- [Urban Forest Master Plan | City of East Palo Alto \(cityofepa.org\)](https://www.cityofepa.org/urban-forest-master-plan)
- Contains links to:
 - The UFMP
 - Urban Forest Assessment Methodology (canopy assessment, tree inventory update, benefits quantification)
 - East Palo Alto Tree ordinance
 - Community Survey Results
 - Species selection guidance
 - Executive summary and vision for the East Palo Alto UFMP (Spanish language)

Vision

DECLARACIÓN DE VISIÓN

East Palo Alto es una comunidad diversa con fuertes raíces en la administración de la tierra, conexión con la naturaleza y dedicación a construir un bosque urbano.

El bosque urbano de East Palo Alto incluirá una mezcla diversa de árboles saludables que brindan beneficios a los residentes de toda la ciudad al reducir la contaminación del aire, el calor, el ruido, las inundaciones y el estrés.

Un bosque urbano expandido cerrará la *“Brecha Verde”* y traerá a East Palo Alto los beneficios para la salud mental, física y ecológica que experimentan las comunidades circundantes.

VISION STATEMENT

East Palo Alto is a diverse community with strong roots in land stewardship, connection to nature, and a commitment to building the urban canopy.

East Palo Alto’s urban forest will include a diverse mix of healthy trees that provide benefits to residents across the city by reducing air pollution, heat, noise, flooding, and stress.

An expanded urban forest will close the “Green Gap” and bring East Palo Alto the mental, physical, and ecological health benefits that surrounding communities experience.

Stakeholder Engagement

The process

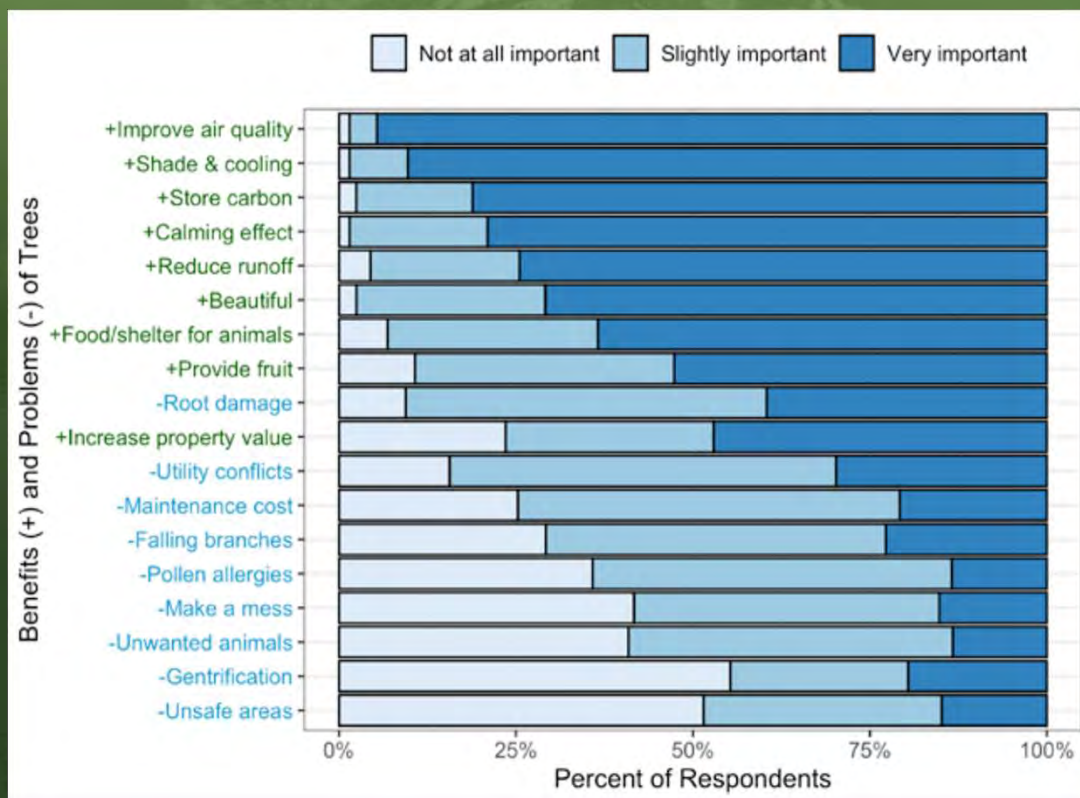
- Steering committee
- Online survey (208 responses, 92% residents)
- Project website
- Focus groups
- City meetings
- Tablings
- Interviews

The people

- City leaders
- Boards and Commissions
- Homeowners
- Champions
- Non-profit groups

Survey Results

Benefits of trees



Challenges

CHALLENGES FOR URBAN FOREST MANAGEMENT IN EAST PALO ALTO

Lack of Tree Canopy

The overall tree canopy cover in the city is much lower than in surrounding communities. Both protection of existing trees, particularly large ones, and expansion of the urban forest are needed to increase the equitable distribution of this important type of urban infrastructure.

Water Availability & Climate Change

Portions of the city have high groundwater and are projected to see increased flooding and sea level rise with climate change, which will impact the potential for trees. Future drought and limited water for irrigation make low water use an important parameter for guiding tree species selection.

Legacy of Urban Design

Existing urban design does not facilitate the growth of the urban forest, with few parks, small residential parcels, and narrow streets without space for tree planting.

Unclear Authority & Responsibility

Responsibilities for tree maintenance and permitting are not clearly defined in City code, reducing the City's ability to expand the urban tree canopy, to set consistent standards for tree care and maintenance, or to protect the existing tree canopy.

Reactive Approach to Tree Maintenance

The City's current approach to tree maintenance responds to hazards and emergencies as they arrive, which can be inefficient, increase liability, and be detrimental for long-term tree health.

Effectiveness of the Tree Protection Ordinance

While the current tree protection ordinance provides some protection for existing trees, lack of enforcement, unclear requirements, and high fees are concerns for residents.

Lack of Trust Between City & Community

There is a lack of trust in the City's ability and willingness to provide the resources and maintenance needed to cultivate a healthy urban forest.

Limited Resources

The current resources available for management of public trees limit the ability of the City to maintain a healthy urban forest.

Presentation

- Scientific report format
 - Citations throughout
 - References at the end of each chapter
- Action plan graphics, clear and concise text
- Maps
 - Historic Ecology
 - Flood danger (sea level rise)
 - Asthma rates
 - Depth of groundwater
 - Summer temperature
 - Social vulnerability
- Tables



Canopy Cover

- Density
- Distribution
- Access
- Function
- Resilience
- Output (benefits)
- Aesthetic
- Intangible
- EPA 13.5%, Menlo Park 27%, Palo Alto 38%



Integrated Strategy

- Urban Forest Management Plan
- Stewardship (outreach and recognition)
- Canopy Cover (20% by 2062 and 30% by 2122)
- Tree Ordinance updates recommended
 - Regulates select private trees and protects trees during development
- Tree Inventory
- Staff capacity (technical and enforcement)
- Adequate funding
- City maintenance of public trees
- Public Engagement
- Park and Food Access (Fruit trees)
- Education
- Workforce Development

Planning and supporting a resilient urban forest

Diversity and Resilience

- Plant a diversity of tree species, with no more than 10% of any one species, 20% of any one genus, or 30% of any one family.
- Where possible, plant trees in parks and along city blocks at multiple times to create tree age diversity.
- Prioritize planting native tree species and appropriate climate-adapted species.

Human Health Impacts

- Plant trees with dense canopies along sunny active transit routes for the greatest cooling benefits.
- Plant diverse species to avoid synchronous pollen production.
- Plant trees in high density and high traffic areas to increase people's experience of and interactions with trees.

Native Landscapes and Wildlife

- Plant native trees, especially oaks, to support a diversity of wildlife and connect with the local natural history.
- Prioritize planting in parks to create habitat patches and along corridors to build connected networks of greenspace for wildlife.
- Avoid tree planting along the tidal marsh, which could negatively impact endangered marsh animals by increasing predation.

Water Use

- Prioritize low water use species.
- Support young trees with supplemental irrigation if needed as they become established.
- During times of severe water limitations, prioritize irrigating larger, older trees that provide irreplaceable ecosystem services.
- Plant salt-tolerant species if recycled water will be used.

Fruit Production

- Plant fruit trees in private yards and public spaces where fallen fruit will not create hazards for pedestrians or vehicles.
- Balance fruit tree planting with planting native and climate resilient trees that can provide a wider range of ecosystem services.

Growing a greener future



Ravenswood City School District Superintendent Gina Sudaria with Costaño Elementary students. Photo: Canopy.

Thank You!

Walter Passmore, State Urban Forester
CA Dept. of Forestry & Fire Protection (**CAL FIRE**)
P.O. Box 944246 Sacramento, CA 94244-2460
(916) 214-5420
walter.passmore@fire.ca.gov

Uriel Hernandez, Project Manager
City of Palo Alto, Public Works Department
3201 E. Bayshore Road, Palo Alto, CA 94303
(650) 329-2450
Uriel.Hernandez@paloalto.gov

Item 7 | Discussion

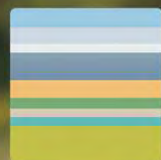


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**Land Use and
Climate Innovation**

Item 8 | Case Study: Sequoia Riverlands Trust



CA Governor's Office of
Land Use and
Climate Innovation



SEQUOIA Riverlands Trust

*Conserving the lands and waters of
California's heartland*

Adam Livingston
Director of Planning and Policy



Our Mission

We conserve the lands and waters
of California's heartland.





Our Wildly Important Goal

*Increase our conserved lands from 50,000 acres to
75,000 acres by 2030*

Landowner Robert Harris enjoying the view of the Kings River | Parlier, CA

SRT and 30x30

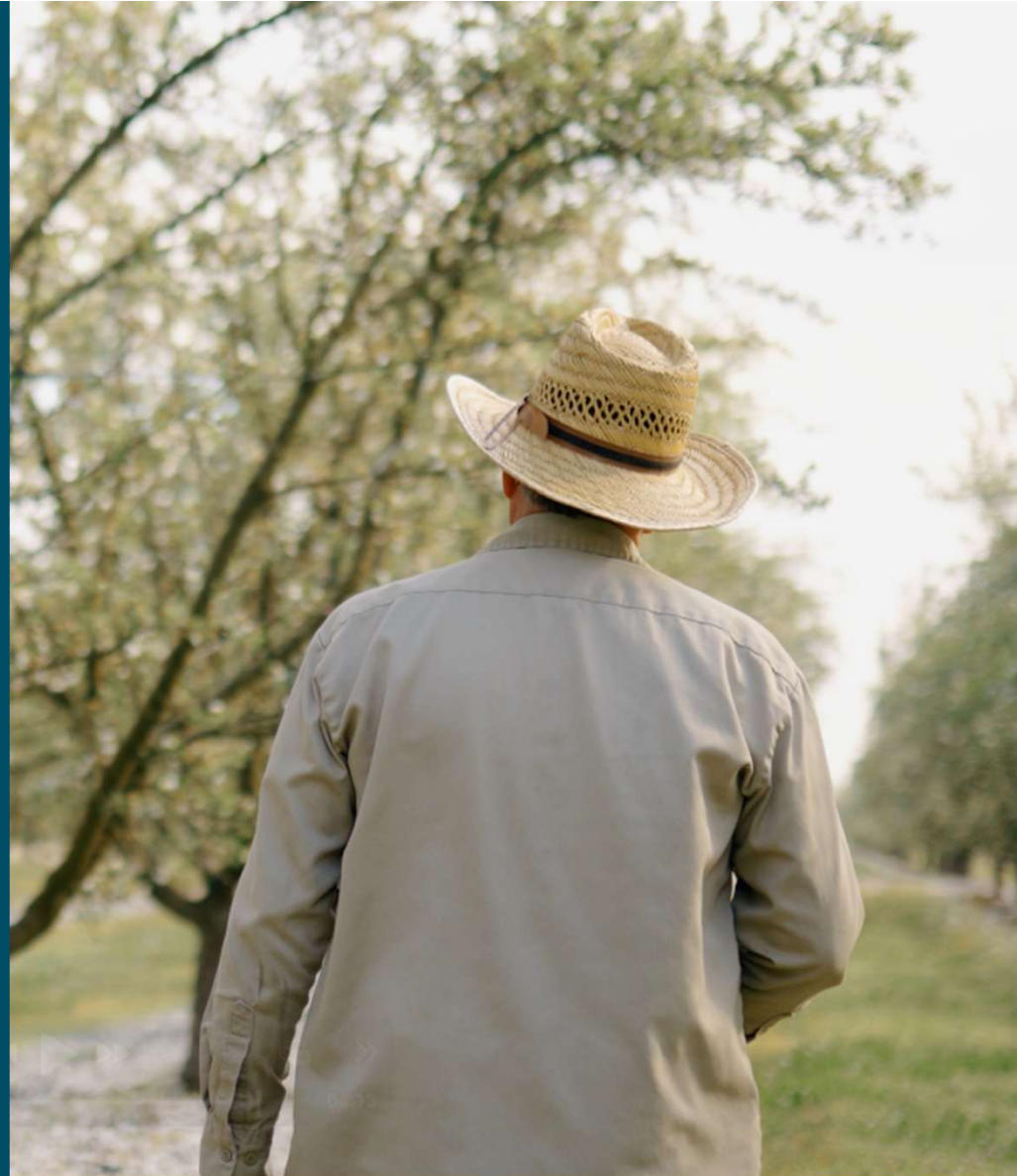




Land Protection Approaches

We work hand-in-hand with farmers, ranchers, conservation partners, tribes, and local communities to preserve the lands that define California's heartland.

Moore Family Farm | Reedley, CA





Nature Preserves

SRT-owned lands offering habitat, education, research, and recreation at seven sites covering 4,110 acres in California's Southern Sierra and San Joaquin Valley

Dry Creek Preserve | Woodlake, CA





Conservation Easements

SRT has worked with willing landowners on 80+ easements covering more than 32,000 acres:

- Traditional Conservation Easements
- Habitat Mitigation Easements
- Agricultural Conservation Easements

The Kings River | Parlier, CA





Traditional Conservation Easements

Voluntary agreements that permanently protect land while allowing continued private ownership and sustainable use

SRT Board Member Dennis Tristao catches up with Bud Darwin | Woodlake, CA





Habitat Mitigation Easements

Offset environmental impacts by managing land to restore and protect priority habitat permanently

San Joaquin Kit Fox | San Luis Obispo County, CA





Agricultural Conservation Easements

Preserve working farms and ranches by preventing development and supporting long-term agricultural viability.

Blossoming almond trees | Reedley, CA





Agricultural Conservation Easements

Under what conditions should these
easements count toward 30x30 goals?

Blossoming almond trees | Reedley, CA





Land Management

Contracted stewardship of over 20,000 acres through restoration, invasive species control, research, and ecological enhancement

Sheep grazing in the Carrizo Plain | Carrizo National Monument





30x30 Challenges & Opportunities

- What counts toward 30x30
- Farmland repurposing and 30x30
- Current funding levels not commensurate with 30x30 goals

Bettencourt Family Farm | Dinuba, CA



30x30 Challenges & Opportunities

- What counts toward 30x30
 - Habitat and ag on same land
 - Management plan requirement
- Farmland repurposing and 30x30
- Current funding levels not commensurate with 30x30 goals





30x30 Challenges & Opportunities

- Farmland repurposing and 30x30
 - Up to a million acres
 - Massive change in land use
 - Support landscape-scale habitat restoration
- Current funding levels not commensurate with 30x30 goals

Moving water for flood control and groundwater recharge



30x30 Challenges & Opportunities

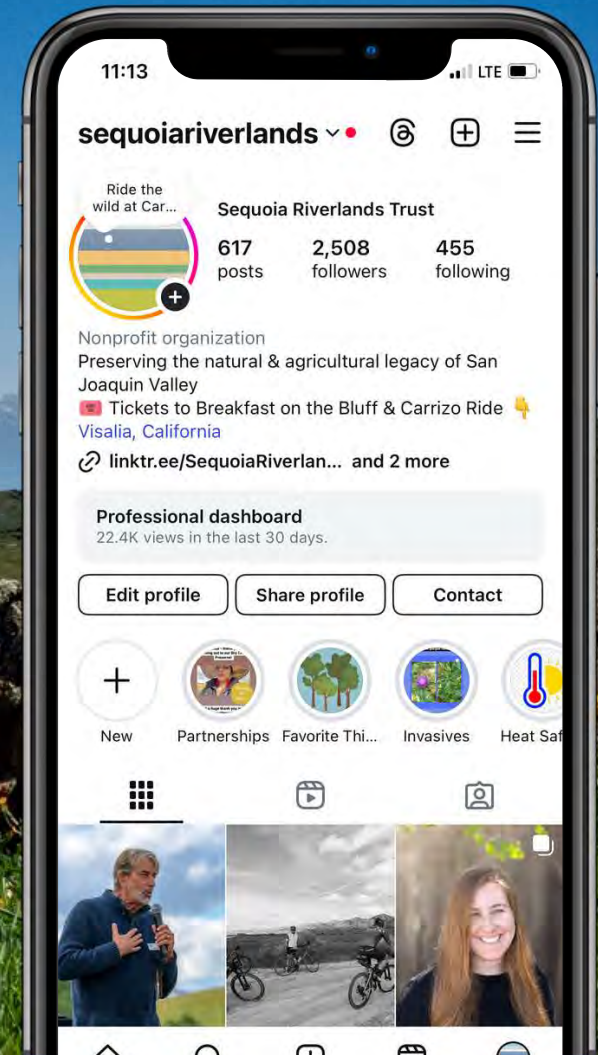
- Current funding levels not commensurate with 30x30 goals
 - Less than five years left
 - Need to accelerate Prop 4 rollout and increase GGRF allocations for nature-based solutions

Intentional burn | Carrizo National Monument



Thank you!

sequoiariverlands.org



Item 8 | Discussion



CA Governor's Office of
**Land Use and
Climate Innovation**

Item 9 | Case Study: Healthy Soils



Healthy Soils Program
Regional Insights from Block Grant Recipients



Gillies Robertson, Siskiyou Economic Development Council
ICARP TAC – August 22, 2025



Siskiyou County Economic Development

“Our mission is to empower business growth, build success, and connect the community with vital resources to create a prosperous Siskiyou.”



SMALL
BUSINESS
DEVELOPMENT
CENTER

SHASTA CASCADE





Siskiyou Farm Co.

“Catalyze innovation and sustainability across our region’s food and agricultural landscape.”

**Programs: business resources,
marketing & supply-chain support
& on-farm innovation**





What is Siskiyou County's Agriculture Landscape?

- **Fifth largest California county by area - 4,038,843 acres**
 - **1,153,246 acres in agriculture**
- **Importance of the ag economy**
 - **\$450+ million (2023 Crop Report)**
- **Crops: alfalfa, grains, cattle, specialty produce**
- **Unique Challenges: short growing season, water curtailments, wildfire risk, logistical and market limitations.**



What is a Healthy Soils Project

- Land owner technical assistance
- Purchasing approved soil amendments
- Transportation costs (preapproved)
- Labor for implementation
- Soil sampling





What business is it of ours?

- **Direct resources to Siskiyou Agriculture**
- **Carbon, input reduction & GHG practices**
- **Service to a range of producers**
- **Build capacity in partnership with SVRCD**





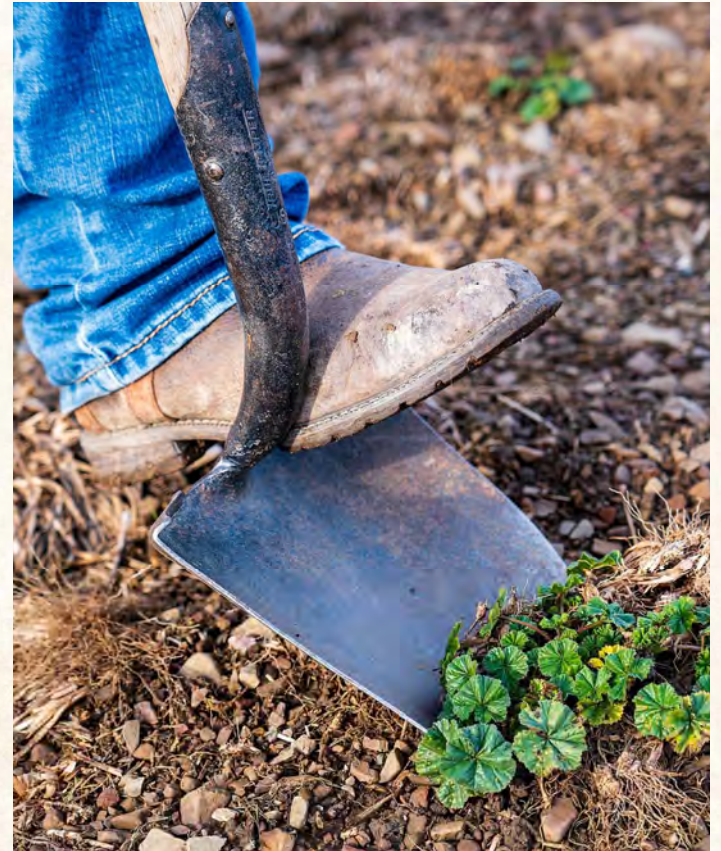
Outreach Strategy vs. Reality

Strategy

- Workshops & farm tours
- Direct outreach to SDFR groups
- 1-on-1 technical assistance

Reality

- Trusted ranchers opened doors
- SDFR Targeted outreach works
- Word-of-mouth = more powerful
- Webinars and group presentations





Who Signed Up & why?

The whole suite:

- **Generational ranchers**
- **Large-scale alfalfa farms**
- **Small beginning farmers**
- **Market-garden producers**

3 acres → 2,000 acres

5500 acres enrolled

Projects ranging from - \$10,000-\$200,000





Key Takeaways

- **Investing in rural agricultural strengthens soil health, sustains producer adoption, and builds resilient economies.**
- **Healthy Soils Program = a place where rural agriculture advances state goals. #rememberural**
- **Outreach depends on trust + community champions**
- **Producers need TA support for project & grant administration. Everyone has required grant management support.**



Thank You + Discussion

Gillies Robertson – Siskiyou EDC
gillies@siskiyoucounty.org

Looking forward to your questions & discussion

Item 9 | Discussion



Item 10 | Labor and Climate Intersections



CA Governor's Office of
Land Use and
Climate Innovation



Labor & Climate Intersections: A Worker Health and Safety Perspective

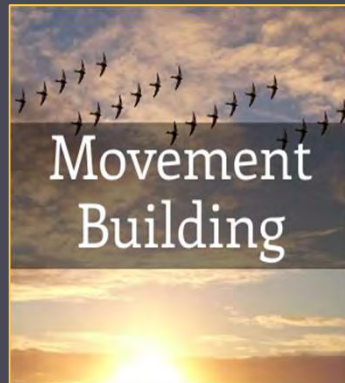
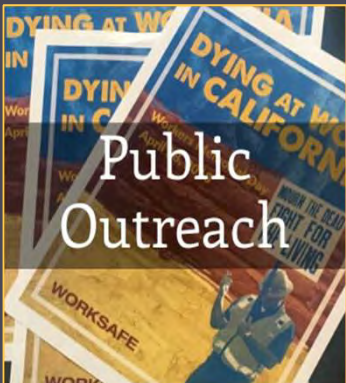
Stephen Knight, JD
Executive Director
sknight@worksafe.org

WORKSAFE

seguridad, salud y justicia para los trabajadores



We work relentlessly towards systemic change to protect the dignity, health, and safety of workers. Our vision is a world where jobs are safe and dignified and workers and their communities are healthy and thriving.



● Integrating Climate into Worksafe's Agenda

- Wildfire Smoke rules 2017-2020
- Outdoor Heat 2005-08
- Indoor Heat 2010-24
- COVID-19 & ATDs
- Intersectional partnerships

● Rise of Climate Change Hazards at Work

- Rising average temperatures globally
- Extreme Weather Patterns i.e. Heat Waves, Fires, Floods, Viruses



National & International Action



SOLIDARITY CENTER

STATEMENTS & ADVISORIES CONTACT US

HISTORIC CLIMATE RULING: WORKERS' RIGHTS MUST BE AT THE CENTER OF CLIMATE RESPONSE, SAYS INTER-AMERICAN COURT

The Solidarity Center Jul 4, 2025

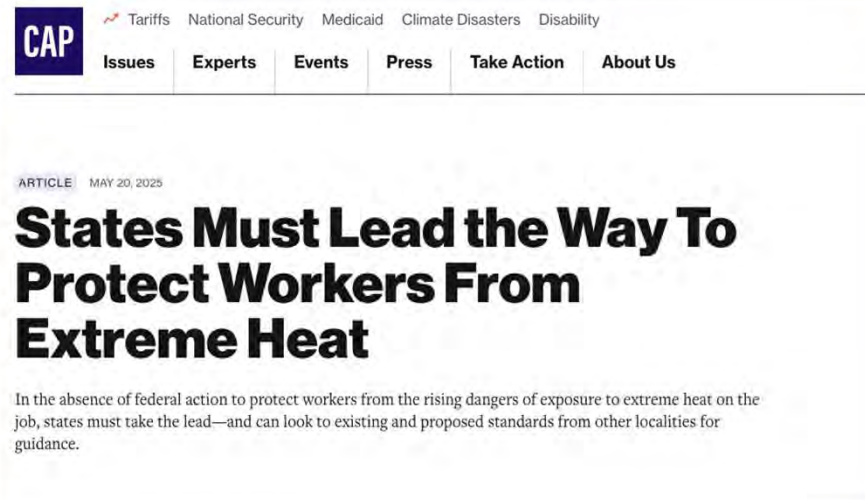


Grist

FOOD & AGRICULTURE



A long-awaited rule to protect workers from heat stress moves forward, even under Trump



CAP

Tariffs National Security Medicaid Climate Disasters Disability

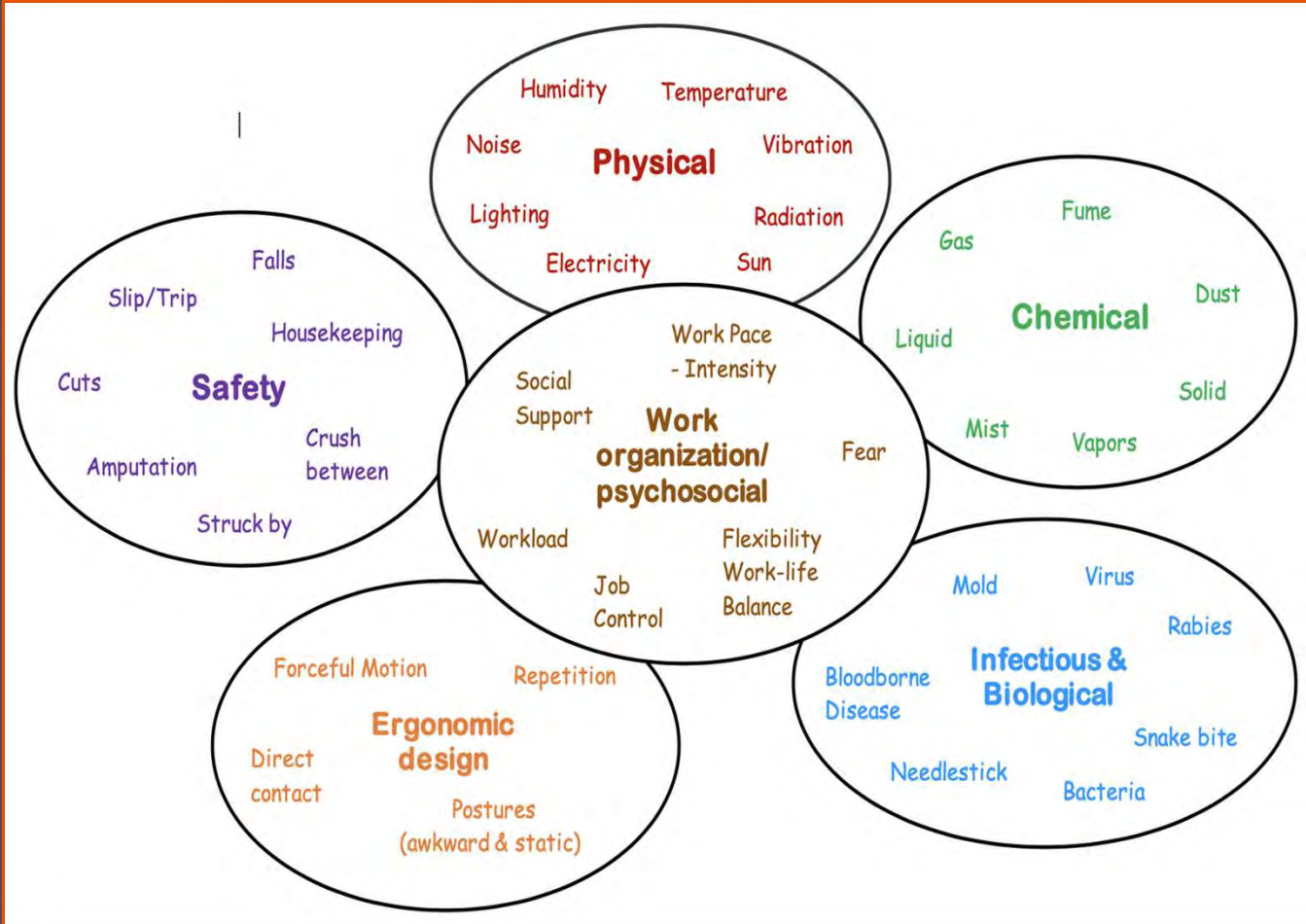
Issues Experts Events Press Take Action About Us

ARTICLE MAY 20, 2025

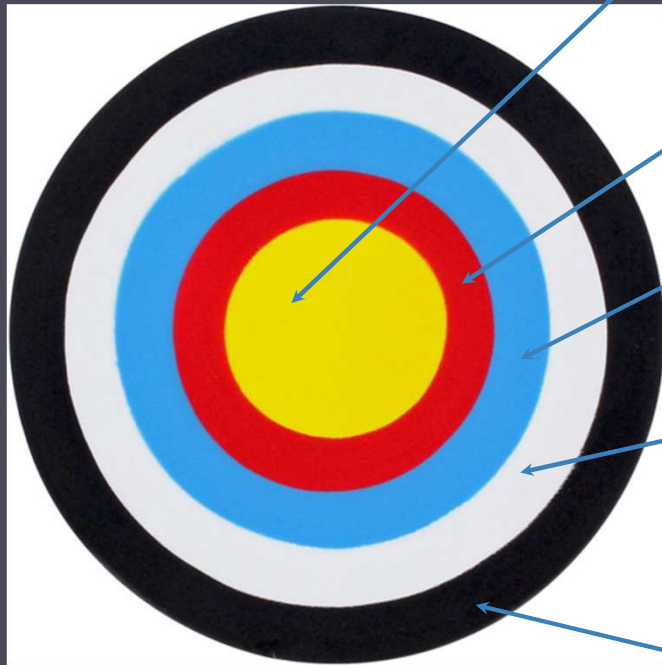
States Must Lead the Way To Protect Workers From Extreme Heat

In the absence of federal action to protect workers from the rising dangers of exposure to extreme heat on the job, states must take the lead—and can look to existing and proposed standards from other localities for guidance.

Identifying and reducing hazards



OSH Bull's Eye



Eliminate or isolate
Lo mejor: Eliminar o Aislar

Substitution *Substituir*

Engineering controls
Controles de diseño

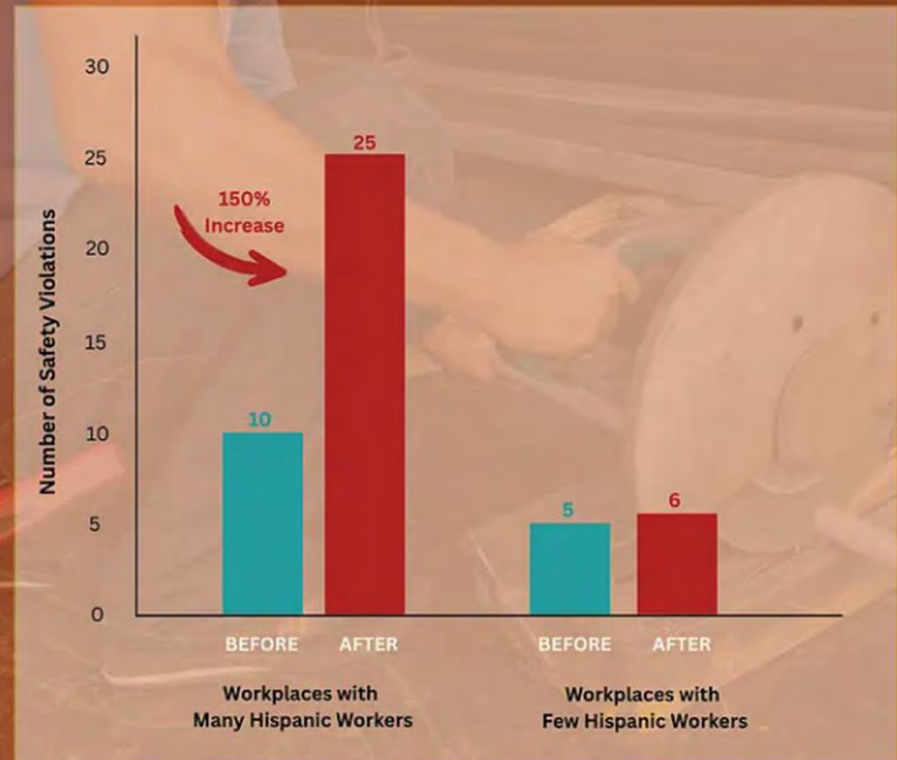
Administrative controls
Controles administrativos

Personal Protective Equipment (PPE)
Equipo de Protección personal

FACT: Immigration Enforcement Undermines Worker Health and Safety

How Immigration Enforcement Led to More Safety Violations

Immigration enforcement led to worse compliance with OSHA regulations among workplaces with more Hispanic workers.



AGUA. SOMBRA. DESCANSOS.

Sin ellos no se puede trabajar.



Drink water often

Rest in the shade

Report heat symptoms early

Know what to do in an emergency



**WATER.
REST.
SHADE.**

*The work can't get done
without them.*

#WaterRestShade

The Maria Isabel Vasquez Jimenez Heat Illness Standard (2005)



Employer duties to prevent heat illness

1. Water: Provide fresh water so that each workers can drink at least 1 quart per hour + encourage drinking.
2. Shade: Provide access to shade and encourage employees to take a cool-down rest in the shade for at least 5 minutes. They should not wait until they feel sick to cool down.
3. Planning: Develop and implement written procedures.
4. Training: for all employees and supervisors about prevention.

● Mandatory “High Heat Procedures” (= \geq 95 degrees)

- Ensure **effective** communication so employees can contact supervisor
- Designate one or more employees to call for emergency services
- **Encourage** employees to drink water.
- **Remind** employees of the right to a cool-down rest
- Hold **pre-shift** meetings on prevention
- **Observe** employees for signs and symptoms of heat illness
 - Supervisory/designee observation of **20** or fewer employees OR
 - Mandatory buddy system OR
 - **Regular** communication with sole EE by radio or cell

● PPE: A Risk Factor for Heat-Related Illness

Exertion, Clothing, and PPE increase your risk for heat-related illnesses

- Reduces or eliminates exposure to hazardous chemicals, physical hazards, and disease-causing organisms such as the coronavirus
- Reduces the body's normal way of getting rid of heat by sweat evaporation
- Holds excess heat and moisture inside PPE, making the worker's body even hotter
- Increases the physical effort to perform duties while carrying the extra weight of the PPE

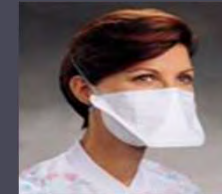


Photo courtesy of
Kimberly-Clark



Examples of PPE you may be required to wear.

The New York Times

Work Injuries Tied to Heat Are Vastly Undercounted, Study Finds

New data underline how heat waves can hurt people, especially the poorest workers, in unexpected ways.

● Heat: Growing Awareness & Action

Protecting Californians From Extreme Heat:

A State Action Plan to Build Community Resilience

April 2022

Indoor Heat Standard (2024)

- Effective July 2024
- All worksites where the temp $\geq 82^{\circ}\text{F}$
- Employer monitoring of temp or heat index (whichever is greater) & steps to minimize heat illness where $\geq 87^{\circ}\text{F}$



● Employer Requirements

- Indoor Heat Prevention Program
- Water
- Cool-down areas & breaks
- Assessment control measures
- Emergency Response Procedures
- Acclimatization
- Training

● Wildfire Smoke Standard (2019)

- Particulate Matter (PM) ~ 2.5

Wildfire smoke is composed of small particulate matter that presents a significant health hazard for exposed workers

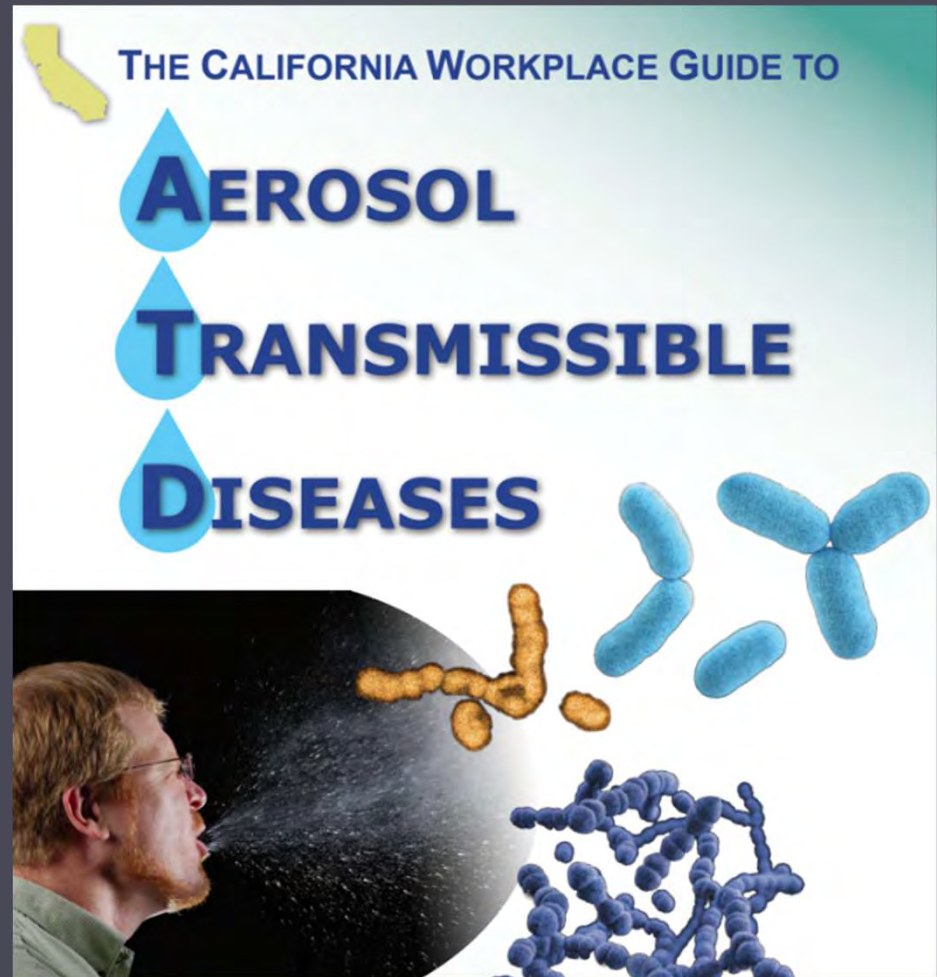


● Wildfire Smoke Standard

- Communication
- Training
- Engineering Controls
- Administrative Controls
- Respiratory protection voluntary or required

● ATD Protection 2009 / 2021

- Adopted in 2009 for health care industry
- COVID-specific standard 2021
 - Expired



Aerosol Transmissible Disease (ATD) Protection

- General ATD standard TBD

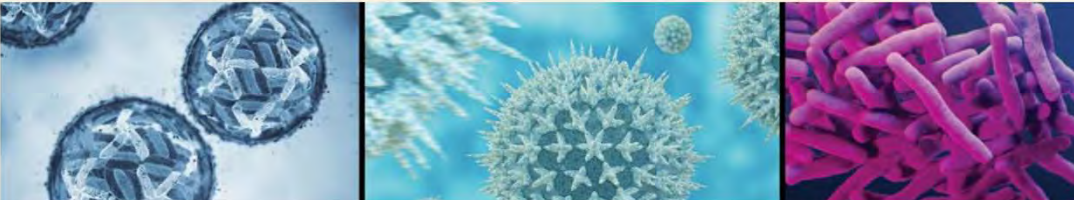
HARVARD T.H. CHAN SCHOOL OF PUBLIC HEALTH
Degrees & Programs Admissions Faculty & Research

Home / News / The next pandemic: not if, but when

Infectious Diseases

The next pandemic: not if, but when

By Karen Feldscher · September 12, 2024



California needs workplace protections now — for the next pandemic

WS The Machine Guard - a Blog of Worksafe Follow 3 min read · Jan 13, 2025



by Stephen Knight



In Spring 2020, illness and death swept across our state and the world in the wake of a new pathogen: COVID-19. At Worksafe, we huddled in crisis mode

Workers & Climate Emergencies

- Wildfire Evacuation
- Wildfire Cleanup

11/10/2020

Protections for Sonoma County workers near fire zones spotlighted after recent wildfires

News Obits Sports Business Opinion Food & Wine Lifestyle A&E Events Guide

Search...

Protections for Sonoma County workers near fire zones spotlighted after recent wildfires

CALIFORNIA WILDFIRES

As workers tackle the dangerous job of cleaning up after the LA fires, can the state keep them safe?

BY JEANNE KUANG AND ALEJANDRA REYES-VELARDE
JANUARY 17, 2025 UPDATED JANUARY 18, 2025

Republish



David Slater, right, clears the driveway from his home, spared from the Eaton Fire in Altadena, on Jan. 12, 2025. Photo by Ethan Swope, AP Photo

Workers & Climate Emergencies



Policy Priorities for Outdoor Worker Health and Safety During Wildfires

Background

Wildfires are becoming increasingly frequent and severe across California, a trend which is projected to worsen significantly due to climate change. Although policy conversations on wildfire often focus on property loss and danger to those living directly in evacuation zones, the impacts of growing wildfires stretch far beyond direct burn areas. In fact, by far the most pervasive impact of wildfires are the health impacts of wildfire smoke. Fine particles in the air

- Worker Rights Action Plan



Los Angeles Times

CALIFORNIA

Farmworkers keep dying from heat illness, 20 years after California vowed to protect them

Thank you!
Gracias!
Questions?
Preguntas?

Item 10 | Discussion



CA Governor's Office of
**Land Use and
Climate Innovation**

Item 10 | Public Comment



CA Governor's Office of
Land Use and
Climate Innovation

Item 11 | The Nature Conservancy: Nature-Based Solutions Funding and Governance



CA Governor's Office of
Land Use and
Climate Innovation

Funding Nature-based Solutions at Scale

**MICHELLE PASSERO, DIRECTOR CLIMATE AND
NATURE-BASED SOLUTIONS STRATEGY**

August 22, 2025

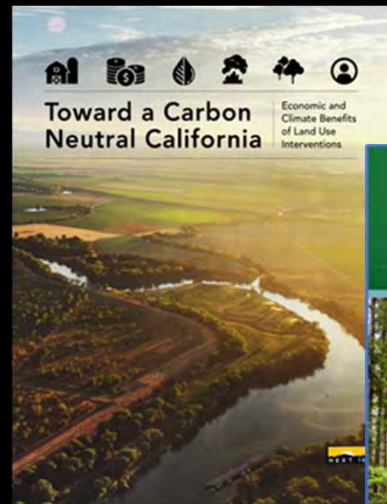




Our Mission:

To conserve the lands and waters
on which all life depends

Science to Support Climate Action & Goals



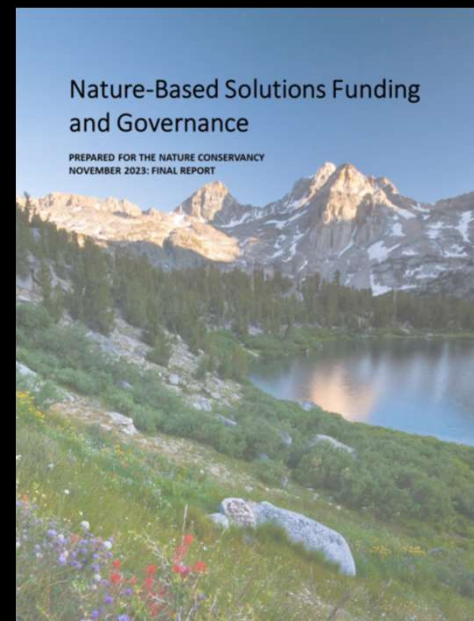
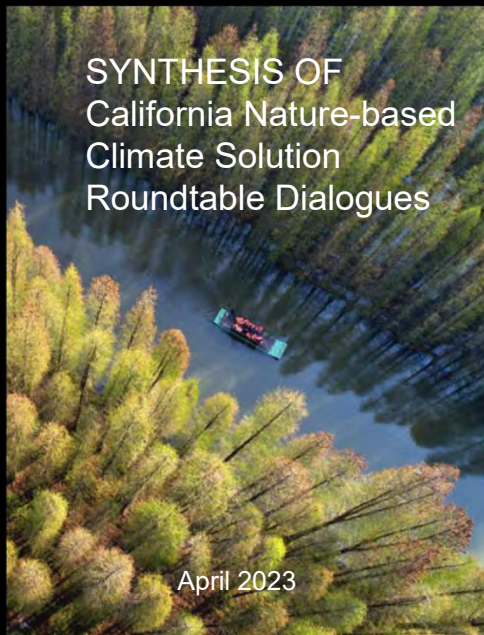
The Nature Conservancy

An aerial photograph of a river winding through a dense, green forest. The river is dark blue-green and flows from the upper left towards the lower right. The forest is thick and covers the entire landscape. The text is overlaid on the image in white.

Climate and NBS Strategy

Increase pace and scale of implementation in CA to support climate goals and multiple benefits

Barriers & Opportunities: Regional Discussions

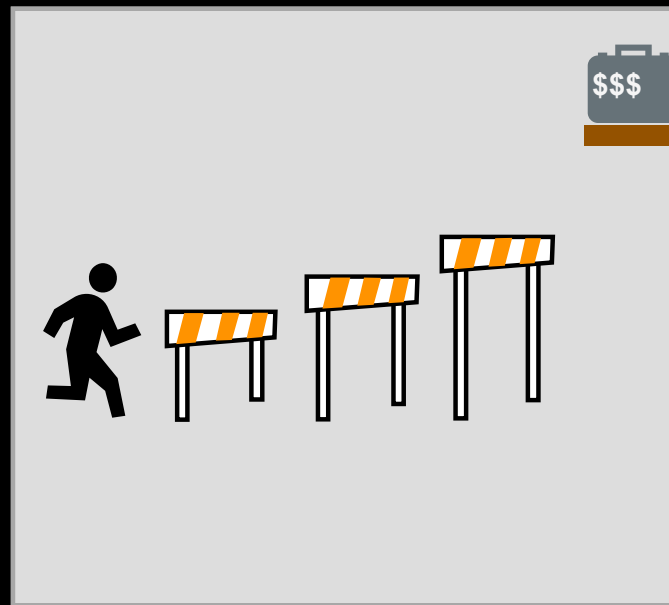


A Key Challenge:

Considerable financial investment & coordinated action needed

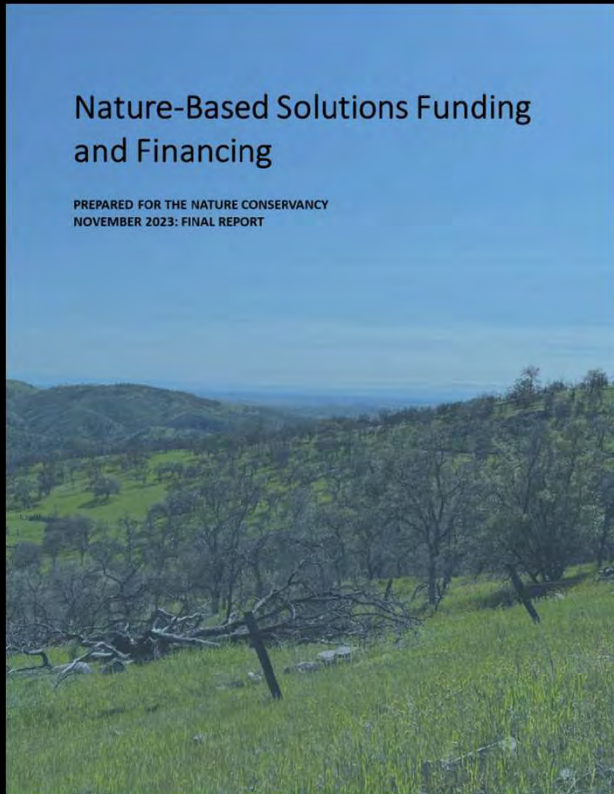


Level and stability of funding



**Model for distributing funds
("governance")**





Key Funding Barriers

Heavy reliance on grant-based funding for NBS.

Underpins majority of the challenges for funding large-scale NBS

Lack of trust and barriers to collaboration.

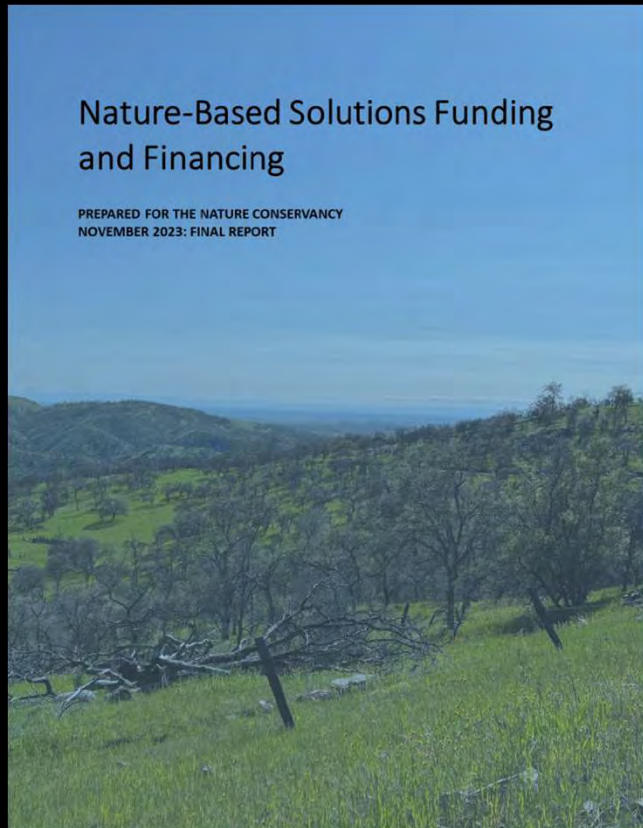
Current processes erode trust, disempower local implementers, and create competition between potential partners

Limited capacity for local implementation.

Most existing funding does not support operations, maintenance, and workforce development, which are critical to NBS success

This report was prepared by Eastern Research Group, Inc. (ERG) in 2023 in collaboration with The Nature Conservancy and Sierra Foothill Conservancy

Ways to Address Barriers



Nature-Based Solutions Funding and Financing

PREPARED FOR THE NATURE CONSERVANCY
NOVEMBER 2023: FINAL REPORT

Ensure continuity and stability through diverse \$ sources

Distribute funds intentionally

Effectively communicate economic value and public benefit of NBS

Tie funding to approved measures or plans

Streamline and align processes

Balance trust, oversight and accountability

Empower local implementers

Working Concept

NBS Funding Facilitator

Existing or New Entity

Distributes/facilitates funds (public and/or private) to implementers at county/regional scale

Workshopping concepts and recommendations with local government partners

Synthesis and next steps this fall

Thank you!

MPassero@tnc.org



Nature-Based Solutions for Los Angeles County

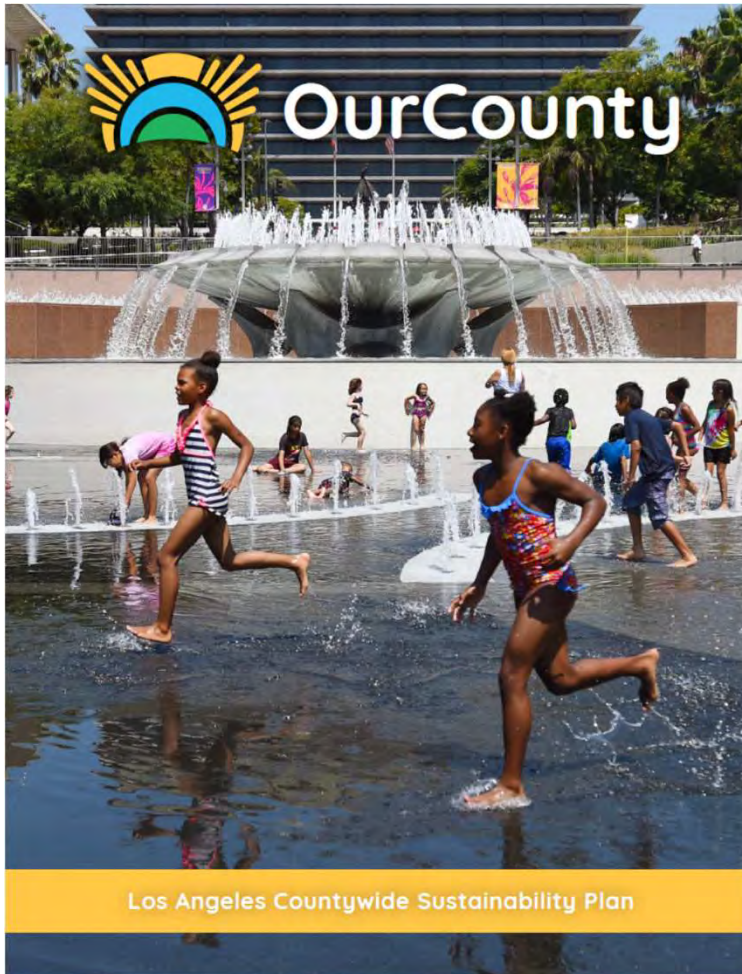
ICARP Technical Advisory Council Meeting













August 22, 2025



LA County Chief Sustainability Office
Environment • Economy • Equity

OurCounty Sustainability Plan



-  Goal 1: Resilient and healthy community environments where residents thrive in place.....
-  Goal 2: Buildings and infrastructure that support human health and resilience.....
-  Goal 3: Equitable and sustainable land use and development without displacement
-  Goal 4: A prosperous LA County that provides opportunities for all residents and businesses and supports the transition to a green economy
-  Goal 5: Thriving ecosystems, habitats, and biodiversity
-  Goal 6: Accessible parks, beaches, recreational waters, public lands, and public spaces that create opportunities for respite, recreation, ecological discovery, and cultural activities.....
-  Goal 7: A fossil fuel-free LA County.....
-  Goal 8: A convenient, safe, clean, and affordable transportation system that enhances mobility and quality of life while reducing car dependency.....
-  Goal 9: Sustainable production and consumption of resources
-  Goal 10: A sustainable and just food system that enhances access to affordable, local, and healthy food
-  Goal 11: Inclusive, transparent, and accountable governance that facilitates participation in sustainability efforts, especially by disempowered communities
-  Goal 12: A commitment to realize OurCounty sustainability goals through creative, equitable, and coordinated funding and partnerships.....

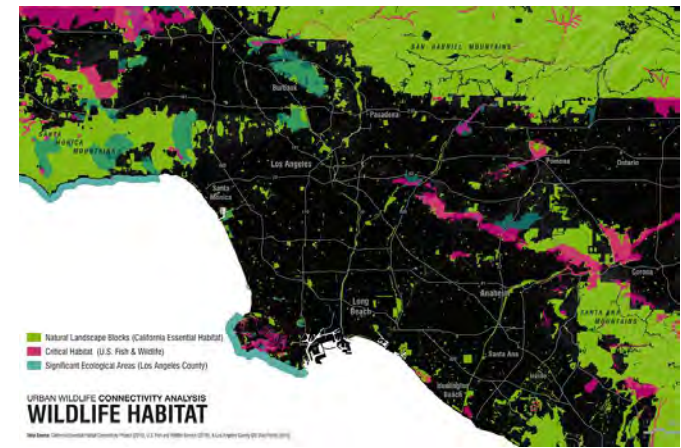
Ongoing Efforts



Community Forest Management Plan (CFMP)



Parks Needs Assessment Plus (PNA+)



South LA County Habitat Connectivity Master Plan



Native Plants



Depaving Assessment



IFLA Grant TA

Regional Perspective

1. Balancing regional vision with local action
2. Alleviating administrative burden
3. Elevating biodiversity



Item 11 | Discussion



CA Governor's Office of
**Land Use and
Climate Innovation**

Item 12 | Implementing Nature-Based Solutions in the Eastern Sierra



CA Governor's Office of
Land Use and
Climate Innovation



Jobs First / Climate Change / Public Lands

Implementing Nature-Based Solutions in Eastern California

August 22, 2025



ICARP

Integrated Climate Adaptation & Resiliency Program

Federal Reserve Bank
of San Francisco





I C A R P

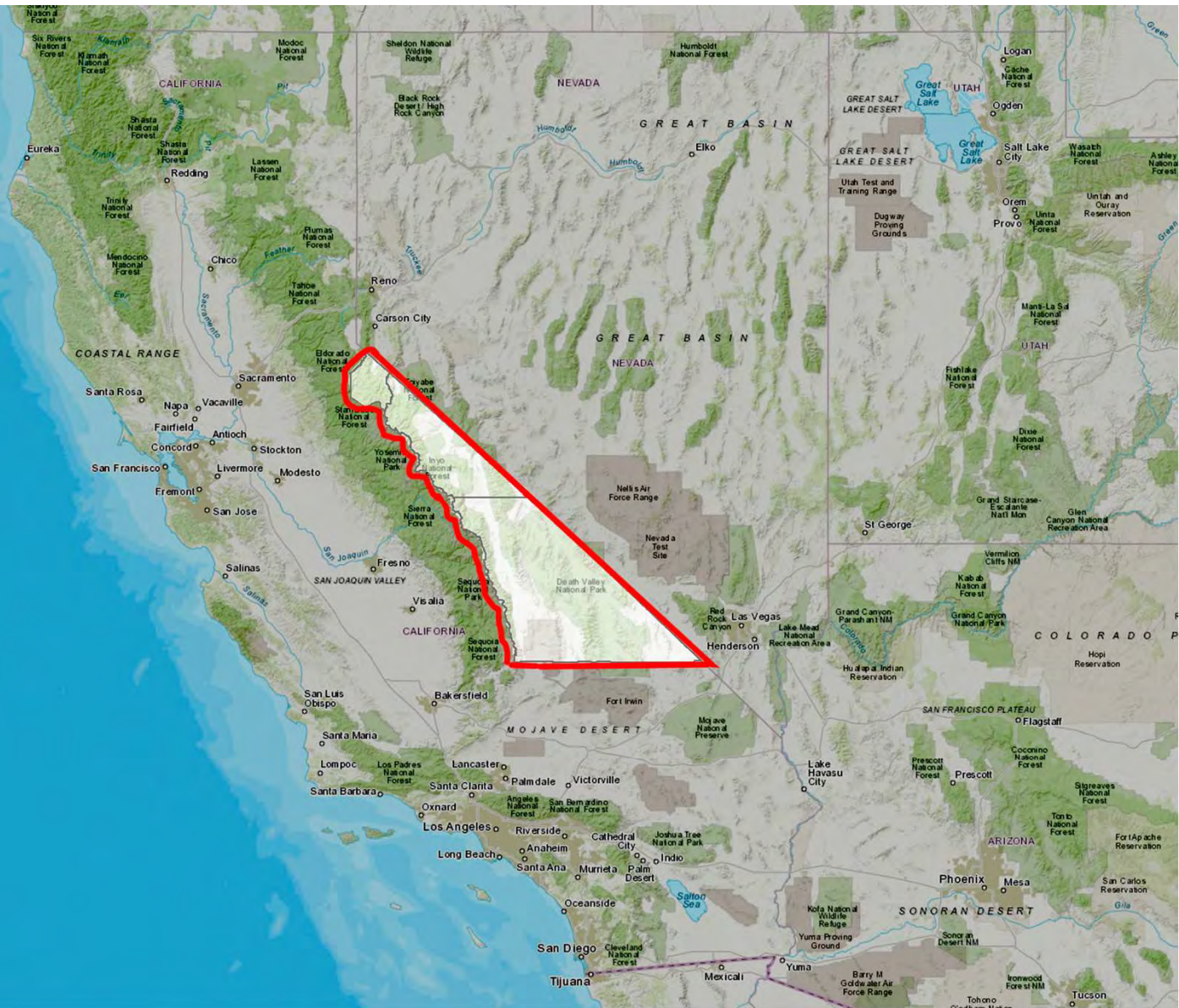
Integrated Climate Adaptation & Resiliency Program

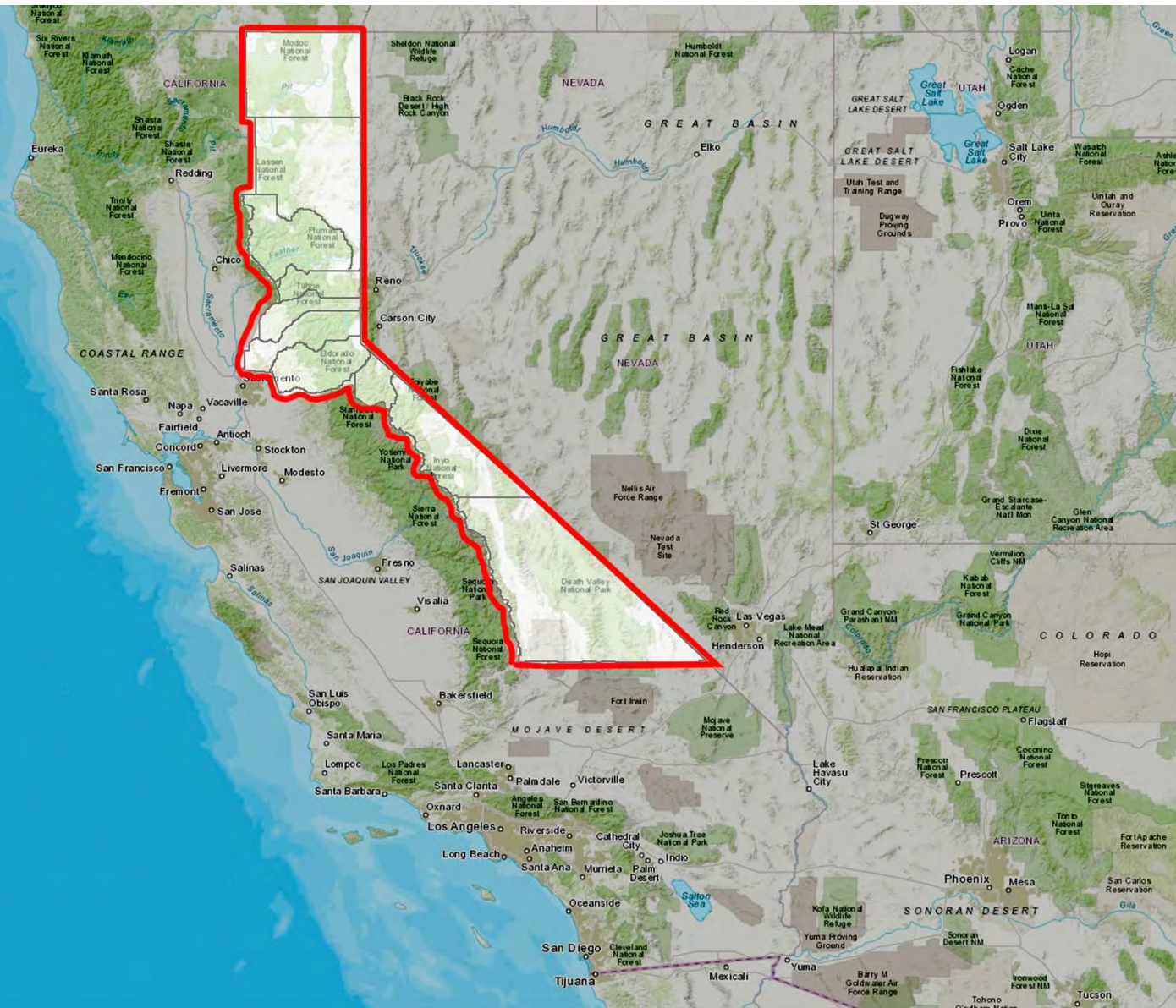
● Federal Reserve Bank
of San Francisco

“Investing in Climate Adaptation: Challenges and Opportunities for Sierra and Cascade Communities”

How is Eastern California represented?

How are California's natural resources managed?





CALIFORNIA JOBS FIRST



**CALIFORNIA
JOBS FIRST**

State Economic Blueprint

February 2025



The 13 Jobs First Regions

- ① North State
- ② Redwood
- ③ Capital
- ④ Sierra
- ⑤ Bay Area
- ⑥ North San Joaquin
- ⑦ Central San Joaquin
- ⑧ Central Coast
- ⑨ Kern County
- ⑩ Los Angeles County
- ⑪ Inland SoCal
- ⑫ Orange County
- ⑬ Southern Border





Sierra Region

- **Sustainable Recreation & Tourism**
 - Natural & Working Lands
- Clean Energy & Energy Resilience
- Sustainable Agriculture & Food Systems
 - Community Healthcare

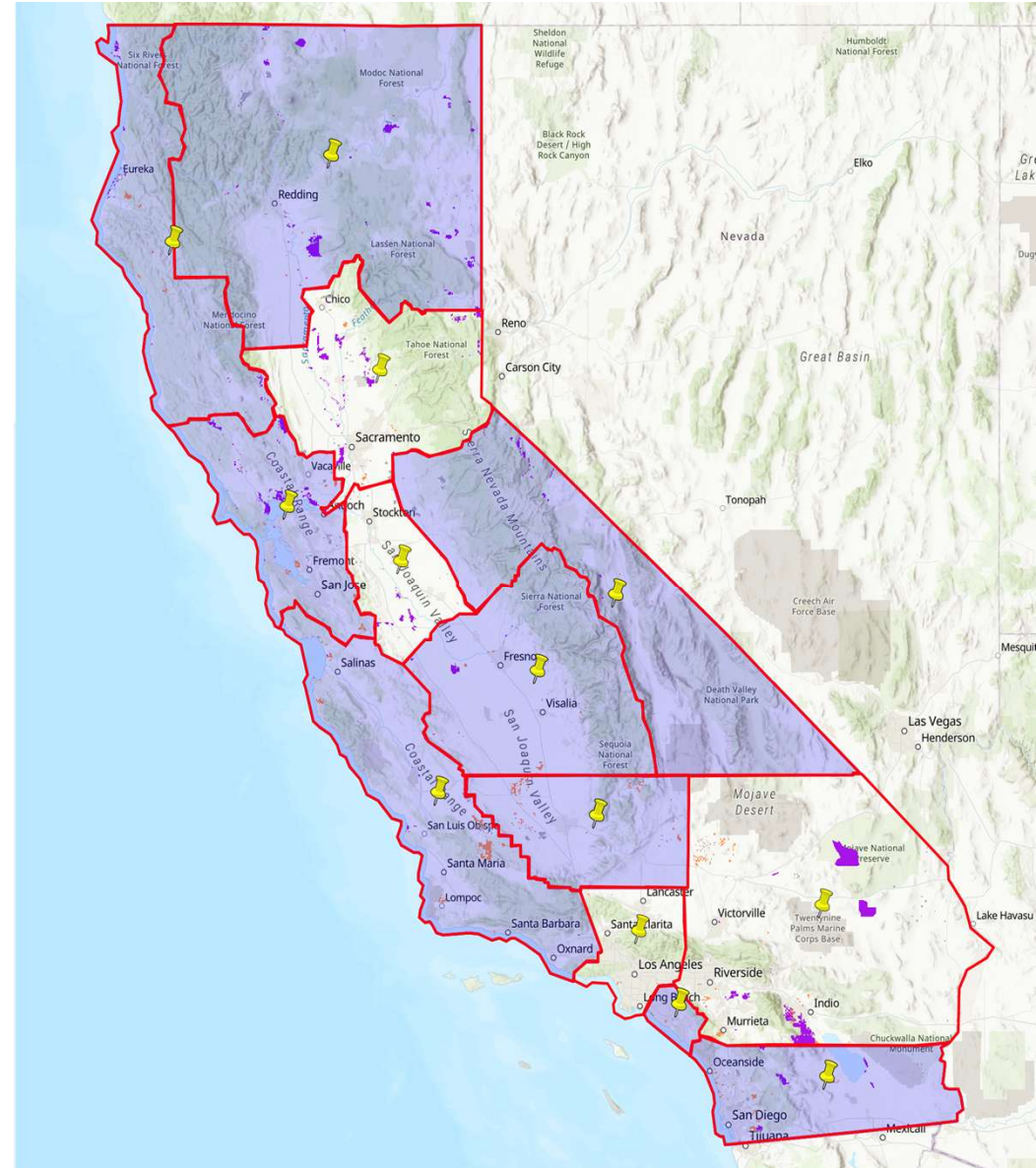
Distinct Regional Economies Informed by Unique Natural Resources & Community Assets

California spans over 160,000 square miles, making it comparable in size to countries like Japan and Sweden.⁸³ Along with this vast scale comes a wide range of topographies and economies defined by these different natural features.

Natural Resources

California has more than 840 miles of coastline, the highest and lowest points in the continental U.S., more than 25,000 square miles of desert, and the tallest trees on the planet.⁸⁴ Our geographic variation is one of the reasons we are home to nine of the country's 61 national parks, the most of any state.⁸⁵ These parks drive significant tourism to California (nearly 11.4 million visitors in 2023),⁸⁶ contributing to the more than \$150 billion travel spend that took place in California in 2023, an all-time high.⁸⁷

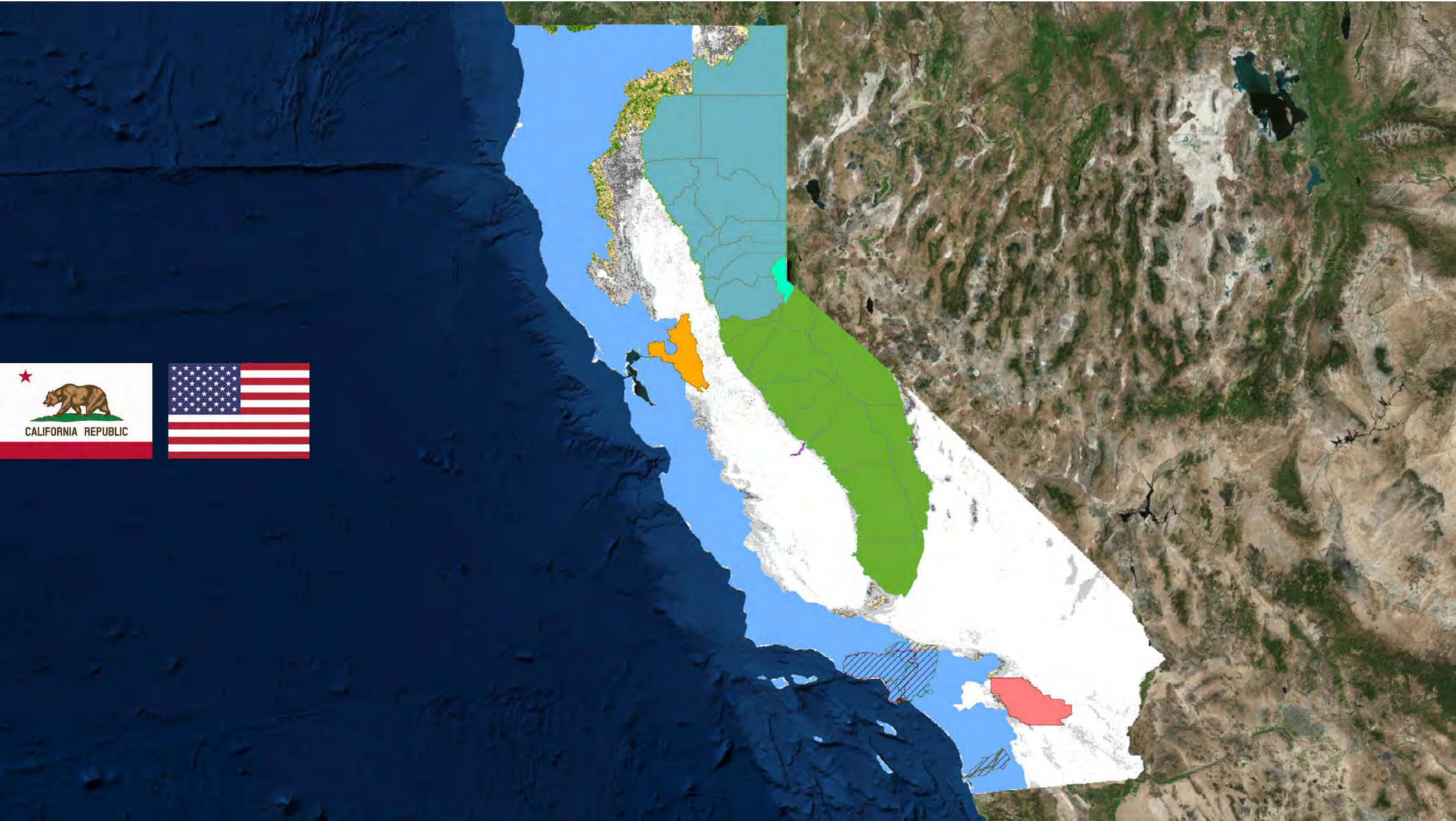
Our natural resources also underpin our leadership in other industries, from agriculture to renewable energy. Over one-third of the nation's vegetables and three-quarters of its fruits and nuts are grown in California alone.⁸⁸ We also boast an estimated 340,000 acres of land with potential for solar energy development,⁸⁹ as well as unparalleled deposits of critical minerals necessary for numerous clean technologies that comprise 15% of global rare-earth element supply.⁹⁰













North Sierra

North Central Sierra

Central Sierra

South Central Sierra

East Sierra

South Sierra



**CALIFORNIA
WILDFIRE
& FOREST
RESILIENCE
TASK FORCE**





RESILIENCE
TASK FORCE

“California Accelerates Nature-Based Solutions to Achieve Climate Targets and Reduce Wildfire Risk”





Shared Stewardship

**AGREEMENT FOR SHARED STEWARDSHIP OF CALIFORNIA'S FOREST AND
RANGELANDS**

**Between the
STATE OF CALIFORNIA
And the
USDA, FOREST SERVICE
PACIFIC SOUTHWEST REGION**

**WILDFIRE
& FOREST
RESILIENCE
TASK FORCE**





Shared Stewardship

AGREEMENT FOR SHARED STEWARDSHIP OF CALIFORNIA'S FOREST AND RANGELANDS

Between the
STATE OF CALIFORNIA
And the
USDA, FOREST SERVICE
PACIFIC SOUTHWEST REGION

- 7. Improve Access to Sustainable Recreation:** Foster a range of forest and wildland opportunities that reflect the needs of and better serve California's diverse population. The Parties will pursue mission-appropriate and sustainable recreation opportunities in ways that leverage resources and extend capacity through partnerships and alignment around a shared vision of access and diversity. Examples include improved transportation opportunities, more affordable lodging options, increasing accessible trails and facilities, and targeting low income communities that lack access.

CALREC Vision



**Cross-Jurisdictional
Collaboration
To Advance Sustainable
Outdoor Recreation
In California**



CALIFORNIA'S WILDFIRE AND FOREST RESILIENCE ACTION PLAN



**A Comprehensive Strategy
of the Governor's
Forest Management
Task Force**

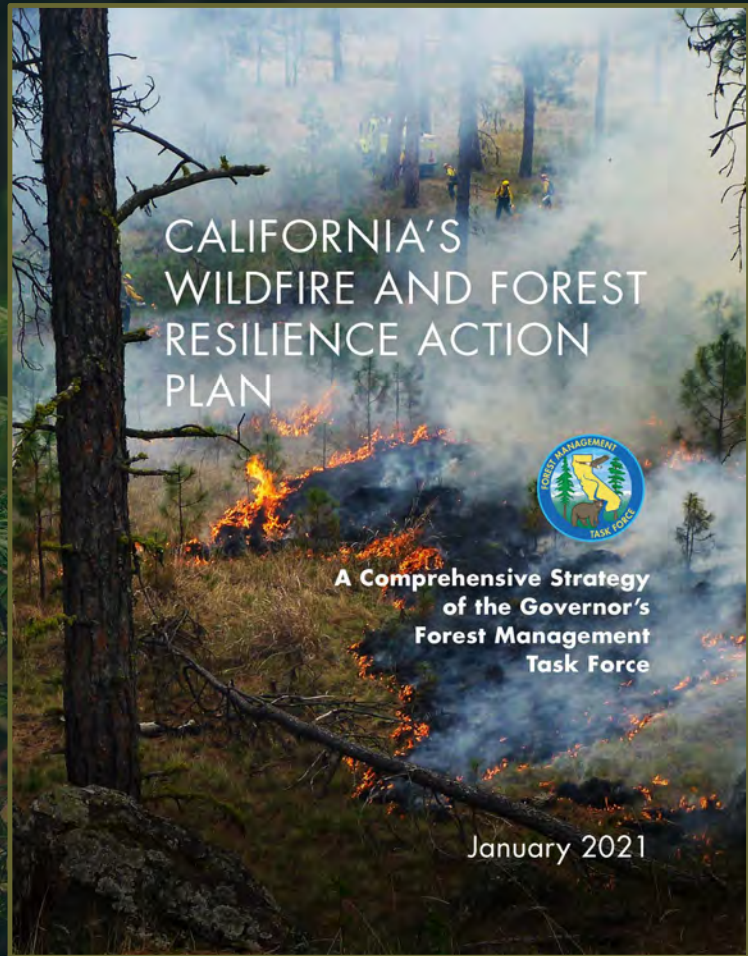
January 2021



**CALIFORNIA'S JOINT STRATEGY
FOR SUSTAINABLE OUTDOOR
RECREATION & WILDFIRE RESILIENCE**



**PREPARED FOR THE CALIFORNIA WILDFIRE
AND FOREST RESILIENCE TASK FORCE
DECEMBER 12, 2022**



**CALIFORNIA'S
WILDFIRE AND FOREST
RESILIENCE ACTION
PLAN**



**A Comprehensive Strategy
of the Governor's
Forest Management
Task Force**

January 2021

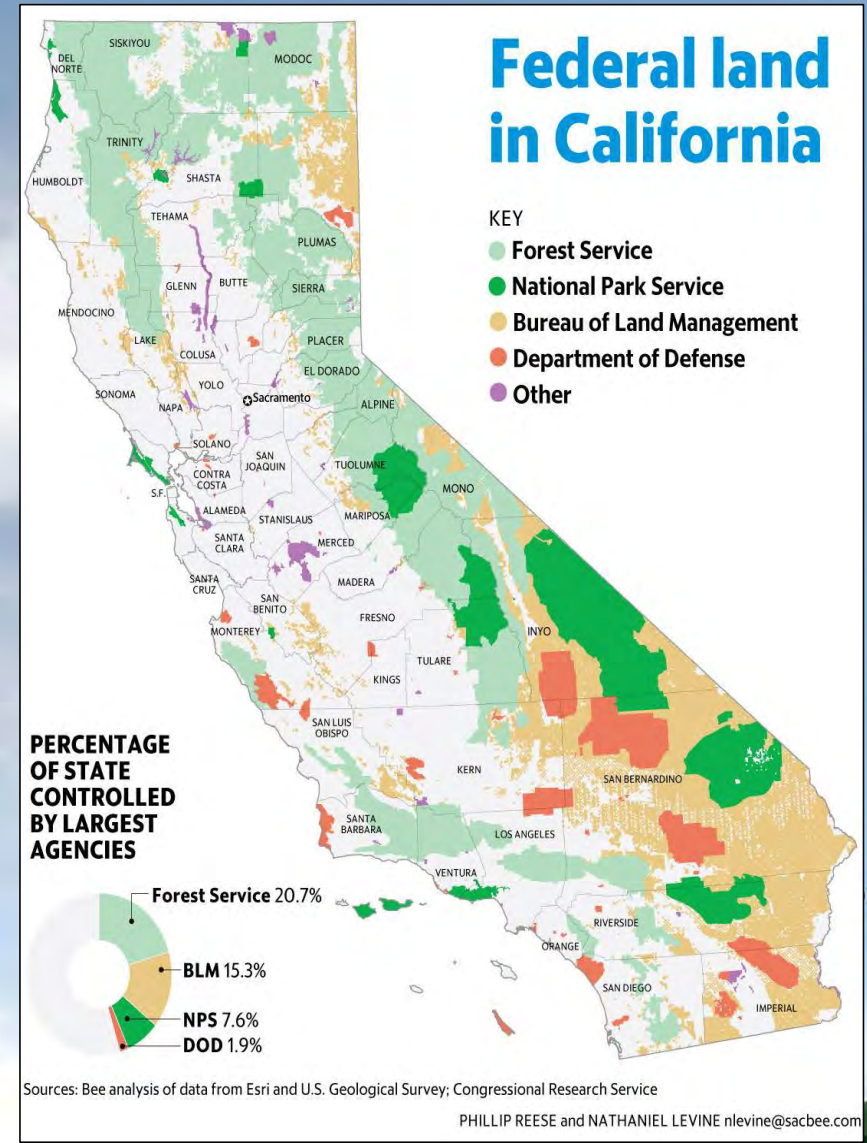




OUTDOOR RECREATION IN CALIFORNIA ...



*Source: 2015 Statewide Comprehensive Outdoor Recreation Plan (SCORP), California Department of Parks and Recreation





Jobs First



Climate Change



Public Lands



Jobs First



Climate Change



Public Lands

Alpine

EASTERN SIERRA REGIONAL SUMMARY PART I



California Jobs First

December 29, 2023

Primary Author, Regional
Convener, and Fiscal Agent:



SIERRA JOBS FIRST
COLLABORATIVE

2024 Strategic Plan

Regional Plan: Part II



Governing Council Approved August 23, 2024



Chapter 4 Target Industries Strategy Area

Sustainable Recreation & Tourism

Building a Sustainable Tourism Economy

SECTOR DEFINITION

The Sustainable Tourism Industry Sector includes natural and cultural attractions, arts, outdoor activities, events, and historic sites. Sustainable tourism is focused on current and future economic, social, and environmental impacts and addresses the needs of visitors, the industry, the environment, and host communities. Data and feedback indicate the region's robust recreation and tourism sector is a critical economic driver. Leveraging the region's natural assets, arts, historic sites, and community events has significant potential for developing quality jobs.

SECTOR SNAPSHOT

Sustainable recreation and tourism dominate the regional economy and represent nearly 25% of all employment.

This industry sector is broad in scope and includes everything from accommodations and lodging to outdoor recreation, arts and cultural attractions, food service, and some retail operations.

The location quotient is 1.64, indicating that 64% more tourism jobs exist in the region than the employment average in California for this sector. The highest number of jobs exist in food service and accommodations for this sector, as listed on the next page. Jobs in these two industries tend to be low-wage jobs. This industry sector represents one of the most significant areas for wage improvement to achieve region-wide income goals, as many jobs in this sector today pay under \$50,000 annually.

Strategies in this sector will need to work to find creative ways to build opportunities for high-quality job growth in these specific industry areas.

OUTCOME STATEMENTS

- › Sierra employees, especially those in the food service and accommodations, can access high-quality jobs in the recreation and tourism sector.
- › Local, state, tribal, federal, and private landowners work together to unlock regional opportunities.
- › Significant regional public and private investments support new opportunities and ongoing maintenance needs in the arts, history, and recreational opportunities.
- › A climate-resilient, environmentally responsible recreation and tourism economy exists in the region.

BY THE NUMBERS

SECTOR LOCATION QUOTIENT

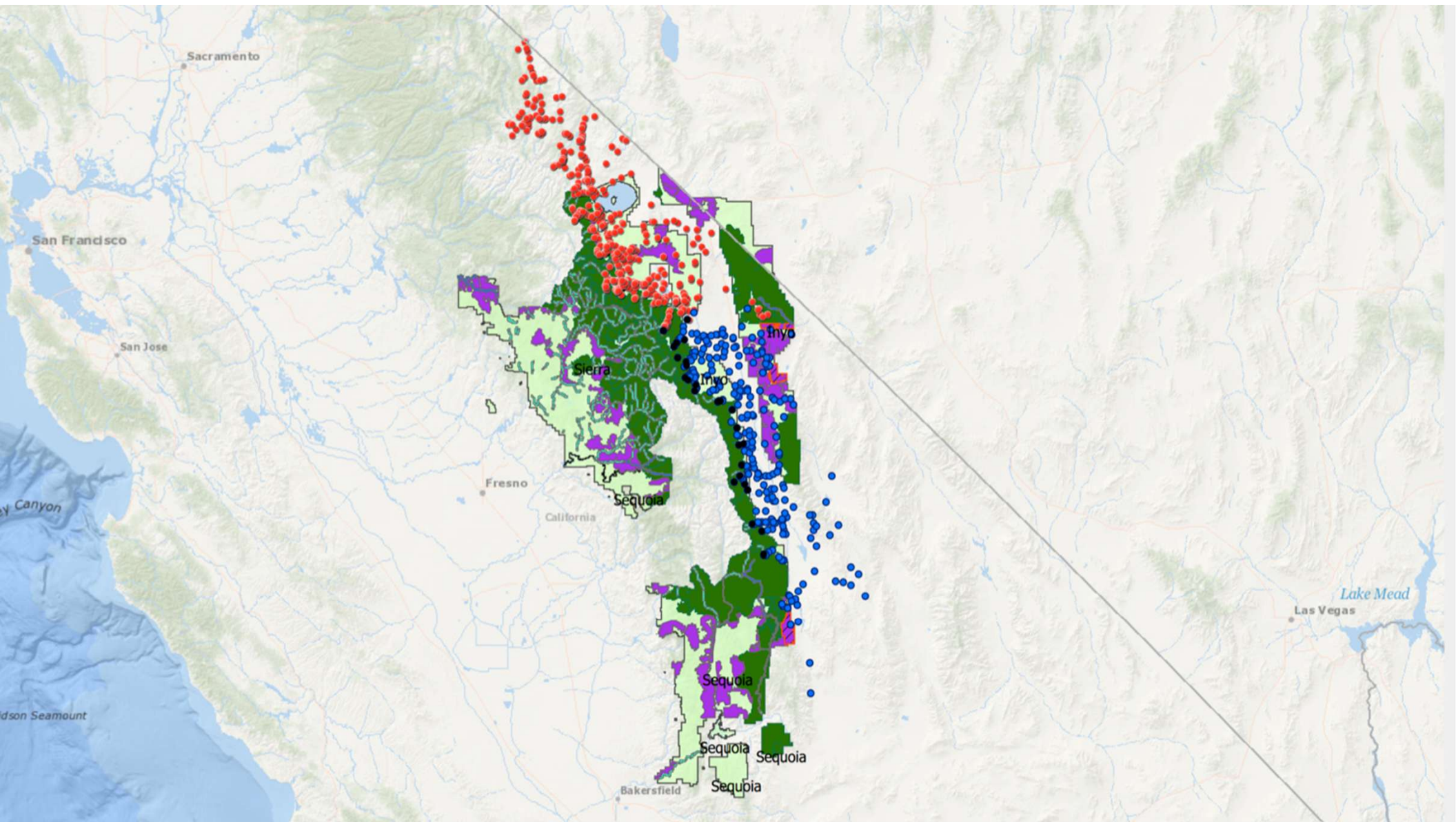
1.64

Sustainable recreation represents an area of economic specialization for the region, with an occupation rate 64% higher than statewide averages across this economic sector. With its high employment numbers, this is an important regional investment area.

TOTAL SECTOR EMPLOYMENT IN REGION 2023

17,642 jobs
28.1% of region employment

Regionally, about three of every 10 jobs fall within the sustainable recreation sector, indicating that these economies are heavily tied to the continuation and advancement of the local workforce.



Recreational Activities



Backcountry skiing



Bicycling



Camping,
backpacking, and
primitive camping



Cross-country skiing



Downhill skiing



Driving for pleasure



Fishing



Gathering forest
products



Hiking/walking



Horseback riding



Hunting



Motorized trail
activities



Other snow activities



Picnicking



Rock climbing



Viewing natural
features and wildlife



Visiting historic sites
and nature centers



Water-based
activities



Wellness



Catalyst Projects

Regional Economic Impact Studies



Environmental & Climate Resilience in Creation



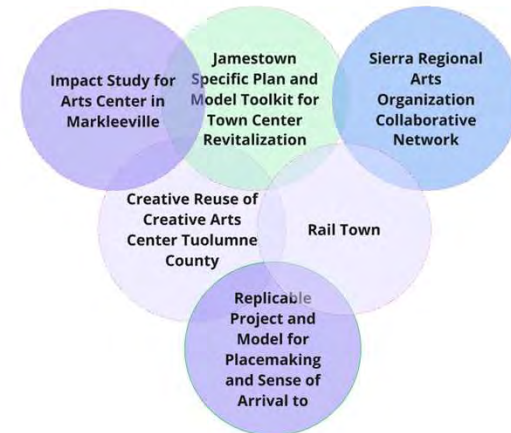
Workforce Development & Small Business in Recreation



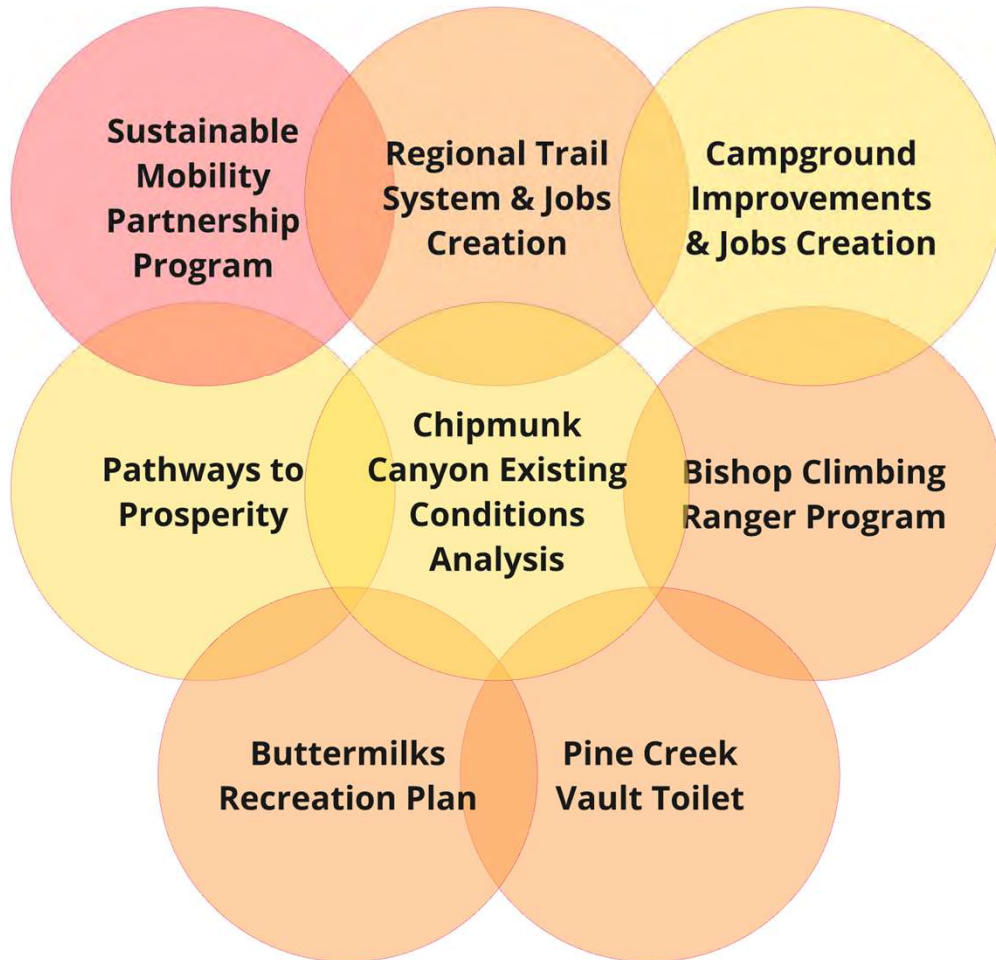
Regional Trail Systems & Infrastructure



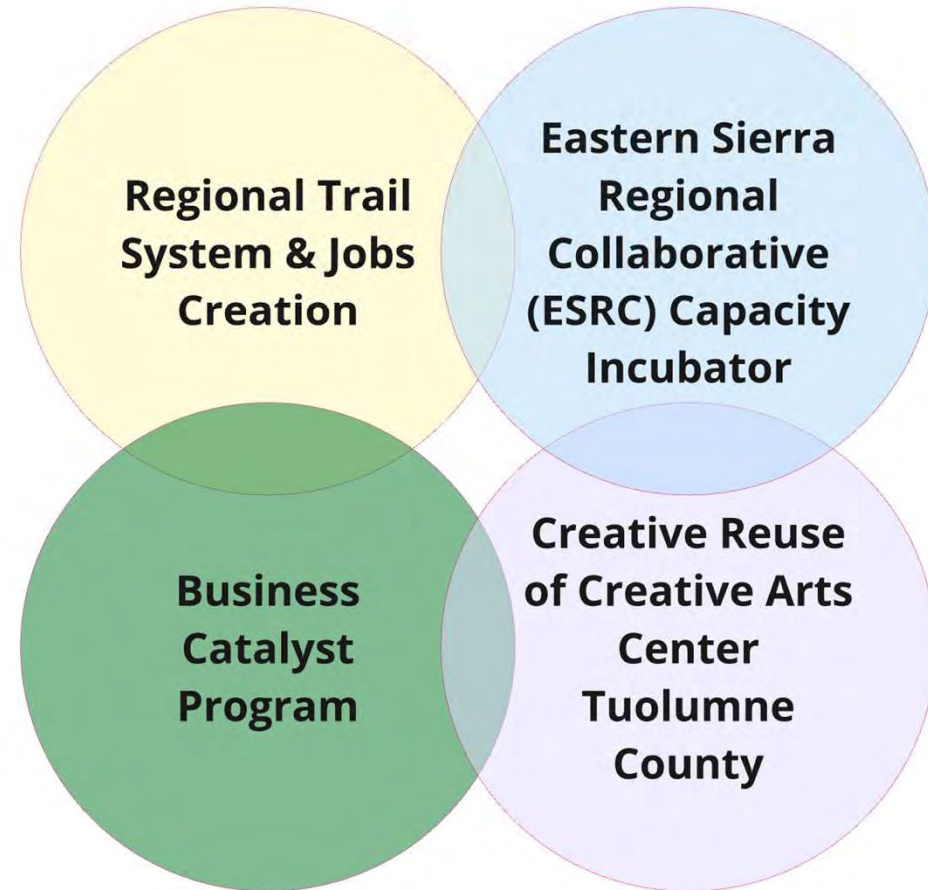
Arts, Culture & Placemaking



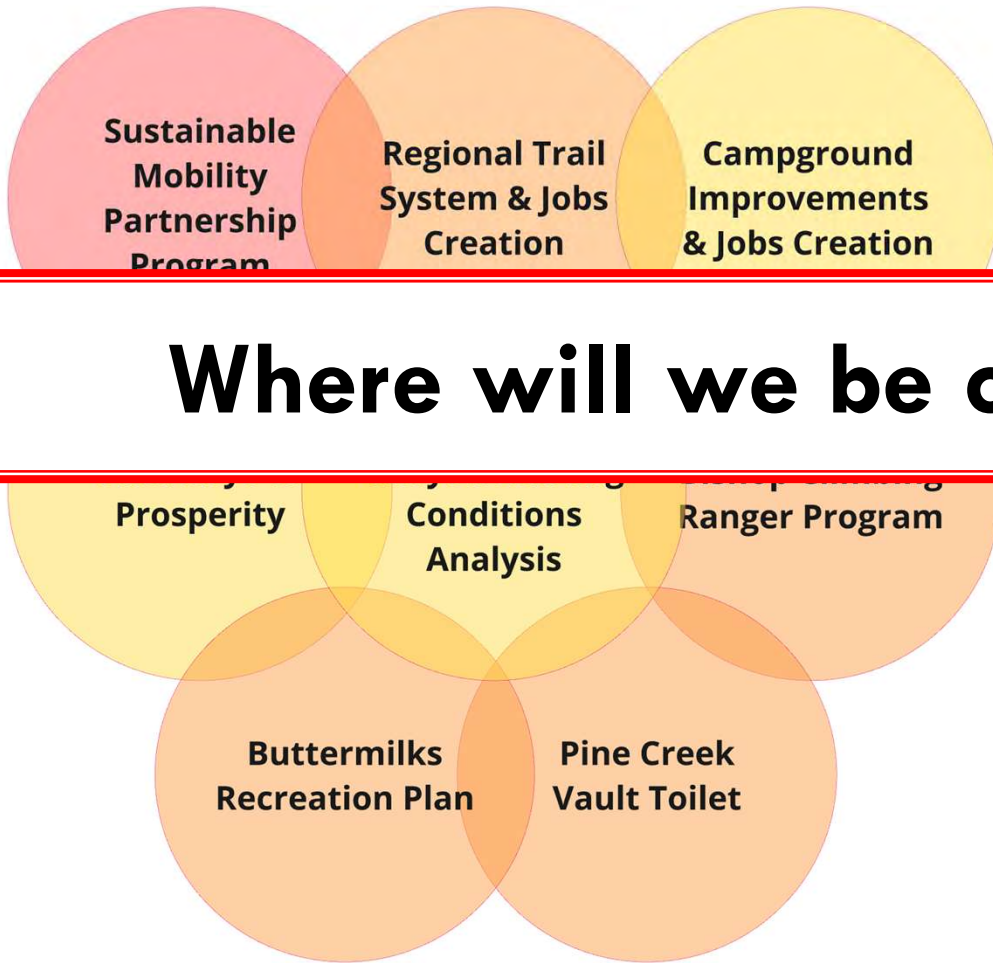
Regional Trail Systems & Infrastructure



Environmental & Climate Resilience in Creation



Regional Trail Systems & Infrastructure



Environmental & Climate Resilience in Creation




Where will we be on October 1, 2026?





Resource Detail

A Changing Climate | Vulnerability in California's Eastern Sierra

 Source

Authors

Eastern Sierra Sustainable Recreation Partnership

Published

2021

Description

Vulnerability in California's Eastern Sierra presents the results of two technical analyses: a Climate Change Vulnerability Assessment and a Natural Capital Assessment. The Climate Change Vulnerability Assessment looks at the severity and likelihood of how climatic changes to air quality, increased drought, flooding, wildfires, severe weather, etc. may affect specific populations and recreational activities that contribute to the Eastern Sierra's recreational economy. The Natural Capital Assessment takes an economic approach to estimate the natural capital currently available to the region that may be jeopardized by the impacts of climate change.

Region:



Extent: Alpine County, Inyo County, Mono County

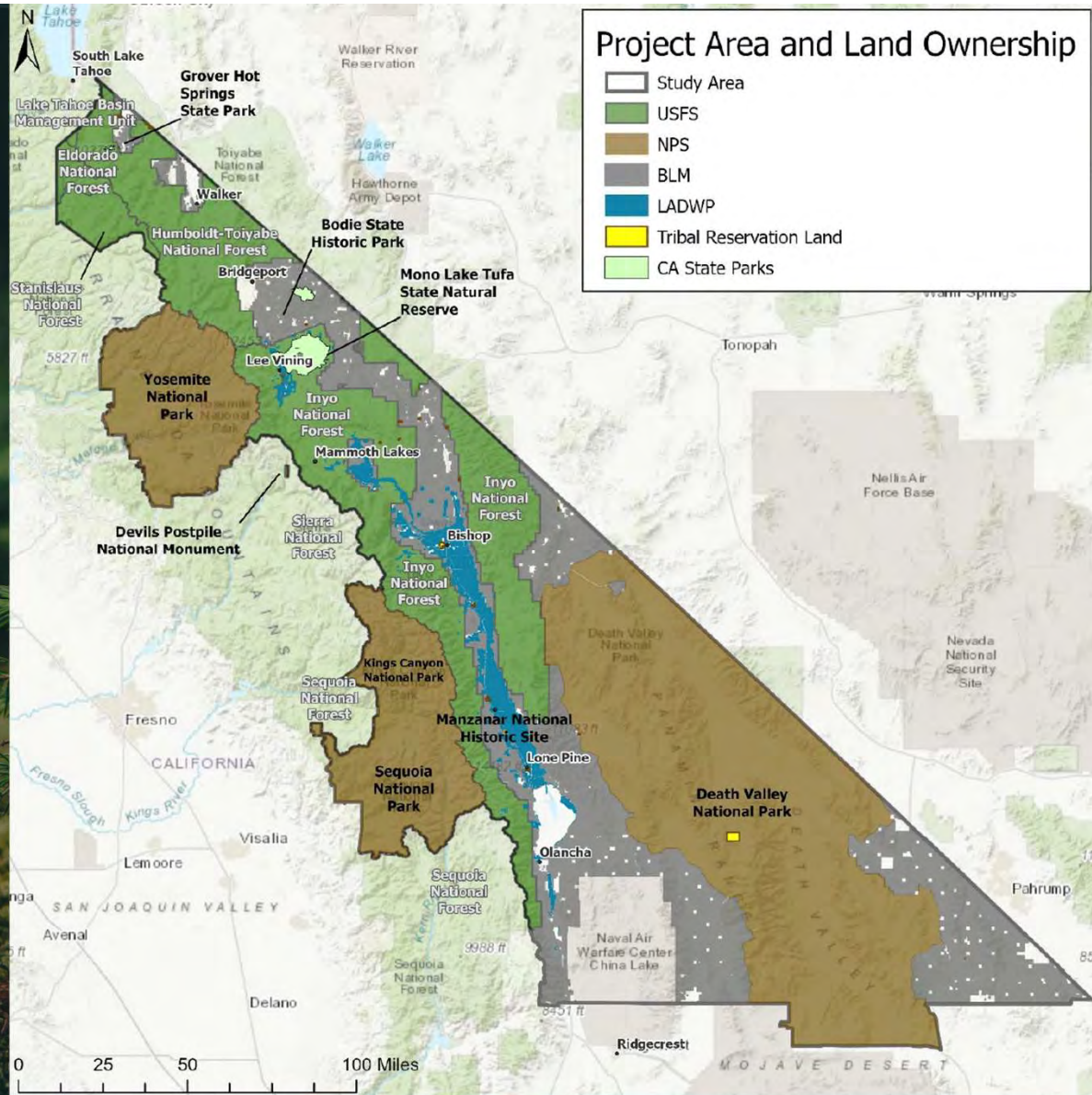
 1149 Views

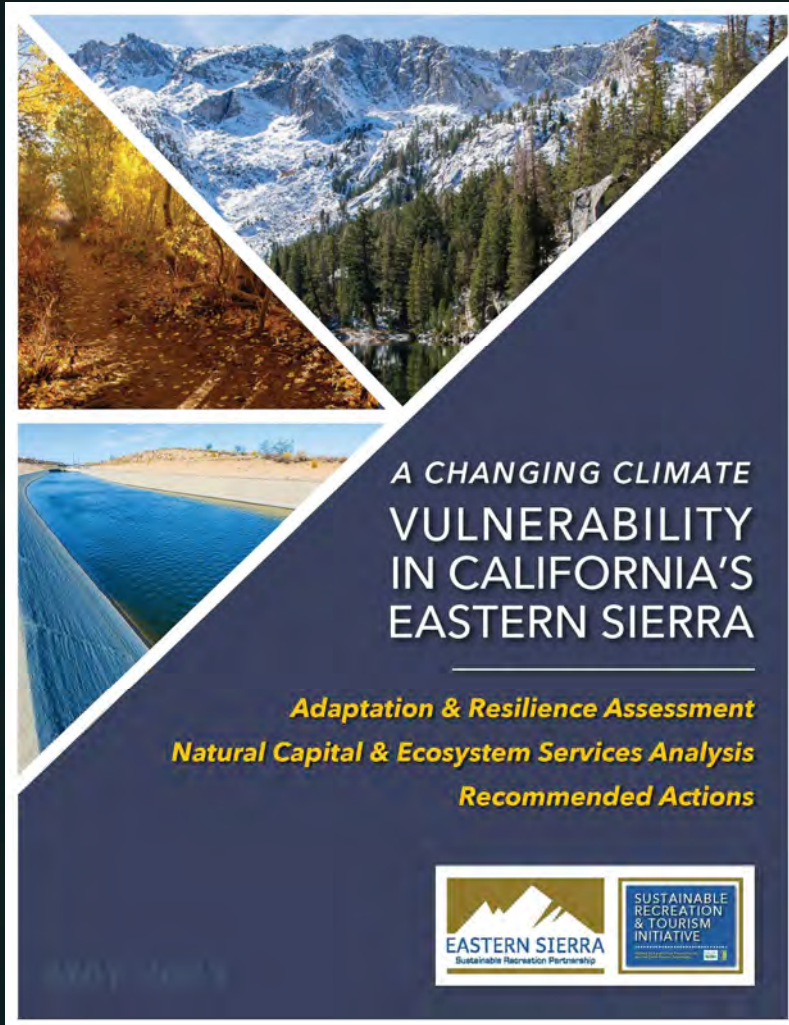
Last updated: Aug. 12, 2025



A CHANGING CLIMATE VULNERABILITY IN CALIFORNIA'S EASTERN SIERRA

*Adaptation & Resilience Assessment
Natural Capital & Ecosystem Services Analysis
Recommended Actions*





Evaluates the impacts of climate change hazards on recreation and tourism

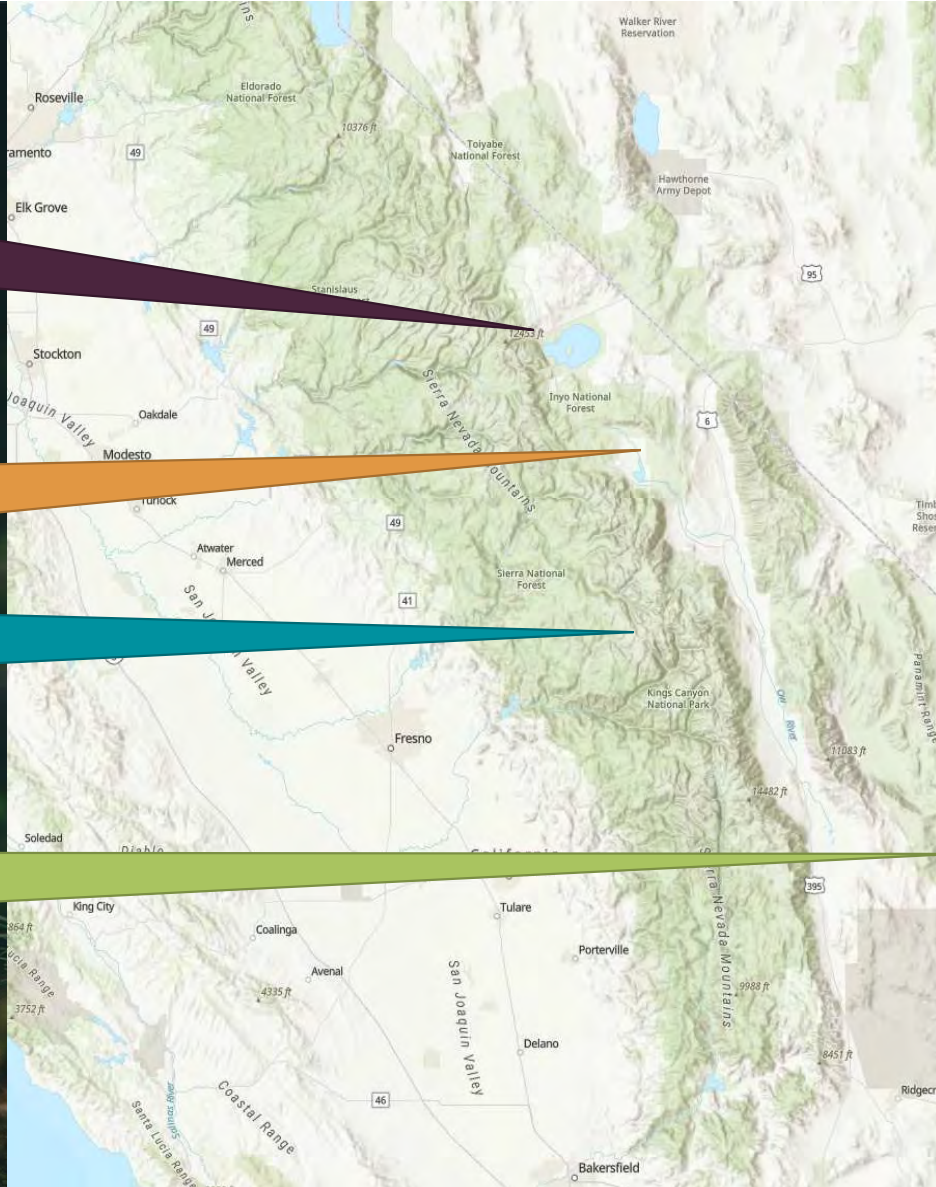
- What are the risks to the region?
- Who and what is most vulnerable?
- What are the impacts to the regional economy?
- Looks at risks to separate management units.

Wetlands:
\$5 billion

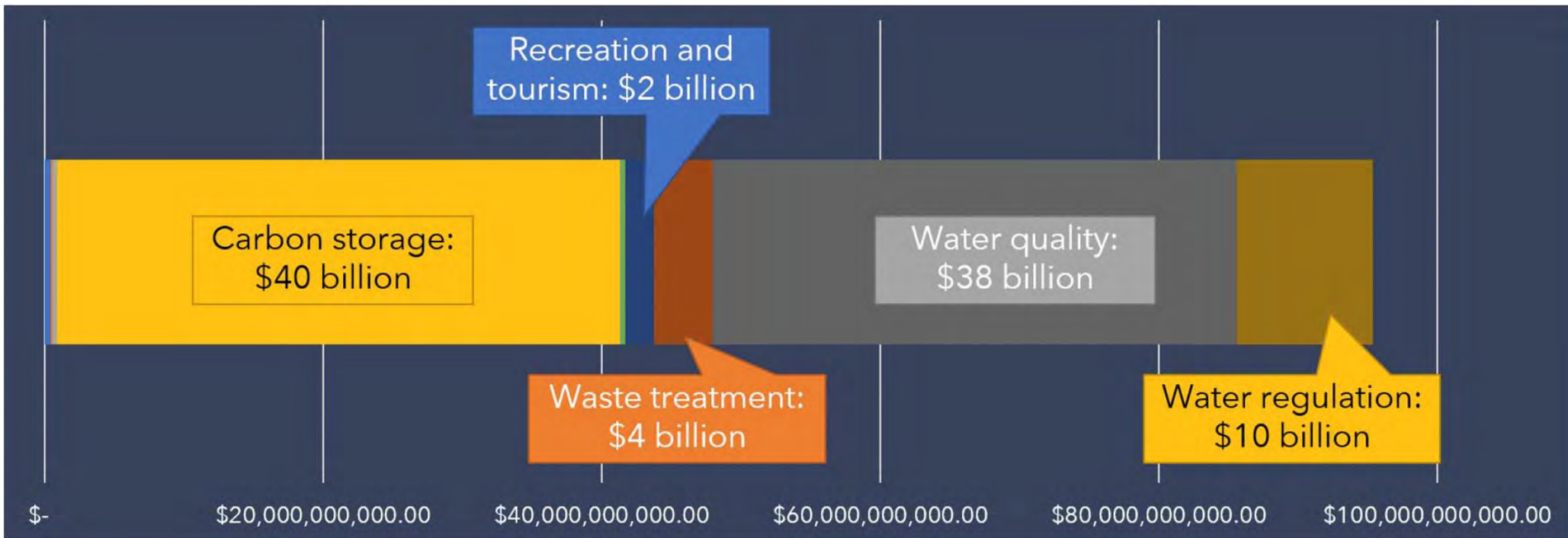
Shrubland:
\$33 billion

Conifer forests:
\$44 billion

Desert shrub:
\$5 billion



Ecosystem Services Valuations





**CALIFORNIA
WILDFIRE
& FOREST
RESILIENCE
TASK FORCE**



Update the Wildfire & Forest Resilience Action Plan



Joint Strategies 2025 Deliverables



- Beneficial Fire
- Fire-Adapted Communities
- Private Landowner
- Recreation
- Reforestation
- Watersheds
- Wood Utilization
- Workforce

Science and Data



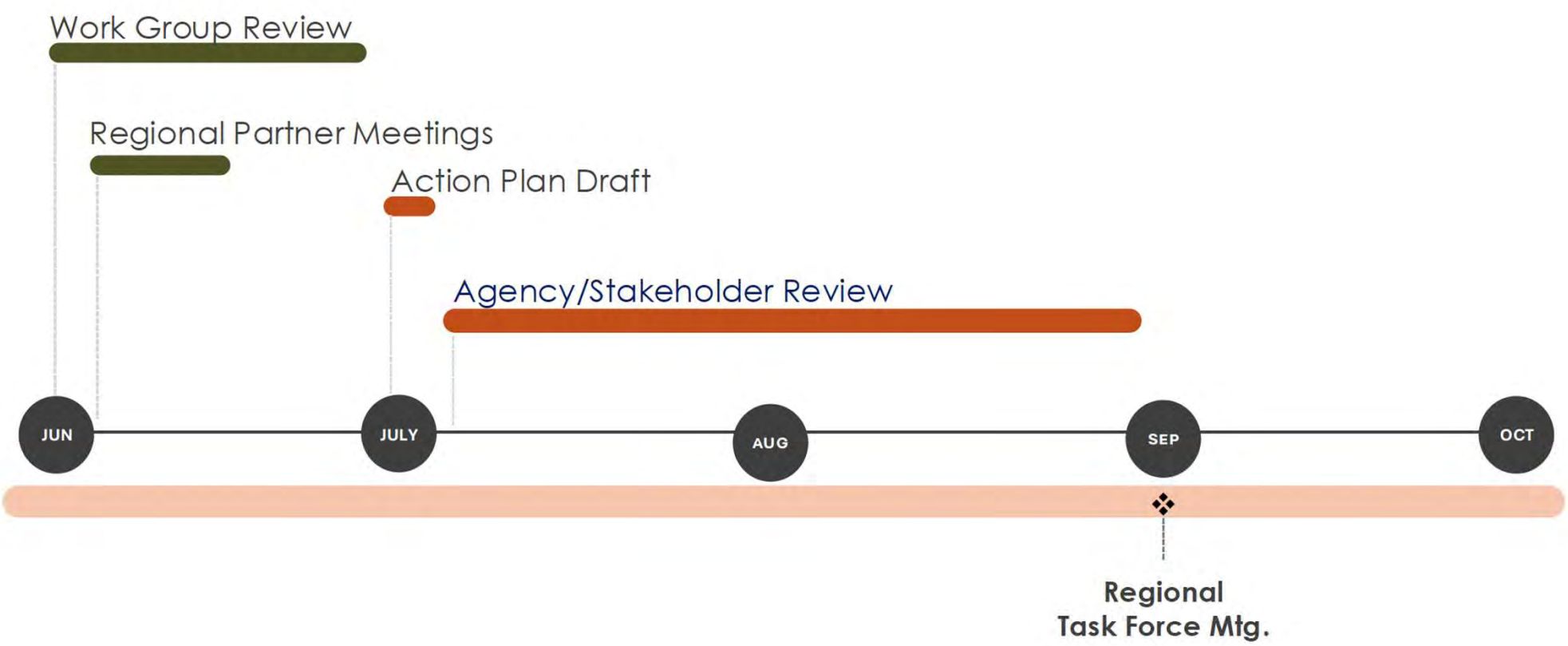
- Science Synthesis and Forest/Range Assessment
- Interagency Treatment Tracker
- Million Acre Modeling and Benefits Assessment
- Core Reporting Metrics

Regional Frameworks



- Regional Profiles and Priorities
- Regional Resilience Plans and Resource Kits
- Regional Investment Strategies

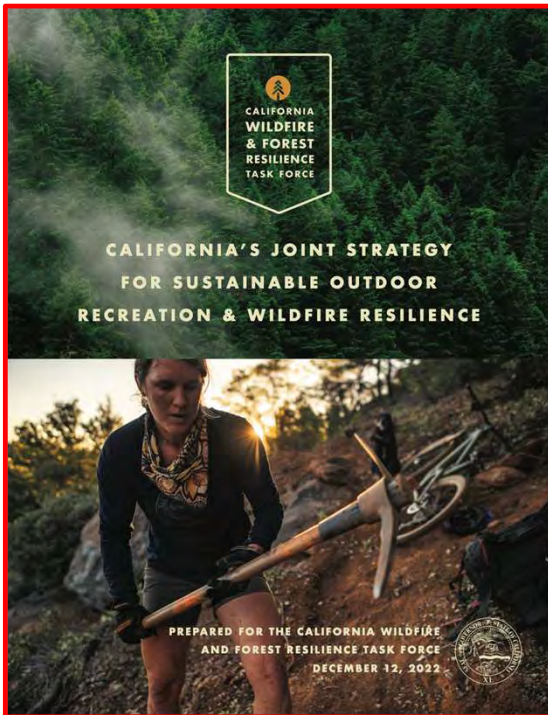
2025 Action Plan Schedule



Update the Wildfire & Forest Resilience Action Plan



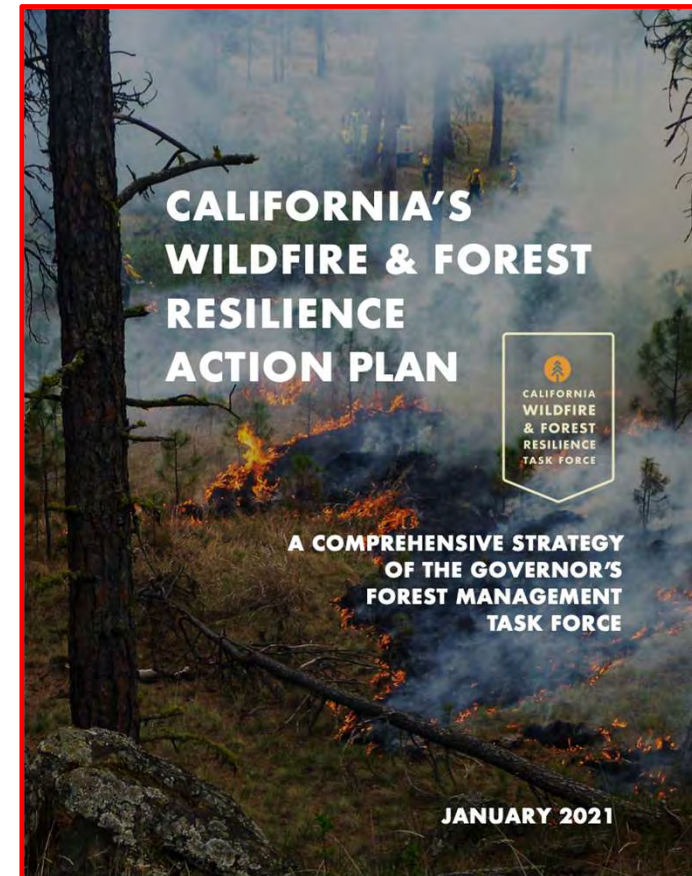
Joint Strategies 2025 Deliverables



Science and Data



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Update the Wildfire & Forest Resilience Action Plan

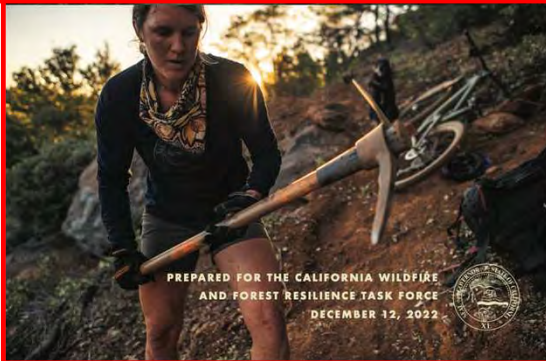


Joint Strategies
2025 Deliverables

Science and



“...to coordinate on behalf of both the Sustainable Recreation Working Group and also as representatives of Jobs First...”



- Interagency Treatment Tracker
- Million Acre Modeling and Benefits Assessment
- Core Reporting Metrics



Update the Wildfire & Forest Resilience Action Plan

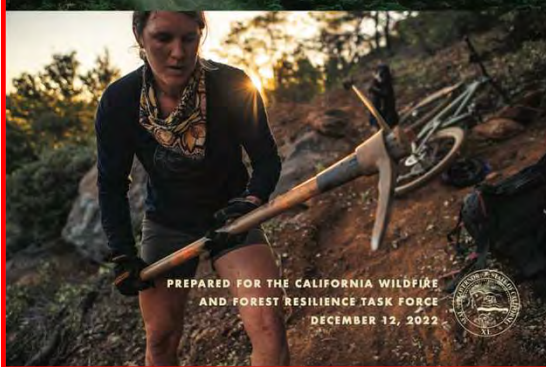


Joint Strategies
2025 Deliverables

Science and
Data



Enhance Recreation Opportunities Generate Jobs & Economic Benefits



- Interagency Treatment Tracker
- Million Acre Modeling and Benefits Assessment
- Core Reporting Metrics



Task Force Regions - 5 Year Plans





CALIFORNIA
WILDFIRE & FOREST RESILIENCE
TASK FORCE

Sierra Nevada Region

Sarah Campe, Regional Scientist, Sierra Nevada Conservancy

Paul Ringgold, Chief Program Officer, Save the Redwoods League

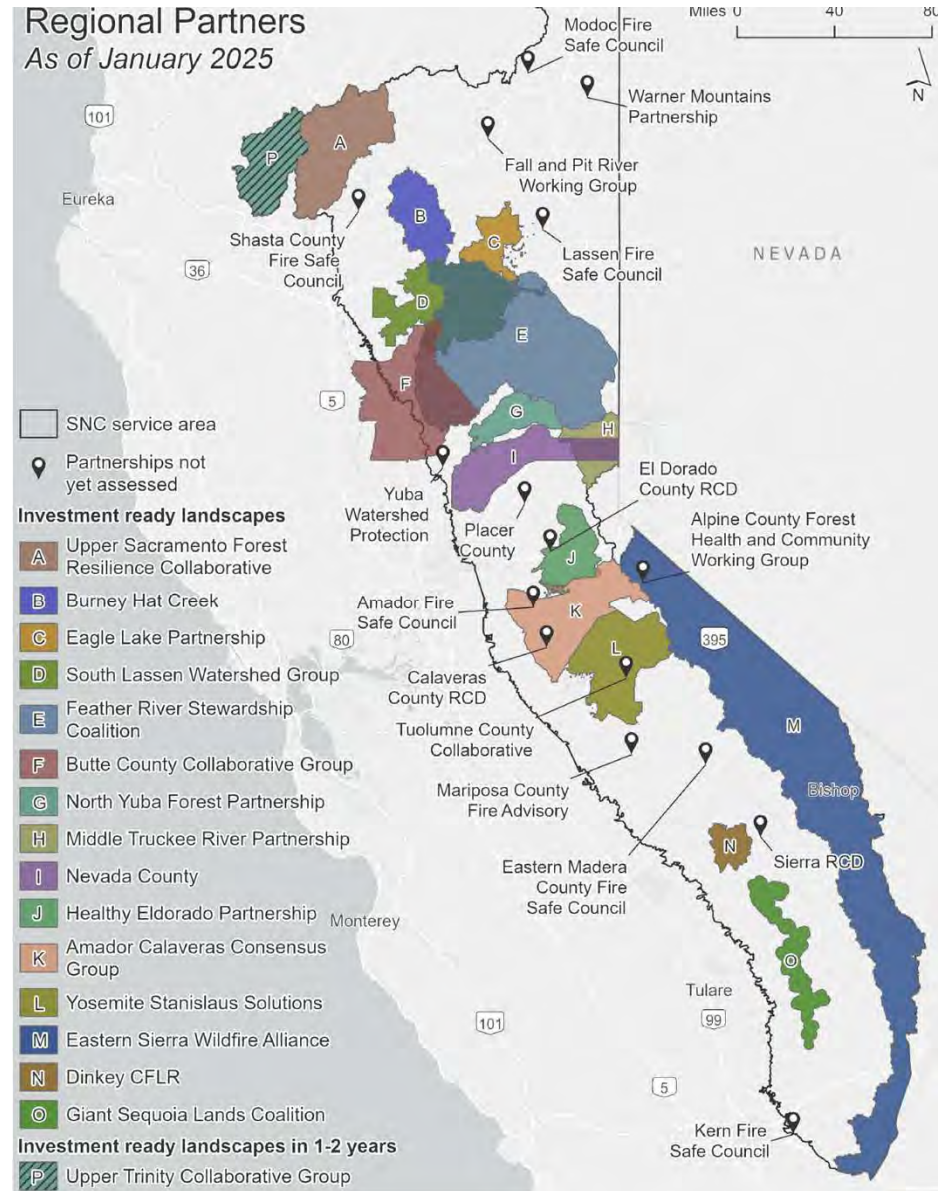


Ready Landscapes

How the Sierra Nevada Conservancy thinks about supporting & funding landscape-scale work

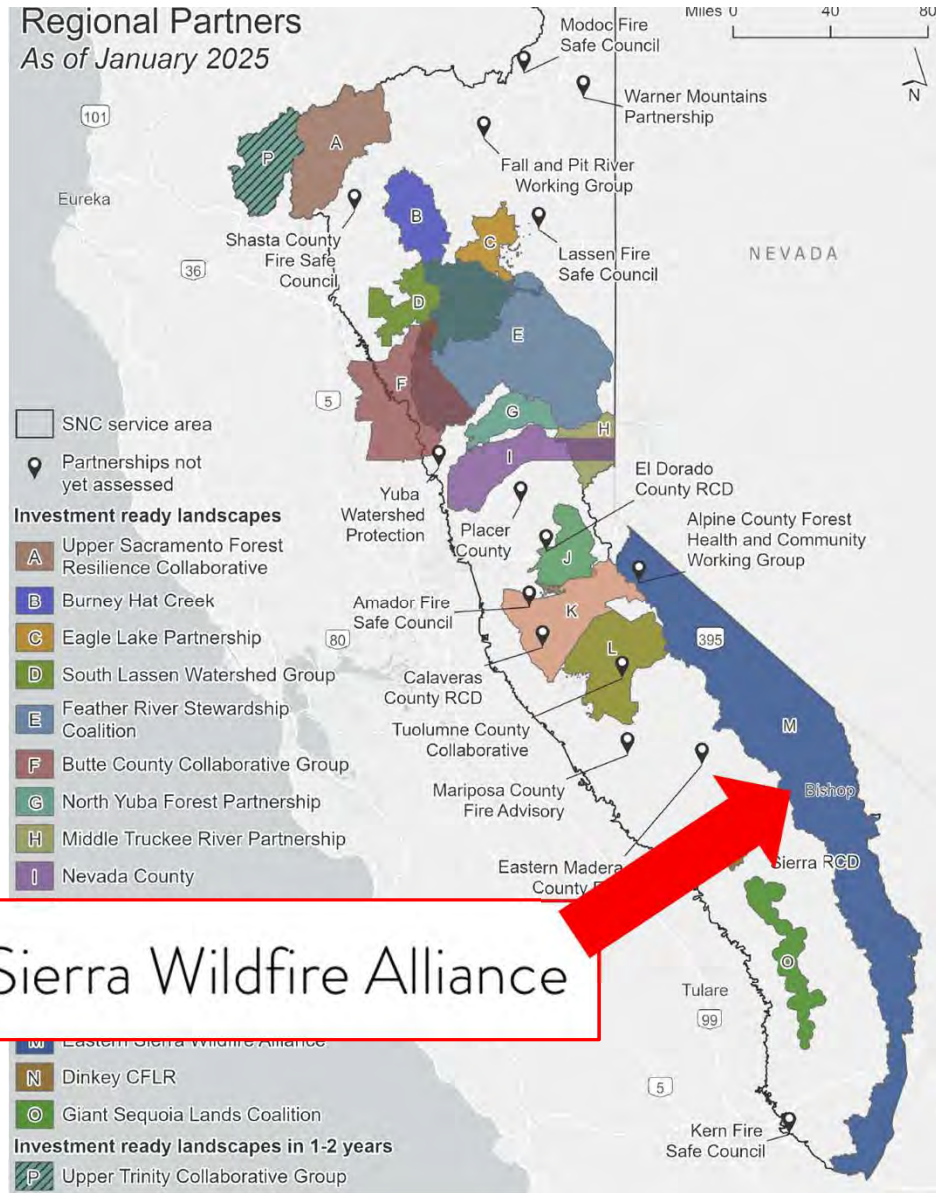


Regional Partners As of January 2025





Regional Partners
As of January 2025



Eastern Sierra Wildfire Alliance

Eastern Sierra Wildfire Alliance

[Home](#)

[About](#)

[Projects & Programs](#)

[Meetings](#)

[Resources](#)

[Be Prepared](#)

[Fire Safe Councils](#)

An aerial photograph of a town nestled in a valley. The town is surrounded by green fields and some trees. In the background, there are large, rugged mountains with patches of snow. The sky is clear and blue. A semi-transparent grey box is overlaid on the center of the image, containing the text 'Building Regional Wildfire Resilience' in white.

Building Regional
Wildfire Resilience

Eastern Sierra Wildfire Alliance

[Home](#)

[About](#)

[Projects & Programs](#)

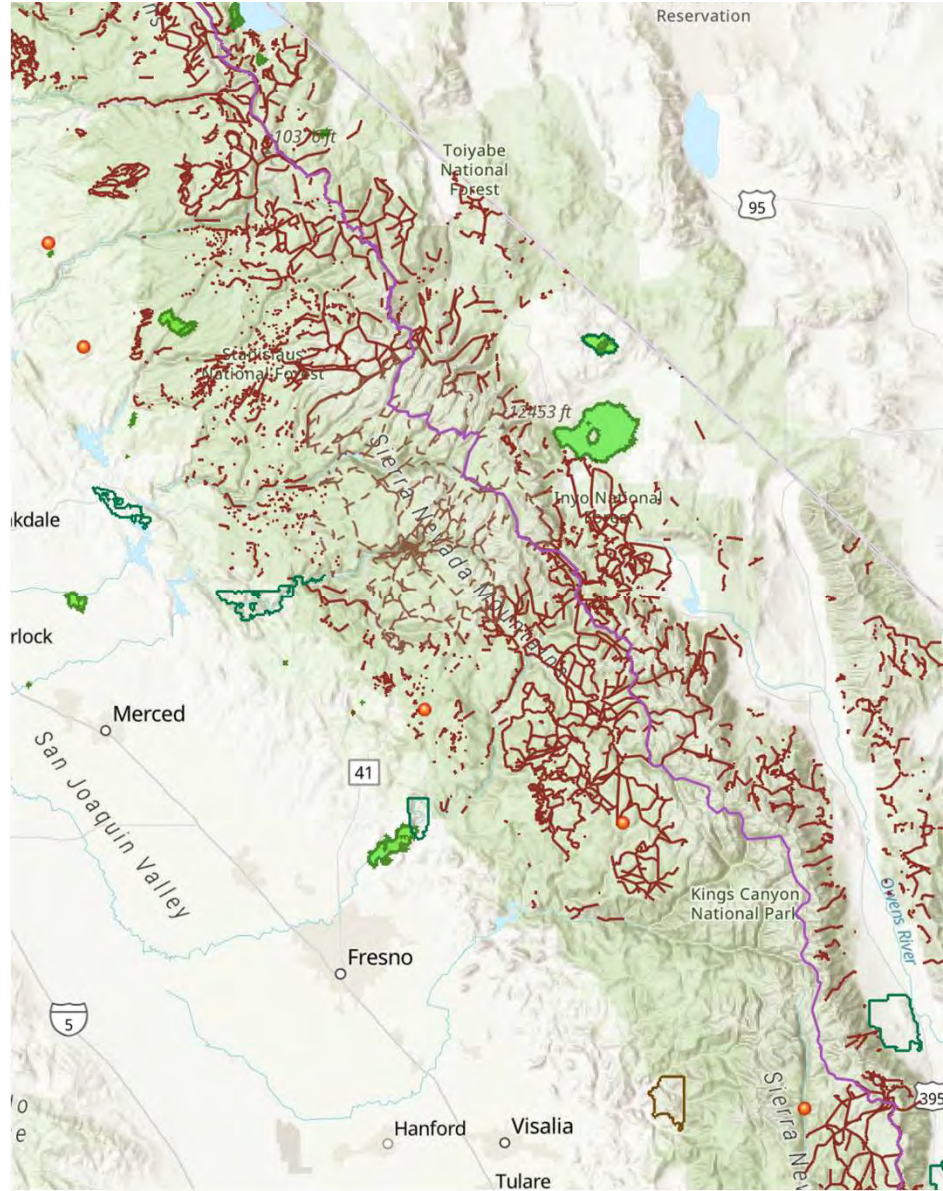
[Meetings](#)

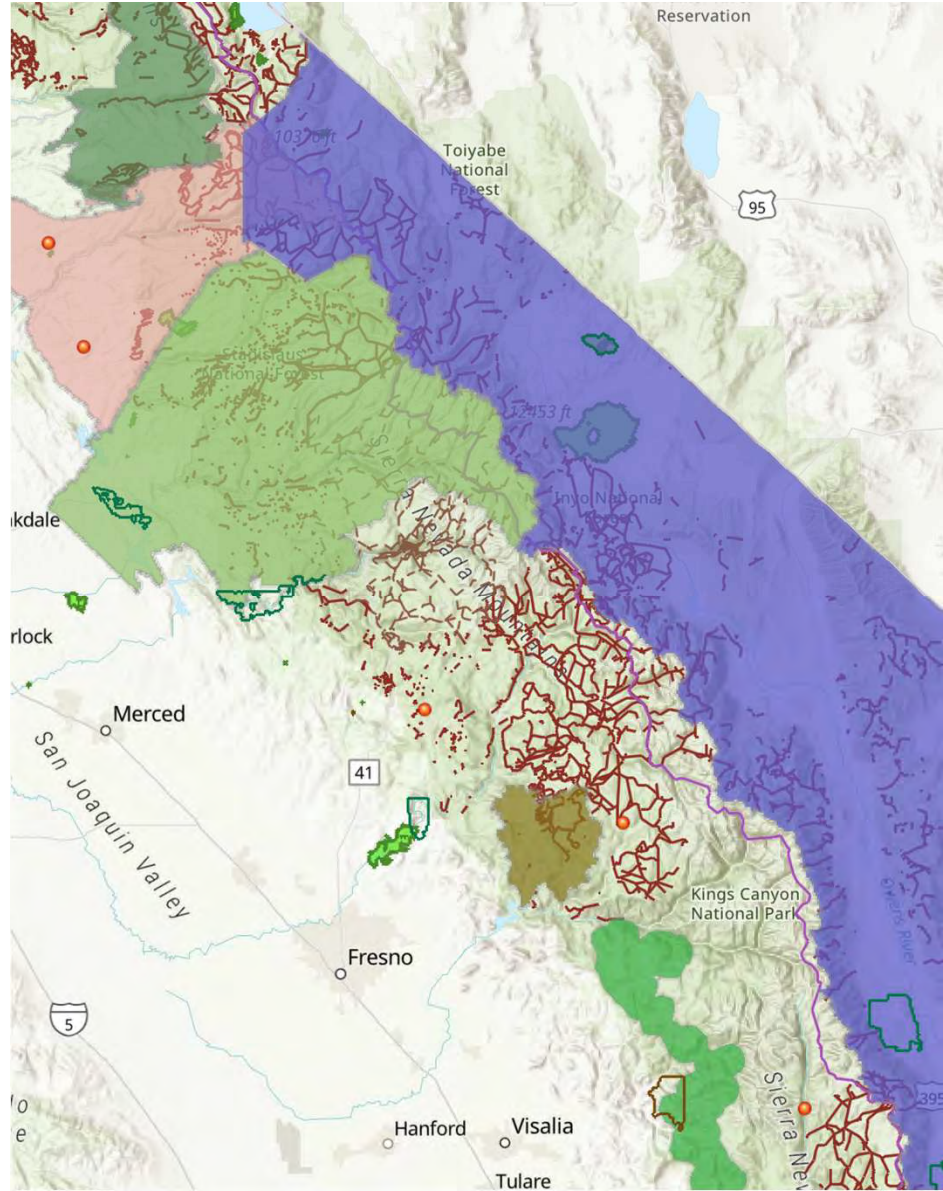
[Resources](#)

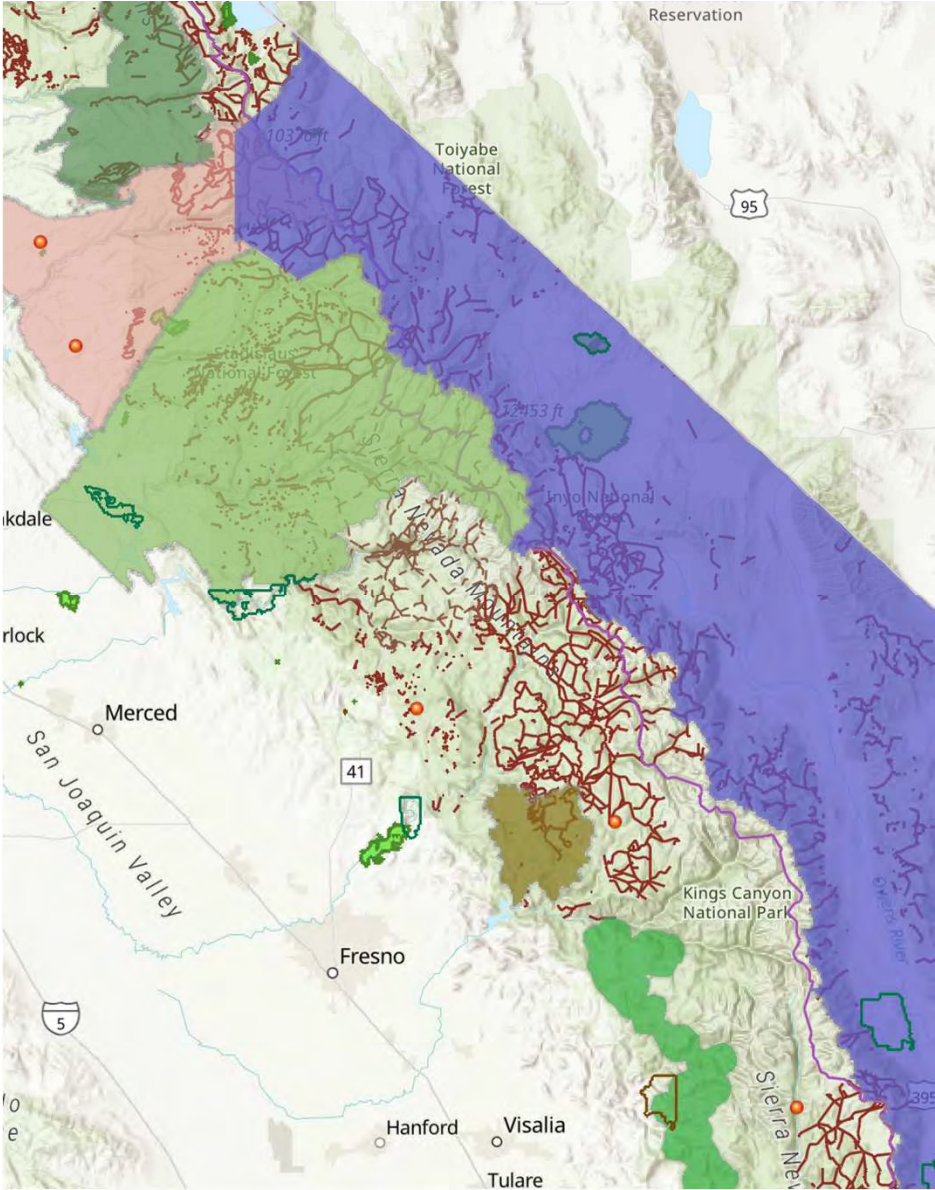
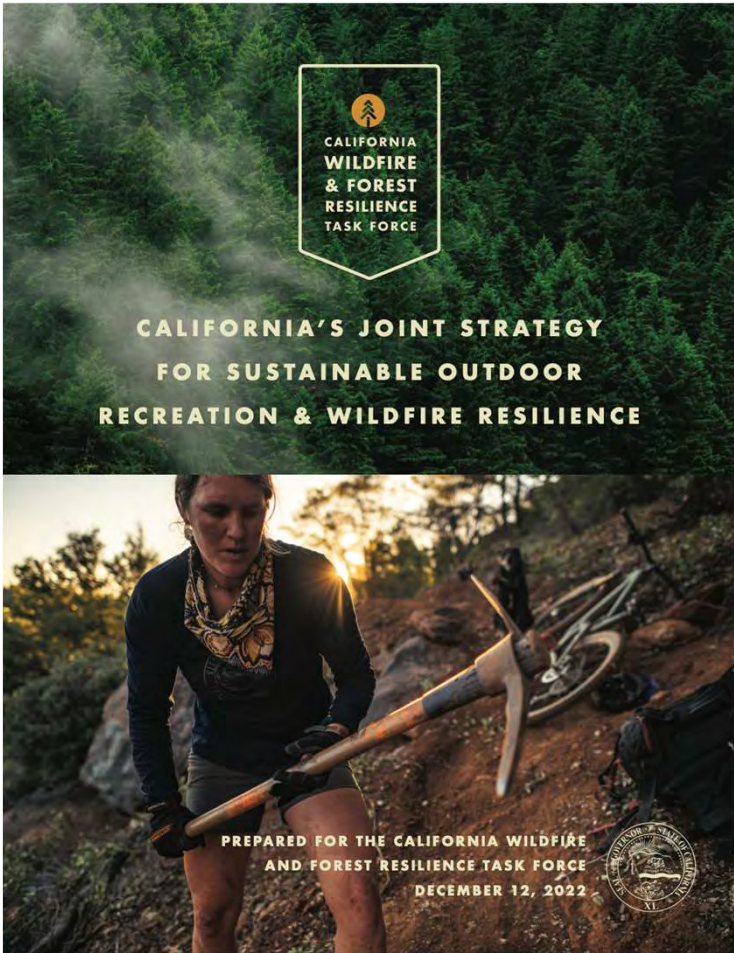
[Be Prepared](#)

[Fire Safe Councils](#)











**CAL FIRE to host an online workshop:
Wildfire Prevention Grants**

The Virtual Office Hours will be hosted on Microsoft Teams. No registration is necessary.

CAL FIRE will be hosting an online virtual Office Hours for the FY 2025-2026 Wildfire Prevention Grant Program funded by the California Climate Investments (CCI) initiative and the Safe Drinking Water, Wildfire Prevention, Drought Preparedness, and Clean Air Bond Act of 2024 (Proposition 4).

Remote Participation: Participation is remote only.



Virtual Office Hours Details:

Date: July 09, 2025

Topic: Application and Scope of Work

Time: 9:00 AM-10:00 AM

Microsoft Teams Meeting

Join on your computer, mobile app, or room device.

Click here to [join the meeting](#)
Meeting ID: 229 338 412 961 3
Passcode: 6z62oc3L

Or call in (audio only)
+1 650-564-3271,,269908412#

**Wildfire Prevention Grants
Program Contacts**

Northern Region Contact
CNRgrants@fire.ca.gov

Southern Region Contact
SouthernRegionGrants@fire.ca.gov

Sacramento Contact
WPgrants@fire.ca.gov
CALFIRE.Grants@fire.ca.gov



Do not reply directly to this email. If you need to reach us, please [email us](#).

The link to the grant program information was missing in the original announcement. Please see below for an updated version with the link included.

July 1, 2025

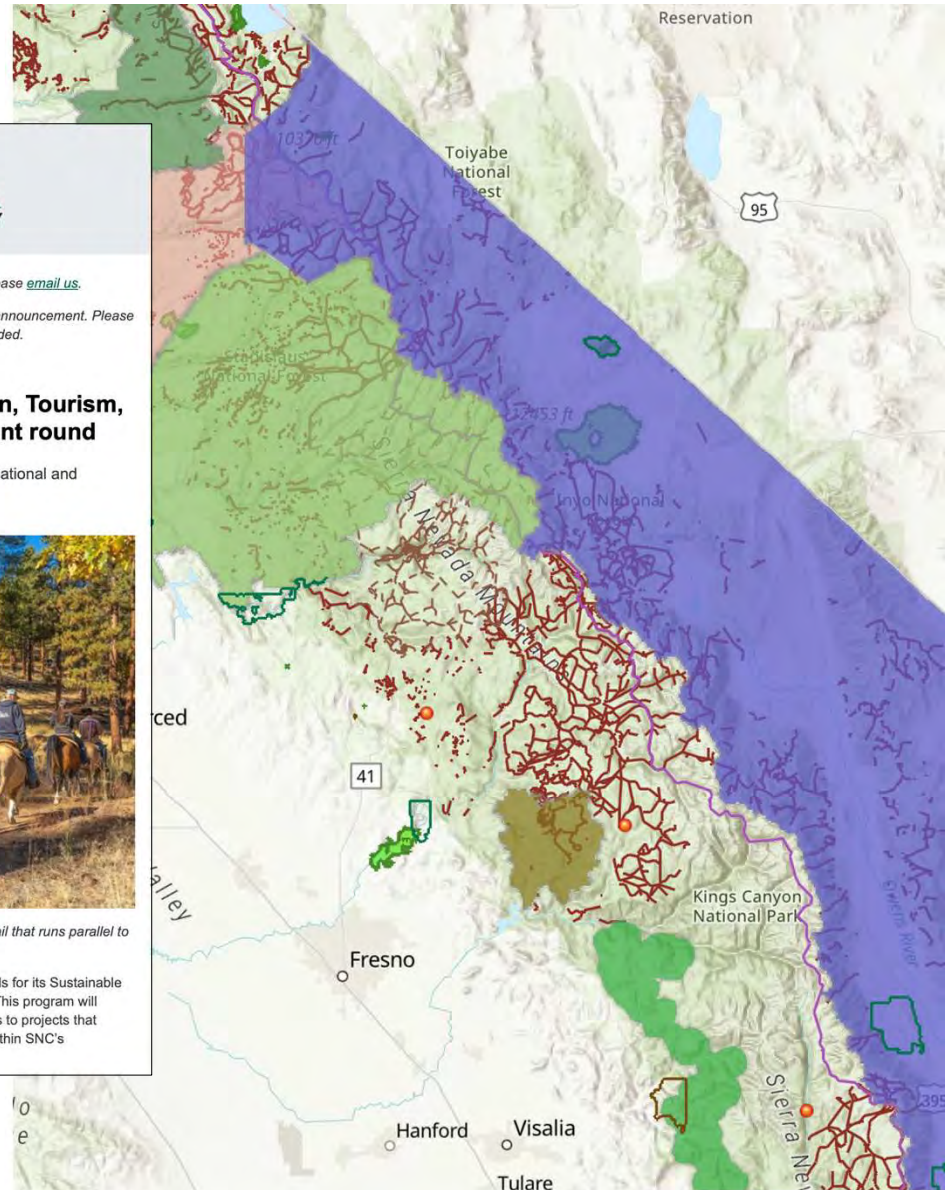
**SNC launches Sustainable Recreation, Tourism,
and Equitable Outdoor Access grant round**

New program will allocate more than \$4 million to boost recreational and outdoor access opportunities in Sierra-Cascade



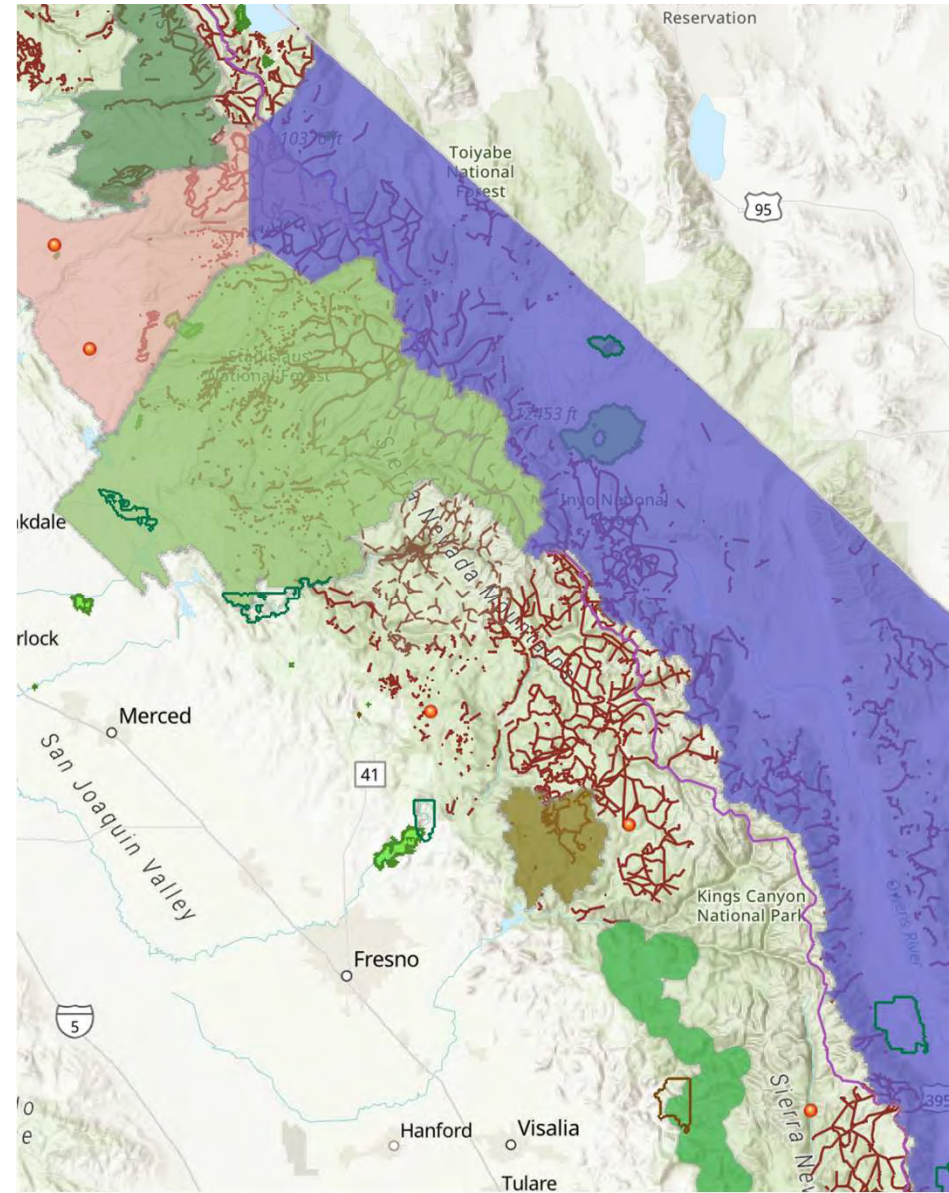
A family enjoys some afternoon horseback riding on the Southside Trail that runs parallel to the Bizz Johnson Trail. Photo courtesy of the BLM.

The Sierra Nevada Conservancy (SNC) is accepting concept proposals for its Sustainable Recreation, Tourism, and Equitable Outdoor Access Grant Program. This program will distribute approximately \$4.1 million of remaining Proposition 68 funds to projects that enhance, promote, and develop sustainable recreation and tourism within SNC's Sierra-Cascade service area.



YES
on 4

California Voters Approve
Proposition 4





Jobs First



Climate Change



Public Lands

But Wait...

YES
on 4

California Voters Approve Proposition 4



ACTION ALERT: Proposition 4 Funding Allocation

Today the California State Legislature reconvened for the last month of the 2025 Legislative Session. CCLT has heard that the Assembly is not planning to appropriate Proposition 4 funding this year. This is not acceptable, and we are going to do all that we can to get Prop. 4 funding out.

We need your help. Please reach out to your Assemblymember(s) as soon as possible and let them know that Proposition 4 funding needs to be allocated this year. This climate resilience bond was passed by the voters with the intent of tackling the pressing needs of climate change. The state cannot afford to wait; we need to act now!

Please explain the type of work your land trust is doing in the Assemblymember's district and that Prop. 4 allocations need to be made this year for this important work to continue. [Let us know](#) if you have any questions.

[Find Your Legislator](#)

YES
on 4



“...the Assembly is not planning to appropriate Proposition 4 funding this year...”



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Find Your Legislator




PRESIDENTIAL ACTIONS

IMPLEMENTING THE PRESIDENT'S "DEPARTMENT OF GOVERNMENT EFFICIENCY" WORKFORCE OPTIMIZATION INITIATIVE

EXECUTIVE ORDER
February 11, 2025

Government Executive

NEWS MANAGEMENT OVERSIGHT DEFENSE TECH PAY & BENEFITS WORK

PODCASTS | EVENTS |

TRENDING: DOGE | RIFS | SCHEDULE F | BUDGET | TSP

Workforce

USDA says reorg disfavors layoffs, predicts most employees will accept relocations

A significant percent more than a majority will come" to new locations, Agriculture Department official says.

JULY 30, 2025

GOVERNMENT REORGANIZATION LAND MANAGEMENT RIFS





ERIC KATZ
Senior Correspondent

The Agriculture Department is confident its push to move more employees out of Washington and into five new hubs around the country will retain most staff and large-scale layoffs will not be necessary, a top official told lawmakers on Wednesday.

The plan is not yet finalized and still subject to change, USDA Deputy Secretary Stephen Vaden repeatedly stressed to members of the Senate Agriculture, Nutrition and Forestry Committee, and the department is only now starting to solicit feedback from employees, stakeholders and lawmakers. Ultimately, Vaden said, the most significant goal of the reorganization is to build the next generation of leadership for USDA through the career ranks.











Office of Communications | press@usda.gov

Secretary Rollins Rolls Back Overly Burdensome Environmental Regulations to Unleash American Innovation

(Washington, D.C., June 30, 2025) — U.S. Secretary of Agriculture Brooke L. Rollins today announced the U. S. Department of Agriculture (USDA) is revising National Environmental Policy Act (NEPA) regulations to reduce unnecessary red tape that is killing jobs and raising prices for Americans. This reform allows the Department to efficiently deliver the critical services and funds America’s ranchers, farmers, loggers, and rural communities rely on and corrects the harms caused by decades of unnecessarily lengthy, cumbersome NEPA reviews.

E&ENewSPM

Agencies roll out plans to pare down NEPA reviews

By KEVIN BOGARDUS | 06/30/2025 04:27 PM EDT

The effort aligns with President Donald Trump’s push to lift hurdles in expediting energy infrastructure and other projects.



President Donald Trump speaks to the media Friday in the briefing room of the White House. Jacquelyn Martin/AP

The Trump administration advanced its deregulatory drive Monday as government agencies announced plans to renege on the country’s linchpin environmental law.

At issue is the National Environmental Policy Act, designed to require the federal government to consider environmental impacts for permit applications and management of public lands. The 1970 law has been under threat since President Donald Trump’s return as he has rallied to build pipelines, ports and other energy infrastructure to boost domestic production of fossil fuels without environmental reviews.



“While the Forest Service previously had its own NEPA regulations (36 CFR 220), these are being rescinded as part of the USDA's move towards a unified approach.”

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E&ENewspM

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▮ PRESIDENTIAL ACTIONS

ESTABLISHING THE PRESIDENT'S MAKE AMERICA BEAUTIFUL AGAIN COMMISSION



▮ PRESIDENTIAL ACTIONS

MAKING AMERICA BEAUTIFUL AGAIN BY IMPROVING OUR NATIONAL PARKS

Executive Orders | July 3, 2025

Trump team readies more attacks on mainstream climate science

The plans include a public debate on global warming. Scientists say that falsely implies the major tenets of climate research are unsettled.

BY: SCOTT WALDMAN | 08/18/2025 06:21 AM EDT



Steven Koonin helped write an Energy Department report that's drawn pushback from climate scientists.

Steven Koonin helped write an Energy Department report that's drawn pushback from climate scientists. | Matthew Wisniewski/Great Lakes Bioenergy Research Center

How Chris Wright recruited a team to upend climate science

The Energy secretary handpicked climate contrarians to write a report that EPA is using to undermine U.S. regulation of greenhouse gases.

BY: BENJAMIN STORROW | 08/11/2025 06:15 AM EDT



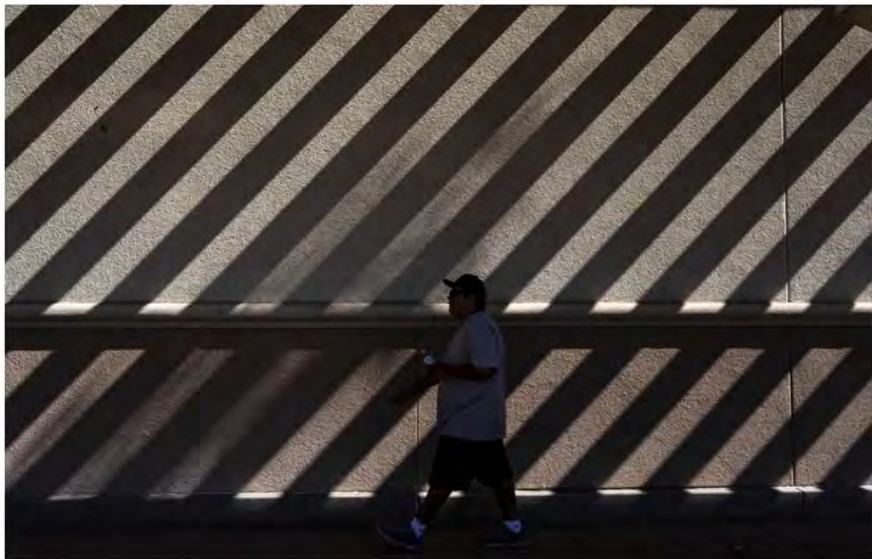
Energy Secretary Chris Wright addresses members of a Senate Appropriations subcommittee during a May 21 hearing. | Mark Schiefelbein/AP



Heat warnings wither under Trump

Health experts have raced to modernize alert systems as extreme heat kills thousands in the U.S. every year. Those efforts are being canceled.

BY: **CHELSEA HARVEY, ARIEL WITTENBERG** | 08/20/2025 06:23 AM EDT



Extreme heat contributes to the deaths of an estimated 2,300 people annually. | Jae C. Hong/AP

CLIMATEWIRE | Health officials in North Carolina were worried that the National Weather Service was warning people about extreme heat dangers after temperatures had already skyrocketed “way too high.”

So, they wrote their own rules — challenging what some critics say are outdated federal policies in an age of sweltering heat waves that kill thousands of people every year. Now, the state sends out some heat alerts when temperatures are nearly 20 degrees lower than when NWS advisories are issued.



Italian glacier is so melted it can only be monitored remotely

The Lombardy Glaciological Service will use drone imagery and remote sensing to keep track of the glacier's shrinkage.

BY: **ASSOCIATED PRESS** | 08/20/2025 06:10 AM EDT





NATURAL CAPITAL

Performs natural functions that that humans need to survive



ECOSYSTEM SERVICES

The benefits humans receive from
nature



Snow measurements and modeling to support sustainable global water supplies




Building on a 7-year legacy with the NASA Jet Propulsion Laboratory, Airborne Snow Observatories Inc. is uniquely positioned to provide basin-scale inventories of mountain snow water resources worldwide.

ASO technologies and applications have been developed in close partnership with water managers in the western US – these enduring and evolving partnerships remain a core strength of our approach to water management decision support.

With industry-leading geospatial technology, innovative leadership and application support, and the exclusive license to the data processing workflow we developed at JPL, ASO Inc. is leading the deployment and integration of this paradigm-shifting approach to snow water resource monitoring and management.

SNOWPACK & RUNOFF MODELING

ASO Inc. snow depth, SWE, and albedo are assimilated into the iSNOBAL snowpack model to update and continuously track snowpack states. The snowpack model uses energy-balance components to monitor snowpack temperature, liquid water content, melt flux, and remaining snow mass in each 50 m grid cell. ASO primary data products are assimilated in the WRF-Hydro physically-based hydrologic model system. These ASO Inc.-constrained modeling results enable a state-of-the art snowmelt runoff forecast at daily to seasonal scales.



**“The ASO program is the best solution
going forward for the next generation.”**

WES MONIER — TURLOCK IRRIGATION DISTRICT HYDROLOGIST



- **California County**
- **Land Management**
- **Jobs First Region**
- **Watershed**
- **Ecosystem Services**



NATURE-BASED
CLIMATE SOLUTIONS

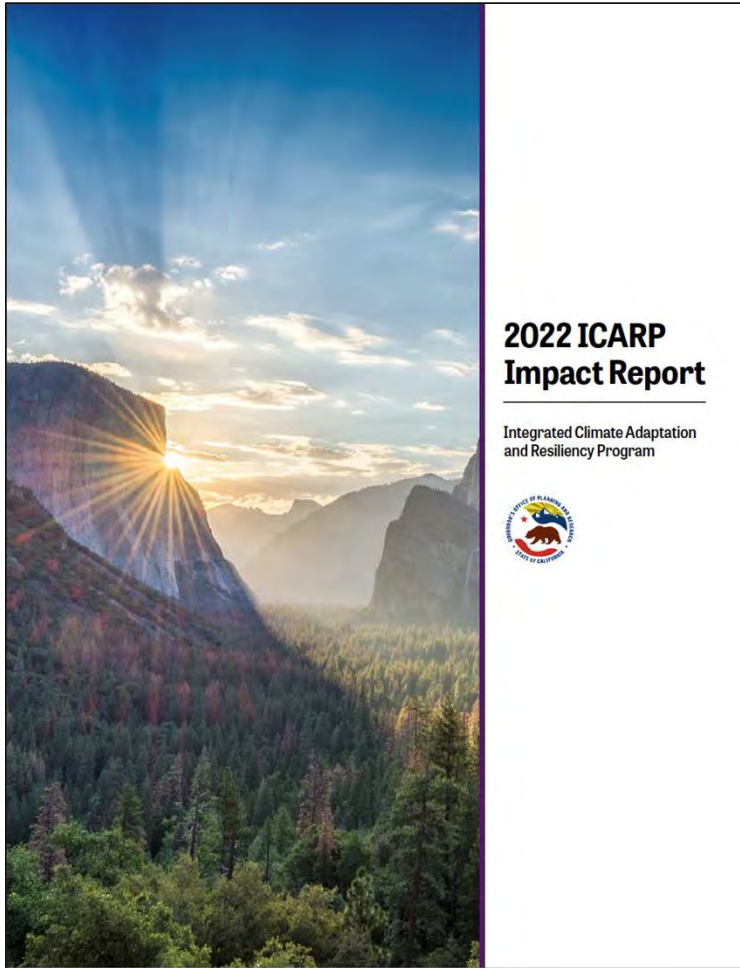
**CALIFORNIA'S NATURE-BASED SOLUTIONS
CLIMATE TARGETS**

AS REQUIRED BY ASSEMBLY BILL 1757 (2022, C. GARCIA)

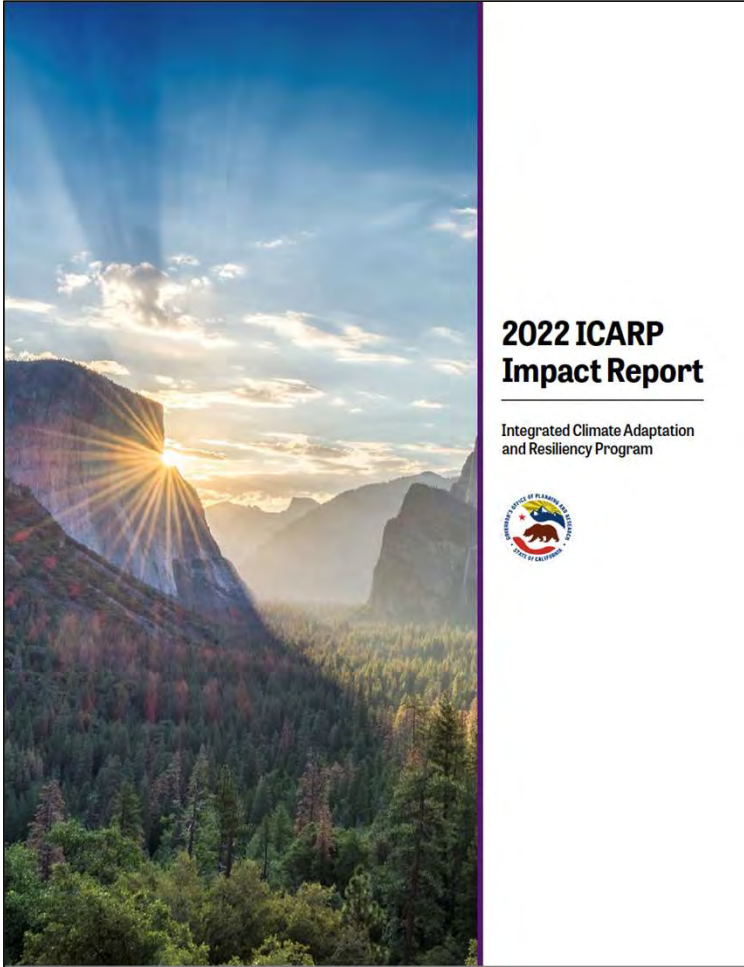


ADMINISTRATION OF GOVERNOR GAVIN NEWSOM
APRIL 22, 2024

- **California County**
- **Land Management**
- **Jobs First Region**
- **Watershed**
- **Ecosystem Services**



- **Ecosystem Services**
- **Private Sector**
- **Acknowledgement**



Thank You

Item 12 | Discussion



CA Governor's Office of
**Land Use and
Climate Innovation**

Item 13 | General Public Comment



Item 14 | Closing and Meeting Adjourned



Thank You for Joining!

CONTACT

icarp@opr.ca.gov

FUTURE MEETING DATES

October 24th in Allensworth, CA

Newsletter and more:
lci.ca.gov/climate/icarp

STAY CONNECTED



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Governor's Office of Land
Use and Climate
Innovation (LCI)



CA Governor's Office of
Land Use and
Climate Innovation