



# ICARP

INTEGRATED CLIMATE ADAPTATION & RESILIENCY PROGRAM

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## **Technical Advisory Council July 18, 2022 Quarterly Meeting Staff Report**

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## ICARP Programmatic Priorities

With guidance from the Integrated Climate Adaptation and Resiliency Program (ICARP) Technical Advisory Council, and building on the [ICARP 2020-2021 Impact Report](#), ICARP staff implement a suite of programmatic priorities. Quarterly programmatic updates, organized by the following Council priorities, are summarized through these quarterly staff reports.

### ***Actionable Research and Resilience Metrics***

Grounding California's adaptation and resiliency policy in cutting-edge science is central to ICARP's charge. By identifying and contextualizing projected climate impacts through the CA Climate Change Assessments, supporting and guiding resilience metrics, and convening a Science Advisory Group, ICARP supports state and local efforts to operationalize actionable climate science.

### ***Decision Support Tools and Guidance***

ICARP develops and shares tools and guidance to support a community of practice on adaptation and resilience in California. Through the ICARP Climate Services Team, staff support integrated, science-based climate resilience decisions, planning, and implementation at all levels of governance, through tools like the [State Adaptation Clearinghouse](#).

### ***Building Partnerships and Leveraging Resources***

ICARP convenes stakeholders across agencies, sectors, and scales to build collaborative partnerships, facilitate integrated climate adaptation and resilience planning, and align funding opportunities. Through the Community Planning and Capacity Building – Recovery Support Function, ICARP staff provides technical assistance and helps communities integrate climate resilience and equity into disaster recovery planning.

### ***Funding and Financing***

ICARP's work to scale funding and financing for climate resilience includes supporting state agencies with the integration of climate considerations in existing state programs and investments, as well as making direct investments through multiple grant programs.

### ***Climate Equity and Vulnerable Communities***

Climate equity and a focus on vulnerable communities is a core mandate for ICARP, both statutorily and programmatically as defined in [ICARP's vision and principles](#). Building on the Council's leadership to define [Vulnerable Communities](#), and in response to stakeholder needs, ICARP continues to fill critical gaps by developing resources and tools that support equitable adaptation action.

### ***Additional Special Initiatives***

ICARP Staff and Council respond proactively to new and emerging issues and opportunities as they align with the ICARP core vision and principles. This includes building new partnerships and initiatives and providing guidance and support for partner efforts to respond in real time to local, regional, and state needs.

# 1. Actionable Research and Resilience Metrics

## Development of Resilience Metrics

Staff Lead: Climate Service Program Manager, TBD

### Background / Framing Context

California has long led the nation in climate action, both in reduction of greenhouses gases as well as in preparing for the impacts of climate change. To date, while many state and local agencies have indicators and metrics that identify their progress towards a specific climate action and resilience goal, there is no consolidated set of metrics that demonstrate the State's overall progress in reducing climate risk and increasing resilience.

Since its inception, the ICARP Council has recognized that a suite of comprehensive resilience metrics is vital to help the State understand where action is progressing and where further action is needed. Staff are working with the ICARP Council, state agencies, and interested stakeholders to catalogue existing resilience metrics and identify gaps where new resilience metrics are needed. The goal of the consolidated suite of resilience metrics is to build our collective capacity to track how we are reducing climate risk and increasing resilience across built, social, and natural systems.

### Summary of Major 2022 Deliverables

- Landscape review of the resilience metrics field (Completed)
- Collection of existing state agency metrics (Completed)
- Resilience Metrics Work Group white paper (Completed)
- Compilation of first set of resilience metrics (Completed)

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### Updates for 7/18 ICARP Meeting

- None at this time.

### Looking Ahead

- Staff will track resilience progress in combination with California Climate Adaptation Strategy implementation reporting.

### Follow-ups for Council

- None at this time.

# California's Fifth Climate Change Assessment

Staff Lead: [Neil Matouka](#)

## Background / Framing Context

Preparing California for the impacts of climate change requires detailed and accurate forecasts of their location, severity, and onset.

At the direction of [SB 1320 \(Stern, 2020\)](#) and with funding from the [2021 Climate Budget](#), ICARP will coordinate the development of the Fifth California Climate Change Assessment in partnership with the California Energy Commission, California Natural Resources Agency, Strategic Growth Council, and other partners. The Fifth Assessment will include climate data, technical and synthesis reports, decision-support tools, and a first-of-its-kind grant program for tribal research, recognizing the important contributions of first nations to our understanding of the changing environment.

## Summary of Major 2022 Deliverables

- Engagement and communication with partners to inform the Fifth Assessment process and products. (Ongoing)
- Initial outreach to State agencies to inform the Fifth Assessment and gather interest on participation. (Completed)
- Develop a list of priority research topics for inclusion in the guidelines for a competitive solicitation for original climate research (July – October)
- Release request for proposals for non-energy original climate research (December - January)
- Solicit nominations for and establish a Tribal Advisory Group through the Tribal Research Program. (June – October)

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## Updates for 7/18 TAC Meeting

- Staff have launched a new [Climate Assessment, Science, and Research page](#) on the ICARP website to provide information on the Fifth Assessment process, host outreach materials, and provide notifications for upcoming events.
- Fifth Assessment kick-off webinar scheduled for July 7, and tribal listening sessions scheduled for July 12 and 13.
- Staff are developing a research topic selection process using the State agency and public research topic surveys as an initial input.

## Looking Ahead

- Once the research topic selection process has been finalized, staff will solicit public feedback on proposed research topic selection criteria.

## Follow-ups for Council

- Please fill out this [survey](#) if you have research topic recommendations for the Fifth Assessment's original climate research, and distribute within your networks.

## Science Advisory Group (SAG)

Staff Lead: Climate Service Program Manager, TBD / [Nicole Hernandez](#)

### Background / Framing Context

Actionable science is foundational to California's climate agenda and supports science-informed policies and investments to respond to accelerating climate impacts. While many state agencies have science advisory bodies that provide valuable, sector-specific guidance, there have been many calls to convene statewide and multi-sector science advisory bodies that provide consistent climate science guidance across state agencies and inform statewide climate adaptation and resilience decision making.

As the state's primary hub for coordination on adaptation and resiliency across local, regional, and state efforts, and with funding through the 2021 Climate Budget, ICARP will convene the ICARP Science Advisory Group (SAG) to promote alignment of the state's deployment of climate science in resilience planning, policy, and investments. The SAG will significantly advance ICARP's goal of providing relevant, actionable data and research to support robust climate adaptation and resilience planning and policy.

### Summary of Major 2022 Deliverables

- SAG Best Practices Summary and Recommendations (March 2022)
- Launch Science Advisory Group (Fall 2022)

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### Updates for 7/18 TAC Meeting

- ICARP Staff met with state agencies to solicit feedback on the SAG and to discuss how the SAG can meet state needs for identifying resiliency research needs and supporting science-informed policy.

### Looking Ahead

- ICARP Staff will report on progress in launching the SAG at the October 2022 ICARP TAC meeting.

### Follow-ups for Council

- Contact ICARP Staff ([sloane.viola@opr.ca.gov](mailto:sloane.viola@opr.ca.gov)) if you have recommendations on members to consider for inclusion in the ICARP Science Advisory Group.

## 2. Decision Support Tools and Guidance

### Adaptation Clearinghouse

Staff Lead: [Nikki Caravelli](#)

#### Background / Framing Context

ICARP's enabling statute, SB 246 (Wieckowski, 2015), charges ICARP with creating and managing a clearinghouse of climate adaptation information. The Adaptation Clearinghouse is the State of California's consolidated searchable database of resources for statewide, local, and regional climate adaptation planning and decision-making at [ResilientCA.org](#).

#### Summary of Major 2022 Deliverables

- ResilientCA Adaptation Planning Map (RAP-Map) update (Summer 2022)
- Updated SB 1 CalTrans Adaptation Planning Grants case study series (Fall 2022)
- Solicitation and execution of 2022 user experience assessment and web development contracts (July 2022)
- User experience assessment and stakeholder engagement (September 2022)
- Climate Resilience Plan Alignment Guides update (December 2022)
- Investing in Adaptation Topic Page update (December 2022)

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#### Updates for 7/18 TAC Meeting

- ICARP entered an Adaptation Clearinghouse web services interagency agreement with UC Berkeley Geospatial Innovation Facility for FY 22/23.
- ICARP is updating the ResilientCA Adaptation Planning Map (RAP-Map) and the Investing in Adaptation Topic page, and integrating the Climate Resilience Plan Alignment Guides into the Adaptation Clearinghouse.
- In the last quarter, ICARP added 24 new resources for a total of 990 resources including: the [Tribal Climate Adaptation Guidebook](#), [Integrating Climate Adaptation / Resilience Into Your Housing Element](#), [CTP Case Study: Duplication of Programs](#), and [SB 1 Case Study: Highway 1 Corridor in Tam Valley Transportation Resilience](#).
- While visitation rates remain consistent (average ~1900 unique visit sessions/month), additional analysis and user experience testing is needed to assess a rising page bounce rate, declining interaction with the database search feature, and declining session durations. ICARP released a solicitation for a web contractor to assess user needs and develop recommendations for future updates to Cal-Adapt and the Adaptation Clearinghouse.

#### Looking Ahead

- ICARP will conduct user needs assessment and plan alignment tool user testing activities in Summer 2022 to identify gaps and capacity building needs and inform updates to Cal-Adapt, Adaptation Clearinghouse, and other climate services efforts.

#### Follow-ups for Council

- None at this time.

## Cal-Adapt

Staff Lead: [Nicole Hernandez](#)

### Background / Framing Context

Cal-Adapt is the State of California's open-source web platform for accessing high-quality, peer-reviewed downscaled climate data and projections. Currently, the web application accesses data from California's Fourth Climate Change Assessment and provides data visualizations, features, and tools for many local climate-related risks, including projected changes in sea level, wildfires, temperature, precipitation, snowpack, and more. These valued resources guide decisionmakers at state, regional, and local levels when planning for and implementing climate adaptation projects to promote resiliency to climate change.

With funding from the 2021 Climate Budget, the California Energy Commission (CEC) and OPR will expand Cal-Adapt into the Cal-Adapt Enterprise with new climate data from California's Fifth Climate Change Assessment that includes features for a broad range of stakeholders who need easily accessible data visualizations and tools, while also providing a more powerful analytics engine to serve highly technical, data-intensive needs. In coordination with the CEC, ICARP will oversee maintenance and development of interactive visualizations and tools for a broad base of users such as local and state decision makers and community-based organizations.

### Summary of Major 2022 Deliverables

- Solicitation and execution of a user needs assessment contract (July 2022)
- User needs assessment activities and engagement (August-December 2022)

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### Updates for 7/18 TAC Meeting

- ICARP Staff met with state agencies to identify needs and recommendations for future updates to Cal-Adapt.
- ICARP released a solicitation for a web design and development contractor to conduct a user needs assessment and develop recommendations for future updates to Cal-Adapt and the Adaptation Clearinghouse.

### Looking Ahead

- ICARP will conduct user needs assessment activities in Summer 2022 to identify gaps and capacity building needs and inform updates to Cal-Adapt, the Adaptation Clearinghouse, and other climate services efforts.

### Follow-ups for Council

- None at this time.

# Planning and Investing for a Resilient California Guidebook Update

Staff Lead: New Climate Services Program Manager - TBD

## Background / Framing Context

[Executive Order N-19-19](#) calls for embedding physical climate risk into state investment decisions. Successful incorporation of physical climate risk into asset investment decisions requires the consistent application of climate science and downscaled risk projections into asset planning and investment processes. It further requires a similarly consistent decision-making framework to identify and prioritize climate adaptation actions.

To respond to EO-N-19-19, ICARP staff are updating the Planning and Investing for a Resilient California Guidebook ([Resilience Guidebook, 2017](#)), initially developed in response to [Executive Order B-30-15](#). Revisions will include updates to the foundational science that underpins the Resilience Guidebook, as well as updating the adaptation decision-making framework to incorporate discussion of adaptation pathways.

## Summary of Major 2022 Deliverables

- Develop an updated version of the Planning & Investing for a Resilient California Guidebook, hosted online in a living document format (TBD, 2022-2023).

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## Updates for 7/18 TAC Meeting

- None at this time,

## Looking Ahead

- After ICARP hires a new Climate Services Program Manager, staff will resume updates to the Planning and Investing for a Resilient California Guidebook to incorporate updated climate science information and adaptation best practices.
- ICARP Staff will refine the draft and work with agency partners to identify examples of state adaptation efforts.

## Follow-ups for Council

- None at this time.

# Climate Resilience Plan Alignment Guides: Wildfire, Flood-After-Fire, and Coastal

Staff Lead: [Nikki Caravelli](#) / [Taylor Carnevale](#)

## Background / Framing Context

ICARP staff are developing a suite of climate resilience plan alignment guides to support local climate resilience planning efforts. Local communities are responsible for developing and maintaining an array of plans – from the General Plan to Local Hazard Mitigation Plan and Climate Adaptation Plans, to hazard-specific plans such as Local Coastal Program Plans or Community Wildfire Protection Plans.

The goal of the ICARP plan alignment guides is to support alignment of local planning efforts, allowing local planners to achieve climate resilience goals, reduce duplication, and avoid policy conflicts. Staff are currently working on a series of guides, including a Wildfire Resilience Guide, a Flood-After-Fire Guide, and an update to the existing Coastal Plan Alignment Compass Guide (“[Coastal Compass](#)”). These guides will summarize requirements and best practices, discuss strategies to leverage various stages of different planning and implementation processes, and identify crosswalk opportunities and tricky spots to avoid.

## Summary of Major 2022 Deliverables

- Develop the print and interactive, online Wildfire Resilience Plan Alignment Guide and the Flood-After-Fire Plan Alignment Guide. (Fall 2021 - Summer 2022)
- Update the Coastal Plan Alignment Compass Guide. (Summer 2022 - Fall 2022)
- Convene a Plan Alignment Advisory Group of state, local, and federal agencies and stakeholders to guide content development. (Fall 2021 – Summer 2022)
- Convene a Plan Alignment Local Government Focus Group to identify user needs and beta-test the guides. (Winter 2021 – Summer 2022)

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## Updates for 7/18 TAC Meeting

- Finalized content for the Wildfire and Flood-After-Fire Plan Alignment Guides, with input from the Advisory Group.
- Began web development and print design process for the Wildfire and Flood-After-Fire Plan Alignment Guides (beta version).

## Looking Ahead

- The Wildfire and Flood-After-Fire Guides (beta version) will be integrated into the Adaptation Clearinghouse in early Summer 2022 for user testing.

## Follow-ups for Council

- Please contact ICARP Staff ([sloane.viola@opr.ca.gov](mailto:sloane.viola@opr.ca.gov)) if you are interested in serving on the Advisory or Local Government Focus Groups.

## 3. Building Partnerships and Leveraging Resources

### Community Planning and Capacity Building Recovery Support Function

Staff Lead: [Clay Kerchof](#)

#### Background / Framing Context

In partnership with Cal OES, OPR serves as the lead state agency on the Community Planning and Capacity Building Recovery Support Function (CPCB-RSF), which strengthens the adaptive capacity of local governments to plan for and implement long-term disaster resilience and recovery programs by coordinating information, technical assistance, and funding. OPR, through ICARP, works to integrate climate adaptation and resilience policies into hazard mitigation, emergency management, and disaster recovery programs. To extend the impact of the CPCB-RSF, the ICARP team will lead the development of a peer-to-peer learning network for wildfire resilience and long-term recovery planning.

#### Summary of Major 2022 Deliverables

- Engage stakeholders from wildfire-affected and at-risk communities to solicit feedback on local planning and capacity needs for long-term disaster recovery and wildfire resilience (Ongoing).
- Convene local governments as part of Wildfire Recovery Peer Learning Network to build a cohort of wildfire-impacted and at-risk communities, accelerate information exchange, and connect communities to funding opportunities (Ongoing).
- Develop 4-5 planning briefs on long-term recovery from wildfire disasters (end of 2022).

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#### Updates for 7/18 TAC Meeting

- Facilitated a Peer Learning Network workshop on long-term recovery frameworks and plans attended by 40 participants from 20 jurisdictions.
- Finalized a Peer Learning Network case study and roadmap for upcoming workshops.

#### Looking Ahead

- Developing a CPCB Disaster Recovery Planning Toolkit, which includes resources on key recovery planning issues developed by the CPCB team. Appendices include: whole community planning for equitable recovery; best practices for recovery planning; funding opportunities for recovery planning. (Late 2022)
- Presentation to the TAC from the Peer Learning Network on key findings and initial solutions at the 2022 Q3 or Q4 meeting (September).

#### Follow-ups for Council

- Please contact ICARP Staff ([sloane.viola@opr.ca.gov](mailto:sloane.viola@opr.ca.gov)) if you are interested in sharing needs and priorities for wildfire resilience and long-term recovery and redevelopment and/or interested in participating in the learning network.

# Community Development Block Grant – Mitigation (CDBG-MIT) Citizen Advisory Committee (CAC)

Staff Lead: [Clay Kerchof](#)

## Background / Framing Context

With support from the ICARP TAC, OPR signed an MOU with HCD on August 19, 2021 to enable the ICARP TAC to serve as the Citizen Advisory Committee (CAC) for the 2017/2018 Community Development Block Grant Mitigation (CDBG-MIT) grant program. CDBG-MIT is a federal program that funds planning and infrastructure projects that reduce disaster risks and promote community resilience in disaster-impacted communities. HUD requires state grantees to convene a CAC to promote transparency and engage stakeholders on how to use and implement these one-time community hazard mitigation funds. The CAC represents an opportunity for dialogue with agencies, grantees, and external stakeholders to inform program implementation and align the program guidelines other state hazard mitigation funding sources, including those administered by Cal OES and CAL FIRE.

## Summary of Major 2022 Deliverables

- At least two additional CAC meetings in 2022, at the July and December meetings.

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## Updates for 7/18 TAC Meeting

- Drafting a policy brief on aligning disaster recovery and hazard mitigation funds to build off the interagency hazard mitigation funding panel, as described above.

## Looking Ahead

- CDBG-MIT CAC meetings will take place at the July and December 2022 meetings to highlight CDBG-MIT grantee challenges and successes.
- Additional interagency alignment agenda items can be organized as needed.

## Follow-ups for Council

- None at this time.

## Resilience Planning and Insurance Working Group

Staff Lead: [Clay Kerchof](#)

### Background / Framing Context

[SB 30](#) (Lara, 2018) created the CA Climate Insurance Working Group to explore innovative insurance strategies with the aim of reducing climate risk. Given the shared programmatic goals of reducing climate risk, ICARP and the California Department of Insurance (CDI) created a collaborative subgroup of the ICARP Council and the SB 30 Climate Insurance Working Group. In early 2022, this group identified extreme heat risk transfer as the team's focus and best fit for a CDI-ICARP partnership.

### Summary of Major 2022 Deliverables

- Insurance primer that describes key insurance principles (Completed, Spring 2021)
- Planning primer that describes key planning principles (Completed, Fall 2021)
- New work plan for the CDI-ICARP partnership on extreme heat risk transfer.

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### Updates for 7/18 TAC Meeting

- ICARP and CDI have are developing a work plan for the Working Group, which will guide its direction throughout 2022, as the Extreme Heat and Community Resilience Grant Program launches.

### Looking Ahead

- Coordination between CDI and the Extreme Heat and Community Resilience Grant Program team to identify shared CDI-ICARP priorities
- The Working Group will finalize a scope of work that results in a workshop, presentation to the full TAC, and a case study. The presentation to the TAC is scheduled for September 2022.

### Follow-ups for Council

- TAC members representing local governments engaged in extreme heat planning should indicate whether they are interested in participating in the Resilience Planning & Insurance Working Group.

## Technical Assistance for Integrated Adaptation Planning

Staff Lead: [Nikki Caravelli](#)

### Background / Framing Context

ICARP staff provide climate resilience technical advice and support, upon request, to local and regional governments in support of statewide planning objectives and requirements, such as safety and housing element General Plan updates, alignment between resilience and local hazard mitigation planning, climate adaptation and resiliency planning, and other regulatory requirements. A priority objective is to help local and regional governments across the state implement integrated planning concepts to achieve more holistic and effective climate-resilient outcomes.

### Summary of Major 2022 Deliverables

- Local and regional workshops as requested (Ongoing)

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### Updates for 7/18 TAC Meeting

- Staff is building out the Climate Services team and identifying the suite of climate service products and offerings, including continued technical assistance.

### Looking Ahead

- Plan integration workshops with local communities.

### Follow-ups for Council

- Please contact ICARP Staff ([sloane.viola@opr.ca.gov](mailto:sloane.viola@opr.ca.gov)) if you are interested in holding a plan integration workshop.

## 4. Funding and Financing

### FEMA Cooperative Technical Partners

Staff Lead: [Sarah Samdin](#)

#### Background / Framing Context

ICARP received a Cooperative Technical Partners (CTP) grant from FEMA to provide coordination support to align federal Hazard Mitigation Assistance (HMA) funding with state resilience goals. This 18-month partnership supports identification of projects that strengthen California's portfolio of nature-based, social and environmental justice projects. Eligible project types include natural infrastructure to build coastal resilience, urban greening, wildfire mitigation, and transportation-related planning and implementation projects. With a specific focus on hard-to-reach priority project types, as identified by FEMA, these pilot projects will help shape a pipeline of projects that may be eligible for future FEMA funding.

ICARP, in partnership with CalOES, provides technical assistance to state partners who are new to the federal HMA space, and helps identify innovative projects for FEMA's newest pre-disaster infrastructure funding program, Building Resilient Infrastructure and Communities (BRIC) program. This partnership advances California's climate resiliency goals, as well as the Governor's priority of leveraging state and federal funding.

#### Summary of Major 2022 Deliverables

- Develop case studies documenting lessons learned, challenges, and opportunities for navigating FEMA HMA funding programs. (Completed, Spring 2022)
- Partner with State agencies to identify eligible hazard mitigation projects, with nature-based solutions to support the development of a California-support project pipeline for FEMA HMA funding (Ongoing)
- Partner with ICARP's Adaptation Planning Grant Program (APGP) to explore program alignment with federal implementation funding.

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#### Updates for 07/18 TAC Meeting

- CTP case studies were posted on the Adaptation Clearinghouse in June.
- ICARP staff is developing APGP Round 1 Guidelines, which will serve as proof of concept of how to align state and federal implementation funding.
- ICARP staff is developing a scope of work with FEMA for CTP FY22 funding.

#### Looking Ahead

- ICARP staff will explore opportunities with State partners to align climate resilience funding programs with FEMA HMA eligibility, and develop additional case studies.

#### Follow-ups for Council

- Please contact ICARP Staff ([sloane.viola@opr.ca.gov](mailto:sloane.viola@opr.ca.gov)) if you have BRIC or HMGP project concepts.

## Proposition 84 Wildfire Recovery and Resiliency Grants

Staff Lead: [Clay Kerchof](#)

### Background / Framing Context

The Proposition 84 Wildfire Resiliency and Recovery Planning Grants are a collaborative effort between the Office of Planning & Research, the Strategic Growth Council, and the Department of Conservation. The grants support community wildfire resilience and recovery planning efforts in four California jurisdictions. Grantee activities vary depending on local context, need, and scale, but the overarching goals of the program are to: 1) support land use planning activities at the local and region levels that advance climate adaptation and resilience efforts specific to wildfire risk reduction; 2) advance local understanding and consideration of vulnerable communities in an adaptation context; and 3) support local or regional capacity building to incorporate climate adaptation and resilience into wildfire planning and recovery.

### Summary of Major 2022 Deliverables

- Administer planning grants to wildfire-affected communities. Grantees include:
  - Los Angeles County
  - Sonoma County
  - City of Ventura
  - Town of Paradise
- Developed a case study for the Adaptation Clearinghouse on how Proposition 84 grantees have incorporated wildfire resilience practices into their ongoing long-term disaster recovery planning and programs and how each of these projects offer demonstrations of integrated climate resilience planning for other California communities. (Completed, March 2022)

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### Updates for 7/18 TAC Meeting

- All grants are active as of July 1, 2021.

### Looking Ahead

- Grantees will produce case studies on the implementation of their respective projects (July 2022)
- ICARP Staff will schedule a roundtable for grantees in Summer 2022, closer to their grant close out dates.

### Follow-ups for Council

- None at this time.

# ICARP Adaptation Planning Grant Program

Staff Lead: [Abby Edwards](#)

## Background / Framing Context

In 2021, OPR, through ICARP, received \$25M in the state budget to fund the ICARP Adaptation Planning Grant Program (Adaptation Planning Grant Program) to support local, regional, and tribal adaptation planning across California.

As communities in California experience more frequent, prolonged, and severe impacts of climate change, state, regional, local, and tribal governments are undertaking adaptation and resiliency planning. However, many jurisdictions lack the capacity, tools, guidance, and resources to effectively prepare for climate impacts. This capacity gap is likely to prevent communities from developing and implementing plans that build resilience and reduce future risk. To meet this need, the Adaptation Planning Grant Program provides funding to help fill planning needs, provides communities the resources to identify climate resilience priorities, and supports the development of a pipeline of climate resilient infrastructure projects across the state.

## Summary of Major 2022 Deliverables

- Release draft APGP grant guidelines for public feedback
- Release APGP round one grant application
- Work with CTP program to support alignment of APGP with federal implementation funding.

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## Updates for 7/18 TAC Meeting

- ICARP staff conducted one TAC workshop, seven listening sessions, a survey, and one-on-one interviews in the last quarter.
- Staff compiled feedback and posted a stakeholder engagement and feedback summary ([See Council 7/18/22 Meeting Materials](#)).

## Looking Ahead

- Program factsheet and draft guidelines open for public comment in late Summer/early Fall.

## Follow-ups for Council

- None at this time.

# ICARP Regional Resilience Planning & Implementation Grant Program

Staff Lead: [Dolores Barajas](#)

## Background / Framing Context

The Integrated Climate Adaptation and Resiliency Program is developing a Regional Resilience Planning and Implementation Grant Program (Regional Resilience Grant Program) that will invest \$250 million over three funding rounds to help fill local, regional, and tribal adaptation planning and resilience needs, and support the development of a pipeline of climate resilient projects. Available to local, regional, and tribal governments, the Regional Resilience Grant Program will support regions in advancing resilience through three major activities: capacity-building, planning, and project implementation. Grants will be available both competitively and on a formula basis.

Key Priorities of ICARP's Regional Resilience Grant Program are to:

- Support regional projects aligned with ICARP priorities that improve regional climate resilience and reduce climate risks from wildfire, sea level rise, drought, flood, increasing temperatures, and extreme heat events.
- Support projects or actions that address the greatest climate risks in the region, particularly in the most vulnerable communities.
- Fill the gaps in climate resilience funding and support sustainable and cohesive climate resilient projects

## Summary of Major 2022 Deliverables

- Summer 2022: Listening sessions and stakeholder interviews
- Fall 2022: Draft guidelines available for public comment
- Winter 2022: Request for proposals
- Spring 2023: Round 1 grant awards

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## Updates for 7/18 TAC Meeting

- ICARP will kick off stakeholder engagement for the Regional Resilience Program with a listening session during the July 18<sup>th</sup> TAC meeting.

## Looking Ahead

- Staff will develop and release a program factsheet and listening session schedule.

## Follow-ups for Council

- None at this time.

## 5. Climate Equity and Vulnerable Communities

### Vulnerable Communities Platform

Staff Lead: Climate Services Program Manager, TBD

#### Background / Framing Context

Building off the 2018 ICARP TAC definition of “vulnerable communities” in the context of climate adaptation, and in response to queries from a range of cross-sector stakeholders, OPR is developing an integrated platform to make this definition actionable for adaptation policy and investments decisions. The goal for the Vulnerable Communities Platform is to develop an open, accessible, and community-grounded platform that holistically identifies the communities most vulnerable to climate change.

Developing the ICARP Vulnerable Communities Platform consists of several workstreams: (1) background research synthesis, analysis, and comparison with existing policy guidance, vulnerability assessments and approaches & existing data platforms and tools; (2) convening an interagency state technical workgroup to knit together existing statewide data; (3) robust stakeholder engagement with vulnerable communities through listening sessions and pilot community partnerships, with ongoing input from frontline communities; and (4) technical assistance and support from ESRI.

#### Summary of Major 2022 Deliverables

- Compilation of existing statewide datasets (Ongoing)
- External draft beta platform launch (Ongoing, 2022)

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#### Updates for 7/18 TAC Meeting

- ICARP Staff have completed a survey of Interagency Technical Working Group members and is compiling a summary of its findings.

#### Looking Ahead

- After ICARP hires a new Climate Services Program Manager, staff will resume research and stakeholder meetings to inventory existing mapping, data platforms, and tools, as well as state agency vulnerable community definitions and guidance.
- After ICARP hires a new Climate Services Program Manager, staff will resume VCP Interagency Technical Workgroup meetings.
- Stakeholder engagement will continue, including targeted listening sessions.
- Solicitation forthcoming to fund pilot communities to co-develop the VCP.
- Launch of user focus groups to coordinate stakeholder needs across Climate Services products.
- Continued work with ESRI and OPR teams on platform configuration process, including technical development and assessment of long-term plan.

#### Follow-ups for Council

- None at this time.

## 6. Additional Special Initiatives

### California Climate Adaptation Strategy

Staff Lead: OPR Deputy Director, Climate Resilience; TBD

#### Background / Framing Context

California is statutorily required to release an updated, comprehensive, statewide climate adaptation strategy every three years ([AB 1482](#), Gordon, 2015). Previous strategies were released in 2009, 2014, and 2018. For the 2021 Update, the California Natural Resources Agency and OPR, through ICARP, partnered to co-coordinate the development of California's 2021 California Climate Adaptation Strategy.

This update to the Strategy links together the state's existing, planned, and resourced climate adaptation efforts, showing how they fit together to achieve broad climate resilience priorities. The Strategy also specifies needed actions, with timeframes and metrics, to drive progress and enable accountability. The Strategy is organized around outcome-based priorities, rather than individual sectors, enabling a coordinated, integrated approach to building climate resilience. The 2021 Strategy will be released as an interactive website that serves as a hub for state climate resilience action. This website will be updated to reflect progress and make adjustments, and will allow for Californians to easily access information on the state's efforts.

#### Summary of Major 2022 Deliverables

- Finalize and release web-based Strategy (Completed, Spring 2022)
- Develop a process for collecting and reporting on agencies' implementation progress (Fall 2022)
- Release an annual implementation report and update the Strategy website to reflect progress (Winter 2022/23)

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#### Updates for 7/18 TAC Meeting

- The California Climate Adaptation Strategy was released in April 2022 at <https://climateresilience.ca.gov>.

#### Looking Ahead

- ICARP is coordinating with CNRA to track and evaluate implementation progress.

#### Follow-ups for TAC Council

- None at this time.

# The California Extreme Heat Action Plan

Staff Lead: Taylor Carnevale

## Background / Framing Context

The 2022 Extreme Heat Action Plan provides a strategic and comprehensive set of state actions to adapt and build resilience to extreme heat. It outlines California’s all-of-government approach to mitigating the health, economic, cultural, ecological, and social impacts of increasing average temperatures and heat waves. The action plan was developed as part of the state’s 2021 update to California’s Climate Adaptation Strategy, in recognition of the need for an updated, integrated approach to addressing extreme heat. The Extreme Heat Action Plan provides an update to and expansion of the state’s 2013 report on extreme heat (“[Preparing California for Extreme Heat Guidance and Recommendations](#)”).

## Summary of Major 2022 Deliverables

- Inventory of ongoing and planned state-level work related to extreme heat adaptation (Completed, Summer 2021).
- Discussions with state agencies to set future actions, objectives, and goals (Completed, Summer 2021 – Winter 2022).
- Extreme Heat Listening Sessions (Completed, Spring 2021 – Winter 2022)
- Development of Extreme Heat Action Plan (Completed, Summer 2021 – Spring 2022)

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## Updates for 7/18 TAC Meeting

- The final [Extreme Heat Action Plan](#) was released in April 2022.

## Looking Ahead

- ICARP will launch the development of the Extreme Heat and Community Resilience Grant Program in Fall 2022.

## Follow-ups for Council

- None at this time.