

DRAFT 2022 ICARP Impact Report

Letter from the Director

The Governor's Office of Planning and Research (OPR) is pleased to share this 2022 Integrated Climate Adaptation and Resiliency Program (ICARP) Impact Report.

Since its inception in 2016, ICARP has grown significantly, and now oversees several investment programs and California's Climate Change Assessments, a testament to the immense value the program has in advancing the protection and prosperity of California's communities amidst our new climate reality. The ICARP Technical Advisory Council, comprising leaders from local, regional, tribal, and state government, as well as the private, academic, and nonprofit sectors, helps shape and steward our state's critical adaptation and resilience work by helping the state identify needs and emerging issues to achieve ICARP's mission: a climate resilient California for All.

As wildfire, drought, flooding and other intense climate impacts hit every corner of California, the State has responded with unprecedented investment, much of which has been informed by the foundation laid through the ICARP Council. 2022 was a banner year as ICARP's new initiatives blossomed: the Fifth Climate Change Assessment is underway, the first two of ICARP's three grant programs developed guidelines and will imminently release their first rounds of funding, and we launched the Extreme Heat Action Plan and Adaptation Strategy with our sister agencies.

These initiatives and the continued excellence of the program's tools, guidance, and policy coordination truly embody OPR's vision of transformation through innovation and equity. This Impact Report includes four case studies detailing the innovative and equity-centered goals, processes, and outcomes of ICARP's efforts in 2022. Replicating and scaling these lessons learned will help the state realize the transformation needed to achieve the vision for a resilient California established by the ICARP TAC.

I look forward to the continued growth and progress of ICARP, and am grateful to all the partners whose collaboration has and will be essential to this success.

Sincerely,

A handwritten signature in black ink, appearing to read 'Samuel Assefa', written in a cursive style.

Samuel Assefa

Director, Governor's Office of Planning and Research

2023 ICARP Technical Advisory Council Members

Saharnaz Mirzazad, Chair, Governor's Office of Planning and Research

Jacob Alvarez, City of Coachella

Veronica Beaty, California Coalition for Rural Housing

Nathan Bengtsson, Pacific Gas & Electric

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Jonathan Parfrey, Climate Resolve

Michelle Passero, The Nature Conservancy

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Roberto Carlos Torres, Institute for Local Government

Gloria Walton, the Solutions Project

John Wentworth, Town of Mammoth Lakes

Wilma Wooten, County of San Diego

Executive Summary

Because California is already experiencing more frequent and severe climate-driven events, including wildfires, drought, and extreme heat, preparing for climate change isn't a distant need, but an immediate challenge whose solutions and strategies need to also support equitable long-term outcomes. The state is meeting the urgency of the moment on adaptation by implementing a comprehensive, coordinated, and science-based approach to climate adaptation, which includes the Climate Change Assessment, the Climate Adaptation Strategy, the Adaptation Planning Guide, and record investments through the FY 2021-22 and FY 2022-23 state budget. Because the state's climate approach is uniquely multi-faceted, it is important to coordinate across sectors and scales, so the outcomes of these efforts are greater than the sum of their parts.

The [Integrated Climate Adaptation and Resiliency Program \(ICARP\)](#), established through [Senate Bill 246 \(Wieckowski, 2016\)](#), advances a cohesive and holistic response to the impacts of climate change by coordinating regional and local efforts with state climate adaptation strategies to support comprehensive planning and accelerate implementation. Through its enabling legislation, ICARP is centrally focused on efforts that advance climate equity and support integrated climate strategies, or those strategies that benefit both greenhouse gas reductions and adaptation.

ICARP works to advance these priorities through five core priority areas, in addition to special initiatives, identified by its Technical Advisory Council:

- Actionable Research & Resilience Metrics
- Decision Support Tools & Guidance
- Building Partnerships & Leveraging Resources
- Funding & Financing
- Climate Equity & Vulnerable Communities

This report provides an overview of the ICARP's recent efforts to achieve its mission – detailing the program's innovative approaches, documenting key milestones from 2022, and outlining upcoming deliverables for 2023. In 2022, ICARP established several new programs and expanded implementation of its core functions, increasing the program's capacity and impact. Over the course of the year, ICARP's public meetings, webinars, and outreach and engagement connected with over 2,000 unique individuals representing a broad and diverse swath of California's communities (Figure 1).

Through these efforts, ICARP sought to develop innovative, replicable approaches to address known gaps and challenges. Each of ICARP's programmatic

workstreams oversaw processes that can attribute their successful outcomes to innovative processes in 2022 that deliberately embedded equity and inclusion:

- The on-the-ground implementation perspective of the ICARP Technical Advisory Council identified and elevated a shared implementation challenge. ICARP Staff responded to this need by leveraging its interagency coordination groups and partnerships to develop a cross-cutting resource. Supporting access to funding opportunities is an important climate equity strategy.
- Producing actionable climate science requires an understanding of on-the-ground needs. Engaging impacted communities and community representatives, who have unique perspectives and expertise, to contribute to the scope and prioritization of research topics can lead to more actionable results. Early engagement and strategic partnerships are essential to integrating these unique and valuable perspectives.
- Leveraging complex planning processes to develop and implement a vision for a resilient community requires a collaborative, multi-sector approach, technical expertise and capacity. ICARP's Plan Alignment Guides provide a flexible approach, collaboration tools, and best practices to support entities in navigating any stage of this process. Most importantly, the Plan Alignment Guides emphasize the importance of meaningful engagement and partnership with vulnerable communities so adaptation action prioritizes those most exposed to climate risk and who face the greatest barriers to recovering from climate impacts.
- Extensive public engagement identified ways ICARP's grant programs could add unique value by supporting integrated climate planning and implementation. This feedback also informed the development of more inclusive and equitable programs that reduce barriers for applicants, center the needs of vulnerable communities, prioritize support for disadvantaged communities and tribes, encourage shared decision-making, support capacity-building, and export successes in case studies to scale up solutions.

Looking ahead to 2023, ICARP will continue to deliver on its priorities through the continuation and evolution of several strategic initiatives and implementing new efforts directed by legislation and the budget. The program will continue to foster partnerships and relationships with scientists, state and federal agencies, tribes, businesses, local governments, and community groups so California can thrive in the face of climate change.

Introduction

What is Climate Resilience?

Climate resilience and adaptation are often discussed together, but it is helpful to distinguish between them. Generally, **adaptation** is an action or set of actions that reduce physical climate risk. **Resilience** describes a state of readiness to face climate risks. California is taking steps to prepare for the impacts of a changing climate at the state, regional, and local levels. Preparing for these changes is called adaptation. A series of adaptive steps contribute to resilience.

Adaptation and resilience are essential to maintain the stability and reliability of our natural, built, and social systems in the face of climate threats. In the absence of adaptation, systems that aren't resilient to climate change will experience severe disruption and require significant time and investment to recover, resulting in social, economic, environmental, public health, and other consequences. Because California has already experienced more frequent and severe climate-driven events, including wildfires, drought, and extreme heat, preparing for climate change isn't a distant need, but an immediate challenge whose solutions and strategies need to also support long-term outcomes.

Californians do not and will not experience climate impacts equally. For example, factors associated with race, gender, age, income, health conditions, access and functional needs, occupation, and more can influence the impacts of a changing climate on individuals and communities. Climate equity in an adaptation and resiliency context recognizes and seeks to address the fact that climate change will disproportionately impact communities that already experience environmental and socio-economic burdens and have a lower capacity to withstand and recover from climate impacts.

Developing impactful climate adaptation solutions requires targeted policy and investments that reduce vulnerability, and because existing socio-economic burdens underpin many dimensions of vulnerability, can also redress historic and systemic inequality. Recognizing these challenges and opportunities, the Integrated Climate Adaptation and Resiliency Program advances climate equity throughout its efforts. As part of its foundational work, the ICARP Technical Advisory Council [defined vulnerable communities in 2018](#):

“Climate vulnerability describes the degree to which natural, built, and human systems are at risk of exposure to climate change impacts. Vulnerable communities experience heightened risk and increased sensitivity to climate change and have less capacity and fewer resources to cope with, adapt to, or recover from climate impacts. These disproportionate effects are caused by physical (built and environmental), social, political, and/ or economic factor(s), which are exacerbated

by climate impacts. These factors include, but are not limited to, race, class, sexual orientation and identification, national origin, and income inequality.”

Climate Adaptation in California

The state is meeting the urgency of the moment on adaptation by implementing a comprehensive, coordinated, and science-based approach to climate adaptation. In 2005, California was the first, and for many years, only, state to develop its own Climate Change Assessment, which provides critical and cutting-edge data, research, and actionable tools that underpin state and local resilience actions. California also has a comprehensive framework to guide state action through the [California Climate Adaptation Strategy](#), which was recently updated over 2021 & 2022.

Local governments are also taking action by integrating climate into long-range planning (per [SB 379 \(Jackson, 2015\)](#)). To support local governments in preparing for climate change, the state produces an [Adaptation Planning Guide](#), a step-by-step process to plan for climate change. The planning process promoted by the Adaptation Planning Guide is flexible so that each plan is responsive to community needs.

To accelerate local implementation, the [FY 2021-22 budget](#) included an unprecedented \$15 billion climate package, the largest direct investment at the time in climate action in the state’s history. The [FY 2022-23 state budget](#) built on that historic investment to commit an additional \$38.8 billion over five years.

Integrated Climate Adaptation and Resiliency Program

The [Integrated Climate Adaptation and Resiliency Program \(ICARP\)](#), established through [Senate Bill 246 \(Wieckowski, 2016\)](#), advances a cohesive and holistic response to the impacts of climate change by coordinating regional and local efforts with state climate adaptation strategies to support comprehensive planning and accelerate implementation. Through its enabling legislation, ICARP is centrally focused on efforts that advance climate equity and support integrated climate strategies, or those strategies that benefit both greenhouse gas reductions and adaptation. By connecting and aligning California’s adaptation efforts, ICARP advances a coordinated and comprehensive approach to climate adaptation and resilience.

Vision and Principles

At the inception of the program, ICARP developed a Vision and Principles to describe the characteristics of a resilient California, and how adaptation actions can

contribute to this outcome. This creates a framework for action that guides adaptation efforts so California can be resilient to changing climate conditions.

ICARP Vision: All Californians thrive in the face of a changing climate. Leading with innovation, California meets the challenge of climate change by taking bold actions to protect our economy, our quality of life, and all people. The state's most vulnerable communities are prioritized in these actions. Working across all levels of government, the state is prepared for both gradual changes and extreme events. Climate change adaptation and mitigation is standard practice in government and business throughout the state. California meets these goals with urgency, while achieving the following long-term outcomes:

- All people and communities respond to changing average conditions, shocks, and stresses in a manner that minimizes risks to public health, safety, and economic disruption and maximizes equity and protection of the most vulnerable.
- Natural systems adjust and maintain functioning ecosystems in the face of change.
- Infrastructure and built systems withstand changing conditions and shocks, including changes in climate, while continuing to provide essential services.

ICARP Principles

- Prioritize integrated climate actions, those that both reduce greenhouse gas emissions and build resilience to climate impacts, as well as actions that provide multiple benefits.
- Prioritize actions that promote equity, foster community resilience, and protect the most vulnerable. Explicitly include communities that are disproportionately vulnerable to climate impacts.
- Prioritize natural and green infrastructure solutions to enhance and protect natural resources, as well as urban environments. Preserve and restore ecological systems (or engineered systems that use ecological processes) that enhance natural system functions, services, and quality and that reduce risk, including but not limited to actions that improve water and food security, habitat for fish and wildlife, coastal resources, human health, recreation, and jobs.
- Avoid maladaptation by making decisions that do not worsen the situation or transfer the challenge from one area, sector, or social group to another. Identify and take all opportunities to prepare for climate change in all planning and investment decisions.
- Base all planning, policy, and investment decisions on the best-available science, including local and traditional knowledge, including consideration of future climate conditions out to 2050 and 2100, and beyond.
- Employ adaptive and flexible governance approaches by utilizing collaborative partnership across scales and between sectors to accelerate

effective problem solving. Promote mitigation and adaptation actions at the regional and landscape scales.

- Take immediate actions to reduce present and near future (within 20 years) climate change risks for all Californians; do so while also thinking in the long term and responding to continual changes in climate, ecology, and economics using adaptive management that incorporates regular monitoring.

Council Priorities

Each year, the ICARP Technical Advisory Council establishes Council Priorities that structure and guide the program's efforts over the year ahead to advance climate resiliency in California. The Council Priorities provide near-term areas of focus that work toward the long-range goals established in the Vision and Principles, while also being responsive to emerging issues.

Actionable Research & Resilience Metrics: Actionable climate science is a cornerstone of California's leadership on climate change and supports science-informed policies and investments to respond to accelerating climate impacts. California provides resources to translate and apply climate science to empower communities, the private sector, and local, regional, and tribal governments to make informed decisions.

Decision Support Tools & Guidance: To support local governments with adaptation planning and implementation, the state supports grant programs, guidance, technical assistance, capacity-building, and collaborative partnerships. ICARP plays a central role in equipping local governments and stakeholders across the state with the tools and resources they need for climate adaptation planning and implementation.

Building Partnerships & Leveraging Resources: To support development of climate and adaptation as an emerging field, leveraging networks and building a community of practice is important to scale up and increase the sophistication of California's adaptation and resiliency efforts. ICARP supports local and regional adaptation and resiliency planning and disaster recovery efforts through facilitation, collaborative partnerships, funding alignment, and technical assistance.

Funding & Financing: Adequately meeting the scope and scale of climate change requires direct investment in capacity-building, planning, and project deployment to advance adaptation and resiliency in California. ICARP has three programs that provide direct support for adaptation planning and projects, works to enhance the state's ability to leverage federal investment, and develops partnerships with other State agencies' programs that support the resiliency of California's natural and built environment.

Climate Equity & Vulnerable Communities: Reducing risks from climate impacts requires strengthening protections and increasing the resilience of communities and people to respond, recover, and adjust to climate change driven impacts. Yet, some communities face compounding vulnerabilities and experience disproportionate impacts, particularly low-income and rural communities, communities of color, and tribal nations. A resilient California ensures all communities can weather and adjust to climate change so that all communities can thrive. Ensuring a climate resilient “California for All” requires focused support for those communities most vulnerable to climate threats.

Additional Special Initiatives: While many actions to promote adaptation and resiliency are inherently longer-range efforts, the pace and urgency of climate change also requires a rapid response to emerging challenges. ICARP responds proactively to new and emerging issues and opportunities as they align with the ICARP 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 adaptation and resiliency needs.

Programmatic Workstreams

ICARP works to meet its statutory objectives and advance its Vision, Principles, and Council Priorities through its programmatic workstreams. These efforts include the development and dissemination of decision-support tools, actionable climate science, guidance, technical assistance, and grant programs.

Policy and programmatic alignment: ICARP provides the state’s only public forum dedicated exclusively to climate adaptation and resiliency through [the Technical Advisory Council \(TAC\)](#). The TAC provides a venue for consideration and discussion of California’s resilience policy with state agencies; local, regional, and tribal governments; nonprofits and boundary organizations; academia; and the private sector. Staff integrates feedback from the TAC through several avenues of interagency coordination (Figure 2).

Actionable Climate Science: To promote decision-making supported by actionable climate science, ICARP leads the development of [California’s Climate Assessment](#). The Assessment consists of a portfolio of critical and cutting-edge data, research, and actionable tools that underpin state and local resilience actions.

Climate Services: ICARP promotes alignment of resilience priorities across state, regional, local, tribal, and non-governmental entities by providing guidance, tools, and technical assistance. An important resource to support these activities is the [Adaptation Clearinghouse](#), established through SB 246 (Wieckowski, 2015) to serve as a central resource for curated case studies, reports, tools and data, and climate adaptation planning and project best practices.

Direct Investments: ICARP oversees three new grant programs to fund local, regional, and tribal adaptation efforts across the state. The ICARP [Adaptation Planning Grant Program](#) will provide support to local, regional, and tribal governments to support much needed adaptation planning efforts. The ICARP [Regional Resilience Planning and Implementation Grant Program](#) will support regions in advancing resilience through capacity-building, planning, and project implementation. The [Extreme Heat and Community Resilience Program](#) will help communities prepare for the impacts of extreme heat.

The following report highlights major programmatic accomplishments in 2022 and outlines the program's workplan in 2023.

Call-Out Boxes

Definitions

Adaptation (climate change): Adjustment in natural or human systems to a new or changing environment. Adaptation to climate change refers to adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities.

Equity: Equity is just and fair inclusion into a society in which all can participate, prosper, and reach their full potential.

Equity (Climate): The central equity challenges for climate change policy involve several core issues: addressing the impacts of climate change, which are felt unequally; identifying who is responsible for causing climate change and for actions to limit its effects; and understanding the ways in which climate policy intersects with other dimensions of human development, both globally and domestically.

Mitigation (climate change): A human intervention to reduce the human impact on the climate system; it includes strategies to reduce greenhouse gas sources and emissions and enhancing greenhouse gas sinks.

Resilience (climate): Resilience is the capacity of any entity – an individual, a community, an organization, or a natural system – to prepare for disruptions, to recover from shocks and stresses, and to adapt and grow from a disruptive experience.

Foundational and Recent Legislation

AB 1482 (2015) – Requires the state to update its climate adaptation strategy every three years. This includes updates to considerations involving planning and investment decisions by state agencies.

SB 246 (2015) – Established ICARP to coordinate regional and local efforts with the state-level climate adaptation strategies through a Technical Advisory Council and the Adaptation Clearinghouse. Also requires that the Adaptation Planning Guide be updated by various state agencies as well.

SB 379 (2015) – Requires that city and county general plans include a safety element that addresses climate adaptation and resiliency strategies identified in the city or county’s vulnerability assessment.

AB 78 (2020) – Establishes the Climate Catalyst Revolving Loan Fund within IBank to provide loans to projects that advance California’s climate goals and reduce climate risk.

AB 2800 (2020) – Indefinitely extends a requirement that state agencies consider climate impacts when planning, designing, building, maintaining, or investing in infrastructure.

SB 1320 (2020) – Tasks OPR with leading the development of the California Climate Change Assessment every five years, in partnership with state agencies.

SB 1 (2021) – Establishes a Sea Level Rise State and Regional Support Collaborative, composed of several state agencies to provide information and support for sea-level rise planning and projects. Requires assessment and mitigation of sea level rise risk by state and regional agencies and directs the Coastal Commission to develop guidelines for assessing and mitigating sea level rise in Local Coastal Plans.

SB 458 (2021) – Requires the Wildfire and Forest Resilience Task Force to revise its Action Plan every five years and develop an implementation strategy to track progress.

AB 1384 (Gabriel, 2022) – Updates requirements to the state’s climate adaptation strategy to assess climate risks to vulnerable communities, and emphasizes that the state should prioritize action that reduces climate risk to vulnerable communities.

AB 2238 (L. Rivas, 2022) – Directs CalEPA, in partnership with other entities, including ICARP, to develop an extreme heat ranking system, and ICARP must develop a communications campaign for the system and recommendations for local government policy mobilization during extreme heat events. The bill additionally directs the Department of Insurance to prepare a report on insured and uninsured losses during extreme heat events.

SB 852 (Dodd, 2022) – Allows local governments to establish an enhanced infrastructure financing district to finance climate adaptation projects.

Recent Executive Orders

E.O. S-13-08 – Requires CA Natural Resources to develop a statewide Climate Adaptation Strategy. Orders Business, Transportation and Housing Agency (now

BCSH) to assess vulnerabilities within the transportation system from sea level rise and orders OPR to give land-use planning guidance for climate impacts.

E.O. B-30-15 – Established a greenhouse gas reduction target and ordered state agencies to take steps toward preparation of climate impacts. The order also requires that Safeguarding California be updated every three years, and that it identifies vulnerabilities by sector or region.

E.O. N-05-19 – Directs CAL FIRE to recommend administrative, regulatory, and policy changes that will help prevent and mitigate wildfires.

E.O. N-19-19 – Requires the state to continue to mitigate the impacts of climate change through investments, transportation operations, and reduction of the state's carbon footprints at state owned and leased facilities.

2021-2022 Climate Budget

\$1.5 Billion Wildfire and Forest Resilience

\$5.2 Billion Water and Drought

\$3.9 Billion Zero-Emissions Vehicles

\$3.7 Billion Climate Resilience

\$1.1 Billion Sustainable Agriculture

\$270 Million Circular Economy

2022-2023 Climate Budget

\$1.2 Billion Wildfire and Forest Resilience

\$2.8 Billion Water and Drought

\$6.1 Billion Zero-Emissions Vehicles

\$13.8 Billion Transportation

\$4.2 Billion Climate Resilience

\$8.1 Billion Energy

\$1.3 Billion Cap-and-Trade Expenditures

\$925 Million Sustainable Communities

\$316 Million Climate Health

\$158 Million Climate Research & Resilient Schools

\$315 Million Climate Jobs

Case Studies: Putting Concept to Action

The Integrated Climate Adaptation and Resiliency Program's (ICARP) programmatic efforts pursue actionable outcomes that demonstrate the application of the program's Vision, Principles, and Council Priorities. The following narrative case studies provide an in-depth exploration of the priorities and processes of select programmatic workstreams to illustrate how the program's guiding concepts translate to action. These narratives call specific attention to the innovative approaches and emphasis on equitable engagement and outcomes, with the intent to encourage replication. By scaling up these best practices, partners can achieve local success and contribute to broader equity and resilience across California.

Fifth Assessment Surveys, Consultation, and Roundtables: Promoting Partnerships and Engagement in Climate Research

Council Priority: Actionable Research and Resilience Metrics

Background

California's unprecedented investments in climate change research and recent legislative direction (SB 1320 (Stern, 2020)) strengthened the state's commitment to the California Climate Change Assessments, which were the first, and for some time, only, state-led climate change assessments. The Integrated Climate Adaptation and Resiliency Program (ICARP) oversees this cross-cutting effort, in partnership with the California Natural Resources Agency (CNRA), California Energy Commission (CEC) and Strategic Growth Council (SGC).

California's [Fifth Climate Change Assessment](#) (Fifth Assessment) will provide a suite of original research products that explore gaps in the State's understanding about the impacts of climate change and pathways toward building climate resilience. Foundational to the Assessment are the next generation of downscaled global climate change projections data, hydrologic modeling, wildfire modeling, and sea level rise projections, which forecast future climate impacts at a finer spatial scale than the projections available through the Intergovernmental Panel on Climate Change or the National Climate Assessment.

With these data and analytical resources, researchers can study how climate change will uniquely impact California's people, environment, and infrastructure

throughout all regions of the state. To build that understanding, the Fifth Assessment combines a series of original research programs, including:

1. CNRA's Core Climate Research Program, which funds research focused on non-energy sectors and leverages the downscaled climate projections and associated modeling, where applicable;
2. CEC's EPIC Grant Program, which invests in research and innovation to achieve the State's energy and climate goals; and
3. A [Tribal Research Program](#), a first-of-its-kind program that invests in tribally-led research and integrates traditional knowledges with scientific expertise.

Building on this foundational research portfolio, the Assessment's Regional and Topical Synthesis Reports summarize and integrate findings across the Fifth Assessment's original research, projections, data, and modeling for a cross-cutting characterization of climate change in California.

Surveys, Consultation, and Research Roundtables

The scope of research conducted as a part of the Fifth Assessment relies on robust engagement with diverse communities and tribal consultation to elevate unique expertise and knowledge.

In 2022, ICARP's Fifth Assessment Team initiated a process to identify topics to guide the scope of original research conducted throughout the Core Climate Research and Tribal Research programs, in addition to other Fifth Assessment products. The team invited input from state, local and federal governments, California Native American tribes, research institutions, community-based organizations, businesses, residents, and others through public surveys, listening sessions, Government-to-Government consultation, and interviews. Collectively, participants recommended over 600 individual topics, which the Fifth Assessment team refined to a list of 180 topics across six subject areas.

Groups of subject-matter experts representing academic and scientific research institutions, community-based organizations, business leaders, and tribal communities participated in a series of research roundtables to provide input on the list of topics and identify gaps in the State's climate change research portfolio. The roundtables sought to narrow the list to under 30 priority topics. Further interviews with state organizations helped refine the list of topics to align with the State's climate change priorities and represent gaps in California's climate research portfolio.

At the beginning of 2023, the Fifth Assessment released a final list of [26 Climate Research Topics](#) that will inform new and original climate change research funded through the Fifth Assessment's Core Climate Research Program, the Tribal

Research Program, and other reports and tools that synthesize this information at a regional and statewide scale.

Innovation and Equity

The Fifth Assessment team partnered with the California Council on Science and Technology to convene the expert roundtables. Establishing a strategic partnership at an early stage in the Assessment allowed the team to increase capacity, leverage unique networks, and broaden engagement. This model is guiding other engagement opportunities with partners throughout the state to determine the scope of products that synthesize the Fifth Assessment's climate data, models, and original research at a local level.

The research roundtables sought the expertise of not just academic researchers, but also experienced community and tribal representatives to contribute a diverse range of subject-matter expertise and perspectives. Additionally, consulting other State agencies allowed the team to understand how the proposed research topics might contribute to actionable policy and which proposed topics weren't already addressed through existing or planned research investments. This approach ensured that the research topics were not merely areas of scientific curiosity, but also gaps in knowledge that, when addressed, will provide actionable information that drives transformative outcomes.

To promote transparency and broad participation, the research topic prioritization process engaged public feedback and tribal input, including Government-to-Government consultation and dedicated listening sessions, at multiple stages. The initial information gathering exercises to identify research gaps allowed people to recommend topics they viewed as important and unresolved. The roundtables also invited public participation so their input could be considered by the expert panels.

This unique process to collect, refine and prioritize research topics with community-driven input marks the beginning of a broader engagement process to inform the scope of the Regional and Topical Synthesis Reports. Throughout 2023, the Fifth Assessment team will work closely with other agencies, academic and scientific organizations, California Native American tribes, community organizations, and many individuals throughout the state to learn about their climate-related concerns and informational needs. Through these intentional processes, the Fifth Assessment will generate information and tools that are inspired, designed, and used by California's diverse communities.

Call Out Box: Key Takeaways

Producing actionable climate science requires an understanding of on-the-ground needs. Engaging impacted communities and community representatives, who have

unique perspectives and expertise, to contribute to the scope and prioritization of research topics can lead to more actionable results. Early engagement and strategic partnerships are essential to integrating these unique and valuable perspectives.

Plan Alignment Guides: Supporting Interdisciplinary, Strategic Planning

Council Priority: Decision-Support Tools and Guidance

Background

Climate change is already impacting California's communities, economy, and environment, and its potential for cascading and compounding impacts necessitates consistent and strategic planning. Because climate change has interrelated causes and consequences, integrating climate considerations into complex planning processes can present challenges. Plan alignment ensures that efforts to prepare for climate change do not conflict with local planning requirements, balance multiple planning priorities, include risk and vulnerability assessments, advance equitable outcomes and community engagement, and identify funding to plan and implement solutions.

Plan Alignment Guides

In 2022, ICARP developed and released the [Climate Resilience Plan Alignment Toolkit](#), including the wildfire resilience plan alignment guide, the flood-after-fire resilience plan alignment guide, an interactive plan alignment tool and roadmap, resources to support community engagement and collaboration, and case studies that illustrate the plan alignment process in action.

ICARP's Plan Alignment Guides and the suite of related collaboration tools are intended for local government staff and decision-makers, tribes and tribal-serving organizations, community members and non-profits, and regional entities to help coordinate and align local and regional efforts around resilience planning.

ICARP developed the Plan Alignment Guides in coordination with multi-sector local, regional, state, and federal agencies through a collaborative process. This interagency advisory group also identified challenges and opportunities for internal alignment across state and federal programs to better support local and regional planning, and built staff capacity to work across siloes when providing guidance and assistance.

Plan alignment is based on collaboration and leverages connections, information, and resources to build shared language, data foundations, and processes across planning efforts at any scale. The steps involve:

1. Defining a shared vision and understanding of planning process requirements and timescales, and strategic community engagement planning;
2. Assessing vulnerability that examines risks within and across the relevant jurisdictions, based on shared data and a common community-driven definition of vulnerability;
3. Developing an adaptation framework that holistically integrates agency, community, and scientific perspectives on these risks; and
4. Implementing these plans with community-driven evaluation and space to adapt as new information becomes available.

The resulting suite of plans share the same data, similar underlying assumptions, aligned visions, and complementary goals, strategies, and actions, and a shared understanding, process, and structure for multiple entities in a community or region to continue to collaborate and align efforts over the long term.

Innovation and Equity

The Plan Alignment Guides provide a flexible approach that users can adapt to meet their unique needs or circumstances. They provide guidance applicable to any stage in the planning process, which recognizes that different communities or agencies may vary in the approach and sequencing they use in their planning and engagement process. The Plan Alignment Guides also provide a “menu of ideas” for users to select the best tools and sequence for implementing plan alignment concepts, as well as best practices and tips for success.

The Plan Alignment Guides emphasize the importance of collaboration and equitable planning processes to achieve holistic results that benefit the entire community. Community-wide collaboration during the planning process can build capacity, empowering vulnerable communities to shape adaptation efforts and enjoy the benefits of a more resilient community. The Guides also provide specific guidance and tips on how to integrate environmental justice considerations across multiple plans, to both address historic inequities and community siloes, while also meeting state environmental justice planning requirements.

Call Out Box: Key Takeaways

Leveraging complex planning processes to develop and implement a vision for a resilient community requires a collaborative, multi-sector approach, technical expertise and capacity. ICARP’s Plan Alignment Guides provide a flexible approach, collaboration tools, and best practices to support entities in navigating any stage of this process. Most importantly, the Plan Alignment Guides emphasize the importance of meaningful engagement and partnership with vulnerable communities so adaptation action prioritizes those most exposed to climate risk and who face the greatest barriers to recovering from climate impacts.

Call Out Box: Plan Alignment Guides Statistics

- Over 1,000 views in the first four weeks
- Second-most visited resource on the Adaptation Clearinghouse
- 12-13 visits per week to the interactive decision-support tool, the most-visited resource in the toolkit

Adaptation Planning Grant Program and Regional Resilience Grant Program: Developing Grant Guidelines That Respond to Community Needs

Council Priority: Funding and Financing

Background

California's framework for resilience action includes requirements for local governments to consider climate risk in their planning efforts, which involves data, technical expertise, partnerships, and resources that may collectively be burdensome for some communities. Other barriers exist at the implementation stage, where the specificity of program requirements limit local governments' ability to pursue integrated projects that comprehensively address climate risk. ICARP's investment programs, the [Adaptation Planning Grant Program \(APGP\)](#) and [Regional Resilience Planning and Implementation Grant Program](#), aim to address these gaps in support for adaptation and resilience planning and implementation.

The Adaptation Planning Grant Program leverages \$25 million to fund local, regional, and tribal communities in integrated climate adaptation planning. By facilitating climate adaptation planning, APGP supports the development of climate-resilient projects across the State. The Regional Resilience Planning and Implementation Grant Program will fund regional climate resilience efforts, including identifying climate resilience priorities, building capacity, and implementing projects, that respond to a region's greatest climate risks.

These programs advance ICARP's statutory charge to develop a cohesive, equitable, and integrated response to the impacts of climate change by providing direct funding support for local, regional, and tribal adaptation capacity building, planning, and projects across California.

Grant Guideline Development

To ensure its new grant programs respond to community needs, ICARP convened interested parties in 2022 to engage in guideline development.

In 2022, the Adaptation Planning Grant Program engaged over 900 individuals representing, organizations, and state partners through seven listening sessions,

four public workshops, surveys, and one-on-one interviews. In July 2022, ICARP released an [Engagement Summary](#) that compiled and synthesized the feedback gathered during these engagement efforts. Staff continued to seek and respond to public input following the release of the Draft Guidelines, including hosting four public workshops. During the 30-day public comment period, the program received 273 unique comments that informed over 1,595 edits to the Draft Guidelines.

When developing the final Guidelines, program staff integrated these public comments and key takeaways from the APGP Engagement Summary and made additional changes to align with the APGP Priorities and Goals. As staff refined the Guidelines, they continued to ask the following questions:

1. Will this change improve clarity for applicants and/or reviewers?
2. Is this change identified as a priority by multiple interested parties?
3. Will this change reduce the complexity of applying while maintaining integrity of the program?
4. Will this change enhance the programs' ability to support equitable outcomes?
5. Is this change permitted by statute?

At the end of the year, ICARP launched the APGP Intent Survey, the first part of the program's two-phase application process.

In 2022, the Regional Resilience Grant Program held eight public listening sessions, conducted interviews, and released an online survey to gather feedback and input to inform the program's guidelines. During these sessions, the team heard from representatives of 141 unique organizations, including community groups, local and regional government agencies, tribal communities and governments, and state and federal agencies. In October 2022, ICARP released an [Engagement Summary](#) to provide a synopsis of the feedback received during the listening sessions, interviews, and online surveys. This feedback was essential to the development of the program's Draft Guidelines released in early 2023.

Innovation and Equity

The extensive public input identified ways ICARP's grant programs could explicitly and meaningfully prioritize equitable outcomes, particularly in the most vulnerable communities, by establishing inclusive funding programs that remove barriers for applicants and ensure that awardees represent a wide geographic, economic, and population diversity.

The Adaptation Planning Grant Program encourages communities to equitably plan for and respond to multiple climate risks by centering the needs of vulnerable communities and supporting an all-risk approach to integrated adaptation planning.

The program provides flexible funding to meet multi-sector planning needs that intersect with climate risks.

The program seeks to embed equity into the planning process, from project visioning through project evaluation, by increasing opportunities for shared decision-making, utilizing inclusive processes, and actively remedying historic underinvestment by fairly distributing access to the benefits and privileges associated with community investment.

The Regional Resilience Grant Program will conduct intentional outreach and engagement to under-resourced communities and ensure accessibility and flexibility in the public comment and application processes. The program will include funding goals to encourage regional diversity and establish set-asides for tribal and disadvantaged communities. Finally, the program will encourage multi-scale regional partnerships to build capacity and strengthen community engagement.

Both programs include a phased application approach, which gives prospective applicants an opportunity to share their preliminary ideas with an intent survey. This allows mis-aligned proposals to get early feedback that a full application would not be competitive, avoiding loss of valuable time and resources. Staff reviewing the intent survey will provide further assistance to proposals by asking clarifying questions, highlighting areas of improvement, and redirecting applicants to other funding sources when appropriate.

This additional technical assistance will help communities navigate complex state funding opportunities and processes to find a program where their proposal will have a greater chance of success. This technical assistance provided through ICARP's grant programs will leverage interagency partnerships to facilitate these connections, which will also inform ICARP's understanding of gaps in resilience funding so future solicitations can target unmet needs.

ICARP intends for the successes of these programs to extend beyond the applicants' communities by supporting peer-to-peer learning, communities of practice, and information sharing. These efforts will build and broaden capacity to plan for and implement equitable planning strategies, with replicable case studies available through the Adaptation Clearinghouse.

Call Out Box: Key Takeaways

Extensive public engagement identified ways ICARP's grant programs could add unique value by supporting integrated climate planning and implementation. This feedback also informed the development of more inclusive and equitable programs that reduce barriers for applicants, center the needs of vulnerable communities, prioritize support for disadvantaged communities and tribes, encourage shared

decision-making, support capacity-building, and export successes in case studies to scale up solutions.

Resilience Funding Gantt Chart: Developing Resources to Support Funding Access and Implementation

Council Priority: Funding and Financing

Background

California's state budget in 2021 and 2022 included unprecedented investments in climate adaptation and resiliency efforts. However, members of ICARP's Technical Advisory Council voiced difficulties they and others had experienced when trying to identify and strategically target state investment programs. The quantity of new programs and increased funding to existing programs presented enormous opportunities to support local implementation, but capacity constraints require applicants to selectively target and sequence their applications.

The Council requested that ICARP Staff collaborate with partners to develop a resource that visualizes the timelines for state funding programs to allow potential applicants to plan their applications for state funding more strategically.

Resource to Support State Funding Access

To develop a resource to support state funding access, ICARP Staff leveraged the coordinating structure of the Interagency Resilience Work Group and Agency Resilience Deputies Group, the centralized information available through the State Grants Portal, and directly contacted grant programs to gather information about program eligibility and timelines that coalesced in a Gantt Chart. Staff then created several Gantt Charts to visualize grant timelines: one universal chart, and several organized by different types of applicants, including nonprofits and community-based organizations, public sector entities, private sector entities, academia, and California Native American Tribes. The Gantt Charts are available through the Clearinghouse's [Investing in Adaptation Topic Page](#).

The universal Gantt Chart includes information on over 50 investment programs, including timelines, eligibility, and links for more information. The programs included in the chart support a wide range of priorities, including: resilience planning, climate-smart agriculture, environmental justice, water supply and quality, workforce development, infill development, wildlife habitat, vegetation management, urban greening, open space, outdoor recreation, capacity-building, and community resilience.

Innovation and Equity

This unique resource consolidates information on state funding opportunities and visualizes it in a way that compares timelines of investment programs across sectors and agencies to support strategic planning for the year ahead. Development of the Gantt Chart leveraged the interagency coordination structure of ICARP, demonstrating the value of the program, the TAC, and its working groups in identifying opportunities and supporting coordination and alignment to meet local implementation needs.

The Gantt Chart is a tool that can help applicants more efficiently navigate the complex environment of state funding opportunities. The unprecedented investment available for resilience efforts has the potential to support equity by reducing vulnerability, especially as many programs prioritize investments in under-resourced communities. However, communities that would benefit the most from these investments often have limited capacity to identify and apply for these opportunities. Developing tools like the Gantt Chart is one example of a strategy to promote equity by reducing complexity in funding access.

Call Out Box: Key Takeaways

The on-the-ground implementation perspective of the ICARP Technical Advisory Council identified and elevated a shared implementation challenge. ICARP Staff responded to this need by leveraging its interagency coordination groups and partnerships to develop a cross-cutting resource. Supporting access to funding opportunities is an important climate equity strategy.

2022 Milestones and Accomplishments

In 2022, the Integrated Climate Adaptation and Resiliency Program sustained progress in implementing its core statutory functions, recent legislative direction, and new programs funded through the Climate Budget. These programmatic efforts demonstrate implementation of ICARP's Council Priorities, and Staff communicates incremental progress to the Technical Advisory Council (TAC) and public through written Staff Reports and verbal Staff Updates at quarterly TAC meetings.

Actionable Research and Resilience Metrics

The [Fifth Climate Change Assessment](#) launched in Spring 2022 with the release of a website, a kickoff webinar, and a research process webinar to inform interested parties of the Assessment's major products and timelines. Staff developed a list of research topics representing key gaps in the State's climate research portfolio based on input gathered through interviews, surveys, and expert roundtables.

The Fifth Assessment's [Tribal Research Program](#) held Tribal listening sessions and conducted government-to-government consultation with seven Tribes, as well as

informal consultations with several other Tribes. Staff also held workshops to inform the Tribal Research Draft Guidelines, which were released at the end of the year. Finally, the team solicited and reviewed nominations to establish the Tribal Advisory Group.

ICARP's Resilience Metrics effort culminated in the release of the [Resilience Metrics White Paper](#) in March 2022.

ICARP Staff conducted initial research of other agencies' advisory group structures to inform the development of the Science Advisory Group, summarized in the [Best Practices Summary and Recommendations](#).

Decision Support Tools and Guidance

The [Adaptation Clearinghouse](#) user needs assessment got underway in 2022. ICARP also executed a web development contract with UC Berkeley to maintain the website. Updates to the [ResilientCA Adaptation Planning Map](#) completed the county data and added city data for the Los Angeles region. Finally, the Clearinghouse integrated OPR's new wildfire planning resources, the [Wildfire Hazard Planning Technical Advisory](#) and the [WUI Planning Guide](#).

ICARP initiated a user needs assessment for updates to [Cal-Adapt](#), and met with agencies to identify needs and develop recommendations for the update. The Fifth Assessment team is closely coordinating in this effort.

The [Plan Alignment toolkit](#) launched in November 2022. The Wildfire and Flood-After-Fire Plan Alignment Guides included an interactive decision-support tool, best practices, and engagement resources. Two advisory groups, a Local Government Focus Group and a Plan Alignment Advisory Group (composed of local, state, and federal agencies), advised on user needs, content development, and beta-testing.

Call Out Box: Adaptation Clearinghouse Statistics:

16,832 individuals visited the Adaptation Clearinghouse in 2022

The Adaptation Clearinghouse has 1017 unique resources in the searchable database, including*:

- 307 assessment resources
- 134 communication and educational resources
- 180 data and tools resources
- 73 case studies
- 189 plans and strategies
- 184 planning and policy guidance resources

- 110 project examples
- 126 scientific studies

**note: some resources are categorized under multiple resource types and are therefore counted under multiple applicable resource types.*

Building Partnerships and Leveraging Resources

Through the [Community Planning and Capacity Building - Recovery Support Function](#), ICARP coordinated and supported post-fire recovery planning in Plumas County through the Dixie Fire Collaborative. Additionally, ICARP convened its first Wildfire Recovery Peer Learning Network workshop focused on long-term recovery frameworks and plans, which is summarized in a case study.

Through ICARP's partnership with the Department of Housing and Community Development on the [Community Development Block Grant – Mitigation \(CDBG-MIT\)](#) program, Staff developed a policy brief on aligning disaster recovery and hazard mitigation funds. Additionally, the ICARP TAC, acting as the CDBG-MIT Citizen Advisory Committee, provided feedback on a proposed CDBG-MIT Action Plan Amendment.

In 2022, the Resilience Planning and Insurance Working Group pivoted its focus from exploring the feasibility of insurance incentives for landscape-scale wildfire resilience measures to instead develop a pilot insurance product for local governments during extreme heat events.

Funding and Financing

ICARP closed out its 2020 FEMA Cooperative Technical Partners grant, began work on its 2021 grant, and secured a new award in 2022. Through this program, staff have developed [case studies](#) on aligning state programs with FEMA funding requirements, which are available through the Adaptation Clearinghouse. Staff presented its CTP efforts at the Flood Management Association Conference in September 2022 and the State Hazard Mitigation Summit in November 2022.

The Proposition 84 grants closed out in 2022, and the work conducted by awardees in [Los Angeles](#), [Paradise](#), [Sonoma](#), and [Ventura](#) are captured in case studies available on the Adaptation Clearinghouse.

The [Adaptation Planning Grant Program](#) conducted agency interviews to identify alignment opportunities and grantmaking promising practices. Staff conducted a series of listening sessions and public workshops, summarized their findings in an Engagement Summary, and developed Draft Guidelines. At the end of the year,

ICARP launched the APGP Intent Survey, the first part of the program's two-phase application process.

The [Regional Resilience Grant Program](#) conducted public workshops and developed an Engagement Summary to inform guidelines development. Additionally, the program established an Interagency Regional Climate Grant Work Group to coordinate with other programs with a regional scope.

Climate Equity and Vulnerable Communities

ICARP's Vulnerable Communities Platform development included an initial inventory of mapping, data, tools, and related work. Staff conducted stakeholder meetings, convened an Interagency Technical Working Group, and consulted the Community Resilience Work Group (a coalition of nonprofits and community-based organizations) to identify user needs.

Additional Special Initiatives

In early 2022, the final web-based [California Climate Adaptation Strategy](#) was released. Later in the year, ICARP continued its coordination with the California Natural Resources Agency to develop a framework and process for the annual implementation report.

The Draft Extreme Heat Action Plan was released in early 2022, and staff conducted listening sessions to solicit feedback that informed the final [Extreme Heat Action Plan](#). In October 2022, ICARP partnered with the California Natural Resources Agency to conduct an Extreme Heat Symposium, and released a [Symposium Synopsis](#) that summarizes highlights of the event.

2023 Work Plan

This 2023 Work Plan seeks to make meaningful advancement on California’s integrated approach to climate change while maintaining a level of flexibility given the TAC’s charge, per SB 246, to be responsive to timely, urgent, and critical issues. The Work Plan details expected milestones organized by the priority areas identified by the TAC, and the written staff reports and verbal staff updates will follow the same structure. While the Work Plan provides a framework for ICARP’s programmatic efforts in the year ahead, the scope and scale are subject to change.

Actionable Research & Resilience Metrics

Workstream	Q1	Q2	Q3	Q4
Fifth Assessment	<p>Kickoff regional and topical synthesis reports scoping process</p> <p>Solicit Core Climate Research proposals</p> <p>Solicit Energy (EPIC Grants) research applications</p> <p>Rolling release of downscaled climate change projections and modeling</p>	<p>Continued engagement on regional and topical synthesis scoping process</p> <p>Core Climate Research proposal review and scoring</p> <p>Continued release of downscaled climate change projections and modeling</p>	<p>Public community-level engagement on regional and topical synthesis scoping process</p> <p>Core Climate Research awards announced</p> <p>Energy (EPIC Grants) research grants review and contracting</p> <p>Continued release of downscaled climate change projections and modeling</p>	<p>Finalize scope of regional and topical synthesis reports</p> <p>Energy (EPIC Grants) research grants awards announced</p> <p>Continued release of downscaled climate change projections and modeling</p>

Workstream	Q1	Q2	Q3	Q4
Tribal Research	<p>Tribal Research Grant Draft Guidelines Round 1</p> <p>Convene Tribal Advisory Group</p> <p>Kickoff Tribal Synthesis Report scoping and regional scoping with tribal listening sessions</p> <p>Government to Government Consultation</p>	<p>Tribal Research Grant Final Guidelines</p> <p>Develop a workplan and basic guidance with the Tribal Advisory Group</p> <p>Tribal Advisory Group convening monthly</p> <p>Continued engagement on Tribal Synthesis Report</p> <p>Government to Government Consultation</p>	<p>Tribal Research Grant Awards Round 1</p> <p>Tribal Research Grant Round 2 scoping</p> <p>Plan how traditional knowledges and tribal expertise inform the Fifth Assessment</p> <p>Tribal Advisory Group convening monthly</p> <p>Government to Government Consultation</p>	<p>Tribal Research Grant Round 2 Draft Guidelines</p> <p>Finalize Tribal Synthesis Report scope and draft guidelines</p> <p>Tribal Advisory Group convening monthly</p> <p>Government to Government Consultation</p>
Science Advisory Group	<p>Framework and initial membership finalized</p>	<p>Convene SAG leadership and review incoming science advisory requests</p>	<p>Convene SAG leadership and review incoming science advisory requests</p>	<p>Convene SAG leadership and review incoming science advisory requests</p> <p>Report on year 1 of new framework</p>

Workstream	Q1	Q2	Q3	Q4
Resilience Metrics and Assessing Outcomes		Develop scope of work for resilience metrics use guides or case studies		Report of pilot examples of assessing outcomes

Decision Support Tools & Guidance

Workstream	Q1	Q2	Q3	Q4
Adaptation Clearinghouse	User Needs Assessment report/results RFP for web development contract		Web redevelopment with enhanced user workflow (including TA)	Outreach and engagement on Clearinghouse updates
Cal-Adapt		User Needs Assessment report/results Data visualization prototypes and development plans	Execute web development contract	Outreach and updates on Cal-Adapt updates
Plan Alignment Guides and Tribal User Needs Assessment	Background research and draft Coastal Compass content development Conduct outreach to identify coastal communities to	Develop Coastal Compass Case Study Draft Coastal Compass content shared with Plan	Release Coastal Plan Alignment Guide	Finalize Coastal Compass Case Study

Workstream	Q1	Q2	Q3	Q4
	interview for Coastal Compass case study	Alignment Advisory Group		
Planning and Investing for a Resilient California Guidebook	Engage with agency collaborators to scope updates			Draft Guidebook update released

Building Partnerships & Leveraging Resources

Workstream	Q1	Q2	Q3	Q4
CPCB-RSF		Peer Learning Network Roundtable	Peer Learning Network Roundtable, Case Study	Peer Learning Network Roundtable, Case Study
CDBG-MIT		Citizen Advisory Committee		Citizen Advisory Committee
Insurance Working Group		Extreme Heat insurance pilot scope of work		
Technical Assistance		Review Clearinghouse and Cal-Adapt user needs assessment to develop revised TA framework		Case study on TA engagement using new framework

Funding & Financing

Workstream	Q1	Q2	Q3	Q4
FEMA CTP	Co-hosting technical assistance workshop with CalOES to support prospective APGP applicants develop FEMA eligible projects	Outreach and engagement with state climate and disaster resilience funding programs to support alignment with FEMA HMA eligibility	Develop case study documenting lessons learned and challenges with aligning APGP with FEMA HMA eligibility. Support federal funding alignment piece of APGP Round 2 Guidelines	Case study posted on Clearinghouse.
Adaptation Planning Grant Program	Application Launch	Awards Announced	Round 2 Outreach and engagement	Draft Round 2 Guideline Release
Regional Resilience Grant Program	Draft guidelines released for public comment	Final guidelines and application launch	Awards announced	Round 2 Outreach and Engagement
Extreme Heat and Community Resilience Grant Program	Kick off stakeholder engagement for Extreme Heat grant program		Engagement summary	Draft Guidelines released

Climate Equity & Vulnerable Communities

Workstream	Q1	Q2	Q3	Q4
Vulnerable Communities Platform	Prototype VCP (beta) based on initial regional/vulnerability framework	Revised VCP (1.0) Develop mechanism to incorporate community	Regional network/community engagement CRWG and ITWG review of VCP 1.0	VCP 2.0 released, includes regional characterization of vulnerability and

Workstream	Q1	Q2	Q3	Q4
	Initiate feedback process with Community Resilience Working Group (CRWG) and Interagency Technical Working Group (ITWG)	feedback on map platform Regional network/community engagement Pilot communities solicitation	process and results of engagement VCP 2.0 development plan	case studies of communities Implementation plan for targeted technical assistance and climate services development

Additional Special Initiatives

Workstream	Q1	Q2	Q3	Q4
Adaptation Strategy	Year 1 Implementation Report released	Case studies developed and published on the Clearinghouse		
Extreme Heat Action Plan			Draft implementation report	