Integrated Climate Adaptation and Resiliency Program

Technical Advisory Council
Resilience Metrics Work Group

NOVEMBER 18, 2021
10:00 – 11:30AM
Agenda

Item 1 | Welcome & Roll Call
Item 2 | Meeting Minutes
Item 3 | State Adaptation Strategy and Resilience Metrics
Item 4 | General Public Comment
Item 5 | Closing, Future Agenda Items, & Meeting Adjourned
Item 1 | Welcome & Roll Call
Item 2 | Meeting Minutes
Item Public Comment
Approve the ICARP Technical Advisory Council Work Group draft meeting minutes from 7/21/2021 and 10/20/2021.
Item 3 | State Adaptation Strategy & Resilience Metrics
ICARP Conceptual Framework for Resilience Metrics
Ongoing State Work
How State Work informs Climate Adaptation Strategy
Public Comment Draft Out!

- https://resources.ca.gov/Initiatives/Building-Climate-Resilience/2021-State-Adaptation-Strategy-Update

- Public Comment period: 10/18/21 – 11/17/21
  - Comments by email: icarp@opr.ca.gov

- Kick-off Webinar – Friday, 10/22/21 at 11am

- Stakeholder Engagement Workshops:
  - Oct. 27th, 4pm – 6pm
  - Nov. 1st, 4:30pm – 6:30pm
  - Nov. 15th, 4pm – 6pm
Adaptation Strategy Priorities

- Strengthen Protections for Climate Vulnerable Communities
- Bolster Public Health and Safety in Light of Increasing Climate Risks
- Build a Climate Resilient Economy
- Accelerate Nature-Based Climate Solutions and Strengthen Climate Resilience of Natural Systems
- Make Decisions Based on the Best Available Climate Science
- Partner and Collaborate to Leverage Resources
Priority -> Goals

Strengthen Protections for Climate Vulnerable Communities

Goal A: Engage with and build capacity in climate vulnerable communities

Goal B: Improve understanding of climate impacts on California’s communities, including vulnerability drivers

Goal C: Build resilience in climate vulnerable communities through state programs
Priority -> Goals -> Actions -> Metrics!

Goal A: Engage with and build capacity in climate vulnerable communities

Action 1: Provide technical assistance and funding to expand the capacity and planning capabilities of under-resourced communities, including California Native American tribes, to implement climate change mitigation, adaptation, and resilience projects.

Success Metric: Disadvantaged communities have increased success in accessing State climate resilience funding.

Success Metric: Under-resourced communities have a greater participation in key decision-making processes on climate change adaptation and resilience.
Theory of Change

From the ever-helpful (though not necessarily authoritative) Wikipedia:

- **Theory of Change** is a methodology for planning, participation, and evaluation that is used in companies, philanthropy, not-for-profit and government sectors to promote social change. Theory of Change defines long-term goals and then maps backward to identify necessary preconditions.
Theory of Change & the Strategy

Priority: Strengthen Protections for Climate Vulnerable Communities
- Goal A: Engage with and build capacity in climate vulnerable communities

*Theory of Change would be:*

“If the State of CA engages with and builds capacity in climate vulnerable communities, the state will advance climate resilience for all...”
Theory of Change & the Strategy

Priority: Bolster Public Health and Safety in Light of Increasing Climate Risks

◦ Goal A: Build infrastructure resilience to protect public health and safety

Theory of Change would be:
“If the State of CA builds infrastructure resilience to protect public health and safety, the state will reduce risk and increase climate resilience...”
Natural, Social, Built System Function

Natural / Social / Built Process

Natural / Social / Built System FUNCTION
Theory of Change and System Function

“If the State of CA engages with and builds capacity in climate vulnerable communities, the state will advance climate resilience for all…”

Have we achieved social system function resilience?
Natural, Social, Built System Function

**Natural / Social / Built Process**

- Action 1: Provide technical assistance and funding to expand the capacity of planning capabilities of underrepresented communities, including California Native American tribes, to implement climate change mitigation, adaptation, and resilience measures.
  - **Success Metrics:** Disadvantaged communities have increased success in accessing green infrastructure funding.
  - **Timeline:** Under review.
- Action 2: Enhance the participation and leadership of community-based organizations and underrepresented communities in adaptation planning.
  - **Success Metrics:** Increase the participation and leadership of CA Native Resource Agency and Coastal Protection Council, State Coastal Conservancy, Department of Water Resources, Coastal Commission, Department of Fish and Wildlife, State Parks, San Francisco Bay Conservation and Development Commission.
  - **Timeline:** Under review.
- Action 3: Partner with underrepresented communities and with tribes in California and Tribal governments to build coastal and ocean climate resilience.
  - **Success Metrics:** Availability of multicultural council for innovative and educational programming.
  - **Timeline:** Under review.
- Action 4: Engage community input into health impacts studies of climate-related hazards, highlighting disparities and ways to minimize exposures in vulnerable communities.
  - **Success Metrics:** Number of outreach and engagement events implemented to engage community-based organizations, non-governmental organizations, and other relevant entities; number of outreach events.
  - **Timeline:** Ongoing.
- **Agency/Agencies:** CA Environmental Protection Agency - Office of Environmental Hazard and Health Assessment.
  - **For More Details:** Office of Environmental Health Hazard Assessment Strategic Plan: 2021 Update: Human Health Impacts of Climate Change.

---

**Natural / Social / Built System FUNCTION**
Probably Not.

So, we need to understand:

- What else should the State be measuring?
- Where do all of you and your respective efforts fit in, enhance, and build system function?
- What are all of us *not* measuring that we should be measuring?
- How do we ensure the sum is greater than the parts?
Strategy & Prior Discussions

Way back when...

◦ Include short- and long-term actions in the capital improvement program which would promote resiliency of physical infrastructure to climate change impacts.

◦ Local building codes updated to account for climate impacts

◦ Upgrade existing buildings and design new buildings and development projects to withstand climate change impacts

◦ Access to services and health, safety, and comfort resources and not degraded by climate stressors.

◦ People returning to cities/towns instead of staying in new places after disasters.
Strategy & Prior Discussions

Way back when...

- Include short- and long-term actions in the capital improvement program which would promote resiliency of physical infrastructure to climate change impacts.

- Local building codes updated to account for climate impacts

- Upgrade existing buildings and design new buildings and development projects to withstand climate change impacts

- Access to services and health, safety, and comfort resources and not degraded by climate stressors.

- People returning to cities/towns instead of staying in new places after disasters.
Overlap of Adaptation Strategy Metrics & Broader Resilience Metrics

Priority 1: Strengthen Protections for Climate Vulnerable Communities

- **GOAL**: Engage with and build capacity in climate vulnerable communities
- **GOAL**: Improve understanding of climate impacts on California’s communities, including vulnerability drivers.
- **GOAL**: Build resilience in climate vulnerable communities through state programs.

- Identify populations that will disproportionately experience the consequences of climate change.
- Not all state agency plans or grant guidance to identify vulnerabilities and reduce threats through increased resources.
- Emergency operations plan incorporates special considerations for vulnerable populations
- Prioritize solutions towards reducing climate change risks for vulnerable populations and communities.
- Communities experience “equal” impacts and vulnerable populations no longer face disproportionate impacts.
- Vulnerable communities have regular access to services.

- Effective/equitable resource allocation
- Major impacts are no longer tightly coupled to state/region’s well-being (economy, health, progress).
- Deepen and focus engagement with disproportionately vulnerable communities.
- Climate resilience resources directly allocated for vulnerable populations
- Increased public awareness of climate risk and adaptation actions.
Are these the right questions?

- What else should the State be measuring?
- Where do all of you and your respective efforts fit in, enhance, and build system function?
- What are all of us not measuring that we should be measuring?
- What else should we ask?
Homework for Nov. 18th

Review:
- Climate Adaptation Strategy (Strategy) with focus on identified success metrics
- Participate in the public comment on the Strategy!
- Review resilience metrics white paper (will be sent end of next week)

Come Prepared to Discuss:
- What else should the State be measuring?
- Where do all of you and your respective efforts fit in, enhance, and build system function?
- What are all of us not measuring that we should be measuring?
- [other questions we just identified]
Item Public Comment
Item 4 | General Public Comment
Item 5 | Closing, Future Agenda Items, & Meeting Adjourned
Next Meetings

ICARP Council 4th Quarter Meeting:
• December 10, 2021

OPR.CA.GOV/MEETINGS/TAC/
DRAFT 2021 California Climate Adaptation Strategy Released for Public Comment

JOIN US FOR AN INFORMATIONAL WEBINAR ON OCT. 22 AT 11 AM

Register at Resources.Ca.Gov
Thank You!

Ø Juliette Finzi Hart, ICARP Climate Services Program Manager Juliette.Finzi-Hart@opr.ca.gov

Ø Nikki Caravelli, Associate Planner, Climate Resilience Nikki.Caravelli@opr.ca.gov

Ø Clay Kerchof, Associate Planner, Wildfire Resilience & Recovery clay.kerchof@opr.ca.gov

Ø ICARP Newsletter & Announcements https://tinyurl.com/icarp-newsletter