



## Technical Advisory Council 1<sup>st</sup> Quarter Meeting

MARCH 25, 2022 9:30 – 2:30PM



## Morning Session Agenda

Item 1 | Welcome & Roll Call

Item 2 | Meeting Minutes

Item 3 | State Agency Updates

Item 4 | ICARP Programmatic Updates

Item 5 | Impact Report & 2022 Work Plan

Item 6 | Resilience Metrics White Paper

Item 7 | Science Advisory Group Best Practices & Recommendations

LUNCH BREAK



## Afternoon Session Agenda

Item 8 | Adaptation Planning Grant Program Workshop Item 9 | General Public Comment

Item 10 | Closing, Future Agenda Items, & Meeting Adjourned





### Welcome New Councilmembers!







Virginia Jameson California Department of Food and Agriculture Veronica Beaty California Coalition for Rural Housing



# Item 2 | Meeting Minutes



## Item Public Comment



#### ACTION

Approve the meeting minutes from the ICARP Technical Advisory Council 4<sup>th</sup> Quarter Meeting on 12/10/2021 and the Special Meeting on 1/31/22.

# Item 3 | State Agency Updates





## Item Public Comment



## Item 4 | ICARP Programmatic Updates

### Welcome New Staff!





Ravneet Kaur

Executive Fellow

Neil Matouka

Program Manager, Fifth Climate Assessment Patricia Kennedy Tribal Research Manager, Fifth Climate Assessment



Elea Becker Lowe Senior Planner, Climate Science & Resilience

### Welcome New Staff!



Dolores Barajas Program Manager, ICARP Regional Resilience Planning & Implementation Grants



Nicole Hernandez Associate Planner, Climate Science & Resilience



Abby Edwards Program Manager, ICARP Adaptation Planning Grants

### TAC Priority Areas

Actionable Research & Resilience Metrics

Contraction Nupport Tools & Guidance

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Building Partnerships & Leveraging Resources

Funding & Financing



Climate Equity & Vulnerable Communities

 $\checkmark$ 

**Additional Special Initiatives** 

#### Decision Support Tools & Guidance

Adaptation Clearinghouse



### Building Partnerships & Leveraging Resources

 Resilience Planning & Insurance Working Group



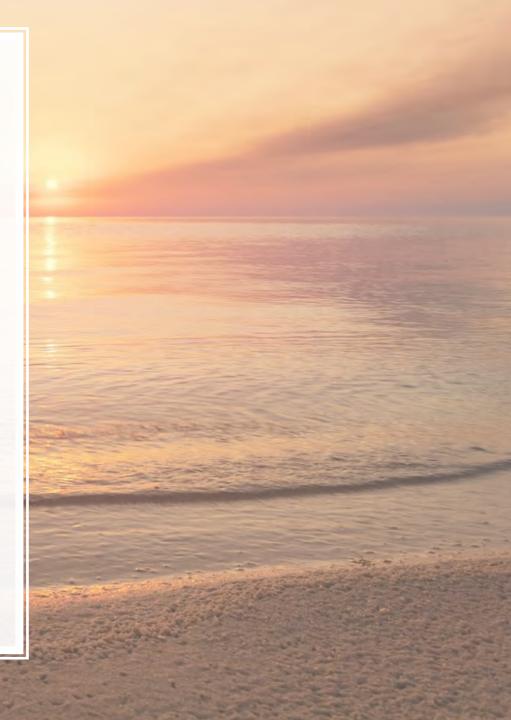
### Funding & Financing

• FEMA Cooperative Technical Partners



#### Additional Special Initiatives

#### California Extreme Heat Action Plan





## Item Public Comment



## Item 5 | ICARP 2021 Impact Report

### Impact Report Outline

- Introduction
  - Climate Change in California
  - Climate Equity
  - Climate Adaptation in California
  - About ICARP
- Priority-based Chapters
  - ICARP's Programmatic Support
  - 2020 & 2021 Accomplishments
  - 2022 Work Plan

PRIORITY	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Actionable Research & Resilience Metrics	Resilience Metrics report finalized and shared with TAC Science Advisory Group vision presented to TAC	Draft Climate Adaption Strategy reporting presented to TAC for feedback Science Advisory Group established	Change Assessment	Update on Year 1 Climate Adaption Strategy implementation report
Decision Support Tools & Guidance	Solicitations for Adaptation Clearinghouse and Cal-Adapt released	Expected release of EO N-19-19 Guidance Draft Wildfire and Flood-After-Fire Plan Alignment Compasses brought to TAC Contracts for Clearinghouse & Cal-Adapt awarded	and Flood-After-Fire Plan Alignment Compass	Expected release of updated Coastal Plan Alignment Compass Clearinghouse & Cal-Adapt tool updates presented to TAC
Building Partnerships & Leveraging Resources	Wildfire peer learning network established & workplan identified Resilience Planning and Insurance Work Group workplan	CDBG-MIT Citizen Advisory Committee	TAC	Completion of peer learning network case studies CDBG-MIT Citizen Advisory Committee
Funding & Financing	OPR CTP FY20 grant - case studies finalized and grant close- out	Stakeholder engagement for Regional Resilience Planning & Implementation Grants and Adaptation Planning Grants Overview of 2022-23 Climate Budget OPR CTP FY21 grant starts	Adaptation Planning Grant and Regional Planning & Implementation Grants Update Launch Community Resilience and Extreme Heat Grant Program	Close out of Proposition 84 grants Grant program updates
Climate Equity & Vulnerable Communities		Release grant solicitation for Vulnerable Communities Platform pilot communities Launch VCP user focus groups Work with selected Vulnerable Communities Platform pilot communities to build and test VCP beta		Release Vulnerable Communities Platform 1.0 for public input Vulnerable Communities Platform public input report out and next steps
Additional Special Initiatives	California Climate Adaption Strategy finalized and published Extreme Heat Action Plan finalized and published			

Appendix: 2022 Work Plan



## Item Public Comment



#### ACTION

# Approve the ICARP 2021 Impact Report and Work Plan.



## Item 6 | Resilience Metrics White Paper

### ICARP Resilience Metrics Work Group

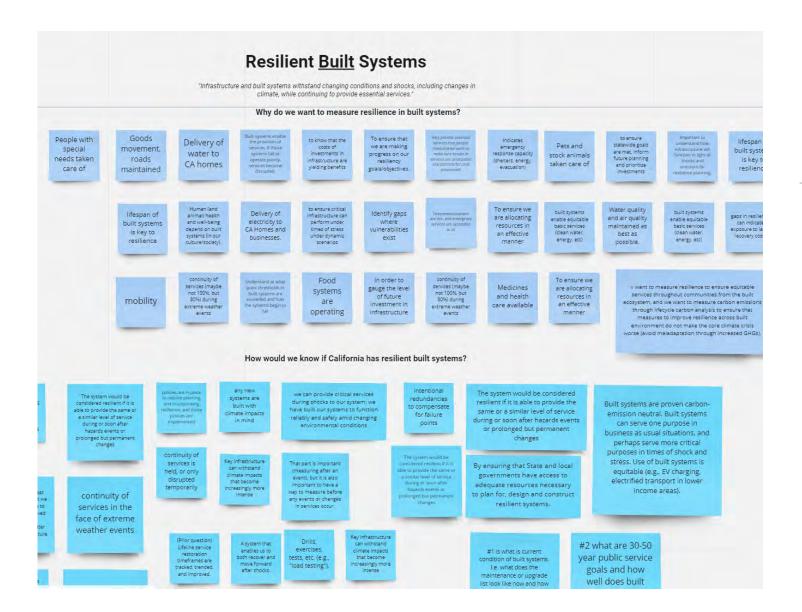
(RMWG) initiated in June 2020

Goals:

- Understand how entities throughout California and in other states or countries are using resilience metrics;
- Identify how the state can measure built, natural and social resilience; and,
- Develop a process for determining what guiding values are necessary to demonstrate resilience across the state.

### **RMWG** Process

- Seven ICARP TAC Resilience Metrics Work Group public, virtual meetings;
- A public survey on resilience metrics efforts throughout California;
- Interagency coordination through the Interagency Resilience Work Group;
- Coordination with 2021 Update to the CA Climate Adaptation Strategy;
- Multi-state Resilience Metrics Workshop series co-led with the US Climate Alliance, RAND Corporation, and the World Bank.



#### RMWG Discussions

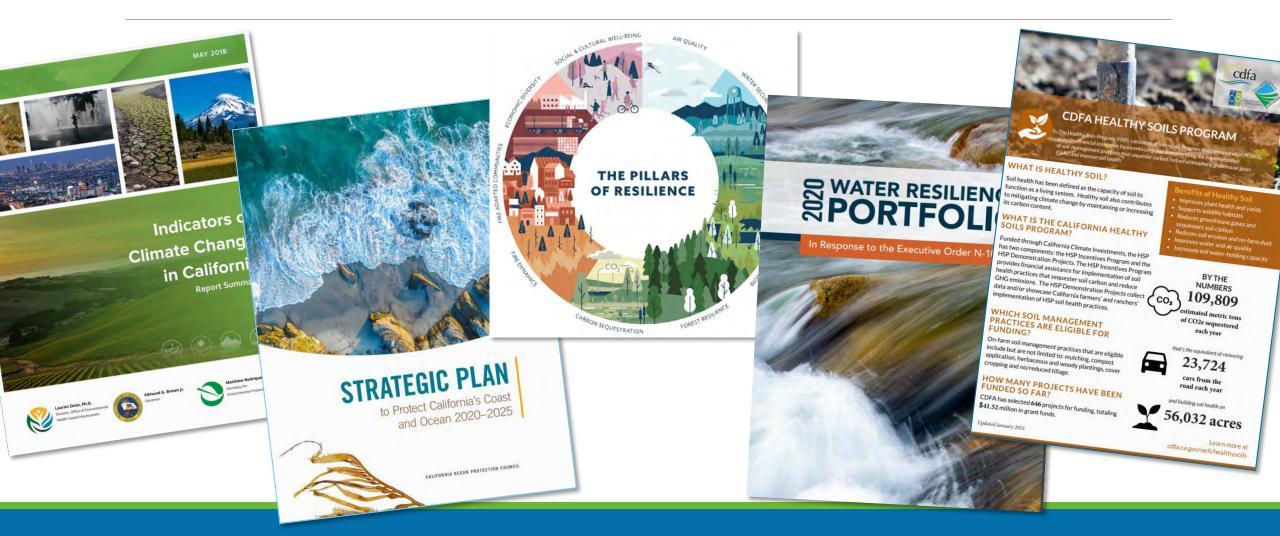
- 1. Why do we want to measure resilience in built/natural/social-human systems?
- 2. How would we know if California has resilient built/natural/socialhuman systems?



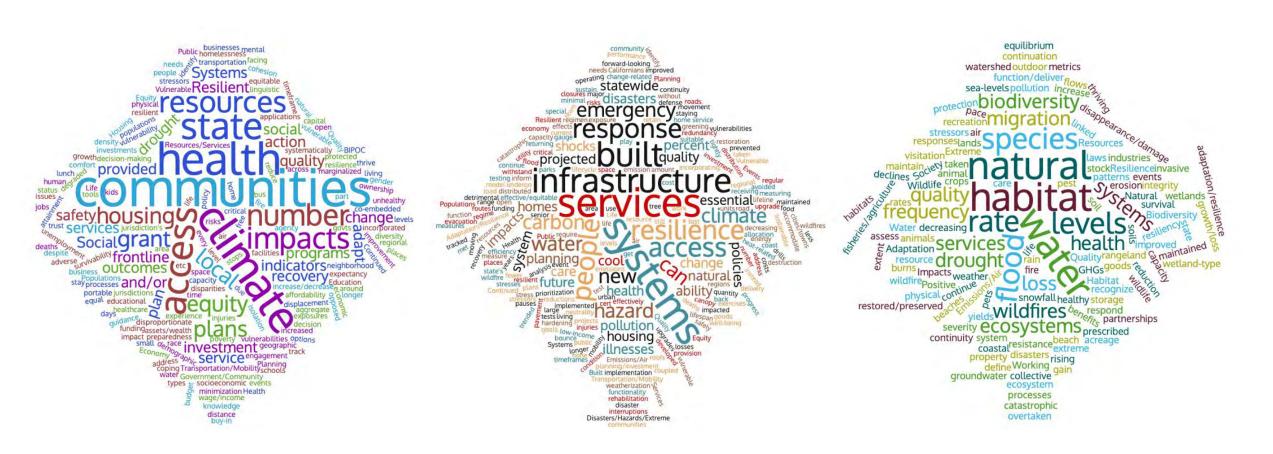
## Resilience Metrics Survey

- Do you use climate resilience metrics in your work?
  a. Why do you measure climate resilience?
  b. Please share your indicators and metrics
- 2. Have you come across climate resilience metrics from other organizations that you think could be useful to your work?
  - a. Please provide examples of climate resilience metrics that you think are worth sharing.
- 3. What do you think the state should measure to demonstrate its progress towards achieving climate resilience?

### Statewide Climate Resilience Work Inventory



#### Social, Built, & Natural Resilience Indicators



#### **Climate Resilience Indicators**

#### **Social System**

#### **Built System**

Socioeconomic, demographic, & climate exposure data determine climate vulnerability & inform action

Climate action plans & policies address health & equity Critical lifeline services & facilities are accessible before, during & after climate-related disasters/events

Transportation infrastructure is accessible & reliable before, during & after climate-related disasters/events

#### **Natural System**

Nature-based solutions benefit natural & working lands

Ecosystem functions & natural processes are maintained

## Moving Forward

Indicators have served – and will continue to serve - many purposes:

- Informed CA Climate Adaptation Strategy update
- Will providing guiding considerations as ICARP establishes new programs
- Provides statewide foundation to support local partners' resilience metrics work
- Provides flexible consistency



## Item Public Comment



## Item 7 | Science Advisory Group

Background

- Identified need for statewide science advisory body to:
  - provide consistent climate science guidance across the state
  - Inform statewide climate adaptation and resilience decision making



dvisory	Location	Size	Members	Tasks	Meeting style	More information
otection cience Team	СА	30	Scientific expertise and credentials with diversity of experience levels, institutions, and academic fields, including traditional ecological knowledge	Expert Taskforces, Advisory Committees, Expert Panels, production of literature reviews, consensus statements, technical review of documents or plans	Public and private	https://www.opc.ca.gov/science- advisory-team/
ent of sources hange Advisory	CA	14	Diverse areas of expertise to describe and assess a changing climate including: climate science, modeling, hydrology, meteorology, local planning, and social sciences.	Perspectives and Guidance for Climate Change Analysis document on the use of climate models and associated technical tools for water resource planning		https://water.ca.gov/-/media/DWR- Website/Web-Pages/Programs/All- Programs/Climate-Change- Program/Climate-Program- Activities/Files/Reports/Perspective s-Guidance-Climate-Change- Analysis.pdf
Climate- structure Group	CA	14	Scientific experts, engineers, and architects	Path Toward Climate-Safe Infrastructure in California report		https://acwi.gov/climate_wkg/ab_2 800_and_california%E2%80%99s_csi wg_water_resources_adaptation_to _climate_change_wg_03_29_2018.p df
apendent oard	СА	10	Prominent scientists with appropriate expertise to evaluate the broad range of scientific programs that support adaptive management of the Delta	Provide oversight and review of scientific research, monitoring, and assessment programs, plans and reports that support adaptive management of the Delta	Public	https://deltacouncil.ca.gov/delta- isb/
Planning arch 9 1k Update Vorking	СА	12	Experts on climate impacts, adaptation pathways, risk modeling, infrastructure	Provide guidance on the science update to the Resilience Guidebook, to support implementation of Executive Order N-19-19	Private	
's Wildfire It Resilience e Science Panel	CA	3	Scientists from research institutions and the USDA climate hub	Provide support to Task force leadership and working groups for action plan priorities, science-based decision making, including translating scientific findings related to agency programs, and identifying research gaps to inform future forest health projects.	Private	https://fmtf.fire.ca.gov/working- groups/

Inventory of Existing Science Advisory Bodies

## Existing Science Advisory Bodies

**Background research:** Reviewed 20 science advisory bodies within and outside of California

**General Composition:** Diverse technical experts who provide guidance on climate science for decision makers

#### **Common roles:**

- Develop climate assessments, technical reports, and guidance
- Translate data into actionable information
- Identify priority research areas
- Serve as a liaison with scientific community and policy makers

## ICARP Science Advisory Group Vision

#### Vision

 ICARP Science Advisory Group will promote alignment of the state's deployment of climate science in resilience planning, policy, and investments.

#### Who would the SAG include?

• Comprised of subject matter experts across California's climate impacts with a broad range of physical and social science expertise

#### What would be the SAG's role?

 Provide scientific and technical guidance and expertise to inform state climate science and research needs and incorporate climate science into state planning and investment decisions

### Discussion

- 1. Where are the opportunities to make sure this group supports and informs local implementation efforts?
- 2. Does the ICARP TAC have recommendations or examples of successful science advisory bodies?
- 3. How does the ICARP TAC propose supporting coordination between the Council and the Science Advisory Group?



## Item Public Comment

## BREAK Back at 1pm

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ICARP Council Q1 Meeting & Adaptation Planning Grant Program Workshop



## Afternoon Session Agenda

Item 8 | Adaptation Planning Grant Program Workshop Item 9 | General Public Comment

Item 10 | Closing, Future Agenda Items, & Meeting Adjourned



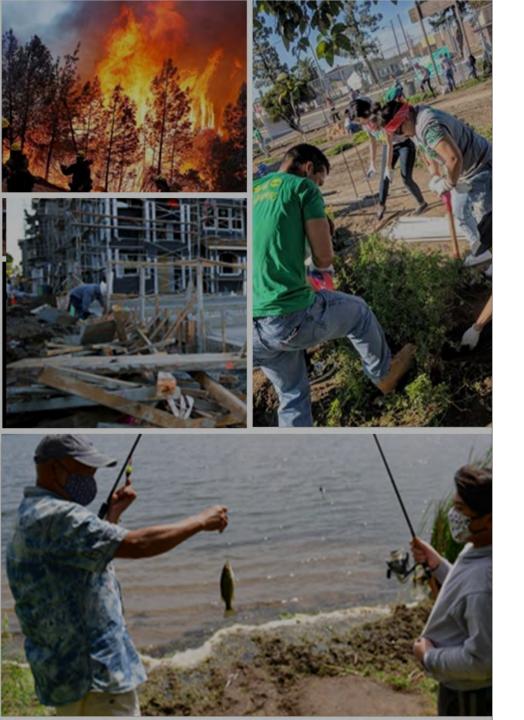
## Item 8 | Adaptation Planning Grant Program Workshop

## Adaptation Planning Grant Program Background

OPR, through ICARP, received \$25M in the state budget to fund a Climate Adaptation and Resilience Planning Grant Program **(Adaptation Planning Grant Program).** 

Funding aims to:

- fill **local, regional, and tribal** planning funding needs
- provide communities the resources to identify climate resilience priorities, and
- support the development of a pipeline of climate resilient infrastructure projects across the state.



## Key Program Priorities

- Support equitable outcomes
- Support much-needed integrated infrastructure planning to achieve community resilience
- Help communities plan for and respond to **multiple climate risks** simultaneously
- Build community planning and capacity

## Interdisciplinary and All-risk Approach

- Funding to support **interdisciplinary** adaptation planning efforts
- Provide flexibility to allow communities to advance local planning needs and priorities
- Funding to advance multi-risk vulnerability assessments and planning
  - E.g. Flood-after-fire, heat and drought





## Workshop Goals

- Kick off public engagement process for the ICARP Adaptation Planning Grant Program
- Solicit input on how this funding can support local, regional, and tribal adaptation planning gaps, needs, and opportunities

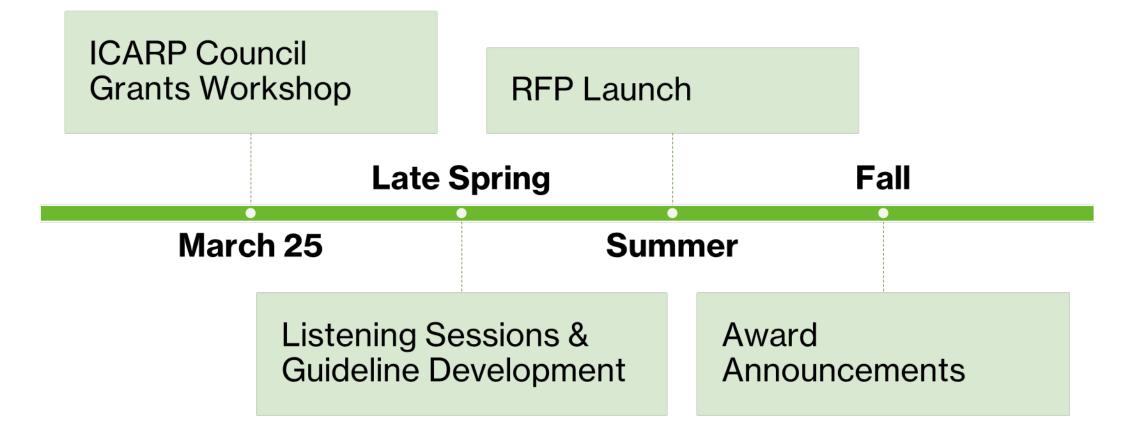
## Breakout # 1 - Discussion Questions

- What type of resilience and adaptation planning activities and needs could this program support?
- Where are there currently resilience and adaptation planning funding gaps and how might we structure the Adaptation Planning Grant program to fill those gaps?
- Where are there opportunities to align with other state agencies to conduct more efficient stakeholder engagement?

### Breakout # 2 - Discussion Questions

- How can this funding work in coordination with other state investments? What opportunities exist to align this program so recipients can leverage other dollars?
- What should the program consider when evaluating the feasibility of funding set-asides for specific issues, geographics, etc.?
- Knowing this program seeks to support under-resourced communities, what are existing barriers to accessing similar funding programs? What do communities need to access the grant program?

### **Tentative Timeline**





Abby Edwards

#### Adaptation Planning Grant Program Manager

abby.edwards@opr.ca.gov



# Item 9 | General Public Comment







## Next Meetings

Q2: June 24, 2022

Q3: September 30, 2022

Q4: December 9, 2022

### Thank You!



- Ø Nuin-Tara Key, Deputy Director, Climate Resilience <u>Nuin-Tara.Key@opr.ca.gov</u>
- Ø Sloane Viola, ICARP Council Program Manager <u>Sloane.Viola@opr.ca.gov</u>
- Ø ICARP Newsletter & Announcements <u>https://tinyurl.com/icarp-newsletter</u>