



Bay Area Air District

BARCAP Kick-off Public Workshop

Thank you for joining us.
We will begin at 5:30 pm.

Until then, please
familiarize yourself with the
following Zoom features:

Note: The Air
District will be
recording this
workshop

Mute/Unmute
Please mute yourself when not speaking

Video

Participants

- See others
- Rename yourself (Name and Group/Agency Affiliation if applicable)
- Raise hand

Chat
To provide questions and or comments when chat is enabled

Reactions

- Raise hand
- Give thumbs up
- applaud

If you need technical assistance at any time during this workshop, please message **Kenta Hikino** using the chat.



Bay Area Air District

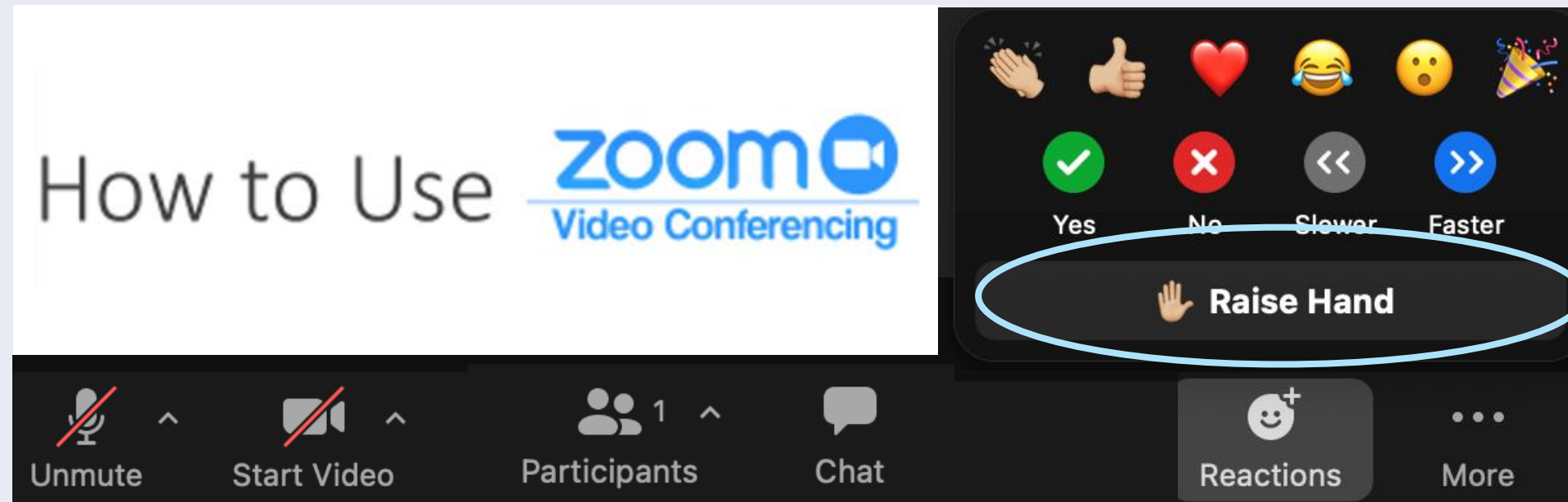
Bay Area Regional Climate Action Plan

**Public Workshop #2 – Preliminary Strategies for
Regional Climate Action**

11 February 2025



Note: The Air District will be recording this public workshop



Mute/Unmute
Please mute yourself when not speaking

Video

Participants

- See others
- Rename yourself (Name and Group/Agency Affiliation if applicable)
- Raise hand

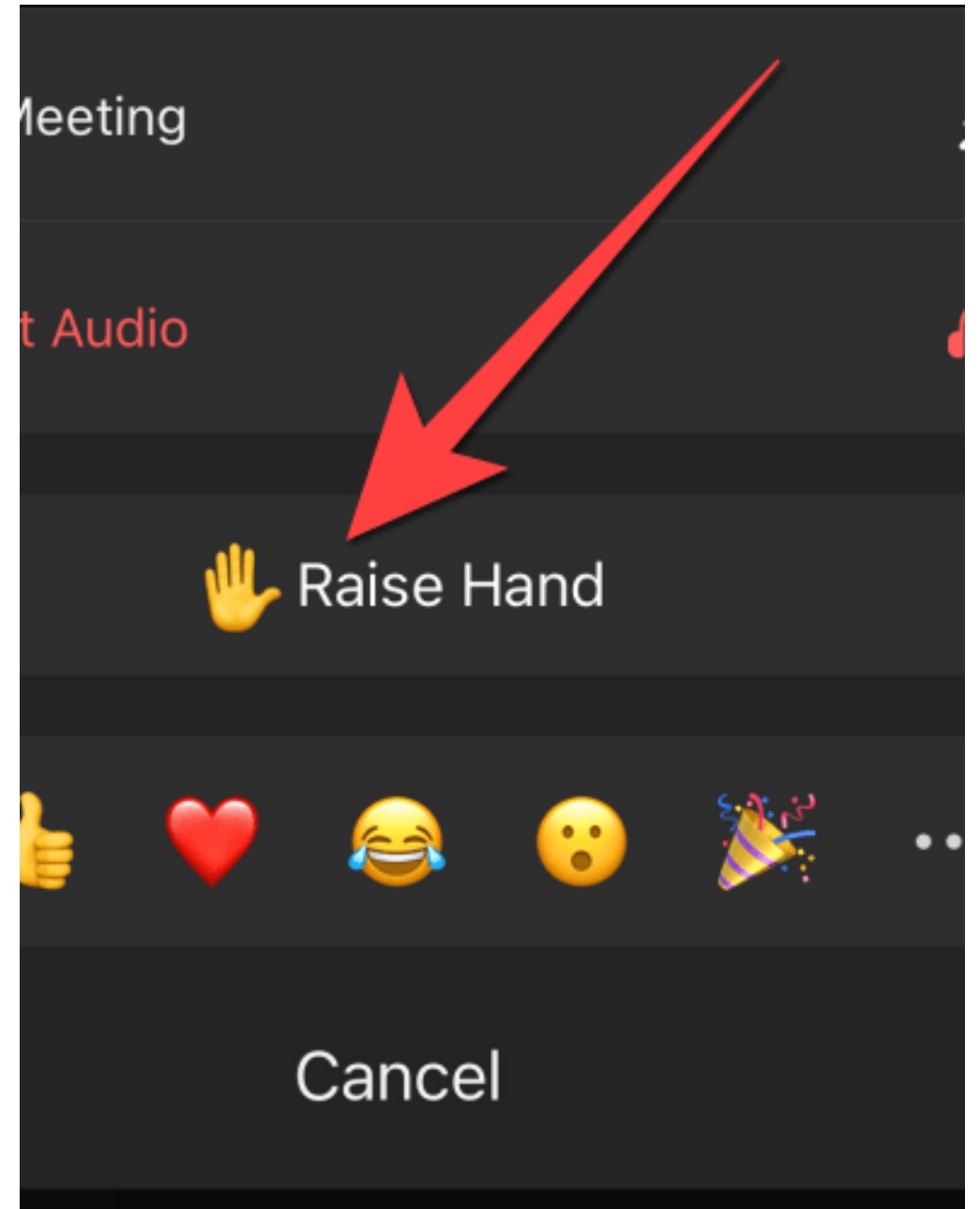
Chat
To provide questions and or comments when chat is enabled

Reactions

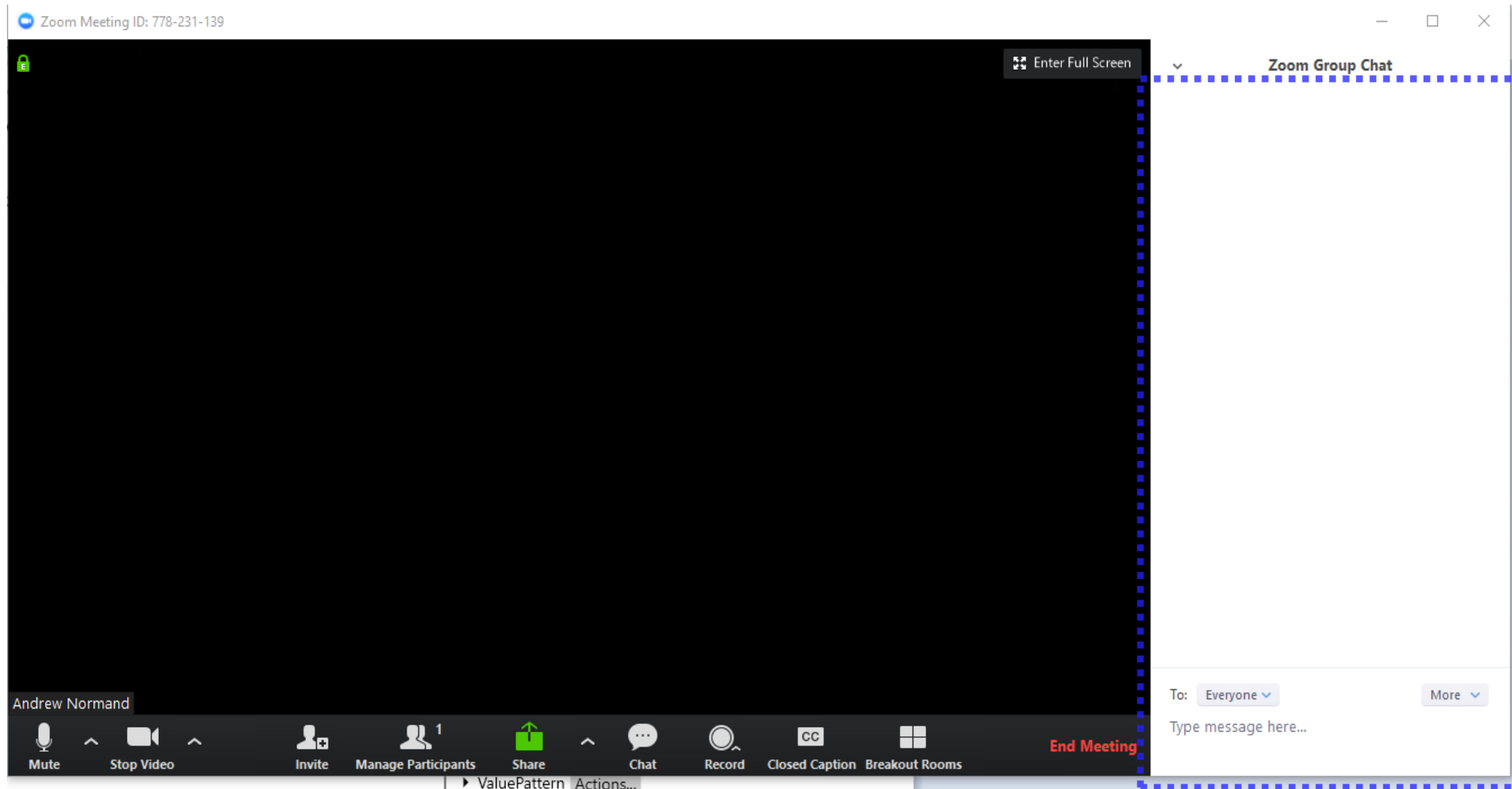
- Raise hand
- Give thumbs up
- applaud

Technical Assistance

If you need technical assistance, please message Kenta Hikino in the Zoom chat or raise your hand.



Thank you for being here!



If you'd like, introduce yourself by putting your **name, location** and any **affiliation** in the chat.

Agenda

5:35 pm



Opening Remarks

5:40 pm



**Bay Area Regional Climate Action Plan (BARCAP)
Progress Recap & Intro**

5:50 pm



Q&A and Live Polling

6:00 pm



Preliminary Strategies Intro

6:10 pm



Q&A and Live Polling

6:25 pm



Climate Action Benefits and Considerations

6:30 pm



Breakout: Creating a Carbon Neutral Future

Welcome and Opening Remarks

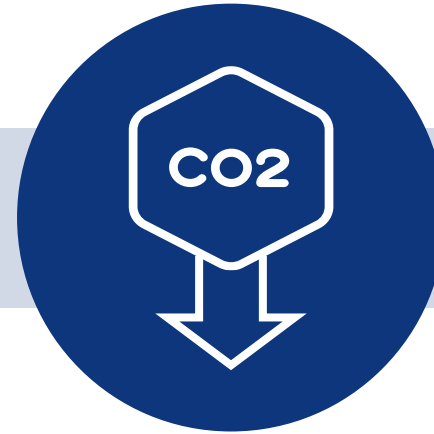
Abby Young
Manager – Climate Solutions



Workshop Goals



Learn about
the Air District's
Regional
Climate Action
Plan initiative



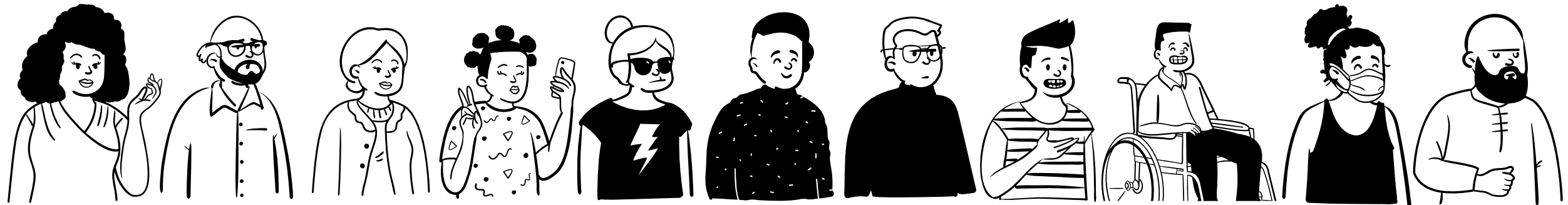
Update On
Preliminary
Strategies for
Climate Action



Collect Input
on Preliminary
Strategies,
Benefits &
Considerations

Zoom Poll #1

Who is in the room with us today?





Event feedback form
(optional and anonymous):

<https://tinyurl.com/BARCAPfeedback>

Overview of the Bay Area Regional Climate Action Plan (BARCAP) Initiative

Jamesine Rogers Gibson
Senior Advanced Projects Advisor

The Bay Area is Experiencing Impacts of Climate Change Today

San Francisco Chronicle 6 MONTHS FOR 99¢ Sign in


An extreme heat wave has arrived in California. Here's what it means for the Bay Area

By Gerry Diaz, Newsroom Meteorologist
Updated July 8, 2023 8:41 a.m.

f X e

Wildfires displace thousands and ravage greater Los Angeles

JANUARY 8, 2025 · 5:00 PM ET



SF and major coastal cities 'sinking' amid rising sea levels, report says

"The Bay Area is ground zero for climate change and sea level rise. We are literally 8 million people living in a bathtub."

By Suzanne Phan
Thursday, March 7, 2024

f X t n e l



Atmospheric river lashes California with heavy rain and wind

By Mary Gilbert, Antoinette Radford, Eric Zerkel, Elise Hammond, Zoe Sottile, Amir Vera, Kathleen Magramo and Deva Lee, CNN
Updated 7:24 AM EST, Tue

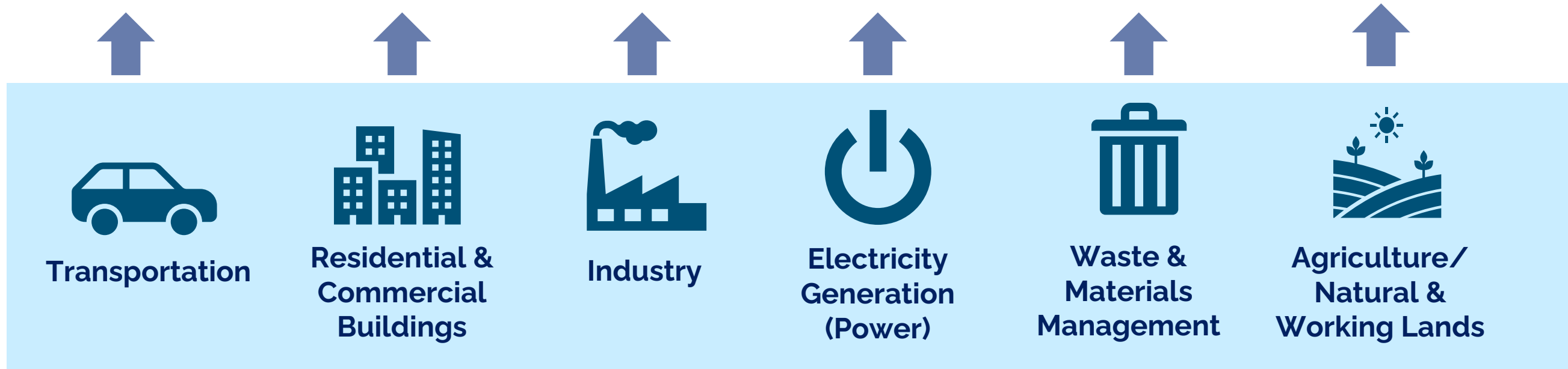
Weather Watch Listen Live TV Sign In

A disastrous megaflood is coming to California, experts say, and it could be the most expensive natural disaster in history

By Payton Major, Judson Jones and Brandon Miller, CNN
5 minute read · Updated 9:36 AM EDT, Sun August 14, 2022

The Bay Area's Contributions to Climate Change

Sources across the economy emit greenhouses gases (GHGs) into the atmosphere.



These sources also remove GHGs from atmosphere and are called sinks.

How is the BARCAP Unique?

Typical Local Climate Action Plans

- Single jurisdiction-focused plan
- Implemented by a local jurisdiction
- Adopted by city councils or boards of supervisors
- Calls for local action to reduce GHG emissions and adapt to climate change

State Scoping Plan

- Statewide plan for carbon neutrality by 2045
- Implemented by state agencies
- Adopted by California Air Resources Board
- Calls for state action to reduce GHG emissions

Bay Area Regional Climate Action Plan

- Supports achievement of the State's carbon neutrality goal
- Implemented by a mix of agencies and organizations
- Submitted to EPA
- Calls for regional action to reduce GHG emissions.
- Lifts up collaborative action that local governments cannot achieve alone

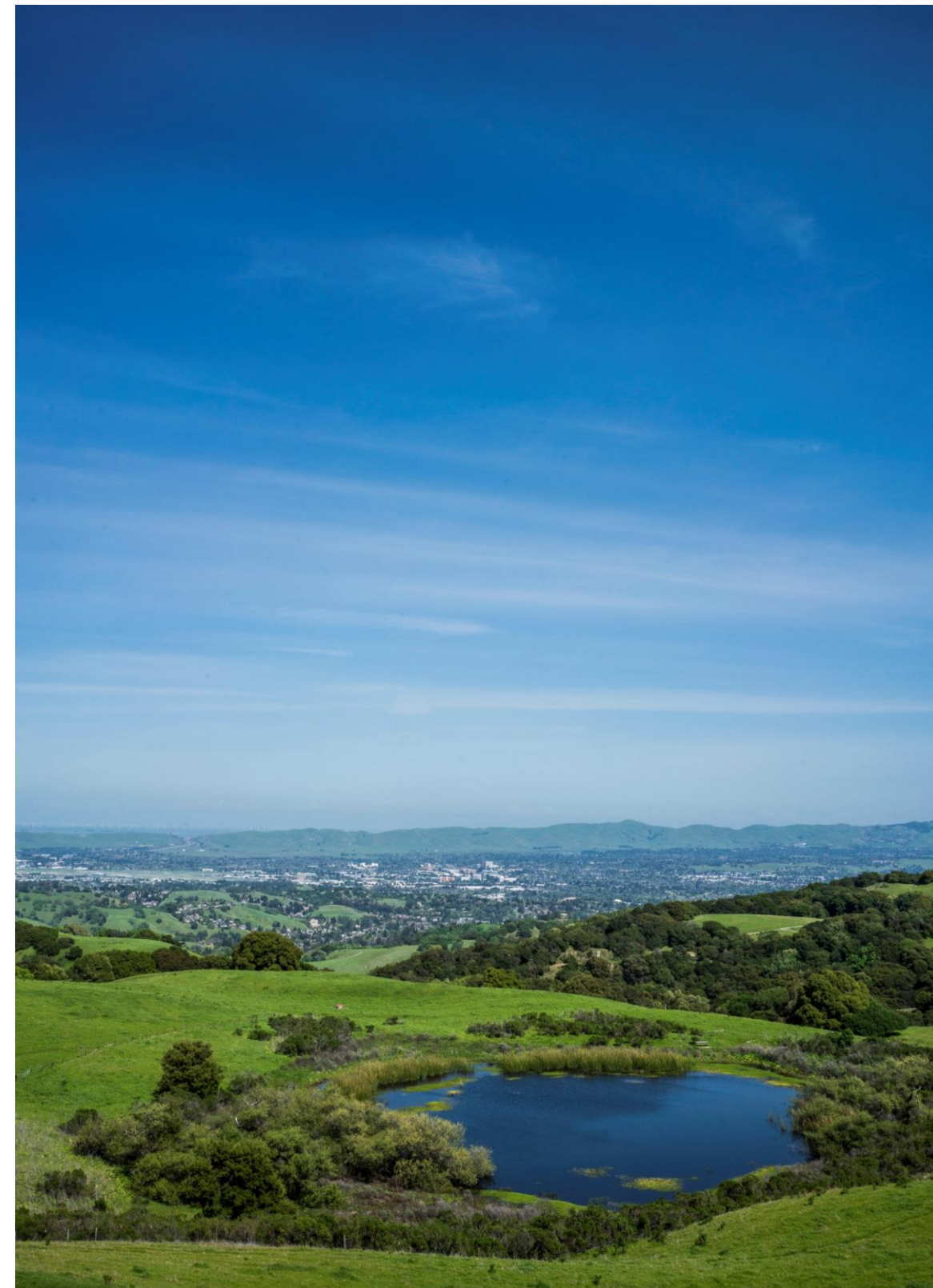
Why Regional Action?

- Overcome hurdles for implementation across multiple counties
- Highlight local successes to spur wider adoption across the Bay Area
- Fill gaps that are too big for local, too small for State action

Example: A regional coordinated approach to diversifying the residential building electrification workforce.

3 February 2025

Trade Secret



Goals of BARCAP Initiative

GOAL 1

Reduce Bay Area's contributions to climate change to help achieve carbon neutrality by 2045

GOAL 2

Create a healthier breathing environment and provide benefits to frontline communities

GOAL 3

Take regional action to complement and build upon State and local climate action plans

GOAL 4

Address important cross-cutting issues that extend across multiple components of the plan

What would it look like to achieve our goals?

Together, we envision a Bay Area where achieving our climate goals fosters thriving communities, healthy natural systems, and a sustainable and prosperous economy.

*On the path to that future, we will create **family-sustaining jobs**, **inspire innovation**, **improve air quality and public health**, and **prioritize environmental justice**.*

Advisory Work Group for BARCAP

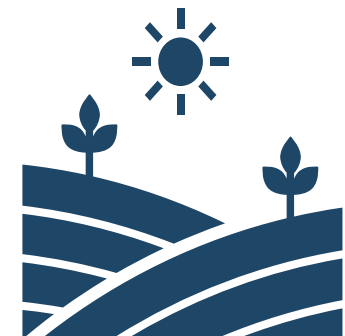
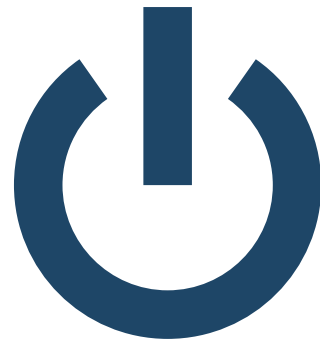


City of
Oakland

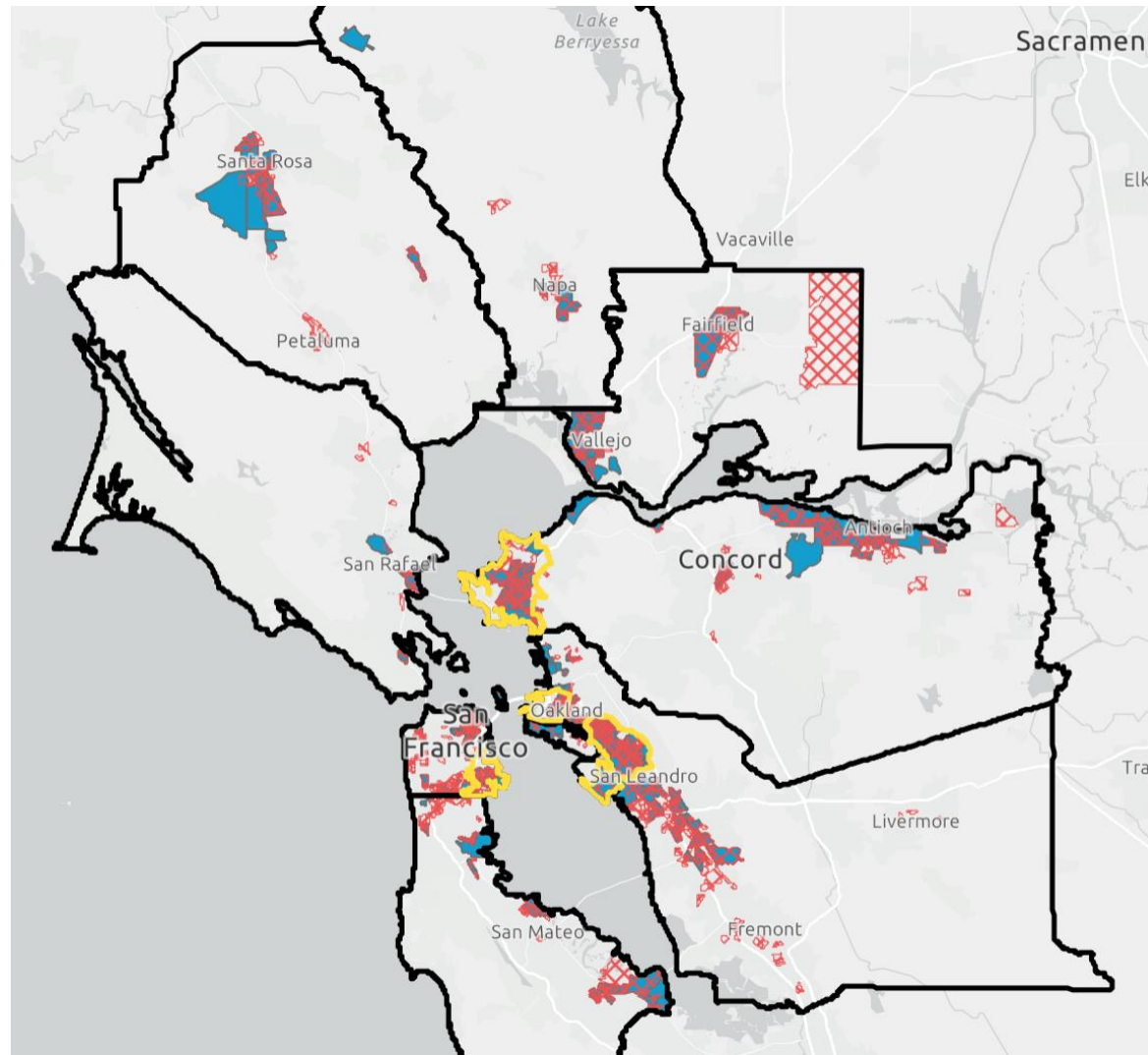


Key Updates: Technical Working Groups

- Convened **14 meetings** of technical work groups composed of regional implementors across the North and Central Bay Area and focused on different economic sectors to:
 - *Identify areas that would benefit from regional action*
 - *Investigate barriers for implementation*
 - *Hone in on potential strategies*
 - *Meet from **October 2024 to March 2025***



Key Updates: Community Workshops & Public Survey



*BARCAP frontline communities in **red, blue, and yellow** census tract areas*

- Community-based organizations brought on as partners to reach frontline communities
- Please take (and share) our public survey!



https://www.surveymonkey.com/r/BARCAP_Survey

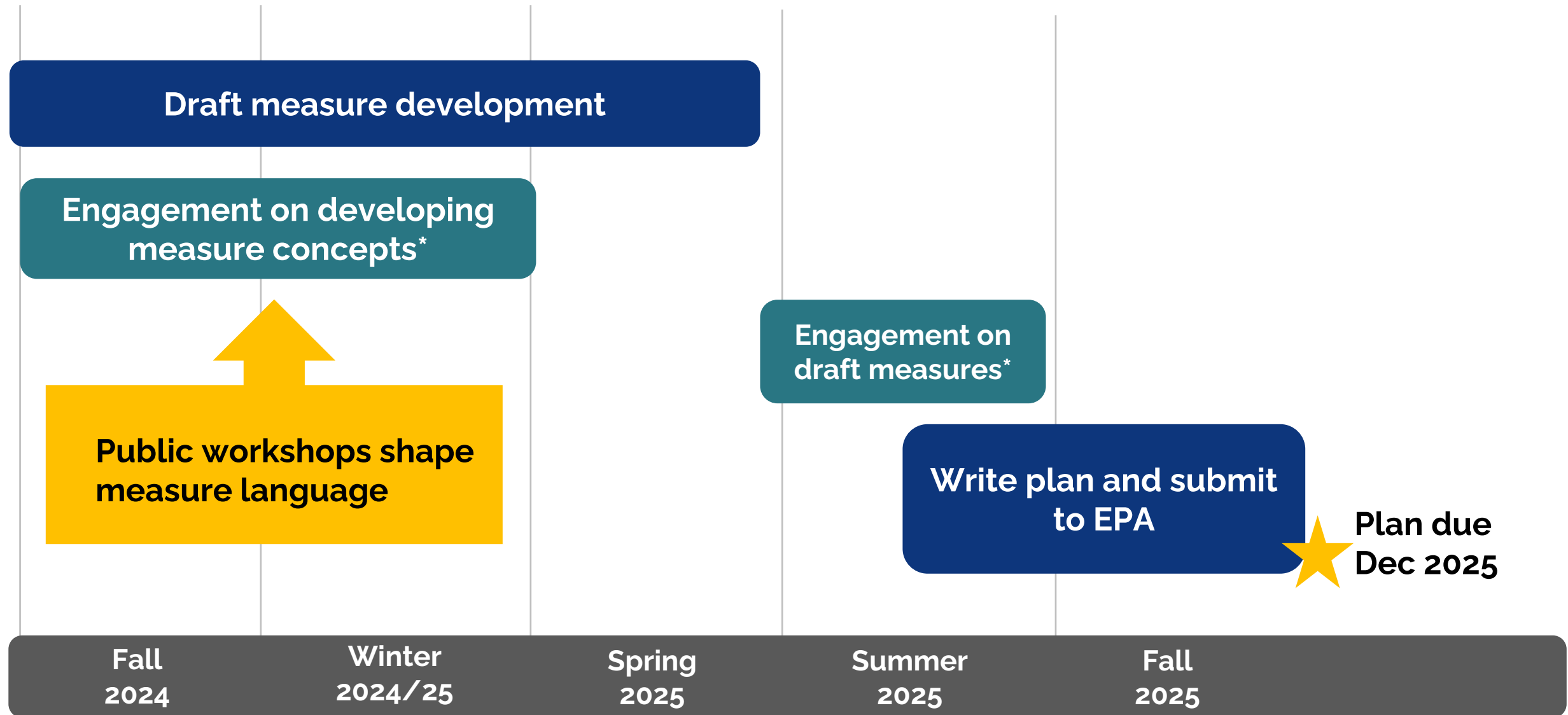
Key Updates: Local Government Input

Held discussions at local government gatherings for input on potential measures:

- San Mateo Regionally Integrated Climate Action Planning Support Program (RICAPS)
- Marin Climate and Energy Partnership
- Sonoma Regional Climate Protection Authority
- Alameda County/StopWaste Technical Advisory Group
- Contra Costa County Sustainability Exchange



BARCAP Development Timeline



** Engagement includes the public, frontline communities, and local governments*

How Are We Using Your Feedback?

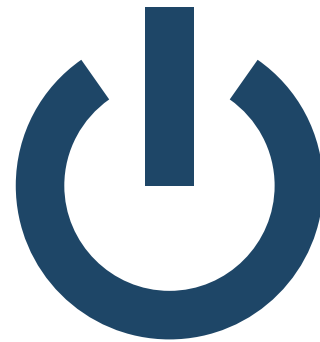
You can help us identify...

- *Is there anything else we should consider as we move forward with identified areas for climate action?*
- *Which actions most benefit your everyday life?*
- *Which potential harms must we guard against as we proceed?*

Q&A

Zoom Poll #2

Which area of climate solutions do you feel you know the most about?



Outcomes of Climate Action

Think of a specific action that could be taken more broadly to decrease climate pollution...



What is a potential benefit or potential harm that action might create for you or your community?

Share thoughts in the chat or raise your hand to share verbally!

Preliminary Strategies for Regional Climate Action

Abby Young

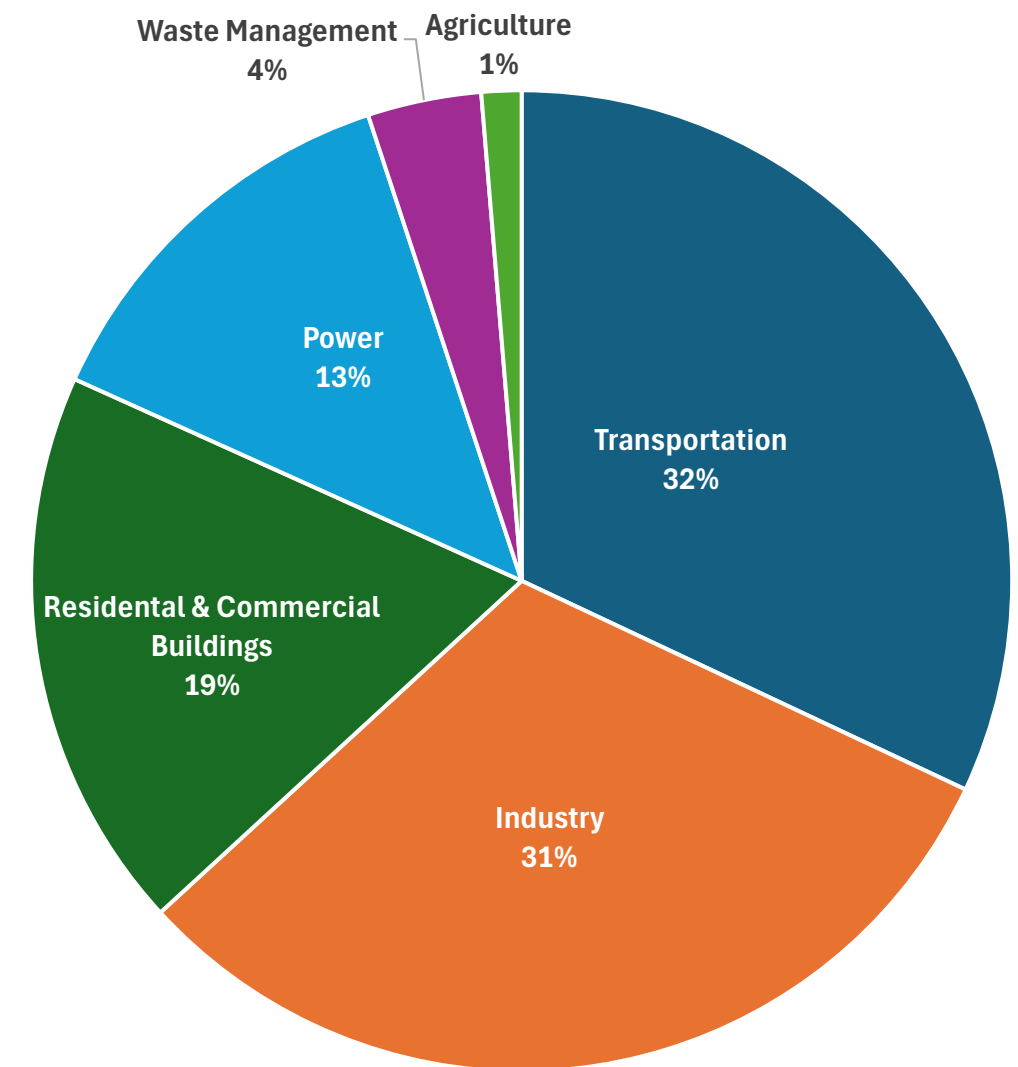
Manager – Climate Solutions



What Causes Climate Pollution in the Bay Area?

Most existing systems that we use in our everyday lives cause climate pollution- mostly from the burning of fossil fuels

Most of these fossil fuel emissions sources also cause air pollution that harms human health



**DRAFT 2022 greenhouse gas inventory for the BARCAP region.
Total of 54 MMTCO₂e.**

Top Four Bay Area Climate Polluting Areas Controlled and/or Influenced by Regional and Local Agencies



How we move (32%):

- Cars and trucks that use **gas and diesel**



Where we live, work and play (19%):

- **Natural gas** is used in heating, cooling, clothes drying, and cooking



How we power our economy (13%)





- **Fossil fuels** are used to create electricity, though electricity is increasingly carbon-free (like solar and wind power)



What we throw away (4%)

- Food and yard waste emit methane when it is **landfilled**

What Does It Mean To Take Action?

Sector	Climate Pollution	Climate Action
Transportation 	Cars and trucks that use gas and diesel	Walk, roll, or take public transit Transition to electric vehicles and support charging
Buildings 	Natural gas is used in heating, cooling, clothes drying, and cooking	Switch from gas to efficient electric building appliances
Waste 	Food and yard waste emit methane when it is landfilled	Reduce food and yard waste from going to landfill
Urban Green Space 	Urban green spaces store carbon and reduce urban heat – but could release emissions if they are not protected from wildfire and drought	Expand urban green spaces

Benefits of Climate Action

How We Can Improve Daily Lives of Our Communities



Reduced **exposure** to health-damaging pollution, improved **community health**



Increased **resilience to climate-related impacts**, including energy security



Creation of and access to **high-road jobs** and **job training opportunities**



Improved **access to services and amenities**



Reduced **energy/transportation cost burden** (rather than increasing costs and debt)



New green spaces and community gardens



Increased and improved **transportation/mobility alternatives** (especially safety, comfort, reliability, access, and cost)



Better **housing quality**, comfort, safety



Increased housing security, helping people remain in their homes (particularly renters)



Enhanced community engagement, increased community awareness of projects and results, and community capacity building

Important Considerations for Measure Development

Topics to be considered in strategy development



Displacement, increased housing costs, and gentrification



Underemployment, lack of jobs



Higher energy or transportation **cost burden**



Space conflicts between creation of new green spaces and housing



Increased **safety considerations**







Inequitable access to incentives and benefits of climate action

Q&A

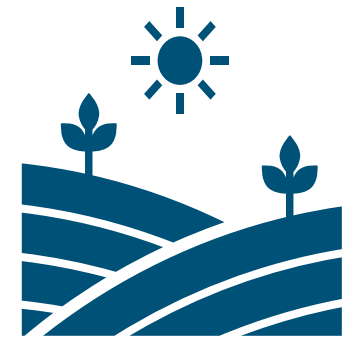
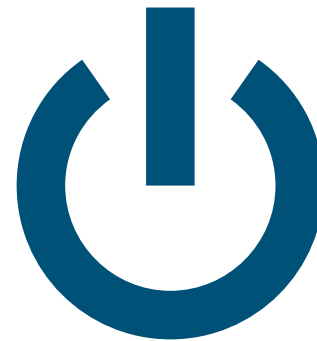
Preliminary Strategies for Regional Climate Action

We Want Your Feedback!

Reminder – How We Can Reduce Climate Pollution Across Sectors

Sector	Climate Pollution	Climate Action
Transportation 	Cars and trucks that use gas and diesel	Walk, roll, or take public transit Transition to electric vehicles and support charging
Buildings 	Natural gas is used in heating, cooling, clothes drying, and cooking	Switch from gas to efficient electric building appliances
Waste 	Food and yard waste emit methane when it is landfilled	Reduce food and yard waste from going to landfill
Urban Green Space 	Urban green spaces store carbon and reduce urban heat – but could release emissions if they are not protected from wildfire and drought	Expand urban green spaces

World Café Breakout Rooms for Actions by Sector



Breakout Room Discussions

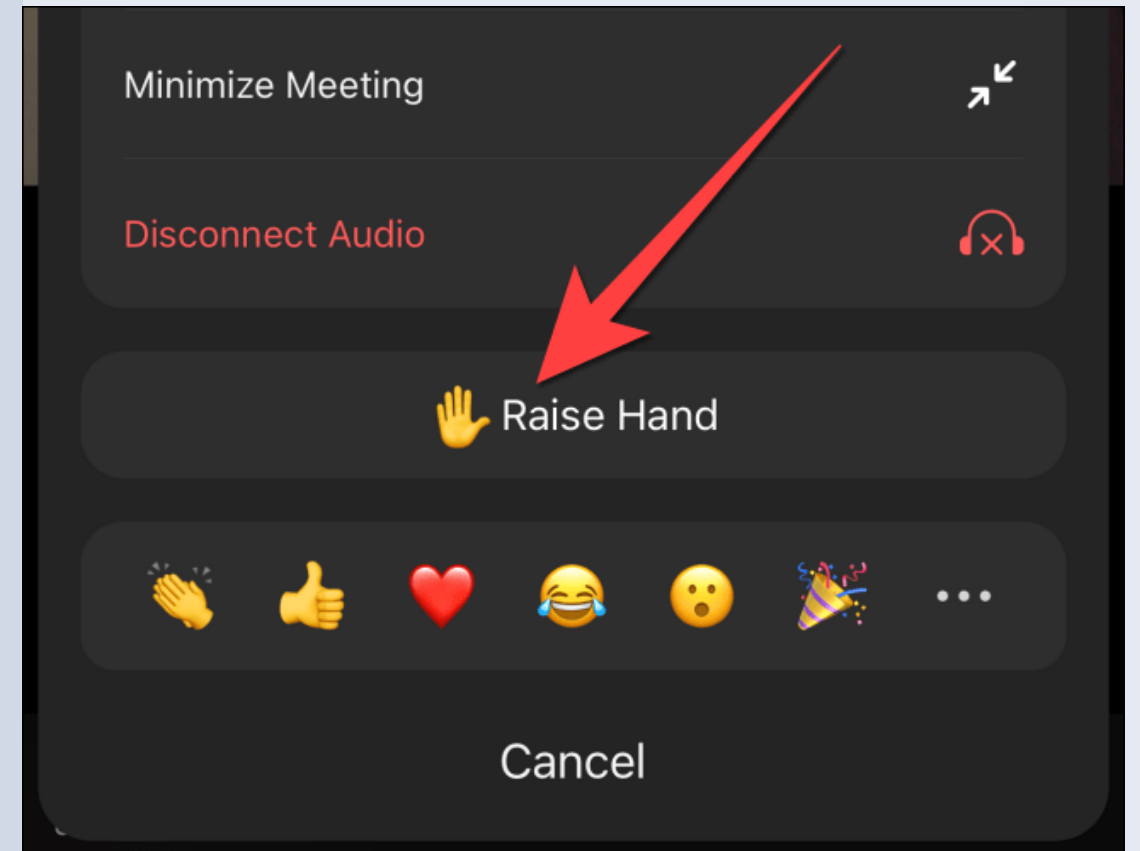
Let's introduce ourselves!

Breakout Process

- 25 min discussion (or remaining time until 6:55PM)
 - *10 minutes/ sector before moving to the next (virtual) table*
- Participants can share comments by chat or verbally
- Facilitator will manage time and participation
- Notetaker will capture key points
- Not recorded

Breakout Ground Rules

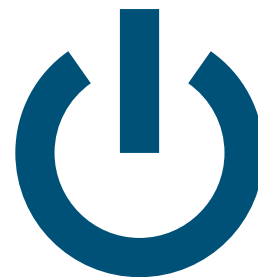
- Raise hand to get in queue to speak next
- Introduce yourself before you speak
- Please mute yourself when not speaking
- Turn your video on if possible (not mandatory)
- Do what you need to show up fully
- All discussion questions are optional
- Conversational courtesy
 - *Be mindful of time and your use of it so we can hear from everyone*
 - *Differences of opinion are okay*
 - *Speak from your own story and use "I" statements*



Instructions

Join sector breakout group that most interests you (below) to preview draft BARCAP measures

- *Feedback – Is anything missing?*
- *Opportunity for Q&A with sector leads*
- *Brainstorm- what are the benefits and potential harms of climate action in your everyday lives or communities?*



Transportation - Preliminary Strategies

32% of regional greenhouse gas emissions







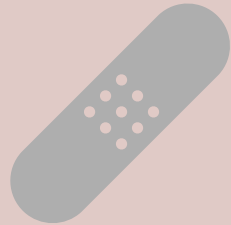



Draft BARCAP Climate Action	Climate Outcomes
Support regional strategies to shift from single-occupancy car travel to transit, biking, rolling, and walking	Reduced emissions through fewer gas car trips- with more people using active transportation and low-emission transit options instead
Support shifts to electric vehicles by making charging infrastructure more available or accessible	Reduced emissions through more people and businesses switching from gas to zero-emission electric vehicles- which must be enabled by accessible and affordable charging options
Facilitate zero-emission last-mile delivery	Reduce emissions from delivery trucks through zero-emission urban distribution centers, allowing for alternative last-mile delivery, such as e-cargo bikes.



Transportation - Outcomes of Climate Action

Benefits and Considerations

Benefits	Considerations
<p data-bbox="200 651 1493 911"><i>Improved health/reduced exposure to air pollution, jobs, improved access to services, reduced cost burden, increased mobility options, community engagement</i></p> <div data-bbox="252 954 1278 1432"></div>	<p data-bbox="1555 651 2618 703"><i>Higher cost burden, safety considerations</i></p> <div data-bbox="1432 946 2279 1171"></div>



Buildings – Preliminary Strategies

19% of regional greenhouse gas emissions

Draft BARCAP Climate Action	Climate Outcome
Facilitate low-pollution buildings with a focus on space and water heating	Reduced emissions resulting from switching to zero NOx appliances (likely electric heat pumps), addressing the biggest source of natural gas emissions in buildings: space and water heating
Integrate electrification funding with weatherization and basic home repair programs to deliver multiple benefits to overburdened communities.	Leveraged resources and services resulting in emissions reductions and healthier, safer and more comfortable homes for eligible low-income residents.
Support and grow the building electrification workforce	Supports emissions reductions by increasing the number of trained and motivated workers to perform electrification upgrades



Buildings - Outcomes of Climate Action

Benefits and Considerations

Benefits

Improved health/reduced exposure to air pollution, jobs, improved access to services, reduced cost burden, better housing quality, community engagement



Considerations

Higher cost burden (financial and construction-related impacts on renters), displacement/gentrification





Power – Preliminary Strategies





13% of regional greenhouse gas emissions

Draft BARCAP Climate Action	Climate Outcome
Develop local renewable energy and storage projects (including distributed energy and behind-the-meter)	Emissions reductions from increased proportion of renewable projects in the region, allowing for less dependence on fossil-fuel powered electricity
Increase grid capacity and flexibility to support more renewable energy and storage, widespread electrification, and increased reliability	Emissions reductions enabled by electrification (in other sectors), lessened reliance on fossil-fuel powered sources to meet high demand periods (peaks), and increased efficiency in electricity delivery (i.e., losses)



Power - Outcomes of Climate Action

Benefits and Considerations

Benefits	Considerations
<p data-bbox="240 638 1238 765"><i>Jobs, reduced cost burden, community engagement, increased resilience</i></p> <div data-bbox="323 864 1016 1050"></div>	<p data-bbox="1515 638 2008 696"><i>Higher cost burden</i></p> <div data-bbox="1392 850 1601 1015"></div>



Materials and Waste – Preliminary Strategies







4% of regional greenhouse gas emissions

Draft BARCAP Climate Action	Climate Outcome
Reduce landfilled food and yard waste through recovery of edible food, and composting of non-edible organic waste	Emissions reductions from less landfilled organic waste, which emits methane as it decomposes, while prioritizing recovery of edible food for human consumption
Support adoption of reused and other low-carbon building materials	Emissions reductions from less landfilled waste, as well as less emissions to make building materials
Ensure adequate capacity for mandated organic waste diversion	Supports emissions reductions from reduced inedible food and yard waste in landfills by enabling more local low-emissions capacity for composting, and creates material for carbon sequestration in soils



Materials and Waste - Outcomes of Climate Action

Benefits and Considerations

Benefits	Considerations
<p data-bbox="240 645 1379 767"><i>Access to services, community engagement, jobs, health, climate resilience</i></p> <div data-bbox="320 795 1601 1187"></div>	<p data-bbox="1521 645 2008 697"><i>Higher cost burden</i></p>



Natural and Working Lands – Preliminary Strategies

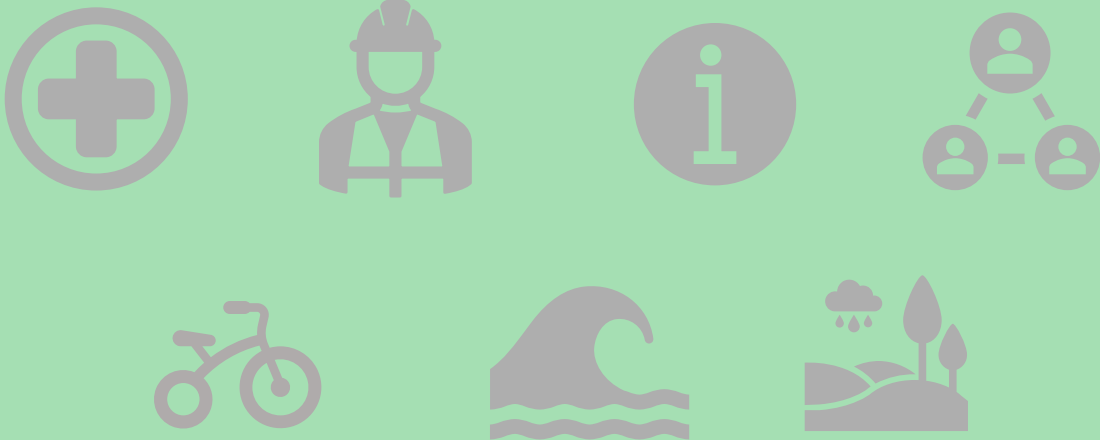

Sequesters carbon, 1% regional greenhouse gas emissions from Agriculture

Draft BARCAP Climate Action	Climate Outcome
Restore and preserve natural lands	Prevent losses of natural and agricultural lands from fire, development, and drought, which causes lands to emit, rather than absorb, greenhouse gas emissions and pollution (smoke)
Increase climate resilient, equity-centric urban greening	Expand urban green spaces to absorb more carbon in urban areas while reducing the effects of flooding and urban heat on residents
Scale up carbon farming	Absorb more carbon in agricultural lands through carbon farming practices like application of compost, including trees in agriculture, no-till agriculture



Natural and Working Lands - Outcomes of Climate Action

Benefits and Considerations

Benefits	Considerations
<p data-bbox="178 708 1512 899"><i>Improved health, jobs, improved access to services, community engagement, increased mobility options, increased resilience, new green space</i></p> <div data-bbox="320 968 1422 1409"></div>	<p data-bbox="1576 708 2836 760"><i>Higher cost burden, displacement, space conflict</i></p> <div data-bbox="1718 961 2654 1183"></div>

Share Out:

What We Heard

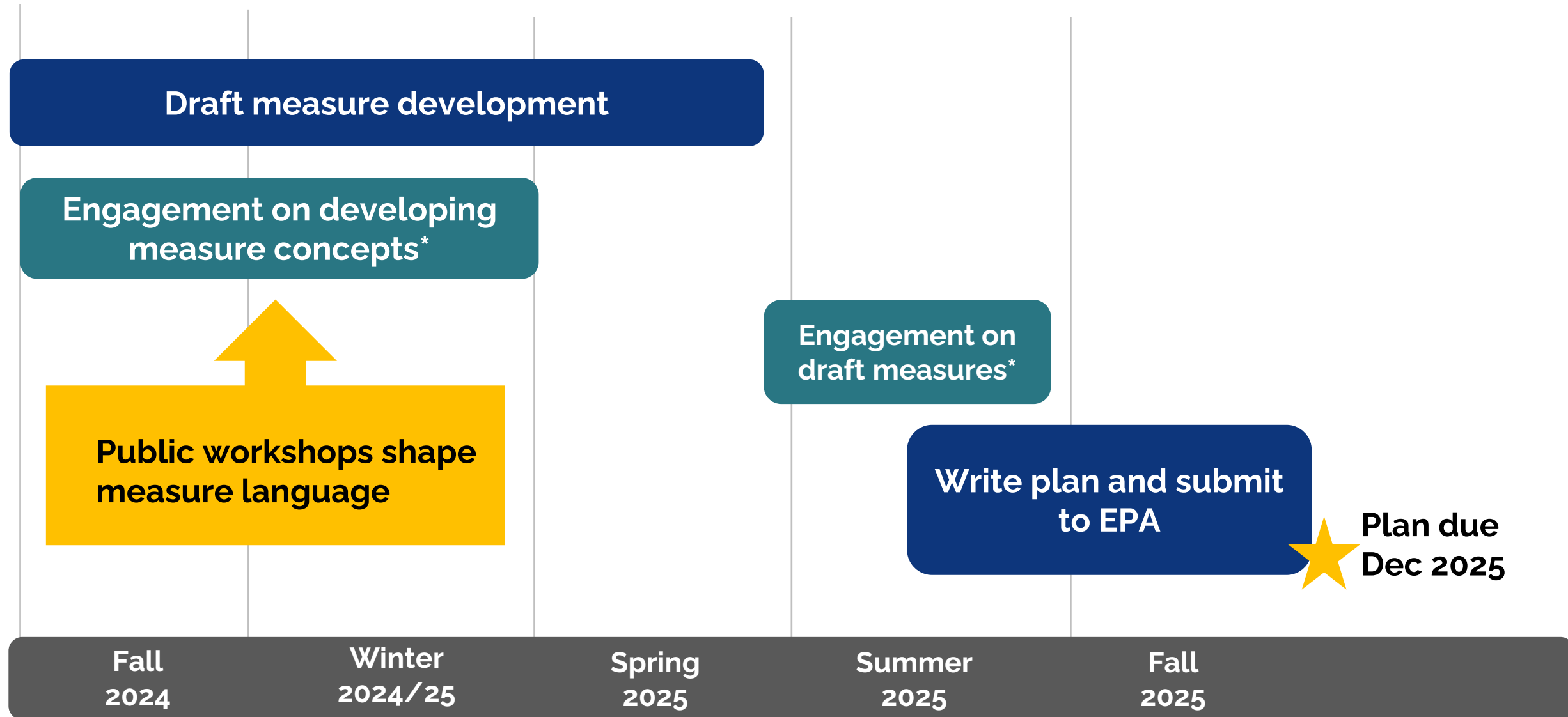
Our Final Ask

Please take (and share) our public survey!

[https://www.surveymonkey.com/r/
BARCAP_Survey](https://www.surveymonkey.com/r/BARCAP_Survey)



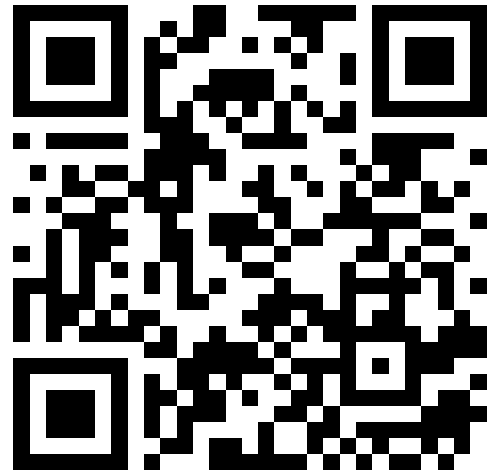
BARCAP Development Timeline



** Engagement includes the public, frontline communities, and local governments*

Event Feedback Form

(optional and anonymous)




<https://tinyurl.com/BARCAPfeedback>

Sign up for BARCAP updates
as part of our listserv!

<https://tinyurl.com/infoBARCAP>

Appendix



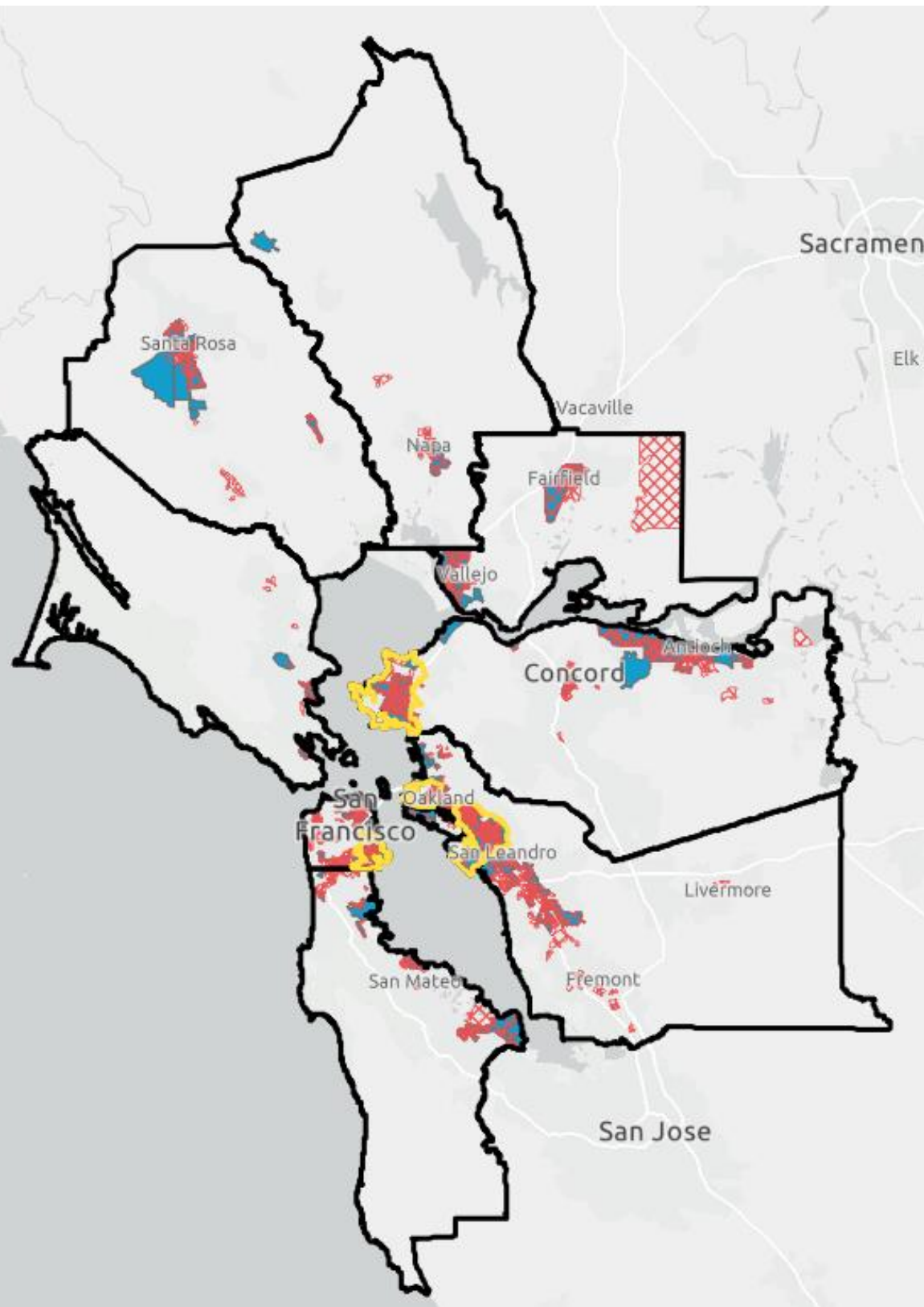


Goal 1: Reduce Bay Area's Contribution to Climate Change to Help Achieve Carbon Neutrality by 2045

- BARCAP will have near- and long-term targets
- Air District recommends aligning with state targets, which are:
 - 40% reduction from 1990 levels by 2030
 - Carbon neutrality by 2045
- Federal and state actions will be taken into account in meeting regional targets

Goal 2: Create a Healthier Breathing Environment and Provide Benefits to Frontline Communities

Where are the frontline communities for BARCAP?



BARCAP Planning

 Boundary

AB 617 CERP

 Community Boundary

EPA IRA Disadvantaged Communities

 Block Group

MTC Equity Priority Communities

 Census Tract

See the webmap:

<https://tinyurl.com/BARCAPfrontline>



Goal 3: Take Regional Action to Complement and Build Upon State and Local Climate Action Plans

- Complement and build upon efforts of State and local climate action plans
- Unlock barriers and accelerate implementation of local climate actions
- Form committed partnerships of agencies and organizations to pursue implementing regional actions in the BARCAP



Goal 4: Address Important Cross-cutting Issues That Extend Across Multiple Components of the Plan

- Evaluate issues of interest to the region that span economic sectors (e.g., transportation, buildings, energy)
- Economic opportunities and workforce development
- New and emerging technologies
- Opportunities for resilience benefits