



County of San Diego



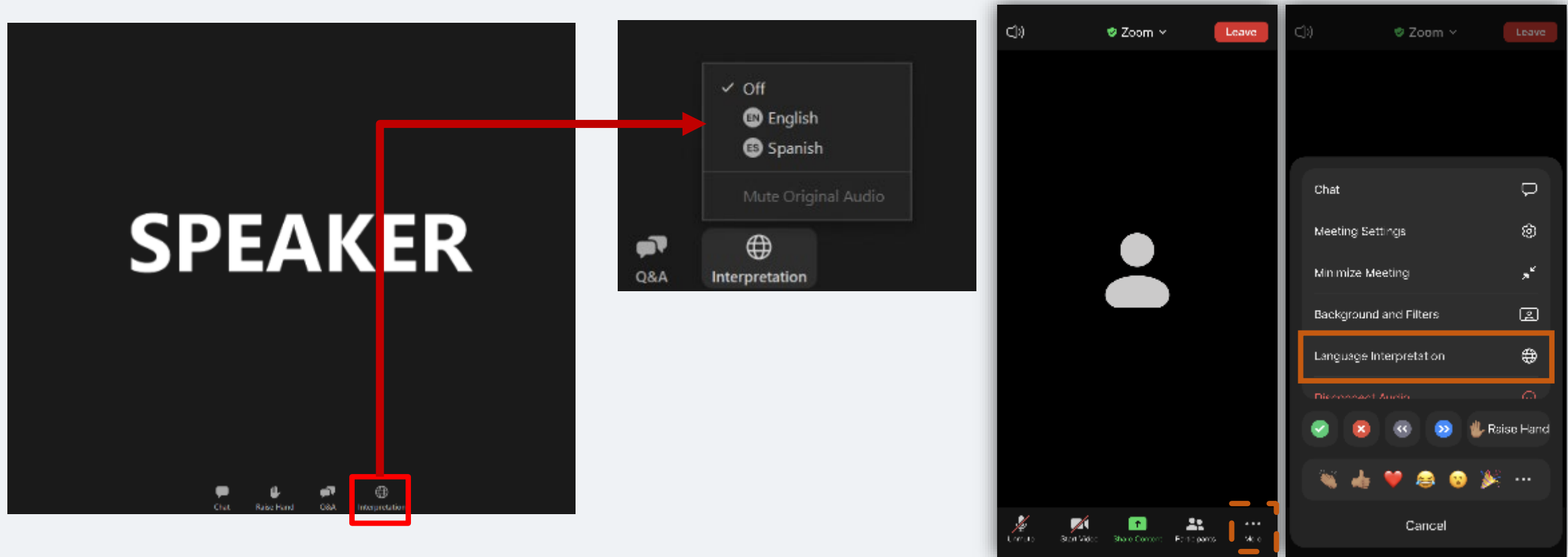
GETTING TO
ZERO

SAN DIEGO COUNTY
REGIONAL DECARBONIZATION FRAMEWORK

Land Use and Natural Climate Solutions Working Group

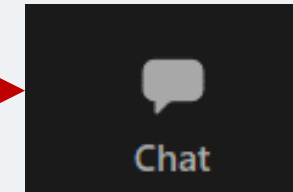
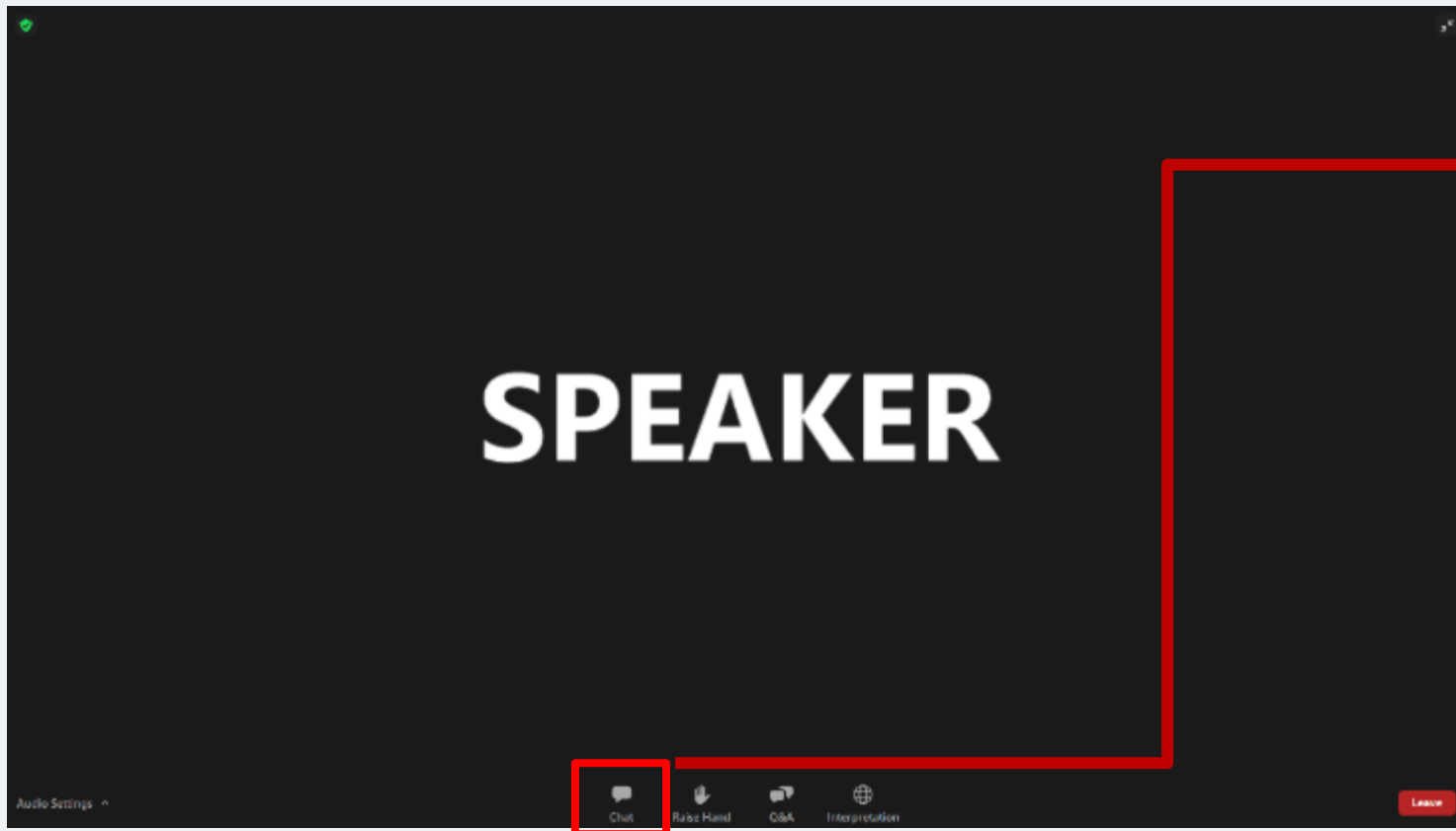
October 4, 2022

How to use Zoom // *Cómo Usar Zoom*



Please select your language of choice (you must select one option)
Debe seleccionar el idioma de su preferencia (Tiene que escoger un idioma)

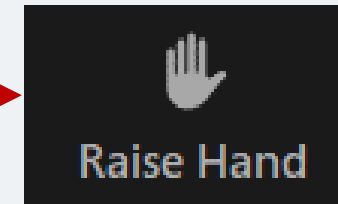
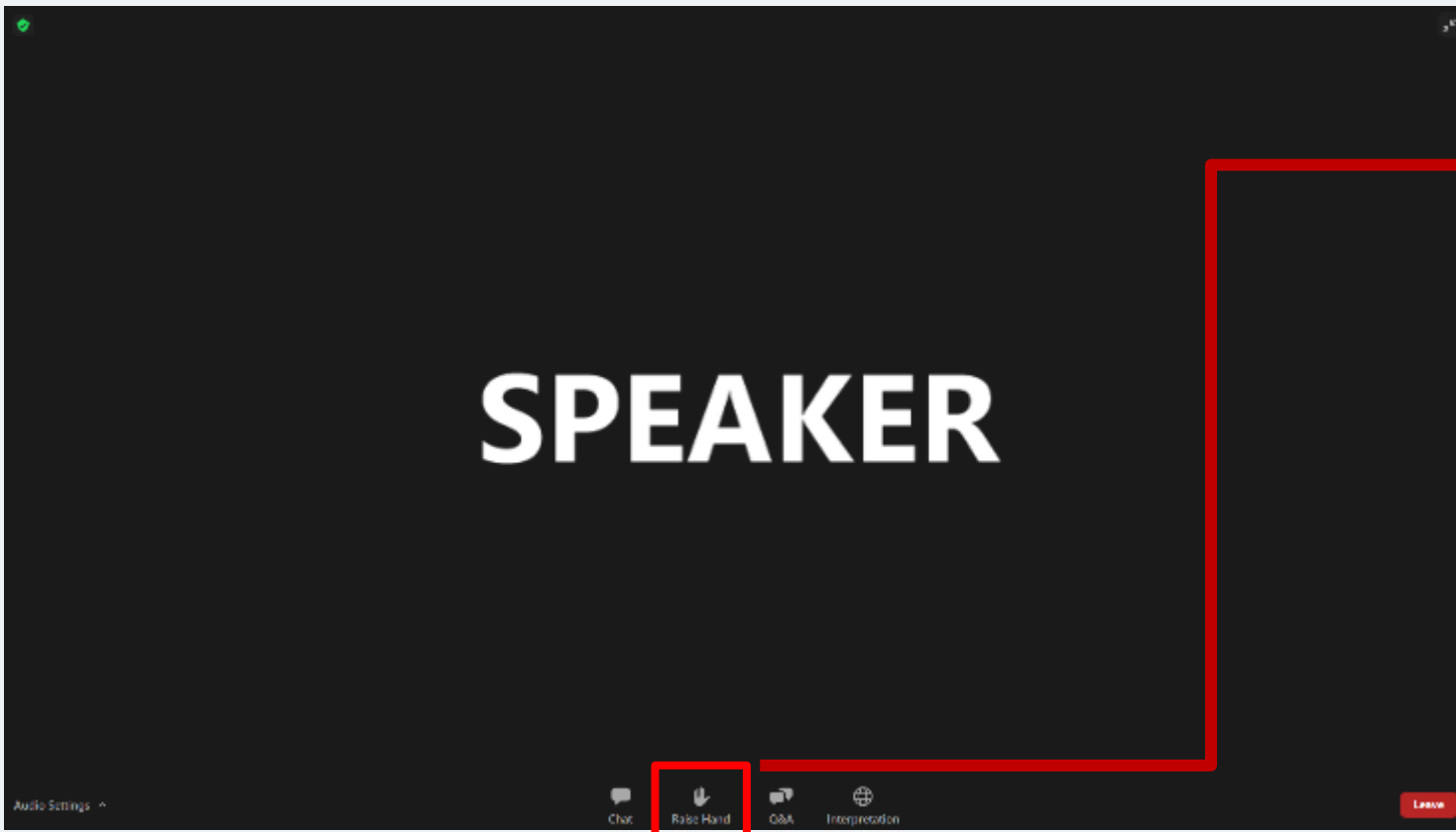
How to use Zoom // *Cómo Usar Zoom*



Comments and questions can be submitted through the chat window.

Los comentarios y las preguntas se pueden enviar a través de la ventana de chat.

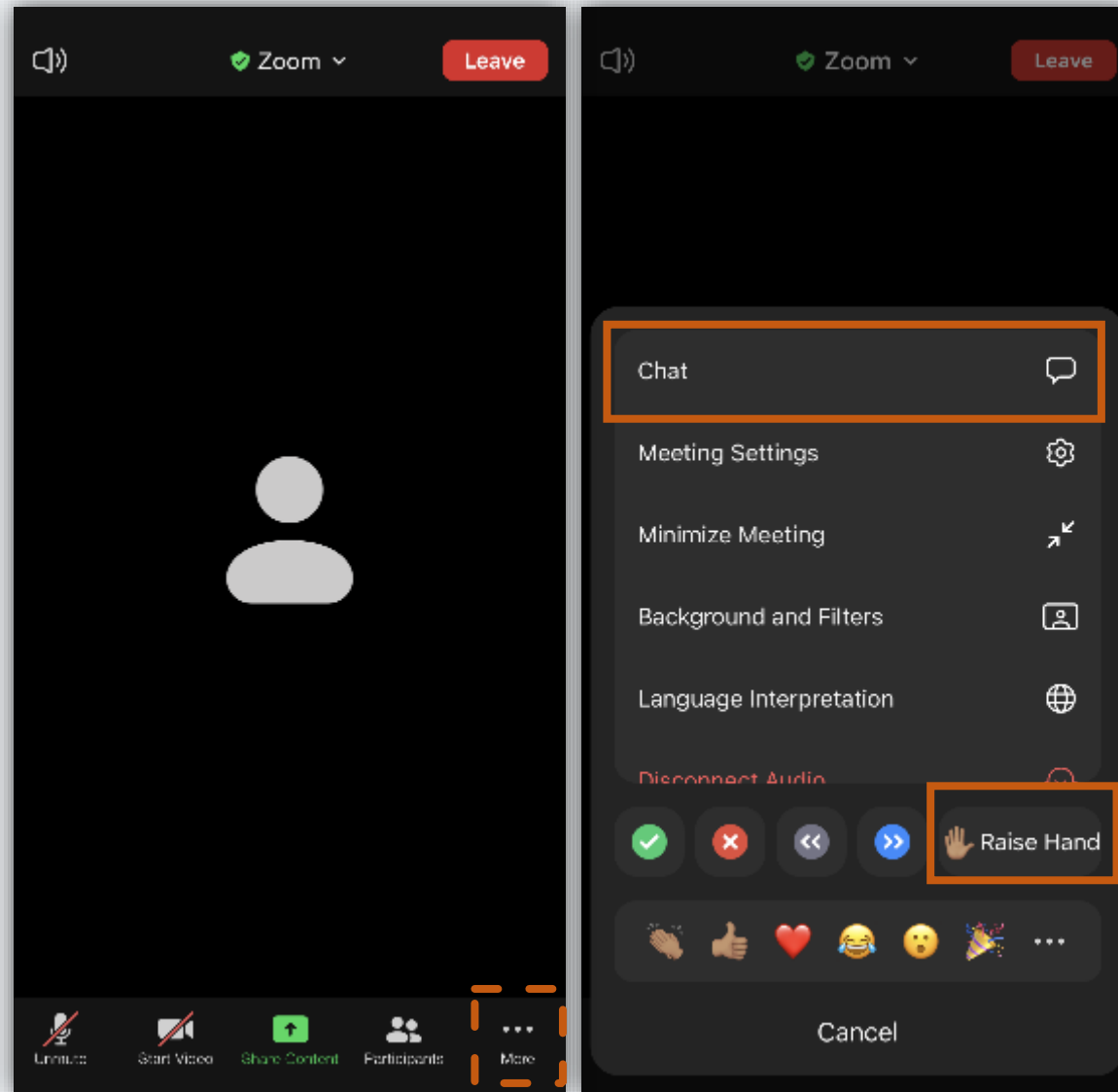
How to use Zoom // *Cómo Usar Zoom*



During the discussion, if you would like to speak over the audio, please raise your hand (otherwise questions and comments can be submitted through the Chat window)

Durante el debate, si desea participar de manera oral, por favor, levante la mano (de lo contrario, las preguntas y comentarios pueden presentarse a través de la ventana de Chat)

On your Phone // *En su teléfono móvil*





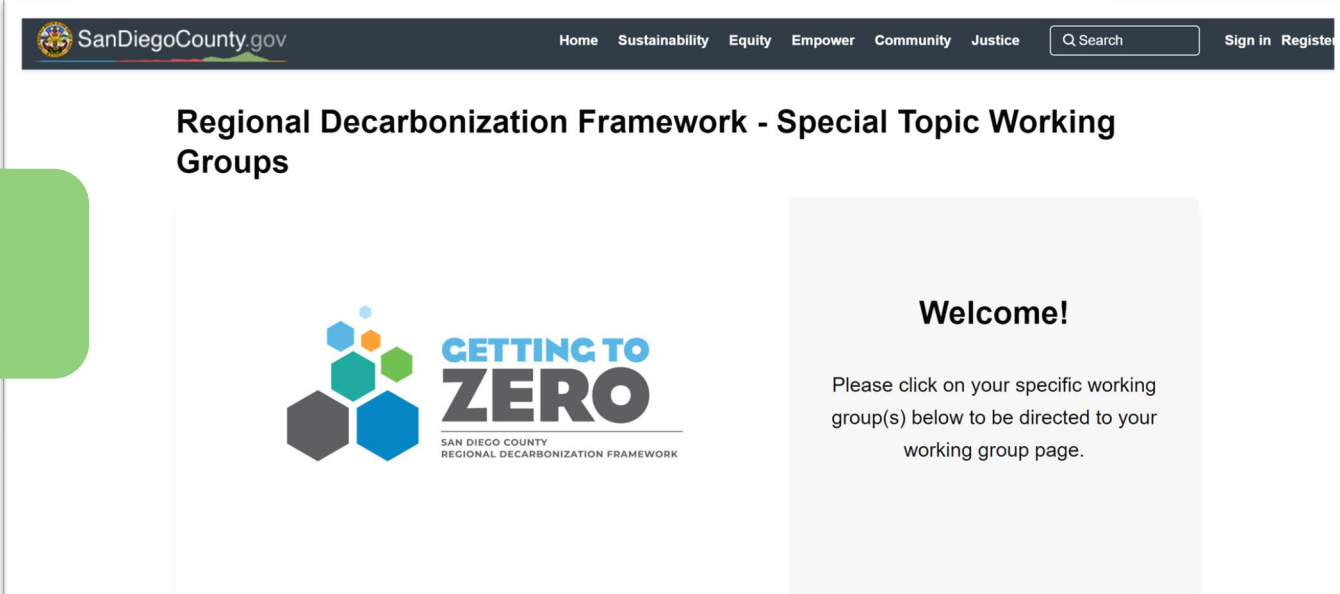
Role of Working Groups



Engagement Portal

- Special Topic Working Group Engagement Portal:
<https://engage.sandiegocounty.gov/hub-page/working-groups>
 - Central area where all workshop materials, agendas, recordings, notes etc. will be stored.
 - Can also access the working group portal through the RDF engagement site
- Only have access to working groups that you have shown interest in via interest form

Questions/Concerns email us at:
ZeroCarbon@sdcounty.ca.gov



The screenshot shows the San Diego County website header with navigation links: Home, Sustainability, Equity, Empower, Community, Justice, a search bar, and Sign in / Register. The main heading is "Regional Decarbonization Framework - Special Topic Working Groups". Below this is the "GETTING TO ZERO" logo, which includes a cluster of colorful hexagons and the text "SAN DIEGO COUNTY REGIONAL DECARBONIZATION FRAMEWORK". To the right, a "Welcome!" message reads: "Please click on your specific working group(s) below to be directed to your working group page."

Today's Agenda

- Introduction to the Implementation Playbook (10 minutes)
- Buildings (90 minutes)
 - Regional Emissions (5 minutes)
 - Preserve Carbon Stock Introduction (5 minutes) and Discussion (20 minutes)
 - Increase Carbon Removal and Storage Introduction (5 minutes) and Discussion (20 minutes)
 - Open Discussion on Land Use and Natural Climate Solutions **Not** Discussed (10 minutes)
- Closing (5 minutes)

Integrated Regional Decarbonization Framework



Technical Report led by
UC San Diego and USD

Completed
August 2022



Workforce Development
Study by Inclusive
Economics

Completed
August 2022



Implementation
Playbook

Draft December 2022
Final by Spring 2023

www.sandiegocounty.gov/RDF

Implementation Playbook

All measures in Climate Action Plans

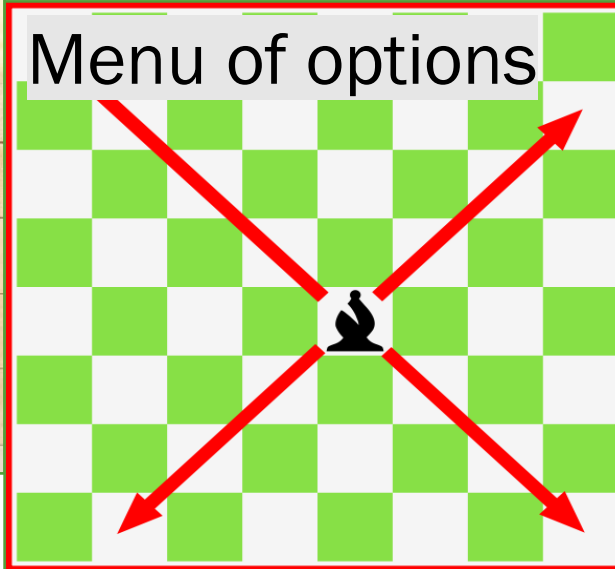
Best in class for
each topic

Voluntary

Menu of options

Accessible

Public or private
organizations



Implementation Playbook: Level of Approach



**Organizational
Operations**



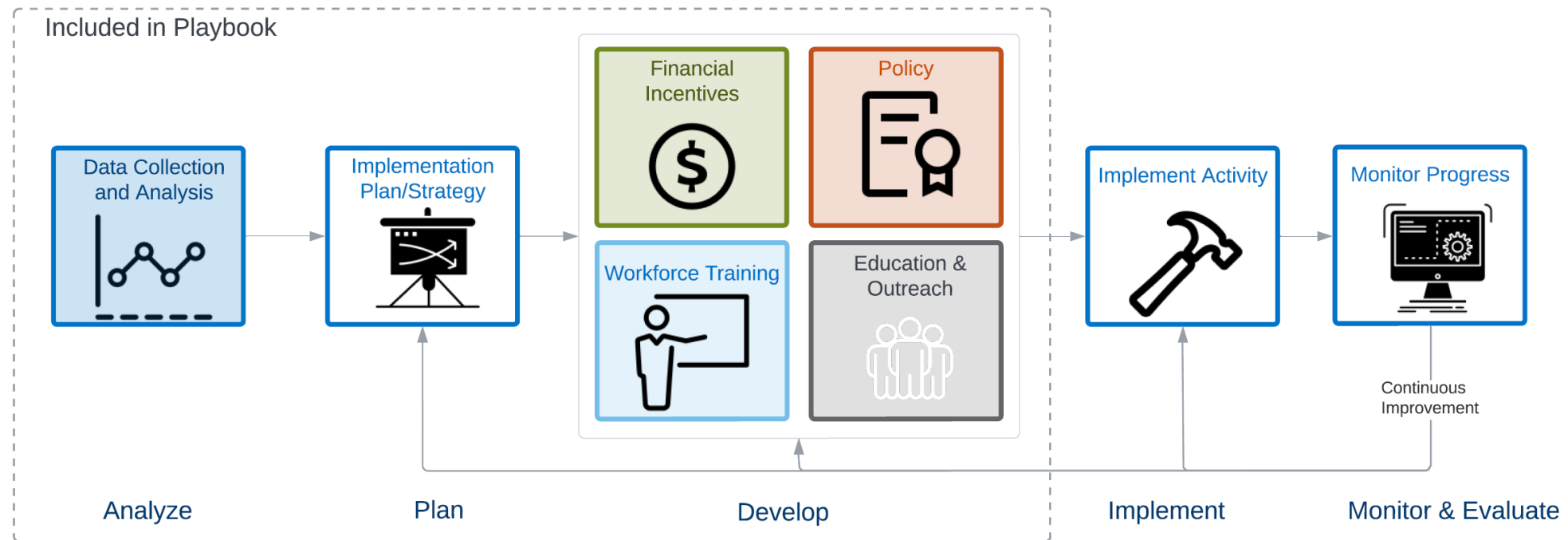
Community



Region

What we are looking for today:

1. In your experience what has worked or not worked in terms of existing policies?
2. What programs could benefit underserved communities or have adverse impacts?
3. What are solutions that are not in the data base?





Land Use and Natural Climate Solutions

Regional GHG Emissions – Main Sources

On-Road
Transportation



48%

Electricity



20%

Natural Gas



12%

80%

of total GHG emissions
in the San Diego region

Regional GHG Emissions – Other Sources

Industrial Gases



8%

Other Fuels
(e.g., wood, propane)



4%

Off-Road
Transportation



4%

Solid Waste



2%

Water, Aviation, Rail, Wastewater,
Agriculture, Marine Vessels, Fertilizers

1% or less each

Land Use and Natural Climate Solutions – GHG Reductions/Impacts



Preserve Carbon Stock – *seeks to prevent carbon stored in trees, plants, and soils from entering the atmosphere*

- Open space easements



Increase **Natural Carbon Removal and Storage** – *removes carbon already present in the atmosphere*

- Urban tree planting
- Habitat restoration projects

Preserve Carbon Stocks – Laws and Programs

State Laws and Regulations

- Senate Bill 27
 - Codified Natural and Working Lands Climate Smart Strategy
 - Requires carbon removal target that includes natural and working lands for 2030 and after
 - Requires creation of registry for GHG reduction or removal on natural and working lands
- Natural and Working Lands (NWL) Climate Smart Strategy
 - Reduce carbon emissions from NWL, increase carbon storage, and preserve, conserve, and restore
- Executive Order N-82-20
 - Conserve 30% of land and coastal waterways by 2030 (30x30)



Preserve Carbon Stocks – Other Key Considerations

Carbon value in existing natural lands

🗨️ Natural and working lands are a net GHG emitter

Fire and drought are significant threat to existing carbon stocks in California

Many landowners in the San Diego region

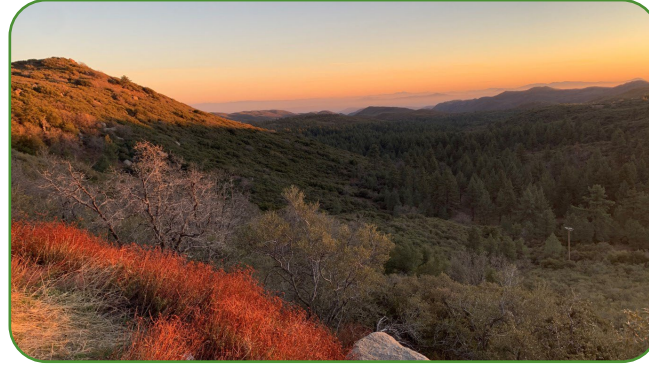
- Federal government (e.g., forestland), military, tribes, etc.

Preserve Carbon Stocks – Example Actions



Organization

- Develop a tree management program to reduce tree mortality



Community

- Conduct a communitywide analysis of land that could be conserved
- Develop a program to acquire open space conservation land



Region

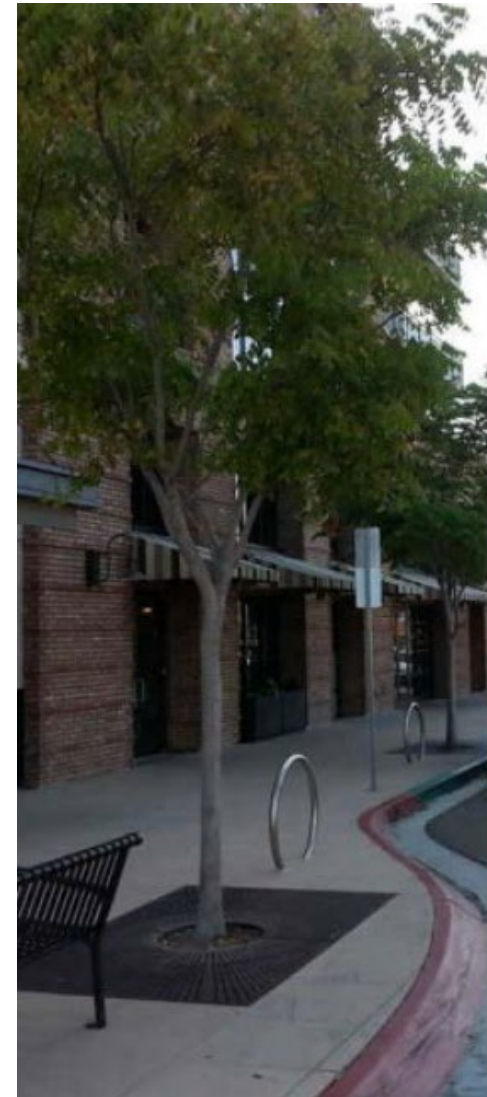
- Conduct a regionwide analysis of land that could be conserved
- Create a partnership of non-profits, agencies, and local governments to identify and pursue funding opportunities for land acquisition and management

Preserve Carbon Stocks Discussion

Carbon Removal and Storage – Laws and Programs

State Requirements

- 2022 Draft Scoping Plans calls for major actions to both capture at source (a.k.a. carbon capture and storage, or CCS) and removal (a.k.a. carbon dioxide removal, or CDR)
- Senate Bill 905 (2022)
 - Would require CARB to create a Carbon Capture, Removal, Utilization, and Storage Program to evaluate the efficacy, safety, and viability of strategies to capture, remove, and store carbon
 - CARB would then create regulations and Statewide permitting system for these projects
- Senate Bill 27
 - Codified Natural and Working Lands Climate Smart Strategy
 - Requires carbon removal target that includes natural and working lands for 2030 and after
 - Requires creation of registry for GHG reduction or removal on natural and working lands



Carbon Removal and Storage – Other Key Considerations

Actions needed to enhance or expand existing natural carbon systems

- Plant more trees, ideally native or non-native, non-invasive drought-tolerant species
- Restore wetlands and other disturbed, marginal, and invaded lands



 Limited forests in San Diego region

Water use implications of trees

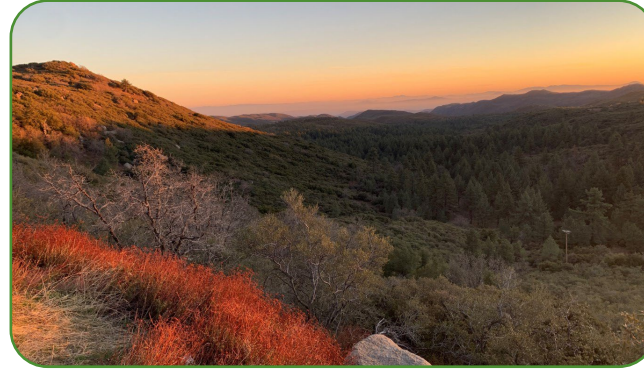
Drought, fire, invasive insects are threat to tree planting strategies

Carbon Removal and Storage – Example Actions



Organization

- Plant **location appropriate** trees at facilities and sites



Community

- Develop an urban forest management plan
- Plant trees in public rights of way



Region

- Conduct a regional tree cover analysis, including **analysis of** social equity implications
- Conduct a regional analysis to determine **natural and working lands'** carbon removal and storage potential

Carbon Removal and Storage Discussion

Open Discussion – Land Use and Natural Climate Solutions



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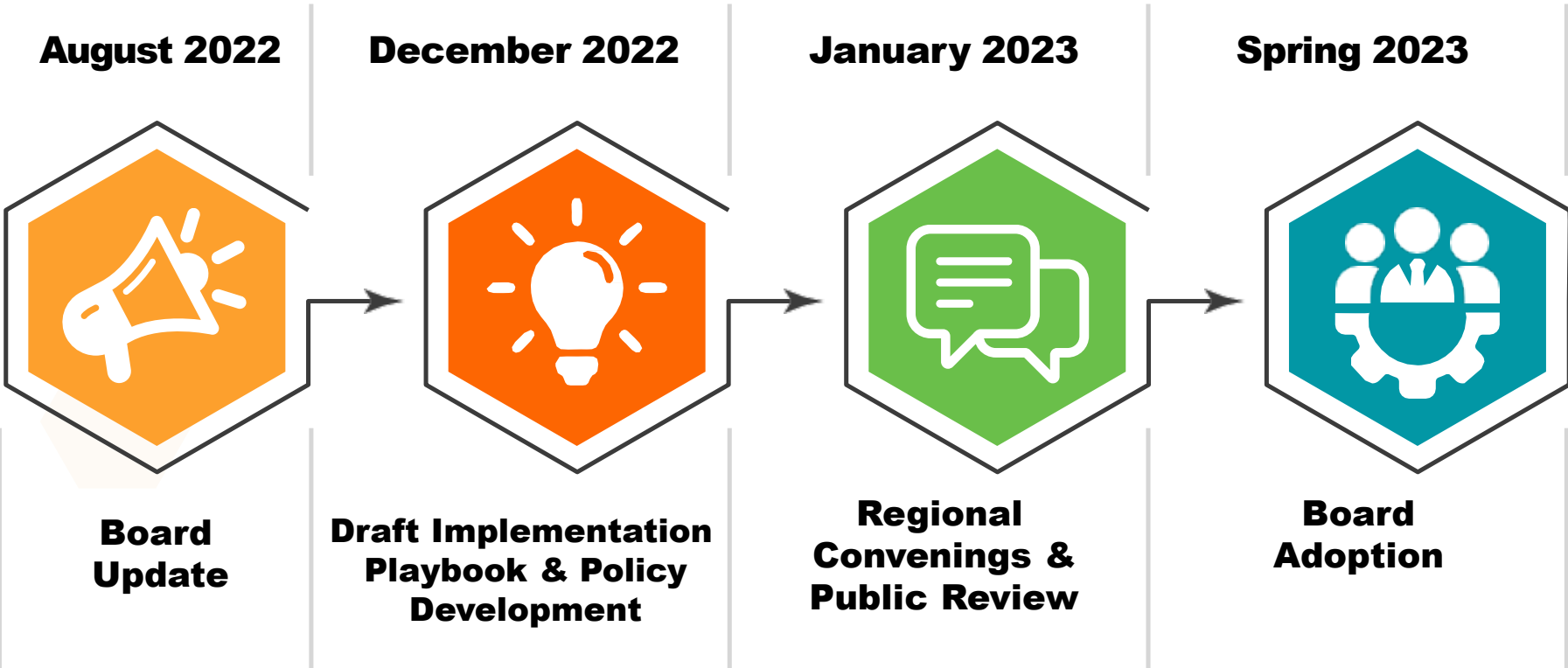
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REGIONAL DECARBONIZATION FRAMEWORK

Land Use and Natural Climate Solutions Working Group

October 4, 2022

Additional Slides for Q + A

Timeline



**PROGRAM
DETAILS**

Public Workshop

Completion of Technical Report & Workforce Development Reports

Special Topic Working Groups

Implementation Playbook Draft Released

Draft Sustainable Agriculture & Food Systems Policy Report

Implementation Playbook Final Released

Implementation Playbook & Framework Adoption

Public Outreach: Fall 2022 - Spring 2023

Special Topic Working Groups



Sept – Nov 2022

Electricity
Buildings
Transportation
Land Use & Natural
Solutions
Food Systems & Circular
Economy

Regional Social Equity Working Group



Sept 2022 and
Onwards

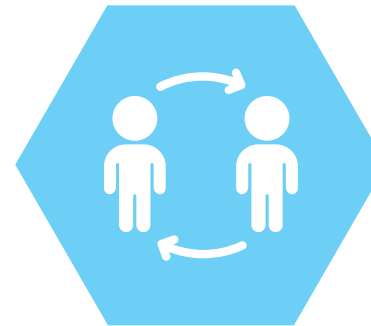
Social Equity Guidance

Public Workshops



Oct 2022
Dec 2022
Feb 2023

Regional Convenings by Supervisorial District



Jan – Feb 2023

5 supervisorial
districts

Technical Working Group



Ongoing

Experts in relevant
fields as-needed

Implementation Playbook: Examples



Buildings

- Better use of energy in existing buildings

Electricity

- Educate residents & businesses about 100% renewable energy options

Food Systems & Circular Economy

- Bulk purchase of food
- Waste diversion from landfills

Land Use & Natural Climate Solutions

- Green streets

Transportation

- Retire polluting vehicles

Regional Actions: Examples



Solar electricity for
low-income renters



Model building code
for electrification



Regional program for
suitable tree planting
locations