



County of San Diego



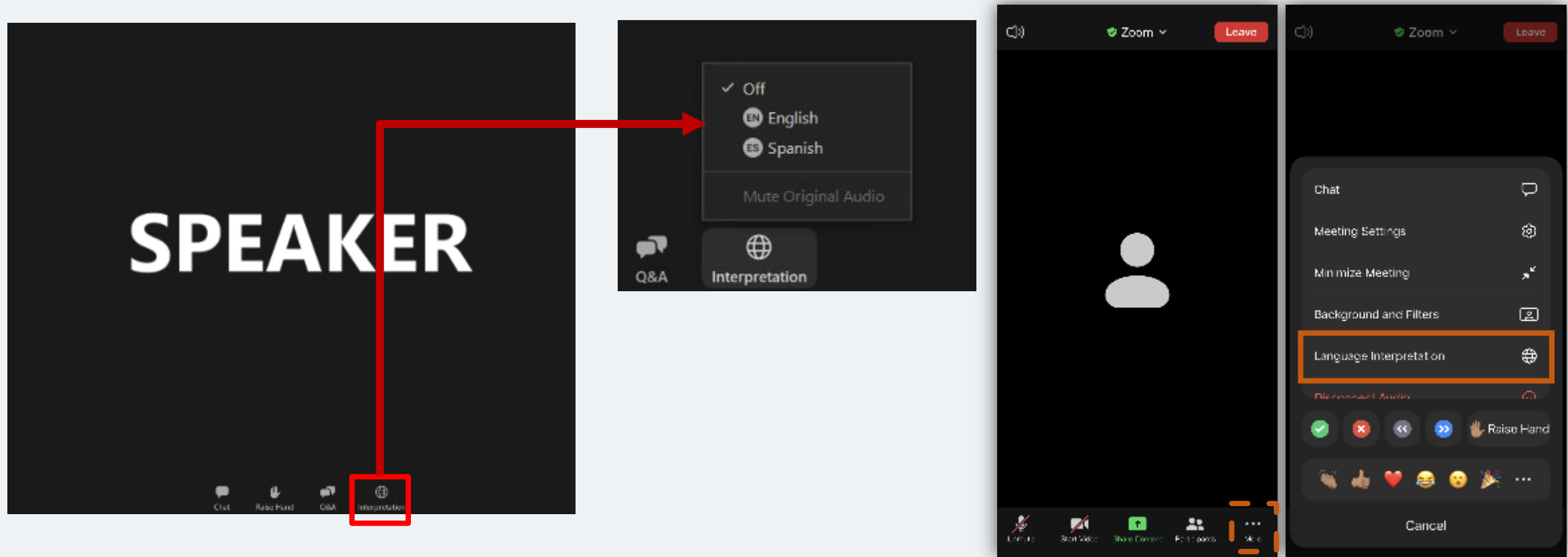
GETTING TO
ZERO

SAN DIEGO COUNTY
REGIONAL DECARBONIZATION FRAMEWORK

Transportation Working Group

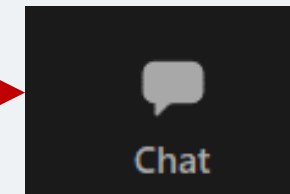
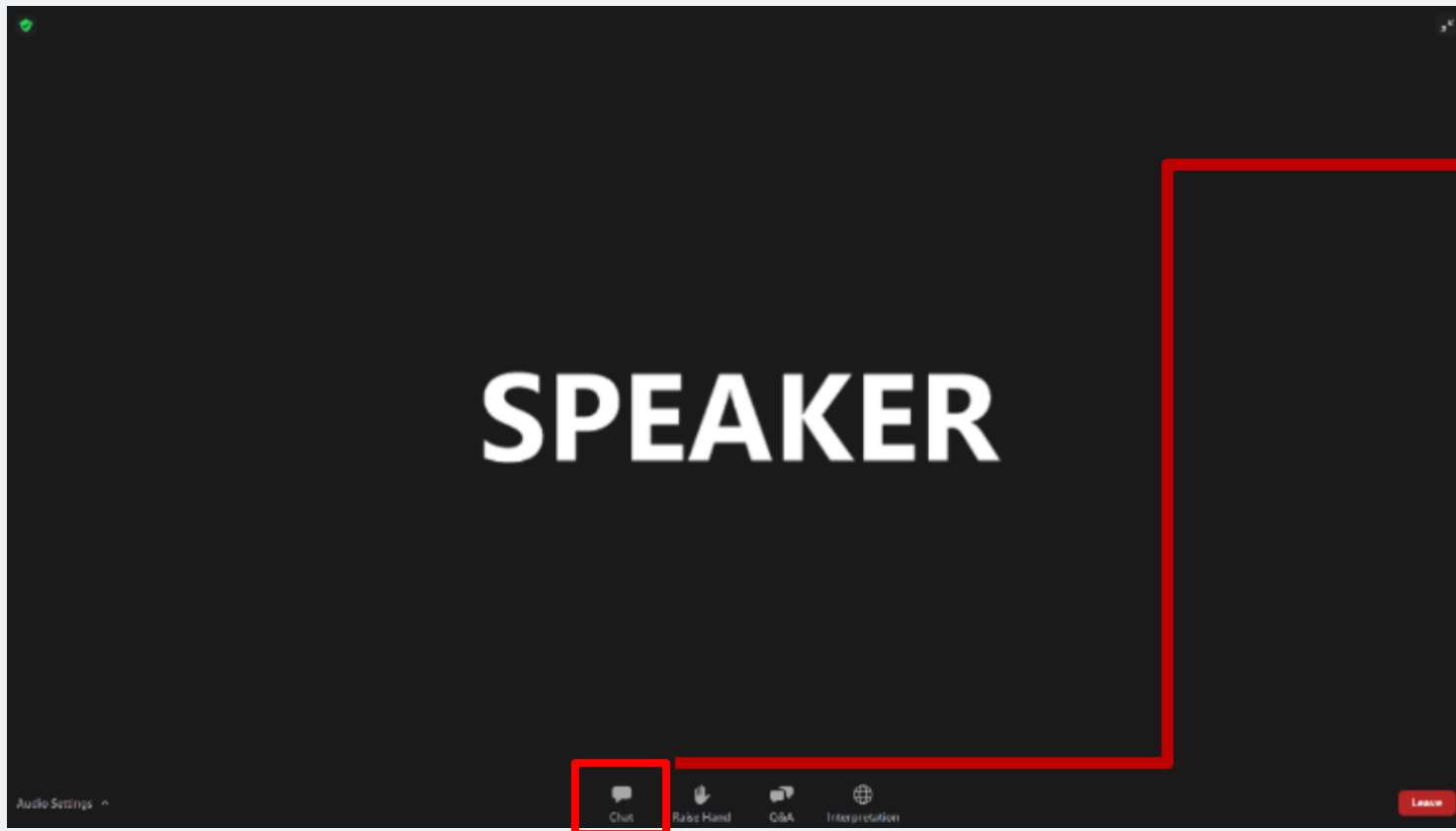
September 27, 2022

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)

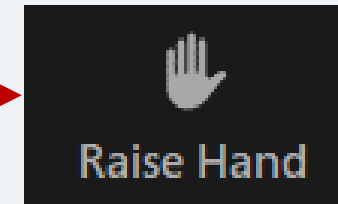
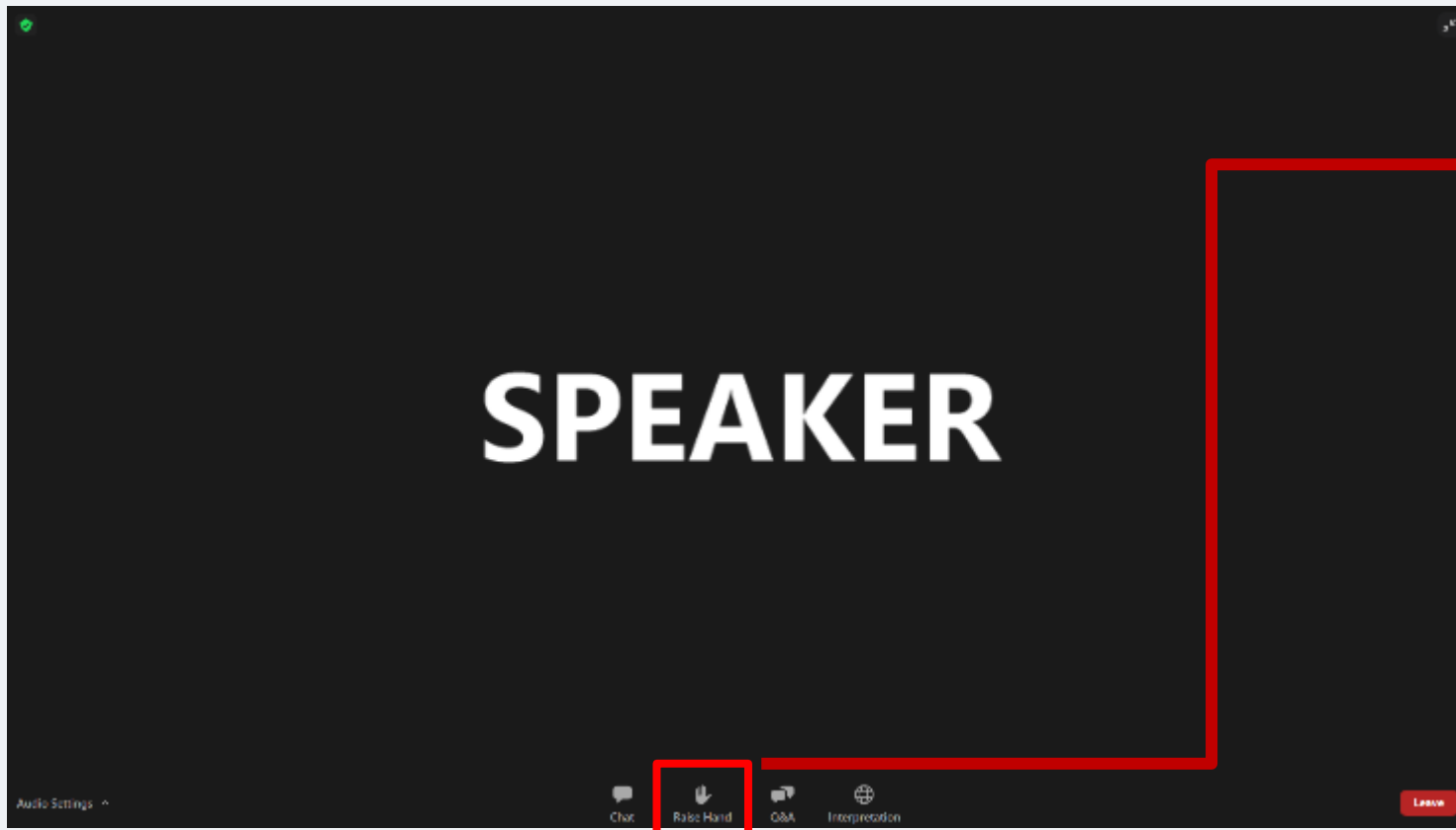
How to use Zoom // *Cómo Usar Zoom*



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.

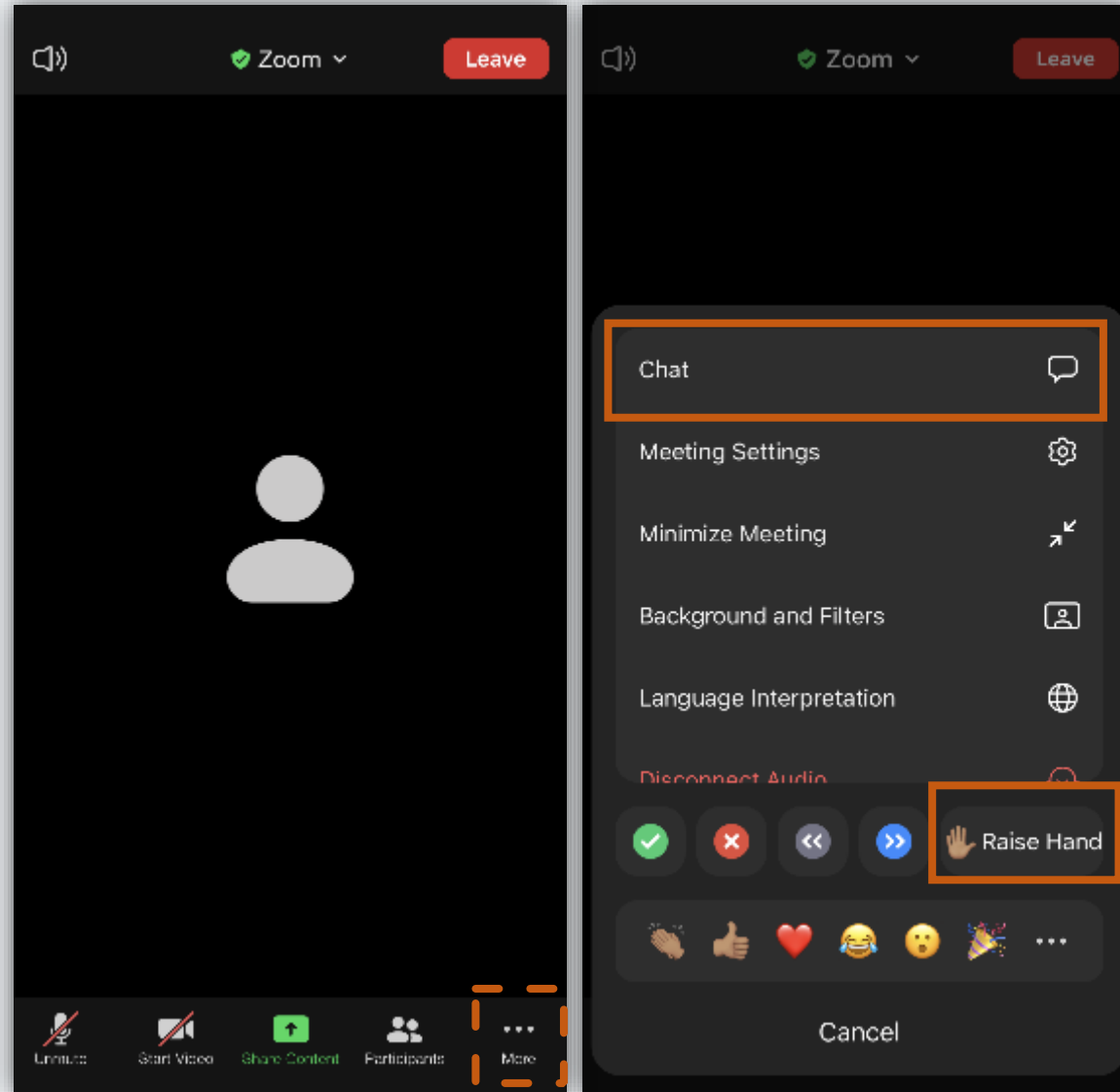
How to use Zoom // *Cómo Usar Zoom*



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



BUILDINGS



ELECTRICITY



**FOOD SYSTEMS &
CIRCULAR ECONOMY**



**LAND USE & NATURAL
CLIMATE SOLUTIONS**

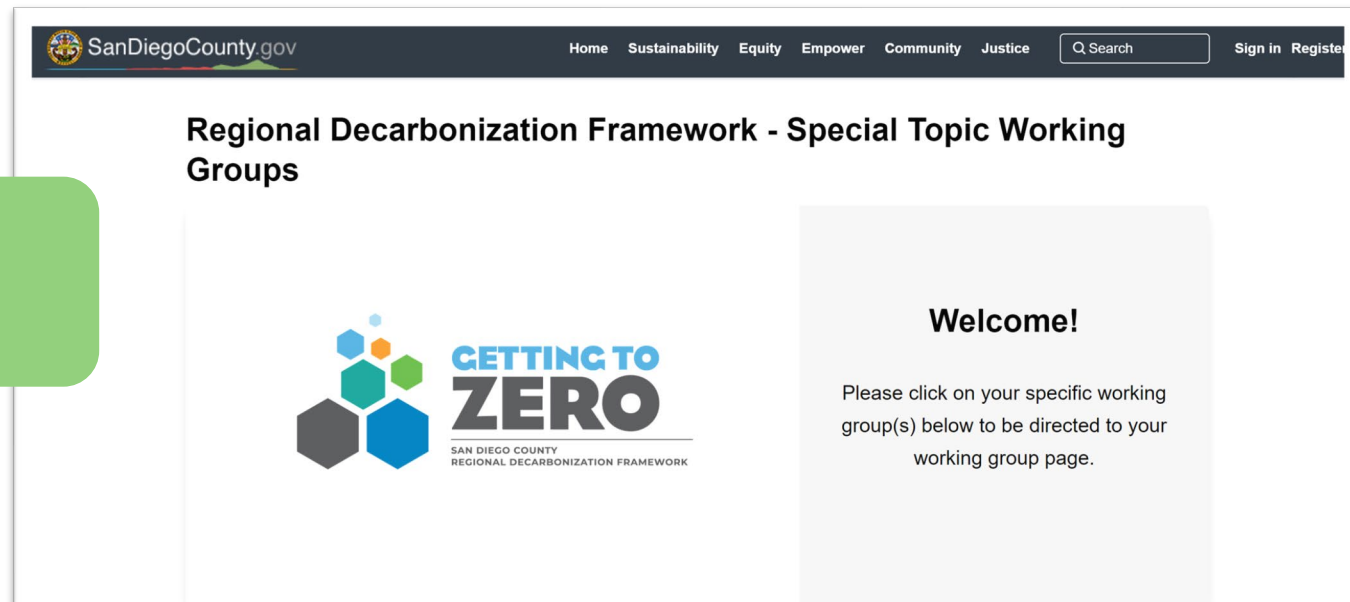


TRANSPORTATION

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



Today's Agenda

- Introduction to the Implementation Playbook (10 minutes)
- Transportation (90 minutes)
 - Regional Emissions (5 minutes)
 - Reduce Miles Driven Introduction (5 minutes) and Discussion (20 minutes)
 - Reduce Fuel Use Introduction (5 minutes) and Discussion (20 minutes)
 - Clean Fuels Introduction (5 minutes) and Discussion (20 minutes)
 - Open Discussion on Transportation **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

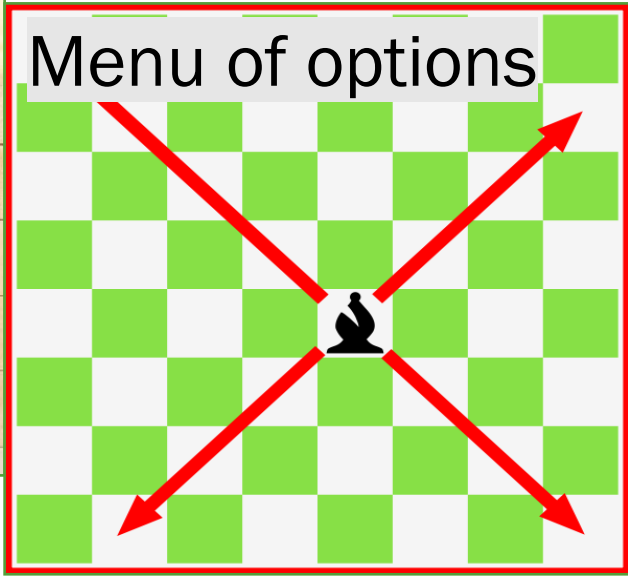
Best in class for each topic

Voluntary

Menu of options

Accessible

Public or private organizations



Implementation Playbook: Level of Approach



Organizational
Operations



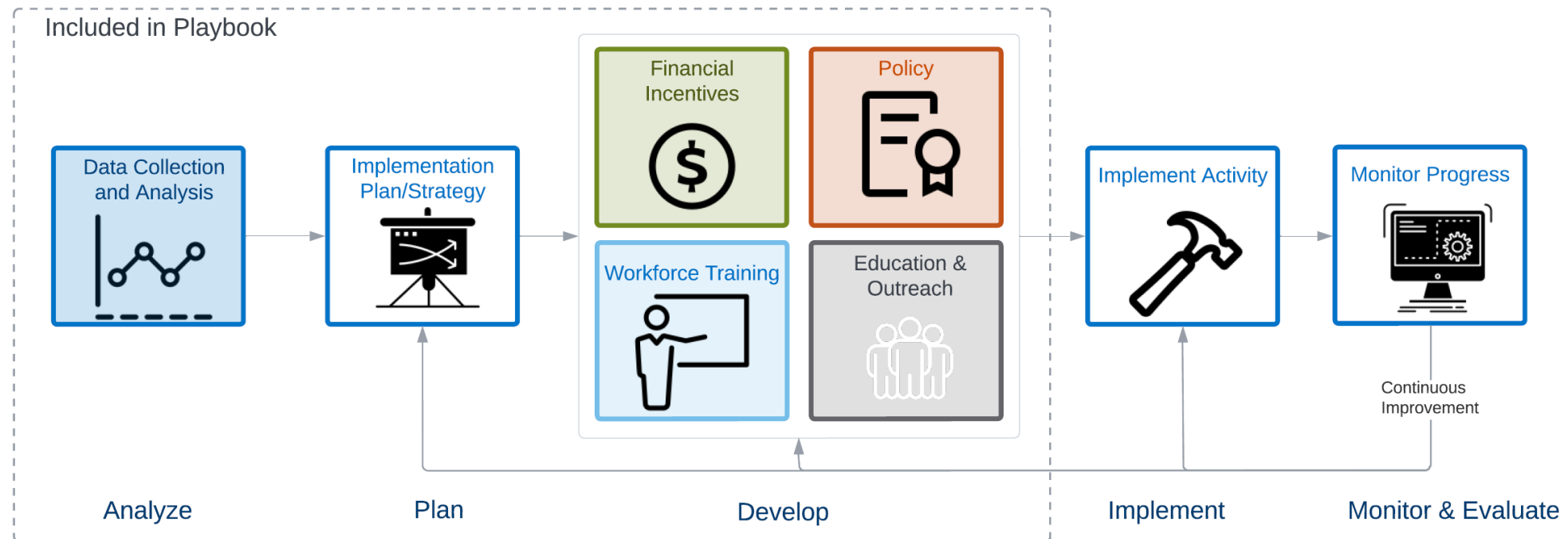
Community



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?





TRANSPORTATION

Transportation

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

Transportation – GHG Reductions



Reduce Miles Driven

- Walk, Bike, Transit
- Telecommuting
- Carpooling



Reduce Fuel Use

- Fuel efficient vehicles
- Roundabouts
- Traffic signal synchronization



Clean Fuels

- Electric vehicles
- Hydrogen

Reduce Miles Driven – Laws and Programs

Major State Law/Regulation

- SB 743
 - Requires Vehicle Miles Travelled (VMT) and GHG emission measurement and mitigation for new development
- Complete Street Plans in Circulation Element revisions

Regional Action

- SB 745
 - Requires creation of sustainable communities strategy (SCS) to achieve regional GHG reduction targets that allows for CEQA streamlining



Reduce Miles Driven– Other Key Considerations

Transportation system is inherently regional

Amount of miles driven is heavily influenced by land use patterns

Trade off between reducing miles driven and low-carbon fuels

Equity implications of mobility options

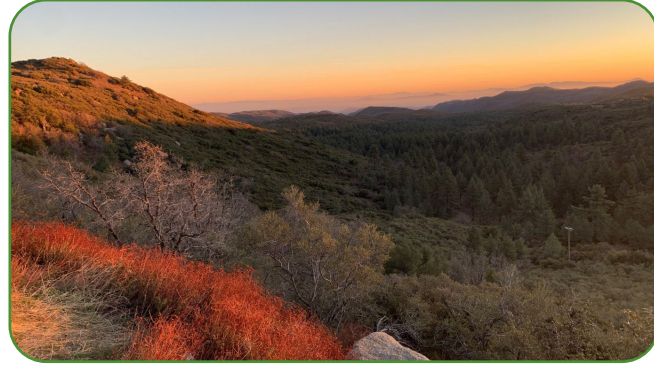
- Transportation cost burden

Reduce Miles Driven– Example Actions



Organization

- Adopt a remote work policy for employees
- Provide incentives for employees to use alternative modes of transportation



Community

- Develop an active transportation plan
- Expand bikeway network



Region

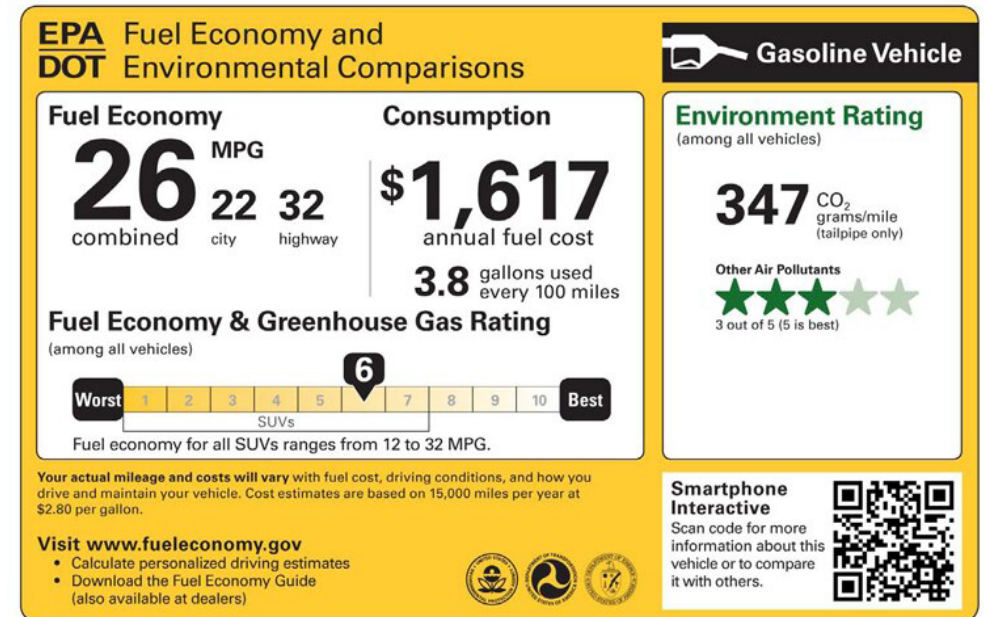
- Complete regional transportation equity analysis
- Increase transit service frequency in urban/dense areas

Reduce Miles Driven Discussion

Reduce Fuel Use – Laws and Programs

Federal

- Corporate Average Fuel Economy (CAFE) Standards
 - Fuel economy of cars and light trucks



Reduce Fuel Use– Other Key Considerations

Vehicle efficiency and transportation system efficiency

Regional coordination can improve efficiency

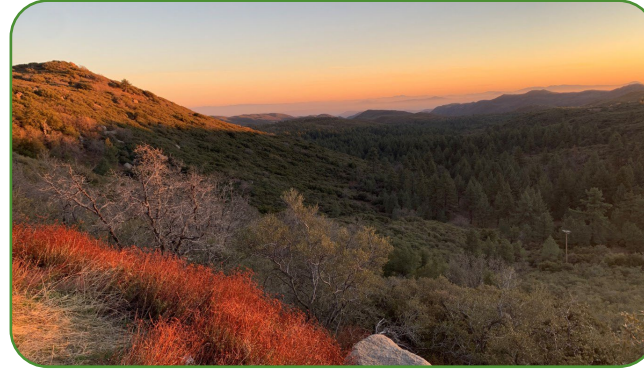
- Traffic signal synchronization across jurisdictional boundaries
- Roads do not stop at city/county borders

Reduce Fuel Use– Example Actions



Organization

- Purchase fuel efficient vehicles
- Modify fleet operations to increase fuel efficiency



Community

- Conduct traffic study
- Install roundabouts
- Synchronize traffic signals



Region

- Complete a regional analysis of traffic calming measures to optimize project timing and location

Reduce Fuel Use Discussion

Clean Fuels– Laws and Programs

Federal

- Inflation Reduction Act
 - Federal Tax Credits for ZEV infrastructure, decarbonized fuels (e.g., hydrogen), etc.

State

- Clean Car II Regulation
 - 100% new light-duty ZEV sales by 2035
- Advanced Clean Trucks/Advanced Clean Fleets Regulation
 - Increase medium- and heavy-duty ZEV with targets in 2035 and total 100% ZEV by 2045
- Low Carbon Fuel Standard (LCFS)
 - 20% reduction in carbon intensity of transportation fuels by 2030

Region

- Accelerate to Zero (A2Z) Emissions
- CALeVIP San Diego County Incentive Project



Clean Fuels– Other Key Considerations

Rising percentage of electric vehicles (EVs)

- More EVs will increase electric consumption

Still limited public electric vehicle charging network

Medium- and heavy-duty vehicles harder to electrify

Few hydrogen fueling stations

Cost and energy implications of low carbon fuels (e.g. hydrogen)

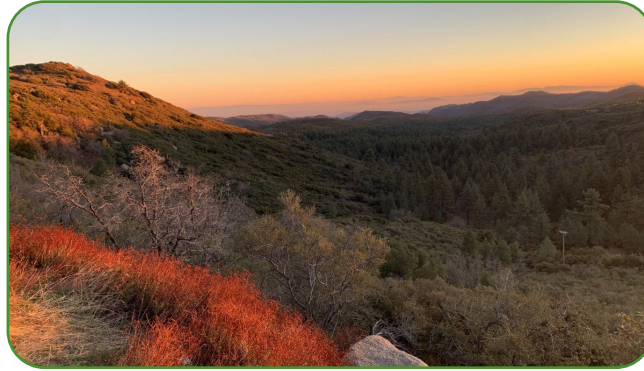
Equity implications

Clean Fuels– Example Actions



Organization

- Fleet purchasing policy for low- and zero-emissions vehicles
- Install electric vehicle (EV) charging infrastructure at facilities



Community

- Require EV chargers in new multi-family projects
- Provide EV expert or consumer advocate for residents and businesses



Region

- Regional EV vehicle and charger program
- Regional analyses related to equity, air quality impacts, etc.

Clean Fuels Discussion

Open Discussion – Transportation



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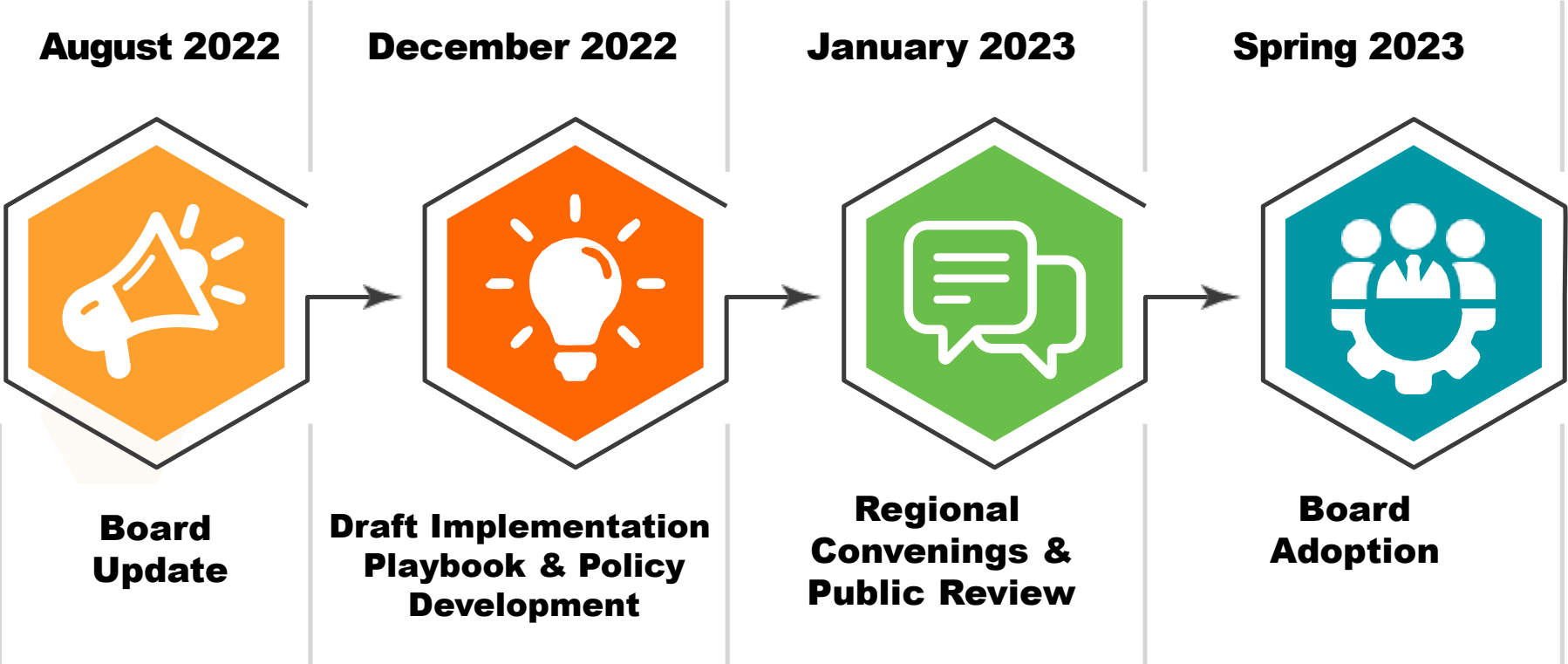
SAN DIEGO COUNTY
REGIONAL DECARBONIZATION FRAMEWORK

Transportation Working Group

September 27, 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

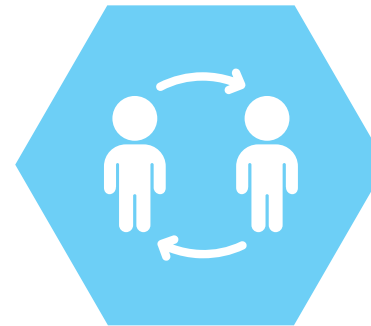
Social Equity Guidance

Public Workshops



Oct 2022
Dec 2022
Feb 2023

Regional Convenings by Supervisorial District



Jan – Feb 2023

5 supervisorial
districts

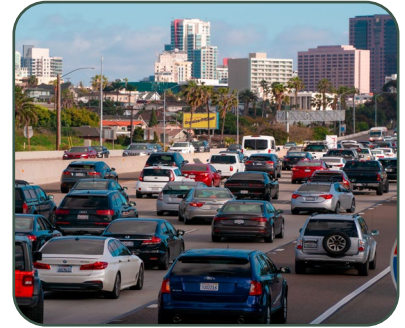
Technical Working Group



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