



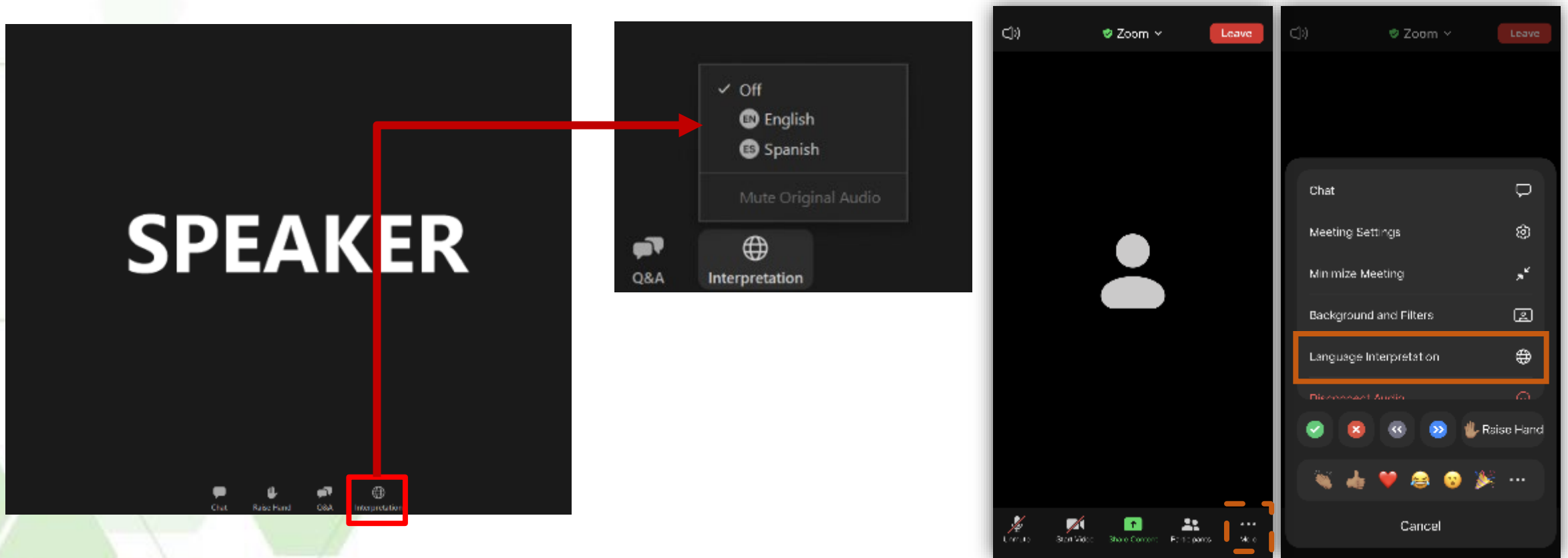
GETTING TO ZERO

SAN DIEGO COUNTY REGIONAL DECARBONIZATION FRAMEWORK

Murtaza Baxamusa PhD, AICP
Rebeca Appel
Land Use & Environment Group

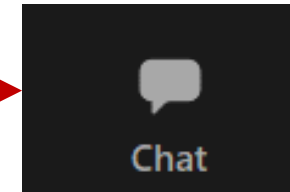
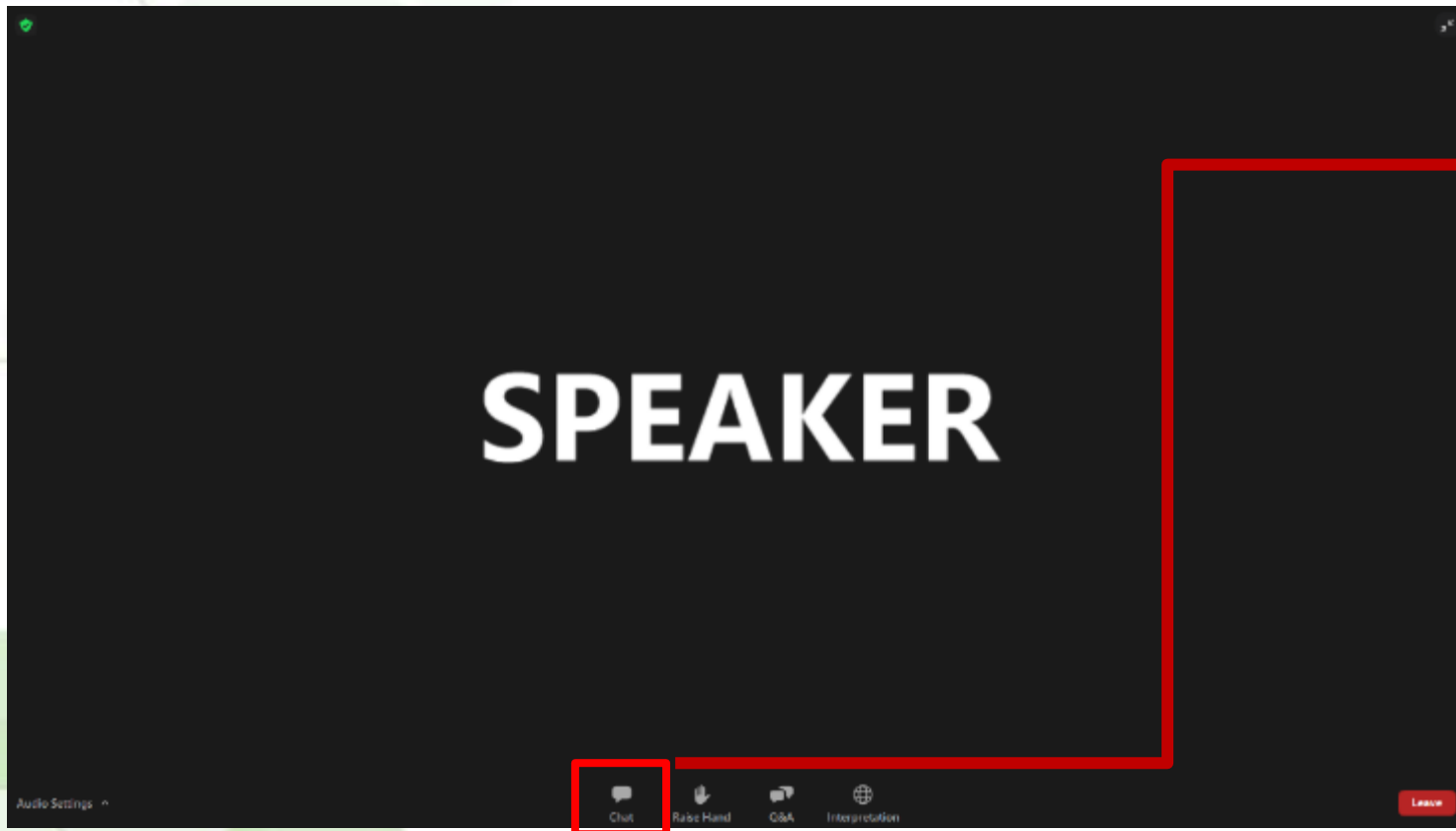
Public Workshop
July 26, 2022

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)

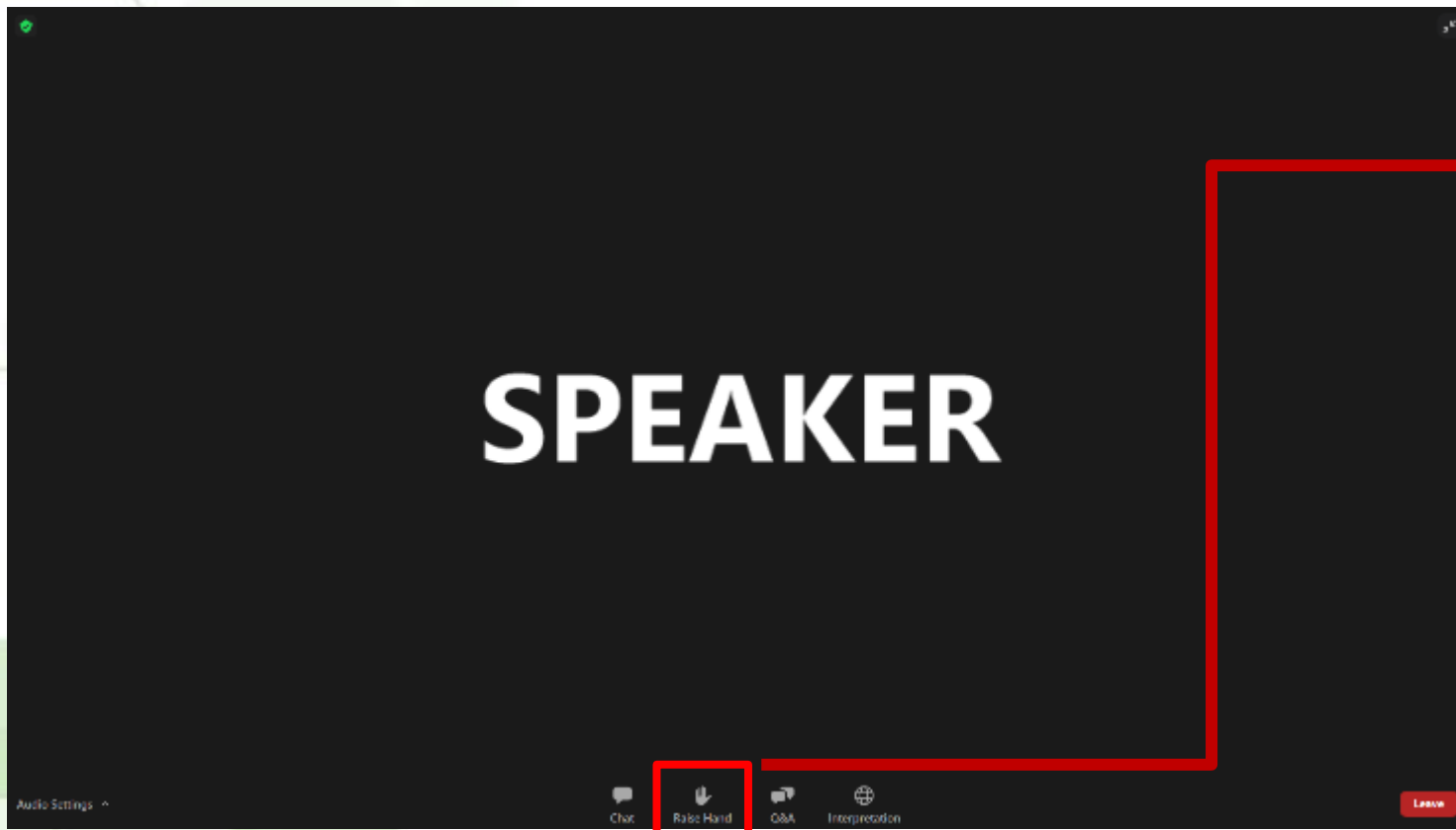
How to use Zoom // *Cómo Usar Zoom*



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.

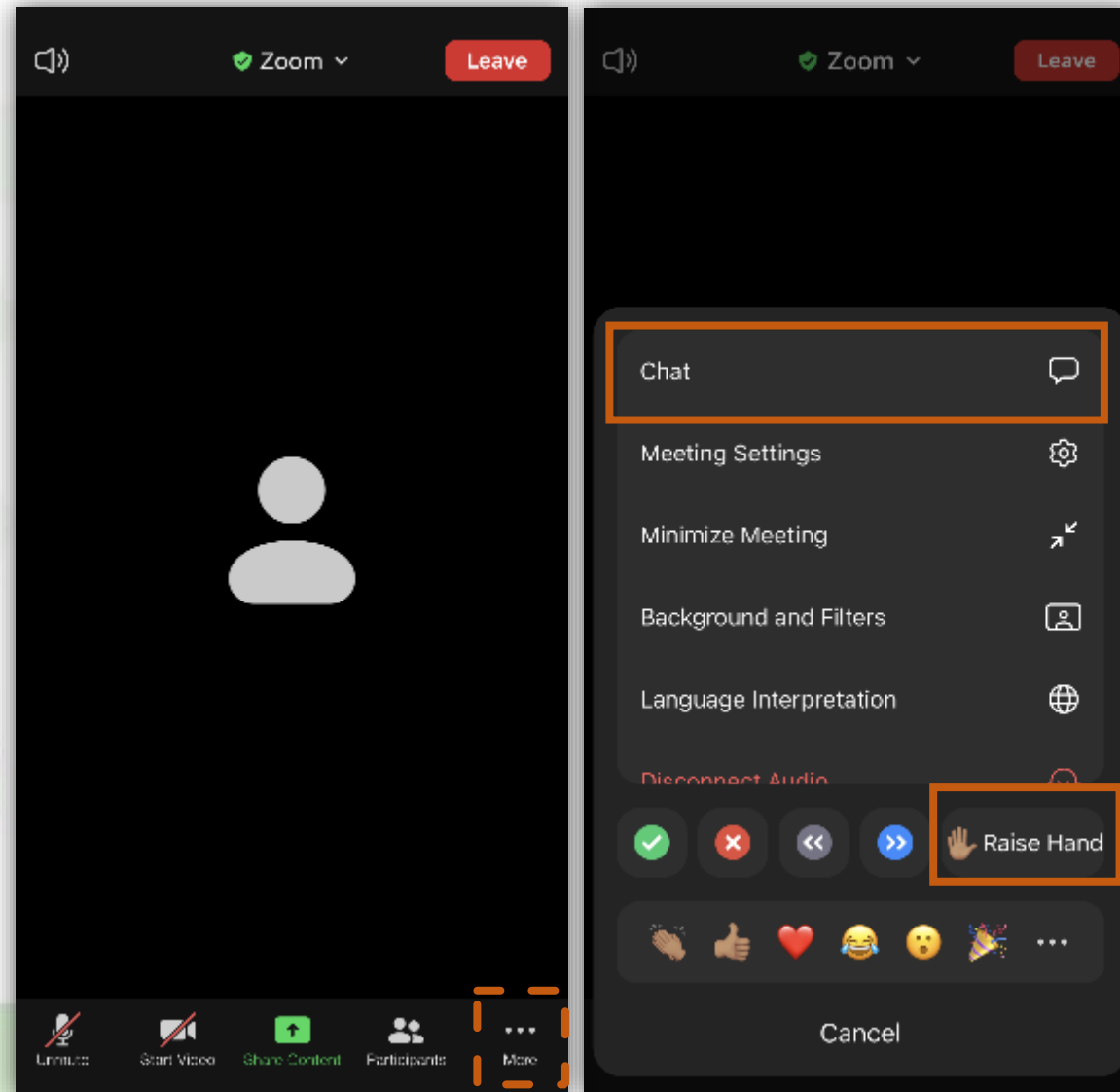
How to use Zoom // *Cómo Usar Zoom*



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*





GETTING TO ZERO

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REGIONAL DECARBONIZATION FRAMEWORK



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Three Guiding Principles

1
DATA-DRIVEN
APPROACH

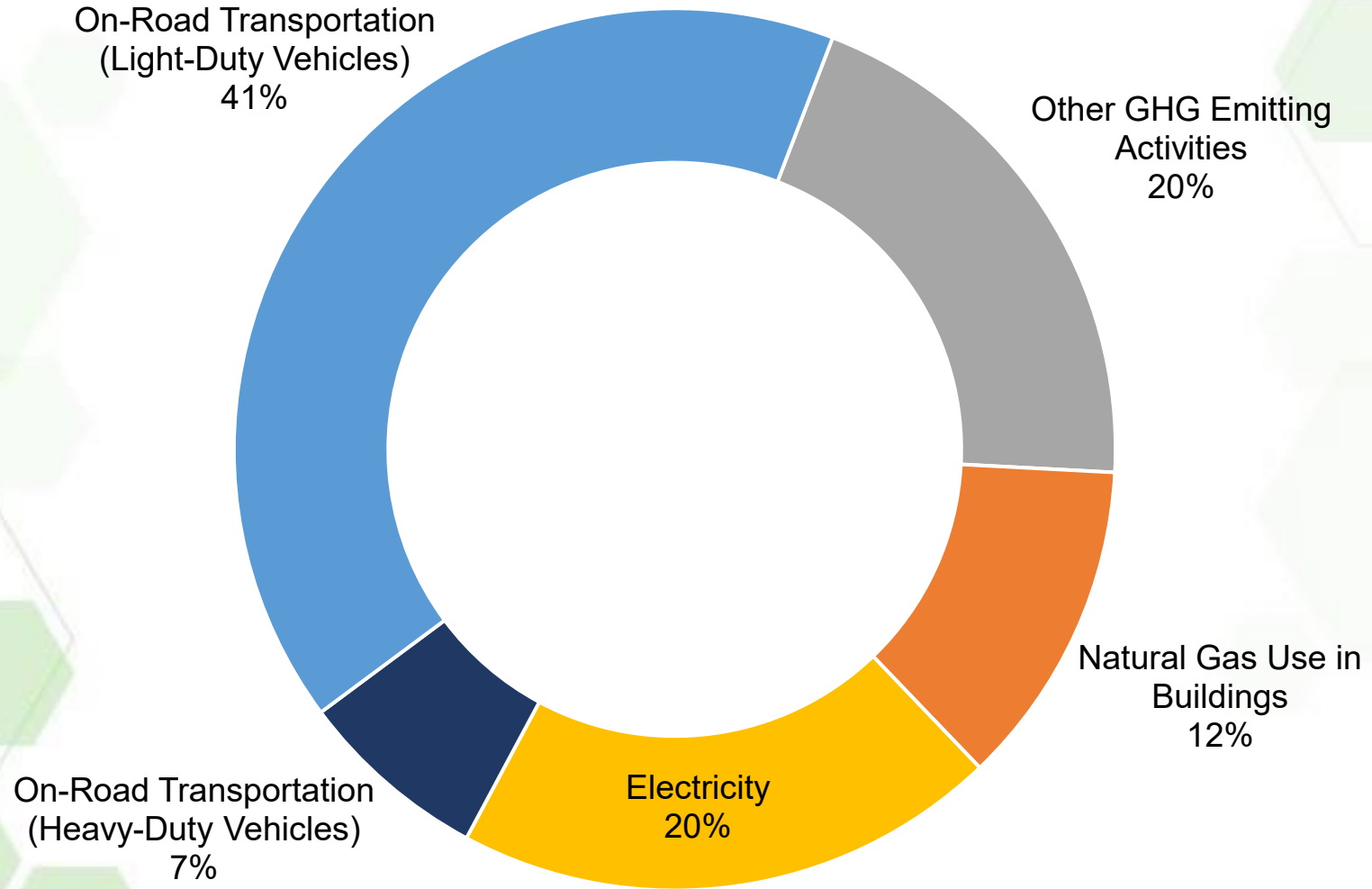
2
COMMUNITY
OUTREACH

3
REGIONAL
COLLABORATION



Regional Emissions of Greenhouse Gases

Measured in Carbon Dioxide Equivalent



Source: Based on RDF Technical Report's Figure 8.13; data from SANDAG 2021 Regional Plan, Appendix X.

Integrated Regional Decarbonization Framework



Technical Report



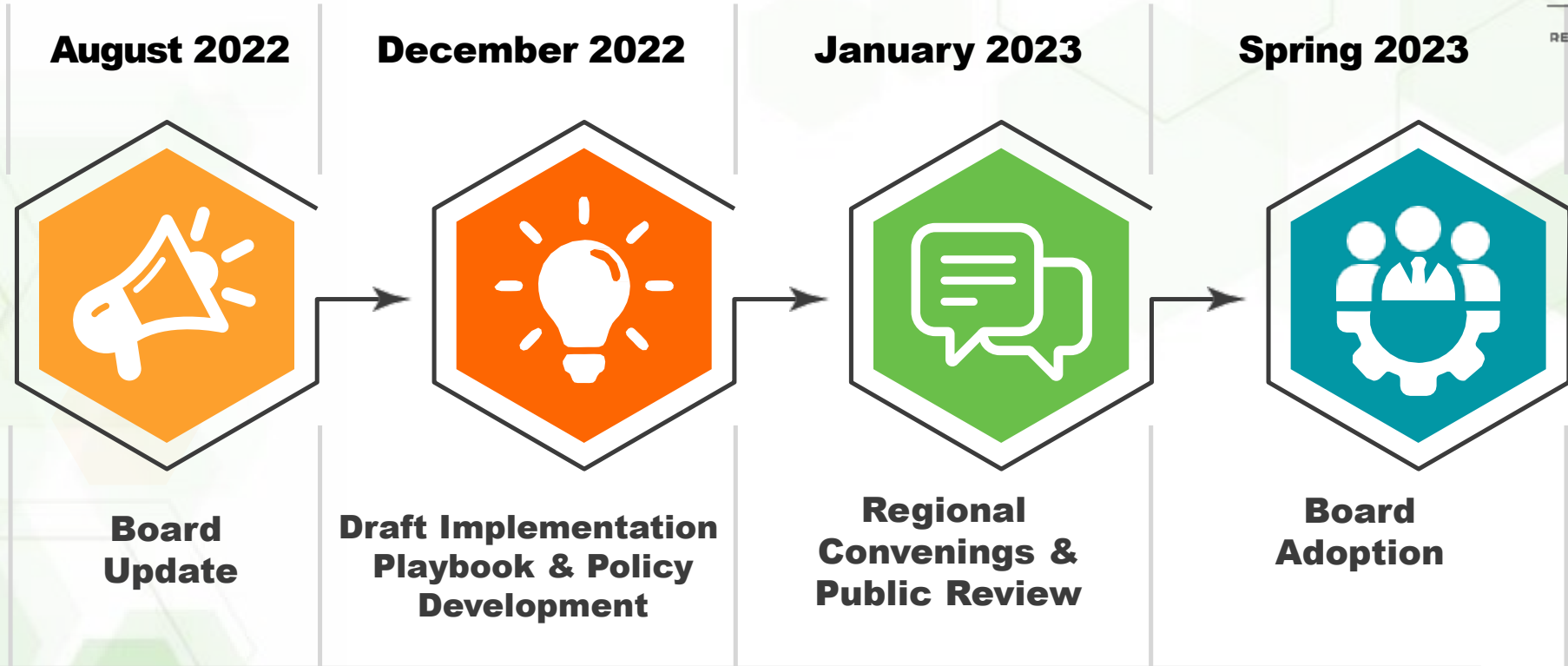
Workforce Development Study



Implementation Playbook

← The components of the Integrated Regional Decarbonization Framework →

Timeline



**PROGRAM
DETAILS**

Public Workshop
Completion of Technical Report & Workforce Development Reports

Sectoral Working Groups
Implementation Playbook 1st Draft Released

Draft Sustainable Agriculture & Food Systems Report

Implementation Playbook 2nd Draft Released

Implementation Playbook & Framework Adoption

Public Outreach Plan

Technical Working Group



Ongoing

Will serve in an advisory role to the project team

Social Equity Working Group



Ongoing

Intended to advise across all sectors and communities across the region

Public Workshops



September 2022, December 2022, & January 2023

These will occur during key milestones for the project

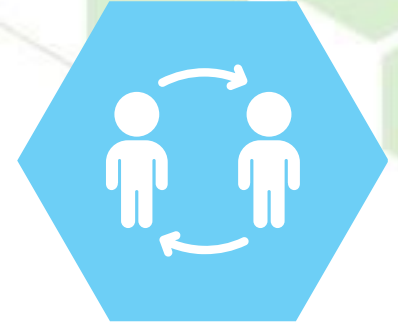
Sectoral Working Groups



September – December 2022

Groups of interested stakeholders in each of the five sectors across a range of disciplines and level of expertise will provide input on the design and development of implementation strategies and activities

Regional Convenings for Implementation



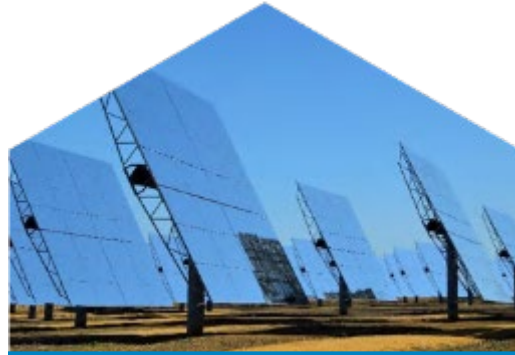
January – February 2023

Events organized within each supervisorial district with community outreach and engagement led by Community Based Organizations

Stakeholder Feedback



BUILDINGS



ELECTRICITY



**LAND USE & NATURAL
CLIMATE SOLUTIONS**



TRANSPORTATION

Stakeholder Feedback - Examples



BUILDINGS

Electrification costs

- Included information on financing options that are currently available

Public buildings

- Added language about how existing building stock was categorized

Stakeholder Feedback - Examples



Renewable energy siting scenarios –
transmission costs

- Included explanations of the chapter’s assumptions on transmission costs

Site selection for renewable energy projects

- Added scenarios that prioritize infill and rooftop solar, and quantify impact on MSCP lands

Stakeholder Feedback - Examples



Processing facilities for organic materials

- Updated the climate farming section to better reflect the local ecological and economic conditions, policy landscape, and investments

More information on natural solutions

- Added State and local context of what is being done and what laws may affect the region's ability to store carbon dioxide

Stakeholder Feedback - Examples



TRANSPORTATION

Transfer of development rights

- Added discussion about transfer of development rights programs and included case studies for regional programs

More emphasis on reducing Vehicle Miles Traveled (VMT)

- Included context on how jurisdictions are valuing VMT reductions and significance of approach

Stakeholder Feedback

Local Policy Opportunities Analysis by USD EPIC

Other opportunities to reduce emissions outside Climate Action Plans (CAP)

CAPs that are being updated

- Added scenario on City of San Diego's proposed CAP Update and recognized Coronado's CAP adoption
- California Air Resources Board (CARB) – Draft Scoping Plan



GETTING TO ZERO
SAN DIEGO COUNTY
REGIONAL DECARBONIZATION FRAMEWORK



Implementation Playbook

A resource for governments, businesses, and communities to reduce GHGs

**Builds off the
Local Policy
Opportunity
Analysis**

**A set of ways
to reduce
GHGs**

**Sorted by
topic and type
of authority**

Will not include:

- Quantitative targets, milestones, or specific timelines

Buildings in the Implementation Playbook

An example for the Buildings Working Group

- Finding: 80% of buildings that will exist in the region in 2050 have already been built
- Example: regional building electrification
 - Looking at current and existing buildings, different types of buildings in our region, and assess strategies for shared building codes to reduce emissions
 - Assess through various criteria such as cost to implement, GHG impact, timeline, and potential funding sources



Electricity in the Implementation Playbook

An example for the Electricity Working Group

- Finding: the region will need large investments in renewable energy to meet future demand and State mandated emissions goals
- Example: rooftop and infill solar
 - Identify areas where for rooftop and infill solar installations based on considerations like community needs, population demographics, types of buildings, and building ownership
 - Assess through various criteria such as cost to implement, GHG impact, timeline, and potential funding sources



Land Use & Natural Climate Solutions in the Implementation Playbook

An example for Land Use & Natural Climate Solutions Working Group

- Finding: planting trees, shrubs, and other plants in urban and suburban areas sequesters carbon and provides community benefits
- Example: urban and suburban greening
 - Identify areas to establish trees, shrubs, and other plants to sequester carbon and to clean the air, provide shade to homes and businesses, and improve community aesthetics
 - Assess through various criteria such as cost to implement, GHG impact, timeline, and potential funding sources



Transportation in the Implementation Playbook

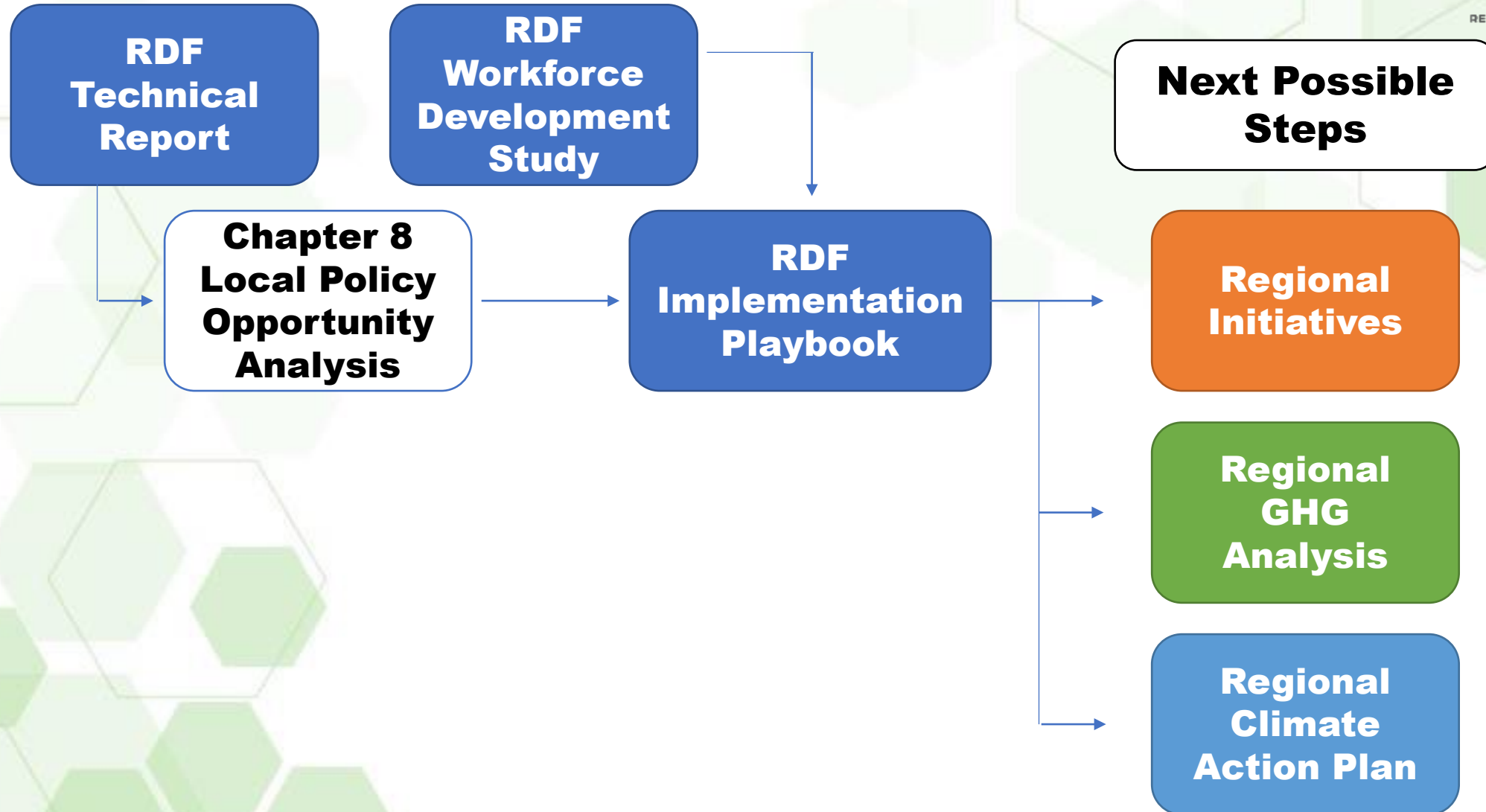
An example for Transportation Working Group

- Finding: On-road transportation of vehicles with internal combustion engines emits the most GHGs in the region
- Example: transition to cleaner vehicles
 - Brainstorm and craft incentives for people, businesses, municipalities, and agencies to switch to cleaner vehicles or modes of transportation
 - Develop criteria for incentives such as GHG impact, cost to implement, existing funding sources that are available, and potential future funding sources



Implementation Playbook

A Bridge Between Analysis and Implementation



Decarbonization Sectors



BUILDINGS



**LAND USE & NATURAL
CLIMATE SOLUTIONS**



**FOOD SYSTEMS &
CIRCULAR ECONOMY**

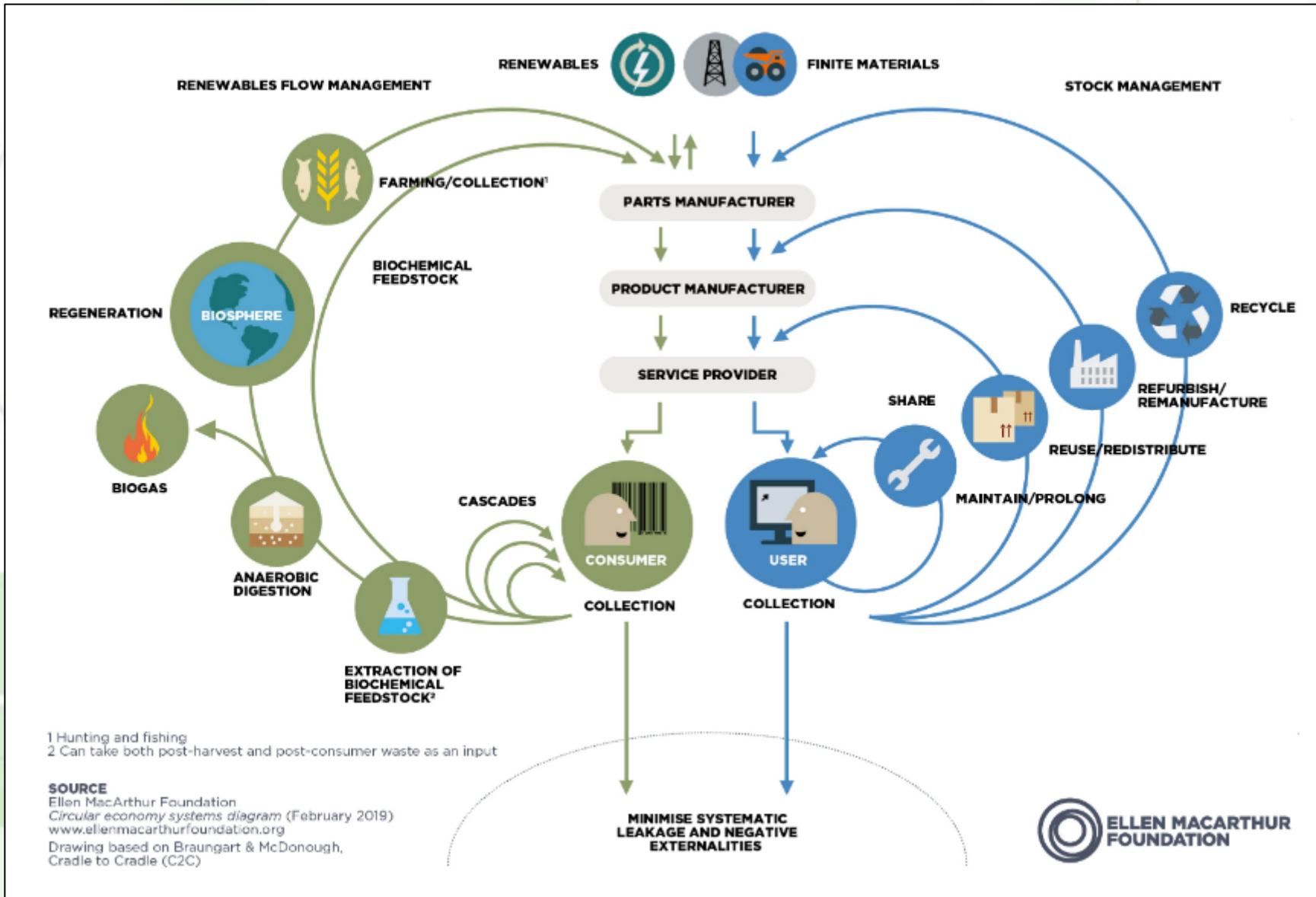


ELECTRICITY



TRANSPORTATION

Food Systems & Circular Economy



- Reducing lifecycle impacts of materials, including climate impacts
- All aspects of food – from production to consumption and disposal



1 Hunting and fishing
2 Can take both post-harvest and post-consumer waste as an input

SOURCE
Ellen MacArthur Foundation
Circular economy systems diagram (February 2019)
www.ellenmacarthurfoundation.org
Drawing based on Braungart & McDonough,
Cradle to Cradle (C2C)

Your Role

Sectoral Working Groups, Regional Convenings, Ideas for Action



BUILDINGS



**LAND USE & NATURAL
CLIMATE SOLUTIONS**



**FOOD SYSTEMS &
CIRCULAR ECONOMY**



ELECTRICITY



TRANSPORTATION



GETTING TO ZERO

SAN DIEGO COUNTY REGIONAL DECARBONIZATION FRAMEWORK

Contact us: ZeroCarbon@sdcounty.ca.gov
Website: <https://www.sdcounty.ca.gov/RDF>



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