

Regional Decarbonization Framework

Regional Decarbonization and Green Jobs Plan

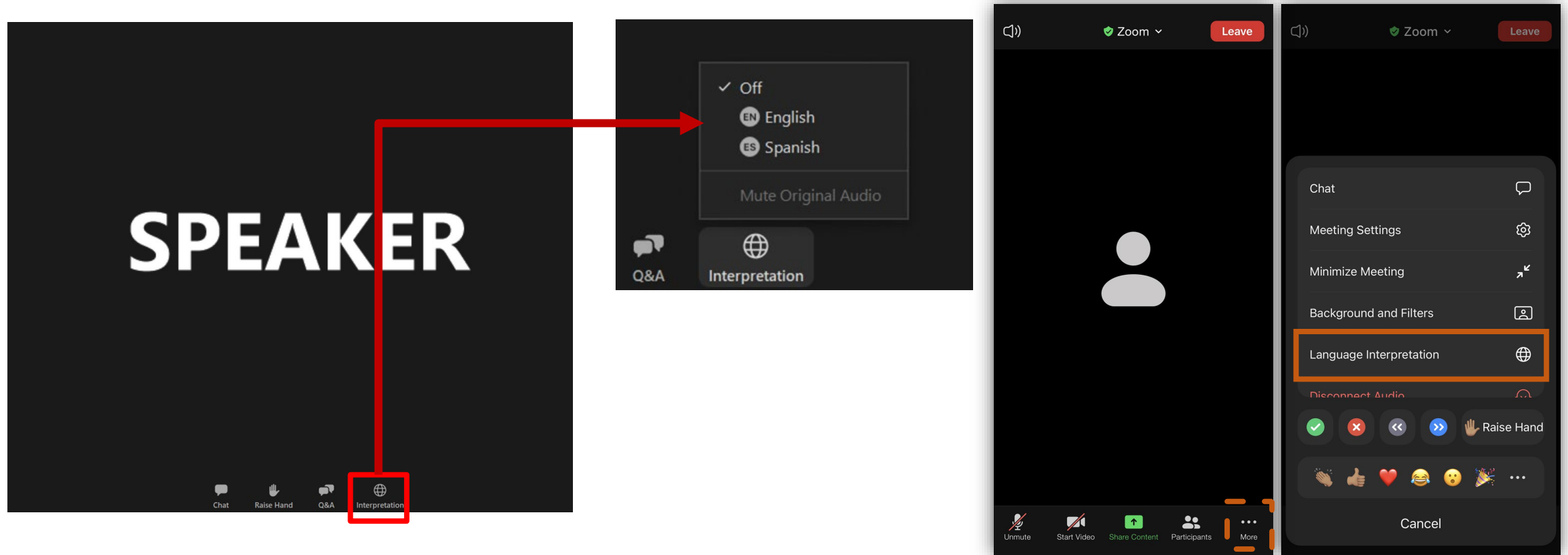
Community Meeting

April 19, 2022



Regional Decarbonization Framework

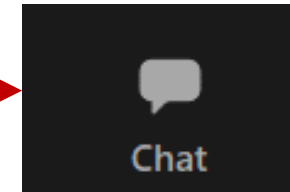
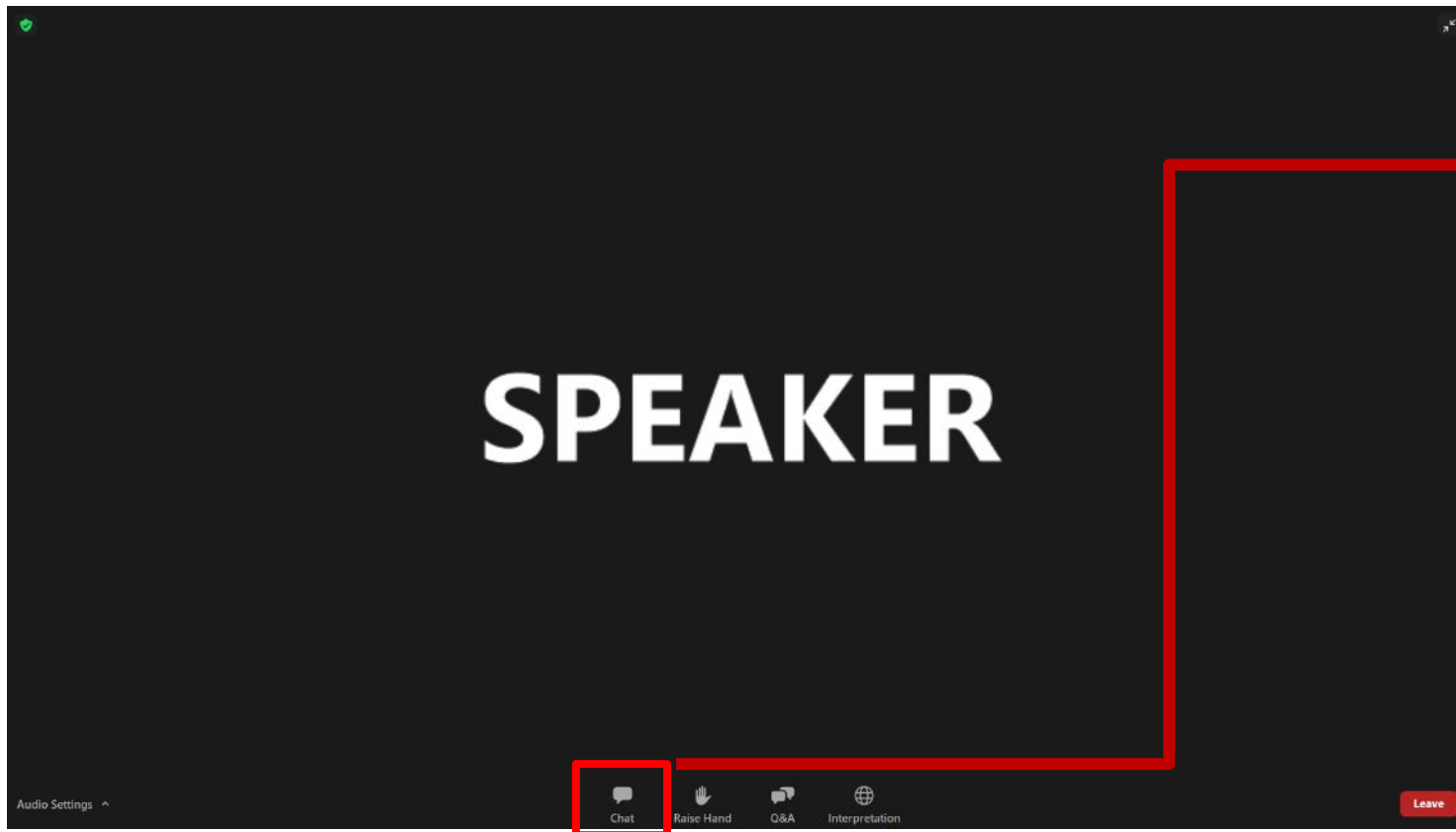
How to use Zoom // *Cómo Usar Zoom*



Please select your language of choice (you must select one option)

Debe seleccionar el idioma de su preferencia (Tiene que escoger un idioma)

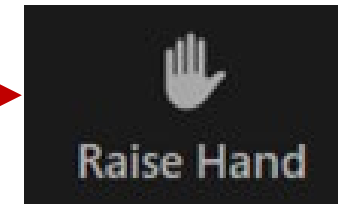
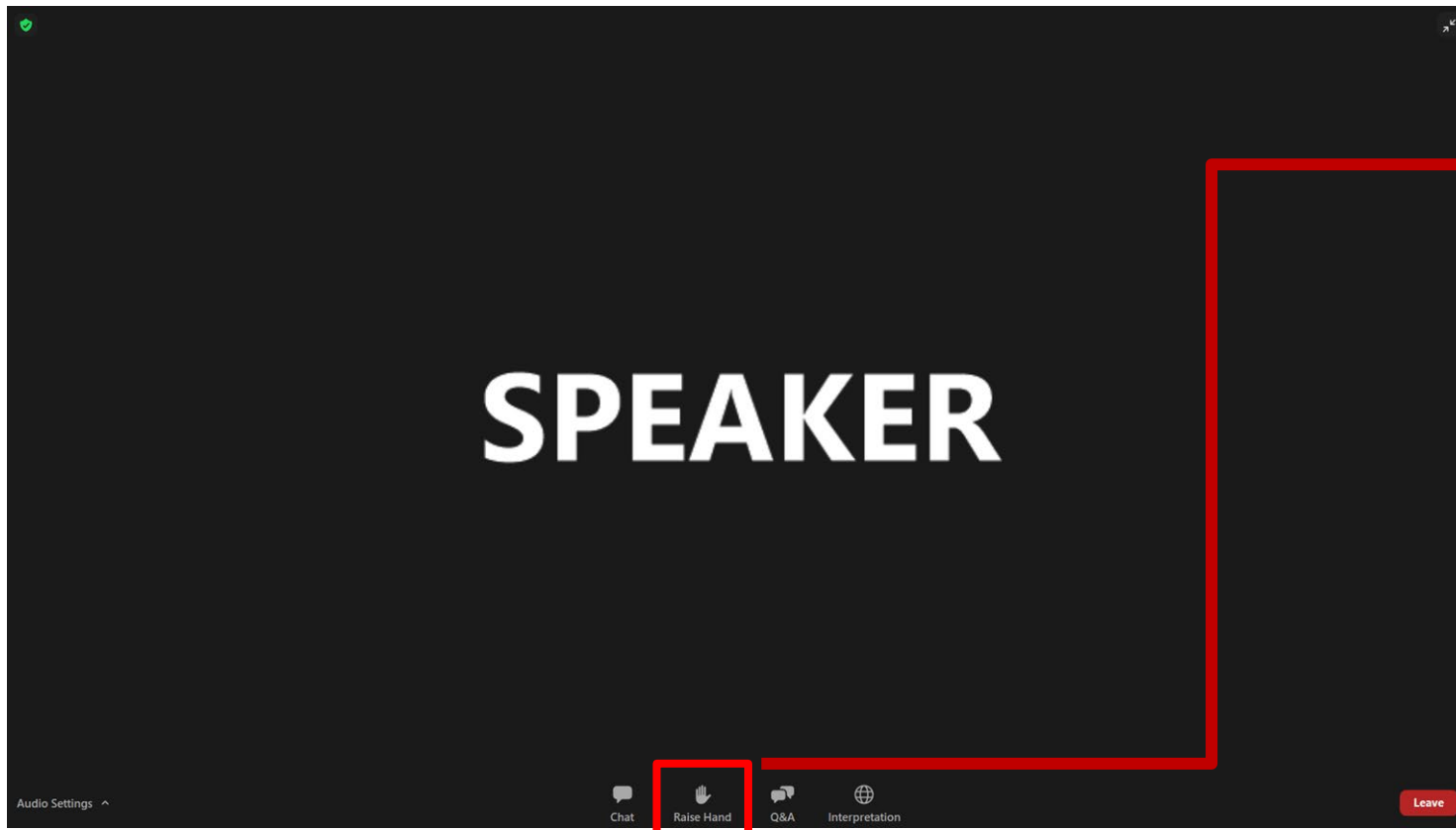
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Comments and questions can be submitted through the chat window.

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

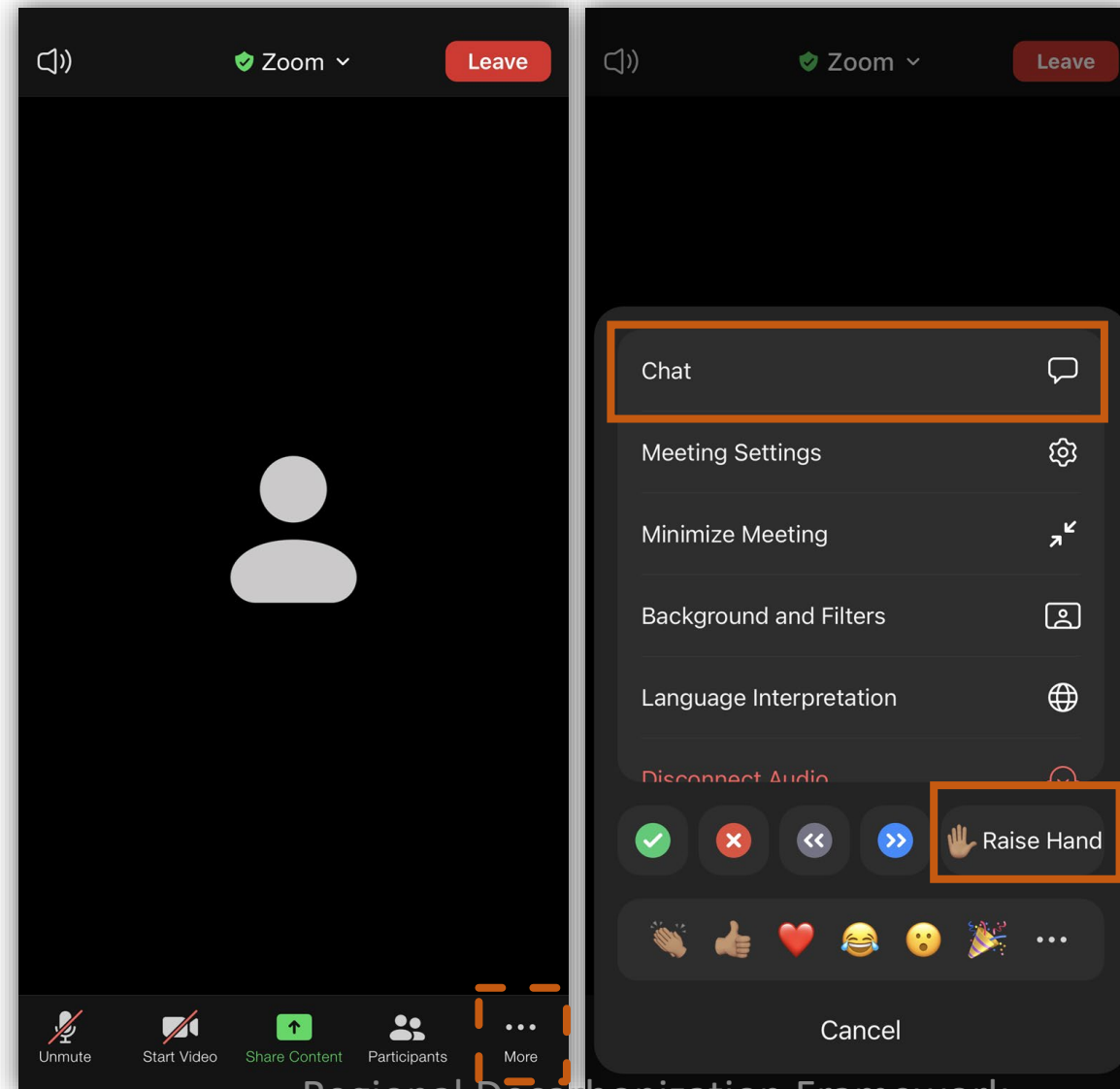
How to use Zoom // *Cómo Usar Zoom*



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*



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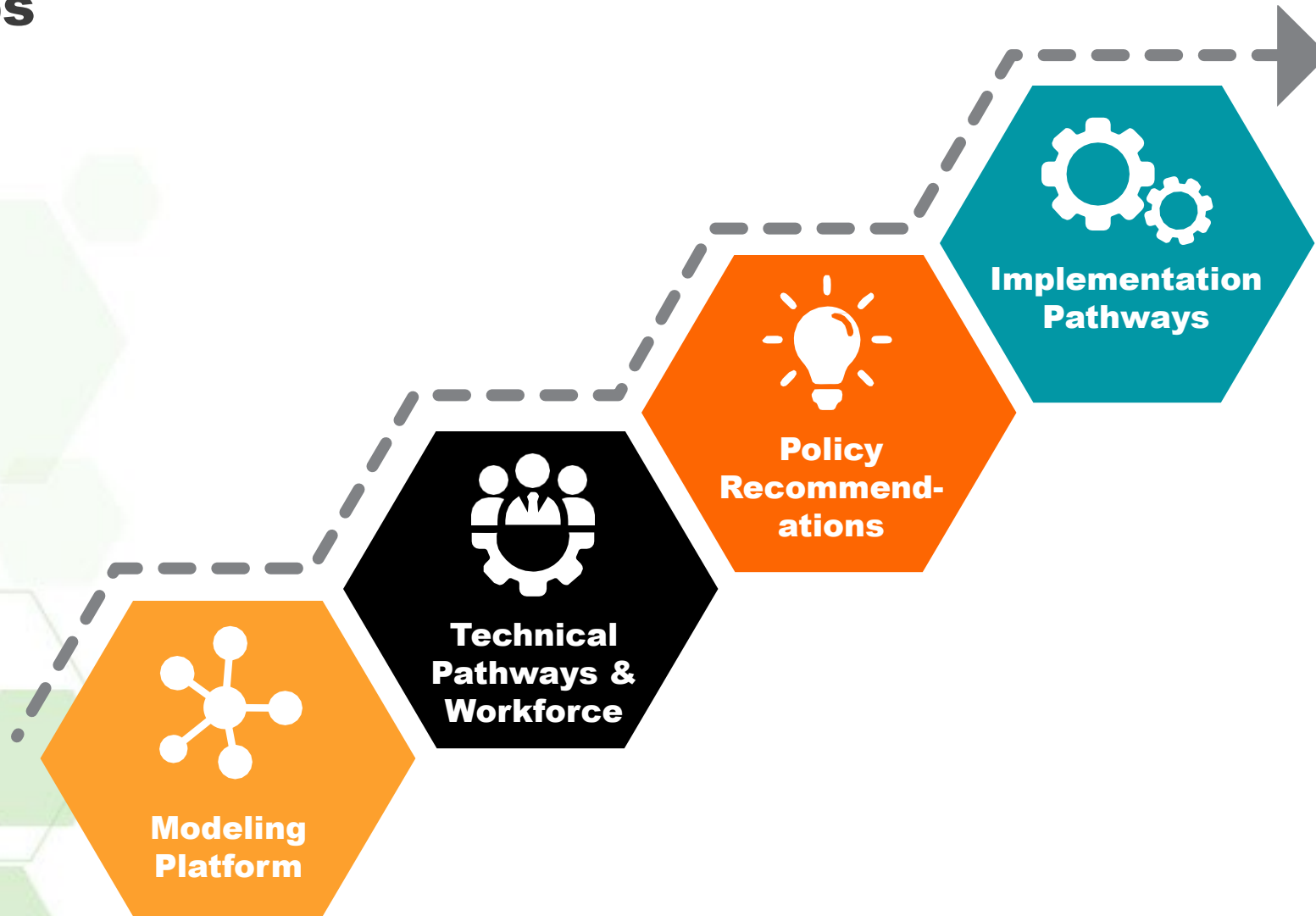
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Regional Decarbonization Framework

RDF Steps



Regional Decarbonization Framework



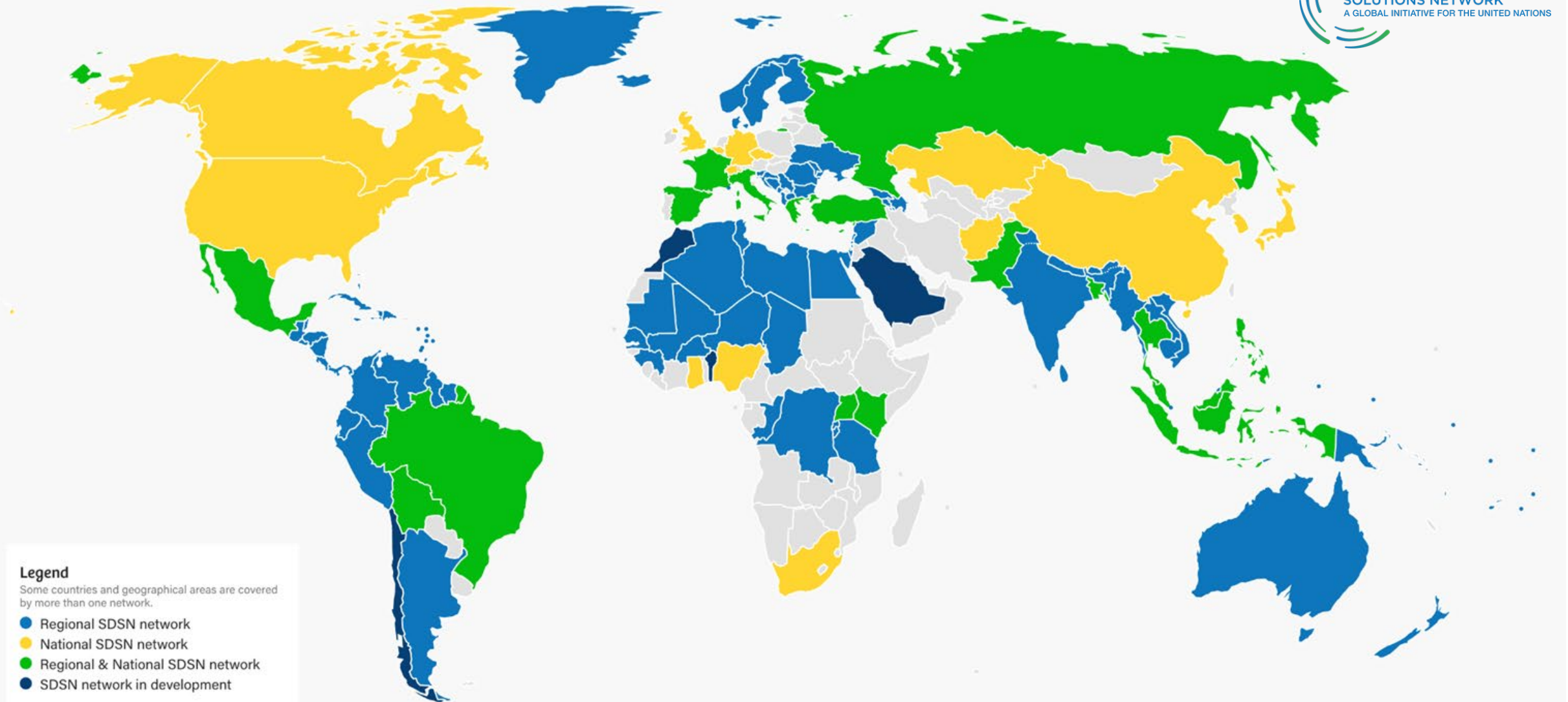
Localizing “Decarbonization”

Elena Crete, Head of Climate & Energy Program
UN Sustainable Development Solutions Network (SDSN)

Public Meeting on the Regional Decarbonization Framework
March 24, 2022



SDSN Global Network



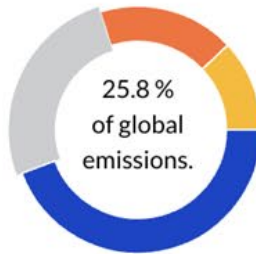
National Precedent



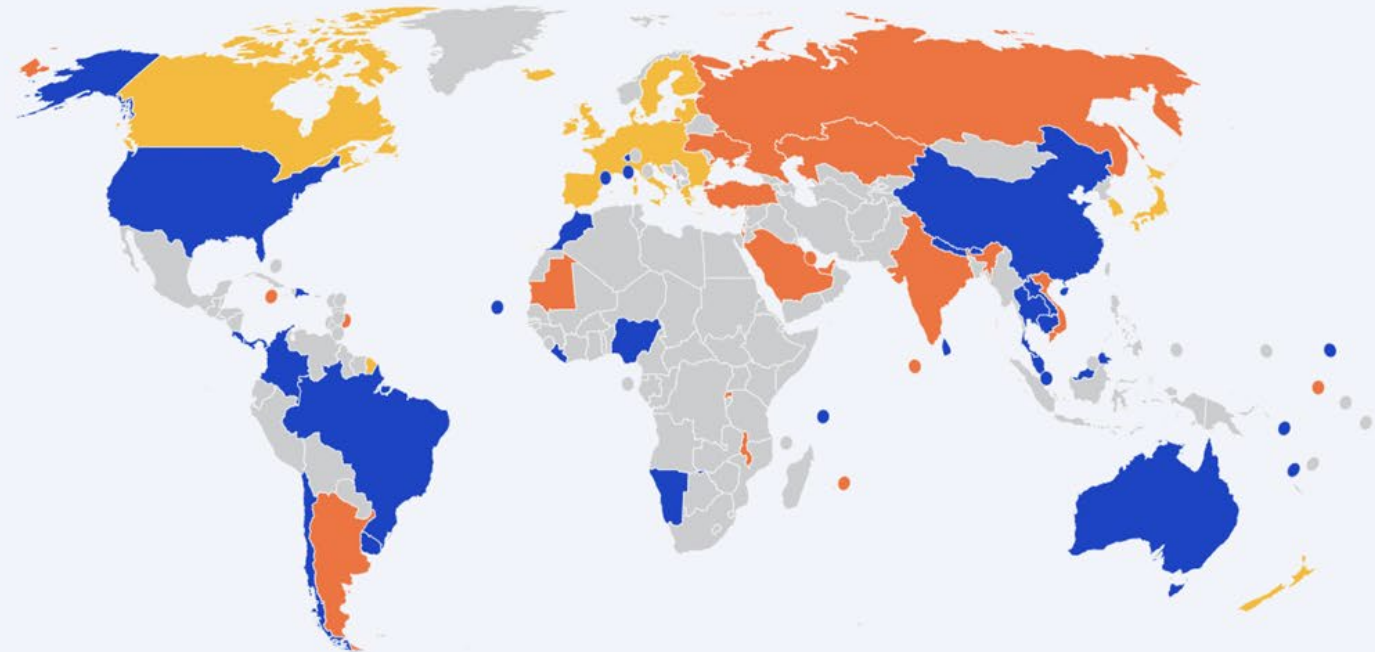
“Decarbonization” in Practice

76

Parties, representing 83 countries and 74.2% of global GHG emissions, have communicated a net-zero target



The map reflects latest communication of each country. Explore which countries have adopted a net-zero target below and click on a country to see its climate profile.



Visualize individual targets of EU Members on the map

A short horizontal bar with a teal segment on the left and an orange segment on the right.

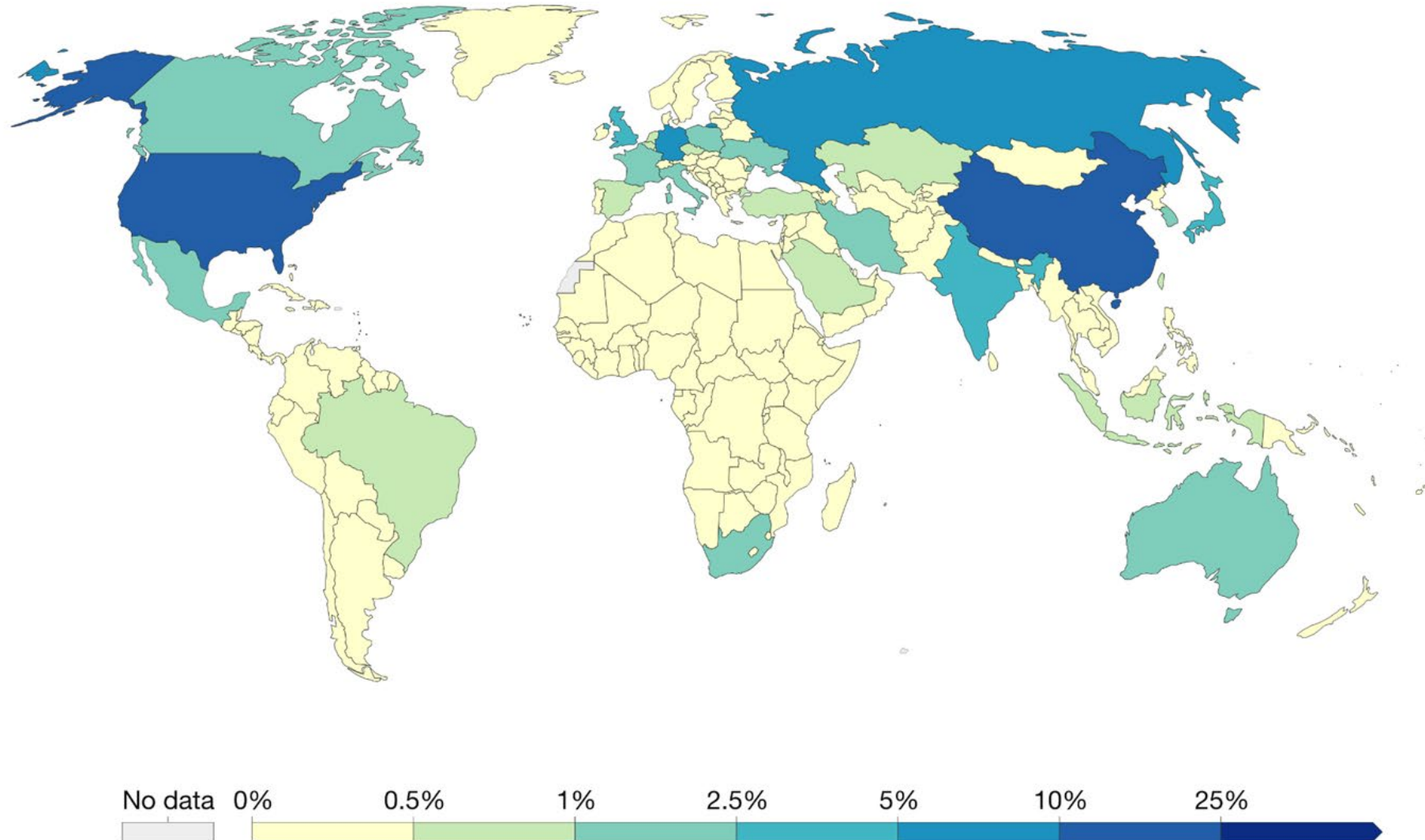
Race to Zero Campaign

Race To Zero is a global campaign to rally leadership and support from businesses, cities, regions, investors for a healthy, resilient, zero carbon recovery that prevents future threats, creates decent jobs, and unlocks inclusive, sustainable growth.

It mobilizes a coalition of leading net zero initiatives, representing **1,049 cities, 67 regions, 5,235 businesses, 441 of the biggest investors, and 1,039 Higher Education Institutions**. These ‘real economy’ actors join the [largest ever alliance](#) committed to achieving net zero carbon emissions by 2050 at the latest. Collectively these actors now cover nearly 25% global CO₂ emissions and over 50% GDP.

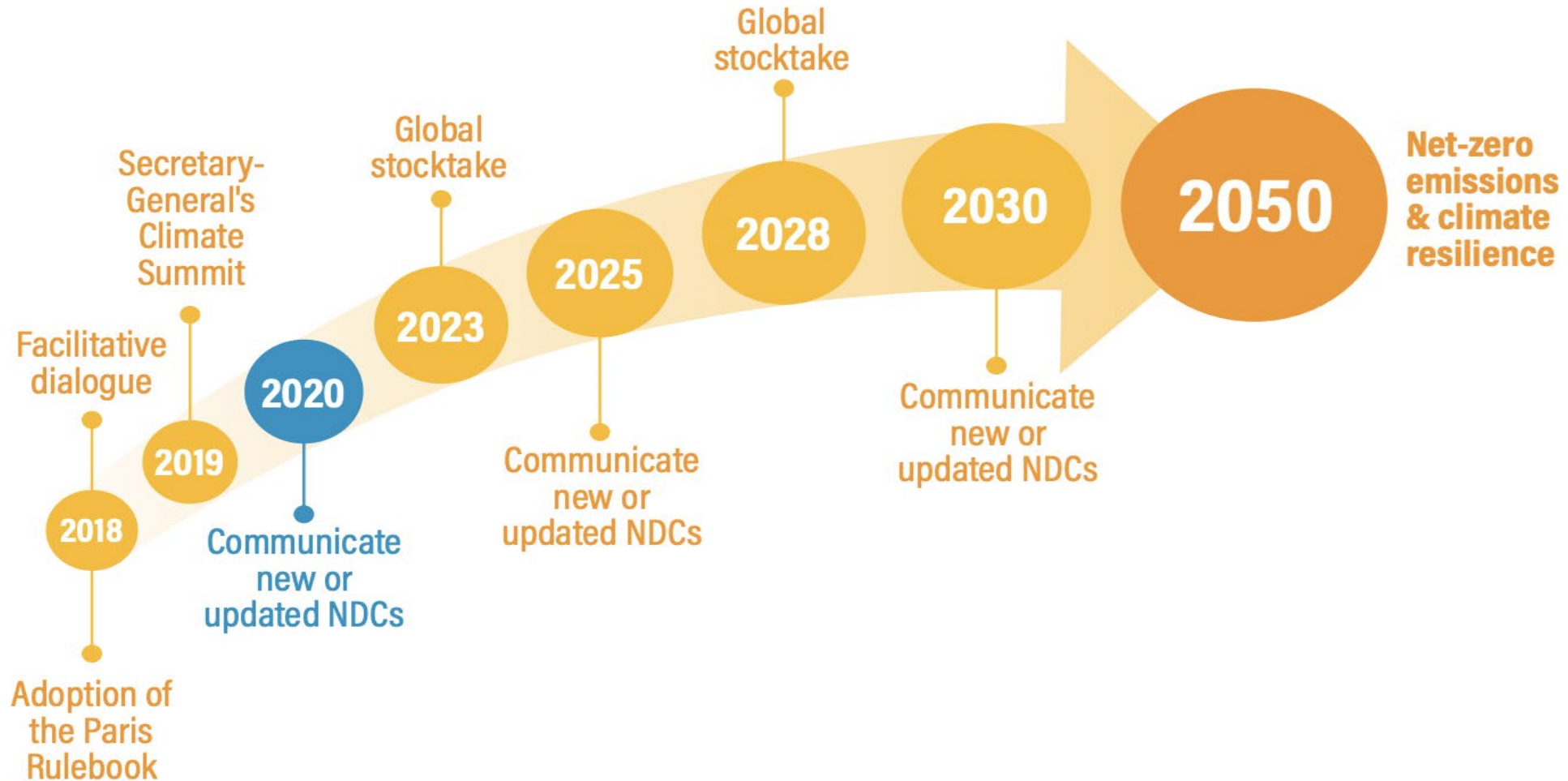
Share of global cumulative CO₂ emissions, 2020

Each country or region's share of cumulative global carbon dioxide (CO₂) emissions. Cumulative emissions are calculated as the sum of annual emissions from 1750 to a given year.

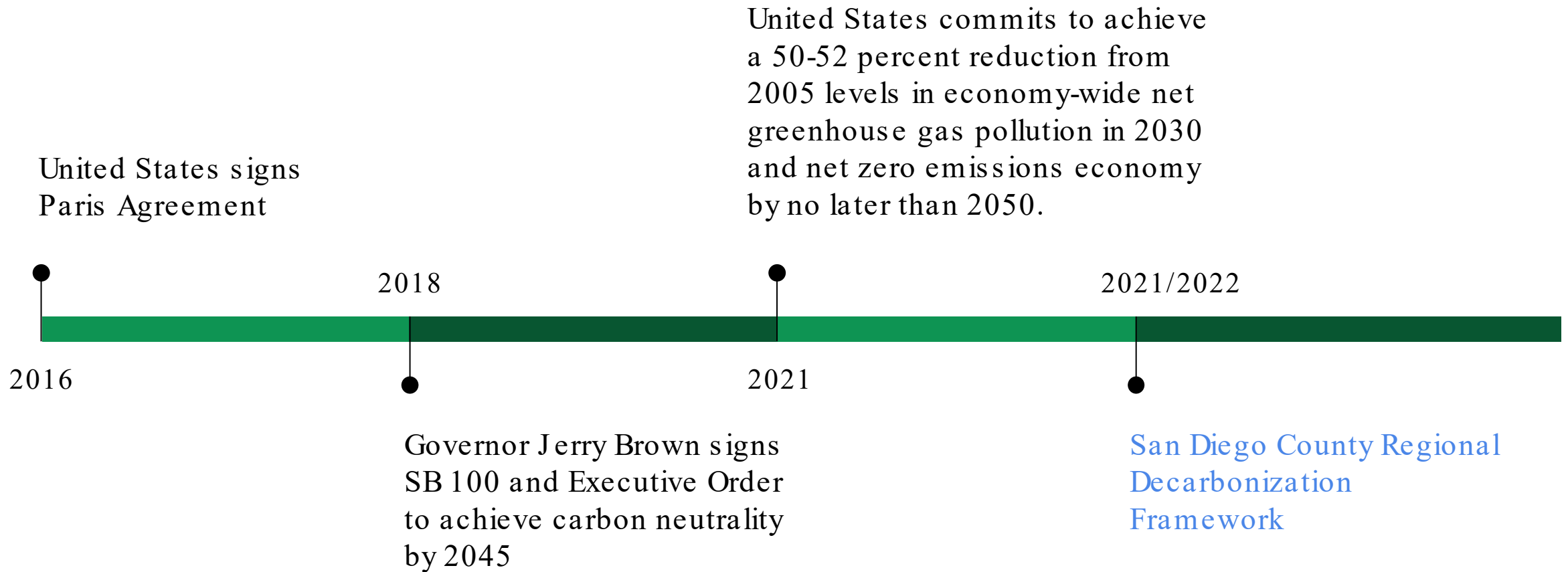


The world is looking to the United States to prove decarbonization is technically, economically and politically possible.

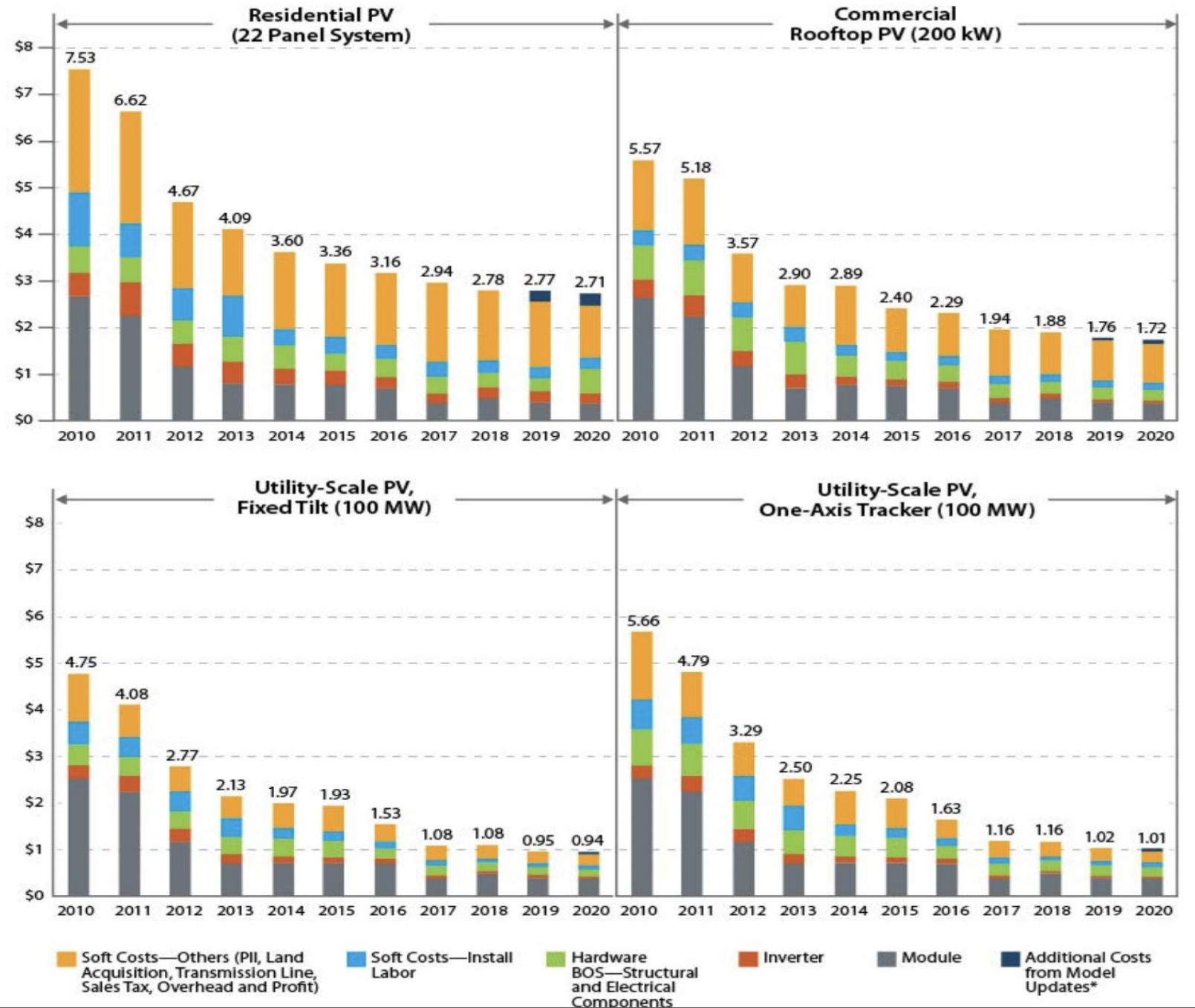
1. Global Mechanism (Paris Agreement)



2. Growing Political Will



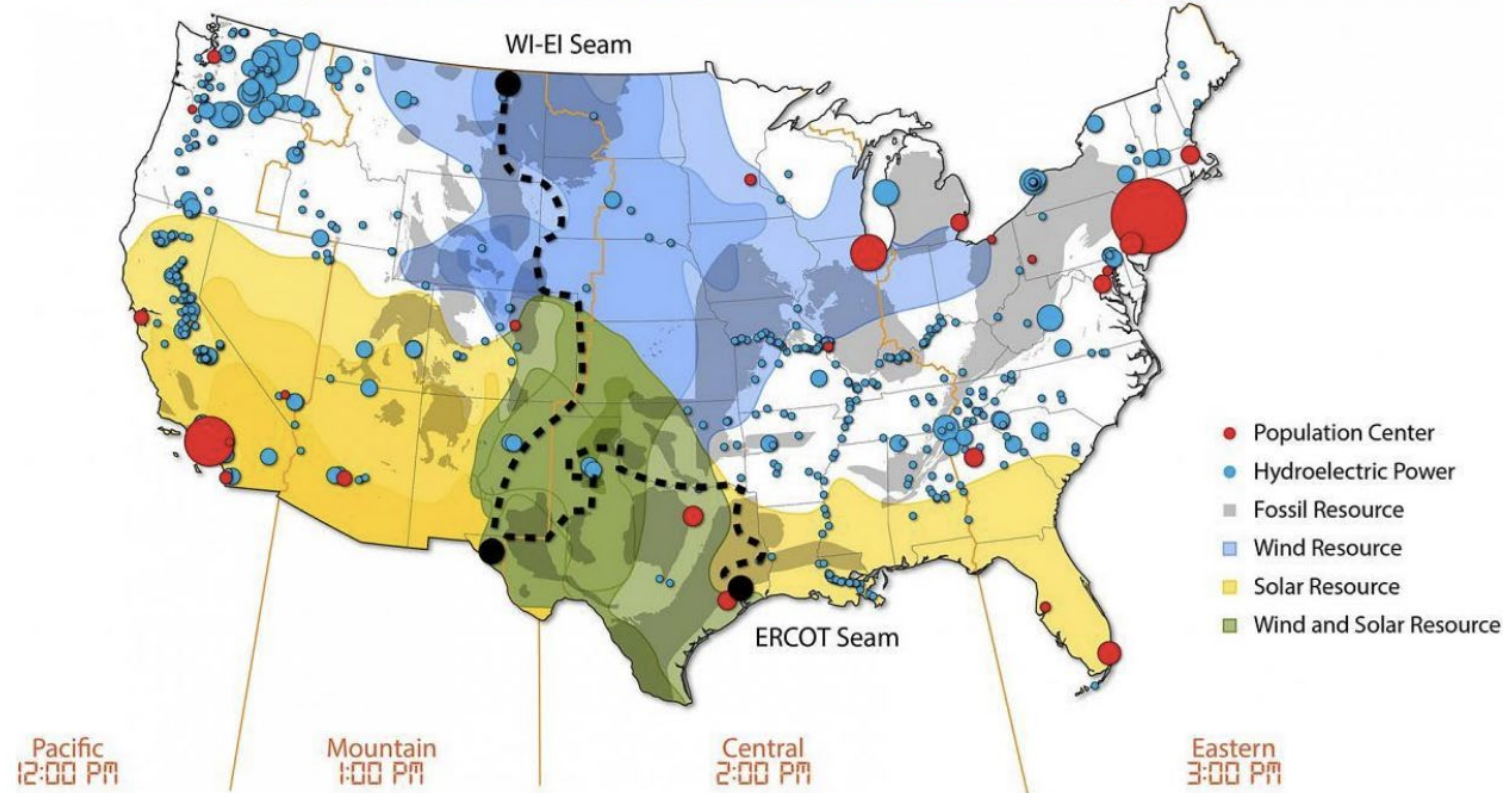
3. Market Signals



Source: <https://www.nrel.gov/news/program/2021/documenting-a-decade-of-cost-declines-for-pv-systems.html>

4. Science and Resource Potential

Figure 10 U.S. Wind and Solar Resource Quality Map¹⁶



We have what we need, now it's time to implement



- ❑ Global Mechanism
- ❑ Political Will
- ❑ Market Signals
- ❑ Science and Resource potential

→ *local implementation!*

Central Florida

In Central Florida, a newly created council of governments is working to tackle sustainability and resilience through a regional decarbonization strategy: **The East Central Florida Regional Resilience Collaborative (ECFR2C)**. This initiative convenes **37 partners** (including counties, cities, towns, and public agencies) with the goal of reducing their carbon footprint, risks, and vulnerabilities, and increasing sustainability efforts on a region-wide level

Source: San Diego Regional Decarbonization Framework Draft



Washington

The **Metropolitan Washington Council of Governments (COG)** is another one of the nation's leading groups in addressing climate change on a regional level. The COG is an association of **300 elected officials** from local and state governments, as well as members of the U.S. Congress that collaborates to address major regional issues of climate and energy action in the District of Columbia, Maryland, and Northern Virginia.

→ 2012 Region Forward vision



Metropolitan Washington
Council of Governments

Kansas City

Kansas City has had a long history of implementing sustainability initiatives to ensure economic, social, and environmental benefits, and has most recently employed a collaborative regional approach in its **2021 Climate Action Plan (CAP)**. This CAP, which serves **10 counties**, and **123 municipalities** in the states of Kansas and Missouri is made up of a team of over 130 local and state elected leaders, community members, and stakeholders, spearheaded by **Climate Action KC** and the **Mid-America Regional Council (MARC)**.

Source: San Diego Regional Decarbonization Framework Draft





RDF is Addressing Multiple Challenges

- ❖ Fostering a just and equitable transition
 - Creating economic opportunity
 - Procedural & substantive engagement
- ❖ Addressing degradation of air, water & land
- ❖ Committing to global leadership
- ❖ Advancing RDD&D



San Diego Region as a Model

A decarbonization demonstration project for the world



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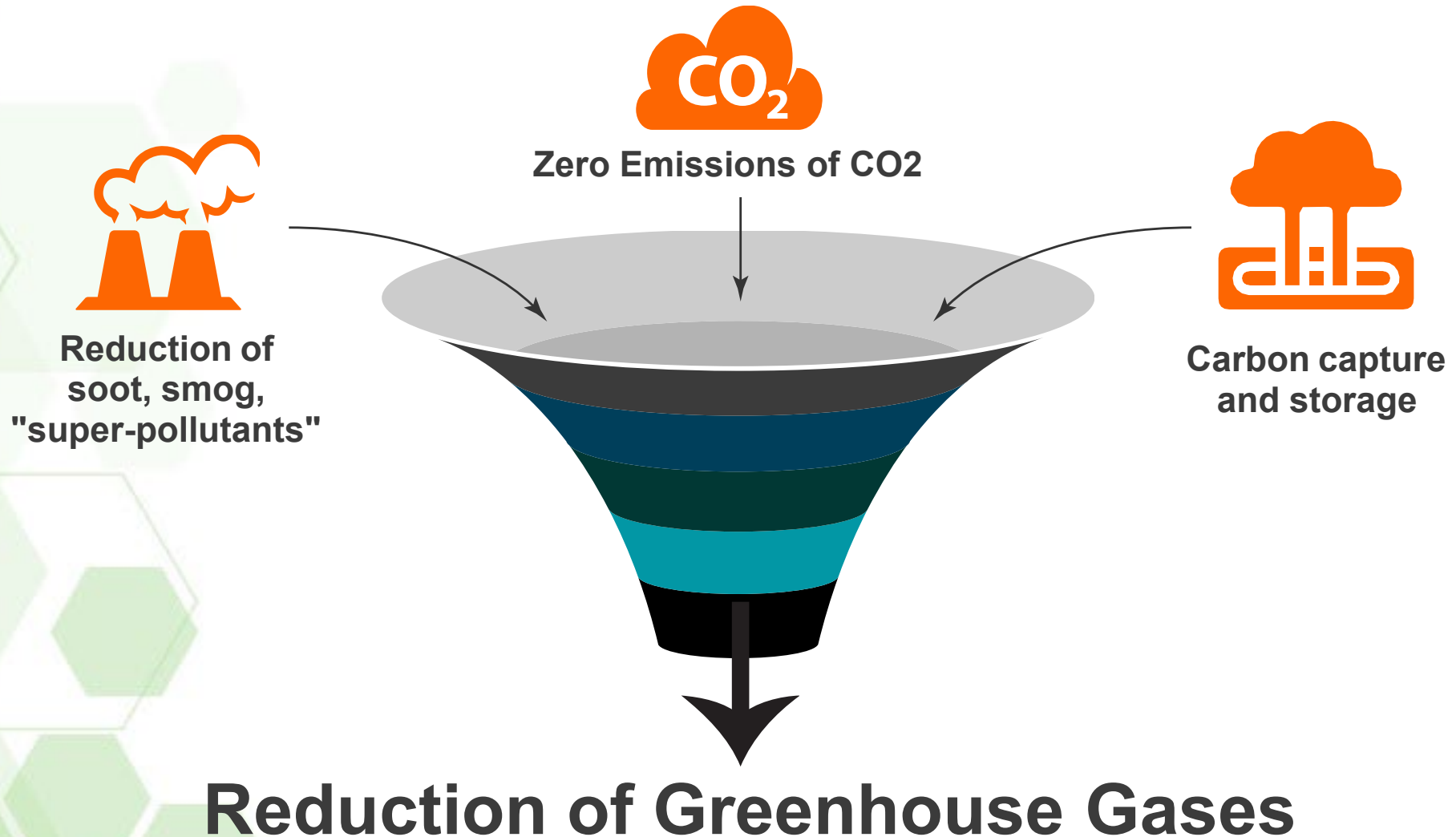


Regional Decarbonization Framework

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Decarbonization Defined



Regional Decarbonization Framework

Three Guiding Principles

1

**DATA-DRIVEN
APPROACH**

2

**COMMUNITY
OUTREACH**

3

**REGIONAL
COLLABORATION**



Learning from Our Past

There is harmony between land, nature and its people. While true for all neighborhoods, one specific group of people have endured displacement from their lands, persecution, and systemic oppression and deserve special recognition today.

As we begin our journey of regional decarbonization, we acknowledge the unceded territory and homelands of the 17 tribal nations in the region – the most in any county in the United States.

Kumeyaay/Diegueño

Luißeño

Cupeño

Cahuilla

Integrated Regional Decarbonization Framework



**Technical Report
led by UC San Diego**



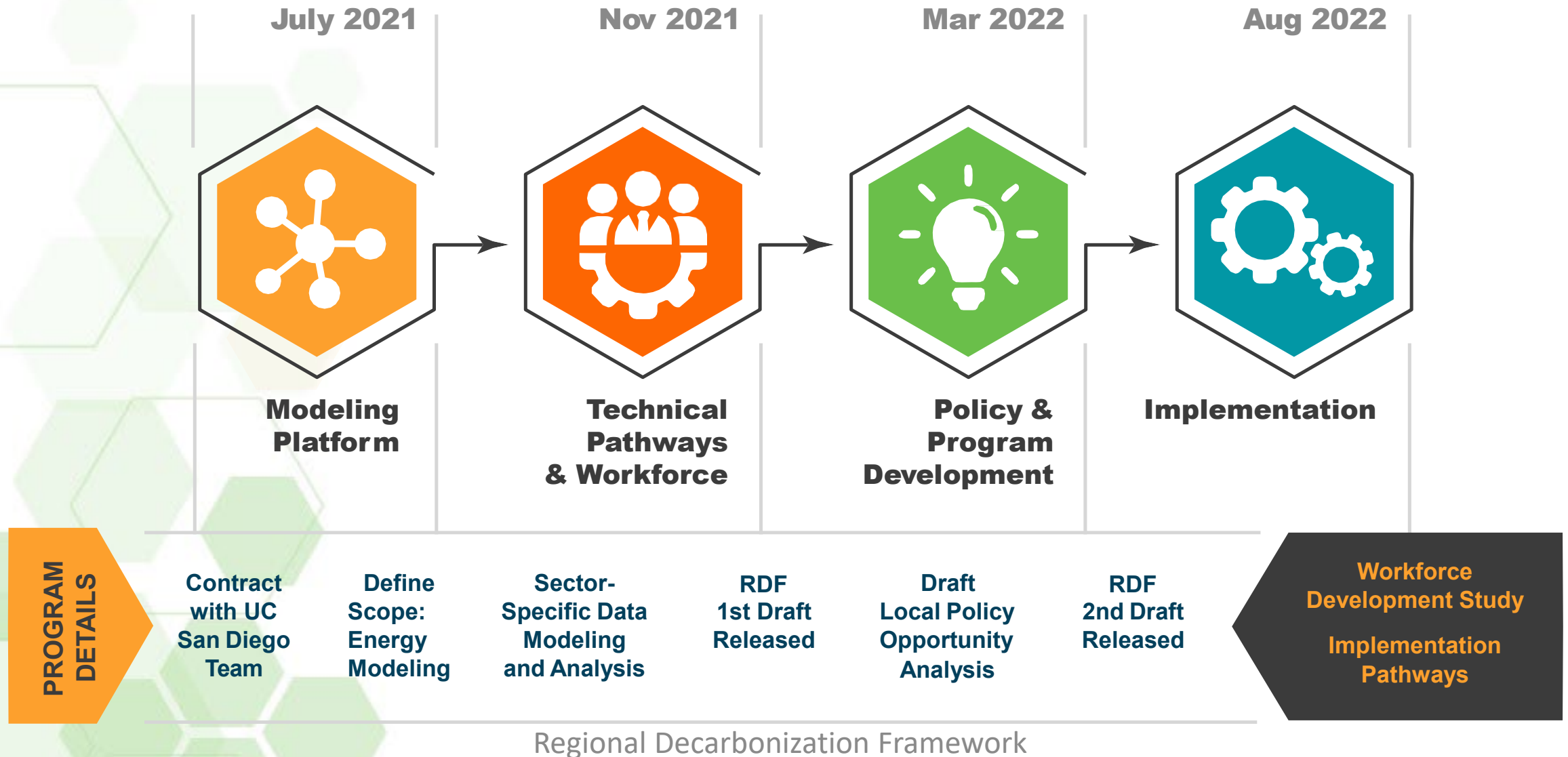
**Workforce Development
Study by Inclusive
Economics**



**Implementation
Pathways**

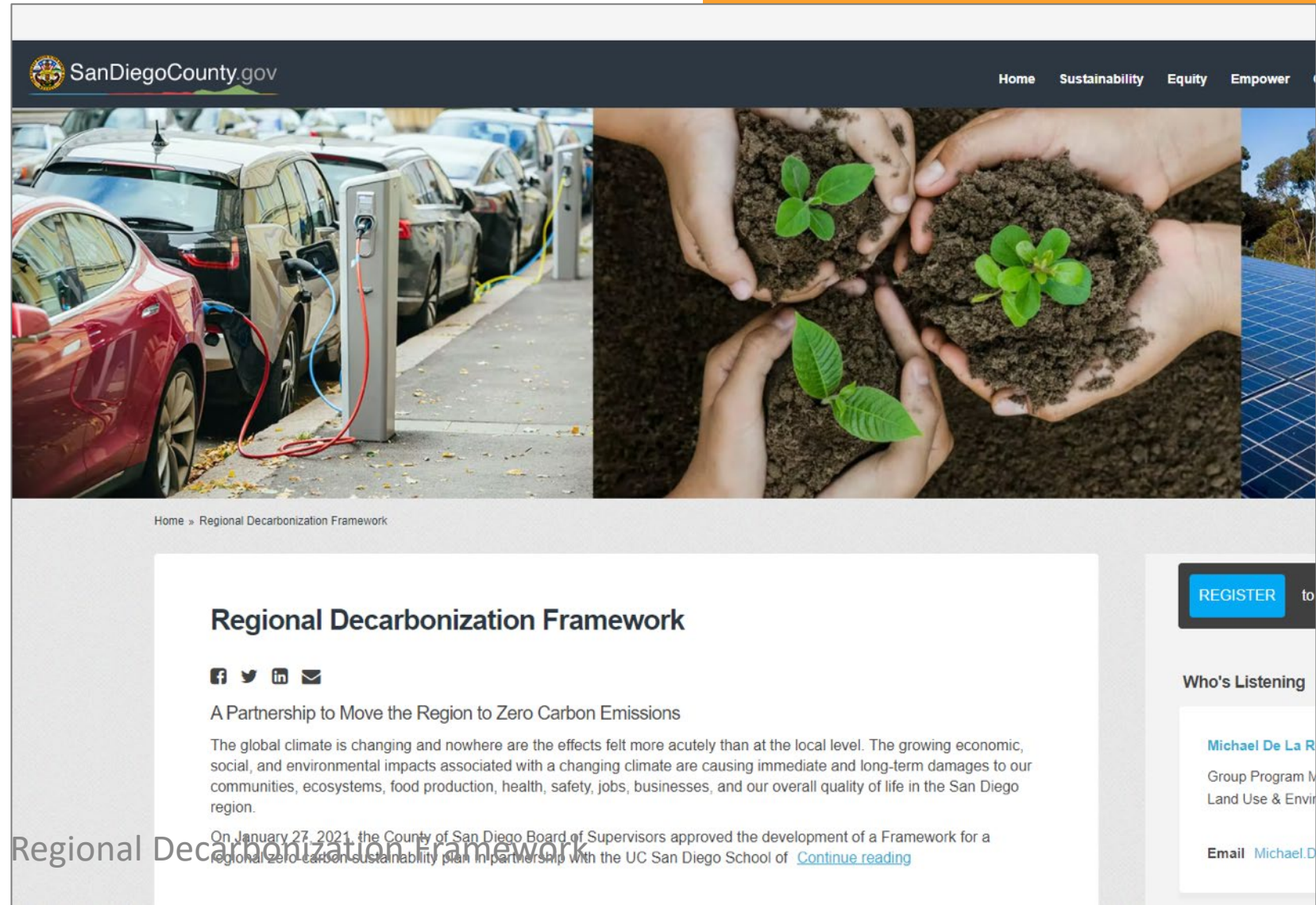
← ————— The components of the ————— →
Integrated Regional Decarbonization Framework

Timeline



New Engagement Tool

- Learn about the project, ask questions, comment directly on draft documents, and connect with the project team
- Documents available for comment through May 31, 2022



The screenshot displays the San Diego County website's header with the logo and navigation links: Home, Sustainability, Equity, and Empower. Below the header is a large banner image divided into two parts: the left side shows several electric vehicles parked at charging stations, and the right side shows four hands holding soil with small green seedlings growing in it. Below the banner, the breadcrumb trail reads "Home » Regional Decarbonization Framework". The main heading is "Regional Decarbonization Framework", followed by social media icons for Facebook, Twitter, LinkedIn, and Email. The subheading is "A Partnership to Move the Region to Zero Carbon Emissions". The text describes the global climate change impacts and the County's commitment to a zero-carbon future. It mentions the January 27, 2021 approval by the Board of Supervisors and the partnership with the UC San Diego School of Environment and Urban Planning. A "Continue reading" link is provided at the end of the text. On the right side of the page, there is a "REGISTER" button and a "Who's Listening" section listing Michael De La Riva as the Group Program Manager for Land Use & Environment, with an email link to Michael.D.

SanDiegoCounty.gov

Home Sustainability Equity Empower

Home » Regional Decarbonization Framework

Regional Decarbonization Framework

[f](#) [t](#) [in](#) [e](#)

A Partnership to Move the Region to Zero Carbon Emissions

The global climate is changing and nowhere are the effects felt more acutely than at the local level. The growing economic, social, and environmental impacts associated with a changing climate are causing immediate and long-term damages to our communities, ecosystems, food production, health, safety, jobs, businesses, and our overall quality of life in the San Diego region.

On January 27, 2021, the County of San Diego Board of Supervisors approved the development of a Framework for a regional zero-carbon sustainability plan in partnership with the UC San Diego School of [Continue reading](#)

REGISTER to

Who's Listening

Michael De La Riva
Group Program Manager
Land Use & Environment

Email [Michael.D.](#)

RDF Technical Report



**Montara
Mountain
Energy**



EVOLVED
ENERGY
RESEARCH



Regional Decarbonization Framework

Four Decarbonization Pathways



TRANSPORTATION



BUILDINGS



ELECTRICITY



LAND USE

Key Takeaways — Decarbonization Pathways

- Geospatial analysis of energy
- Transportation
- Buildings
- Natural climate solutions



Policies Analysis of Local Climate Action Plans

- Assumes all Climate Action Plans (CAPs) are achieving the commitments
- Not intended to evaluate, score, or rank any particular CAP
- First study of its kind in the region



Key Takeaways — Local Policies Analysis



Local commitments are not sufficient to meet our GHG emission goals



Local jurisdictions have legal authority to do more.



Numerous opportunities and examples exist for further local action.



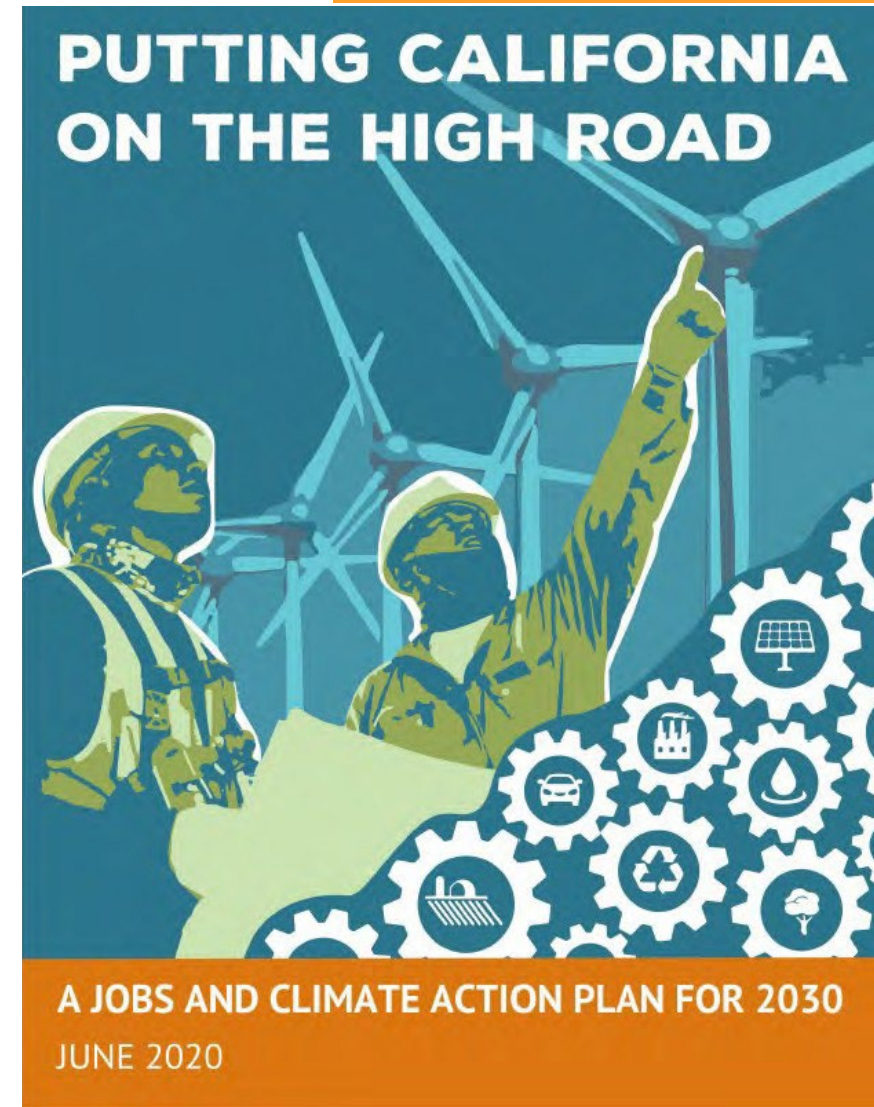
Opportunities also exist for regional collaboration.

Workforce Study

- Board directed a comprehensive "green jobs" plan
- Modelled after the State of California's Jobs and Climate Action plan



*Putting San Diego County on the High Road: Climate
Workforce Recommendations for 2030 and 2050*



Regional Decarbonization Framework

*Putting California on the High Road: A
Jobs and Climate Action Plan for 2030*

Dr. Carol Zabin

Green Jobs Analysis: Putting San Diego County on the High Road

What is a “High Road” Job?

JOB QUALITY

- Family-supporting wages and benefits
- High standards for health and safety
- Long-term career pathways
- Worker protections including the right to organize

JOB ACCESS

- Access and entry-points to good jobs for local workers
- Training to support advancement



Putting San Diego County on the High Road

“Our approach here begins with the premise that San Diego climate policy can and should generate safe, family-sustaining career-track jobs; broaden professional and economic opportunities for workers from underrepresented communities; and support workers and communities whose livelihoods depend on carbon-intensive industries at risk of decline as decarbonization proceeds.”

Regional Collaboration



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Regional Decarbonization and Green Jobs Plan

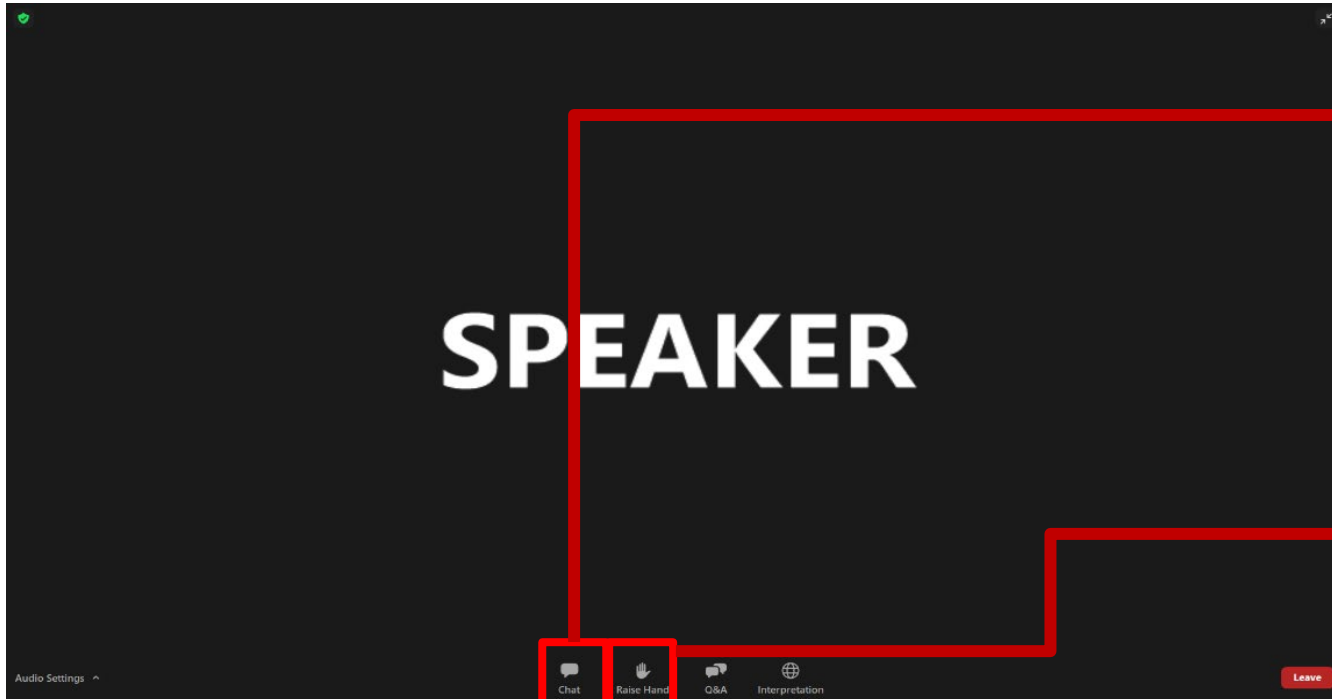
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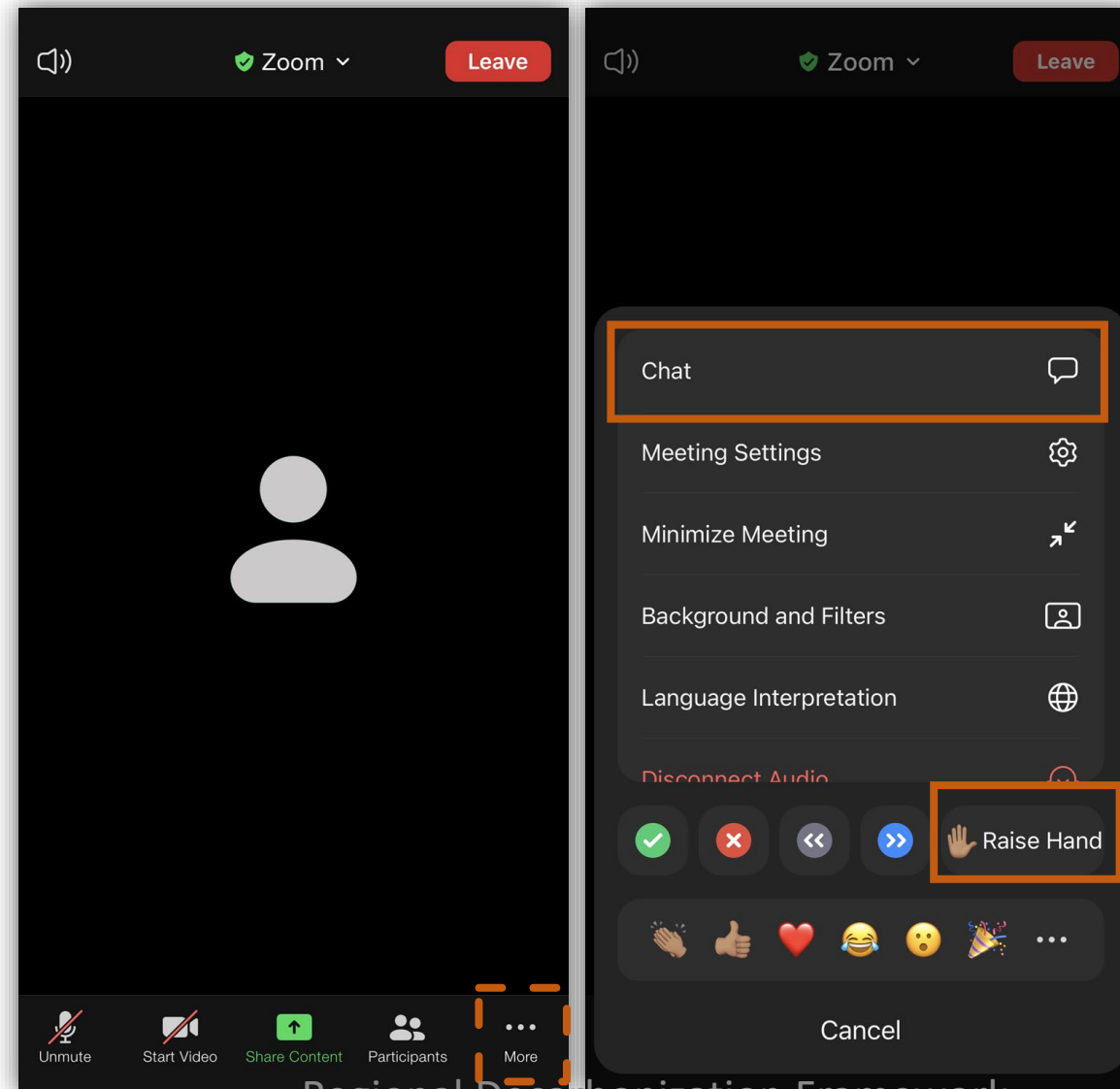
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On your Phone // *En su teléfono móvil*



QUESTION #1 – (ZOOM POLL AND DISCUSSION)

The technical report on Decarbonization Pathways provides some Key Takeaways. Which takeaway do you believe could be **most easily implemented** in our region? (Choose one.)

- A. Locating utility-scale wind and solar for regional energy generation
- B. Improving on emission reduction strategies to match the Governor's Executive Orders
- C. Replacing end-of-life fossil fuel heating systems with electrified systems
- D. Sequestering and storing carbon dioxide through protecting natural and working lands and avoiding land use change

QUESTION #2 – (ZOOM POLL AND DISCUSSION)

Which of the following takeaways do you believe could be **most challenging** to implement in our region? (Choose one.)

- A. Locating utility-scale wind and solar for regional energy generation
- B. Improving on emission reduction strategies to match the Governor's Executive Orders
- C. Replacing end-of-life fossil fuel heating systems with electrified systems
- D. Sequestering and storing carbon dioxide through protecting natural and working lands and avoiding land use change

QUESTION #3 – (ZOOM POLL AND DISCUSSION)

Specific to Regional Collaboration, please indicate which of these examples are most important to you. (Choose one or more.)

- A. A regional authority to support EV infrastructure
- B. A regional program to support policies to decarbonize buildings
- C. Expanded Community Choice Aggregation (CCA) partnerships for electricity
- D. A regional analysis for suitable and high-value locations for tree planting
- E. Expanded equity elements and indicators in local policies
- F. Other (please type into Zoom chat or raise hand to speak)

QUESTION #4 – (ZOOM POLL AND DISCUSSION)

All of the characteristics of a "high road" job are important to the future of our workforce in a decarbonized economy. Which characteristic is most important to you?. (Choose one.)

- A. Family-supporting wages and benefits
- B. High standards for health and safety
- C. Long-term career pathways
- D. Worker protections including the right to organize
- E. Access and entry-points to good jobs for local workers
- F. Training to support advancement
- G. Other (please type into Zoom chat or raise hand to speak)



QUESTION #5 – (DISCUSSION)

What additional comments or questions do you have for the project team?
(Please type into Zoom chat or raise hand to speak)

Next Steps

Community Meetings



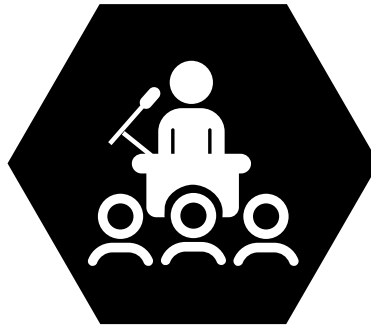
5 total:
March 24
April 19
May 17
June 28
July 26

Sector Workshops



5 total:
April 7
April 14
April 21
April 28
May 5

Speaker Series



**4 depending
on availability
of guest
speakers:**
June 2
June 16
July 7
July 21

Direct Engagement Meetings & Presentations



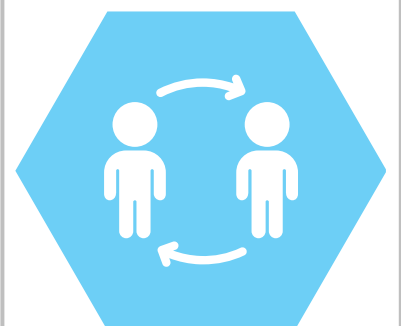
**One-on-one
meetings/
presentations**
Ongoing
through late
summer

Pop-Up Community Events



**Various
opportunities
to educate a
general
audience**
Ongoing
through late
summer

Regional Convenings for Implementation



**Events with public
officials and
stakeholders on
implementation
pathways**
Ongoing through
late summer

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