

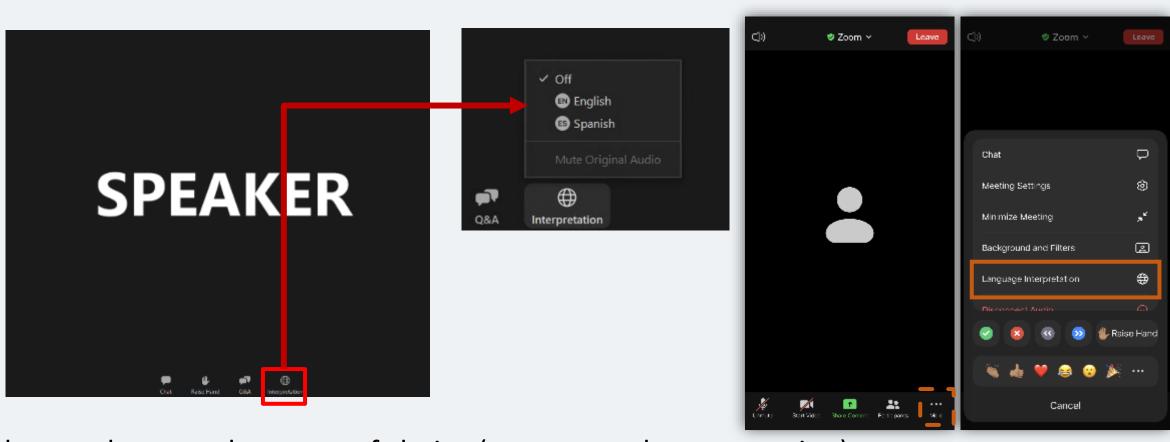
#### County of San Diego



# Food Systems & Circular Economy Working Group

September 22, 2022

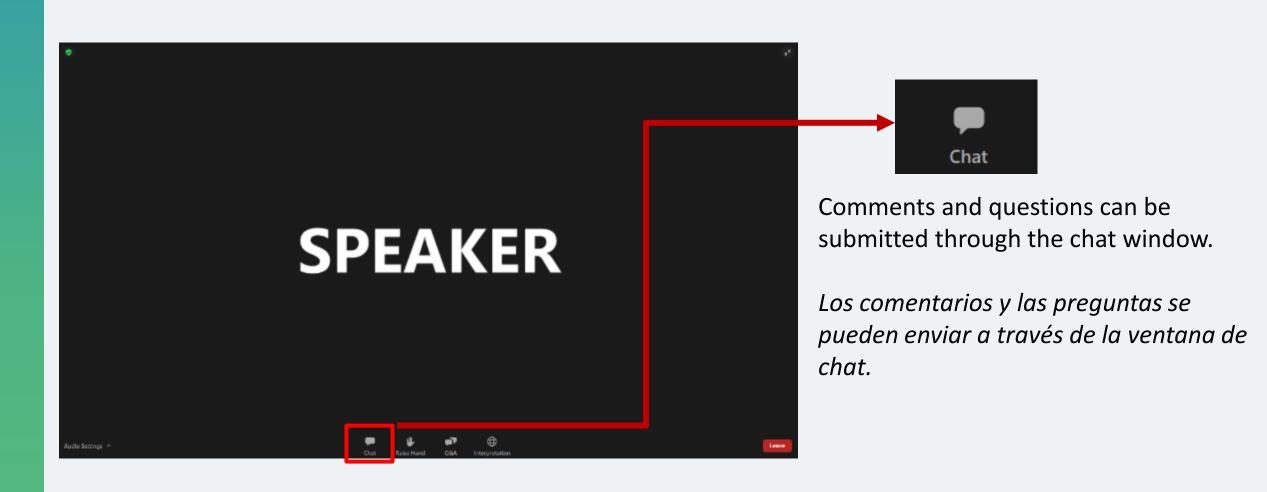
#### How to use Zoom // Cómo Usar Zoom



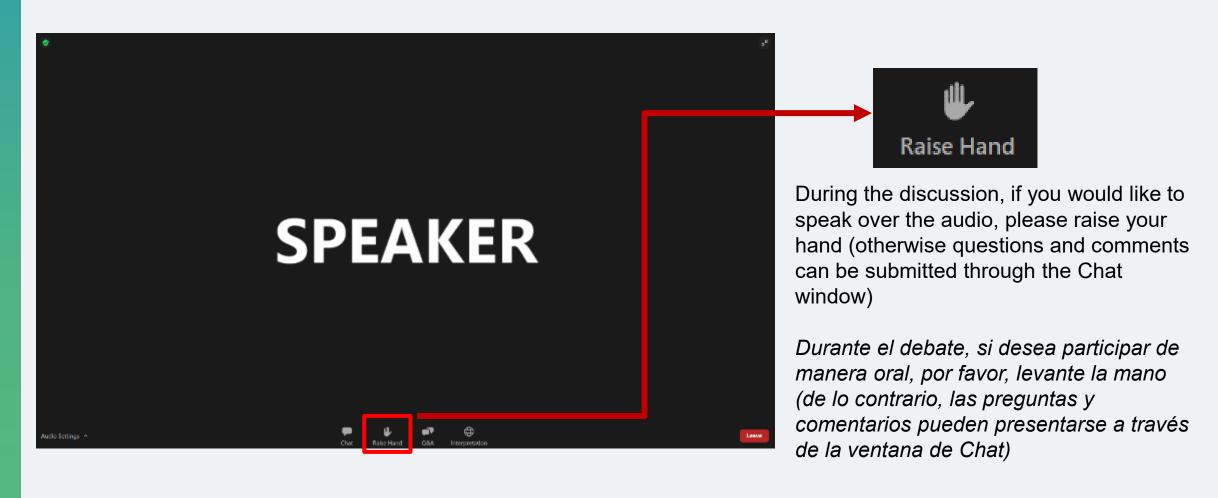
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Debe seleccionar el idioma de su preferencia (Tiene que escoger un idioma)

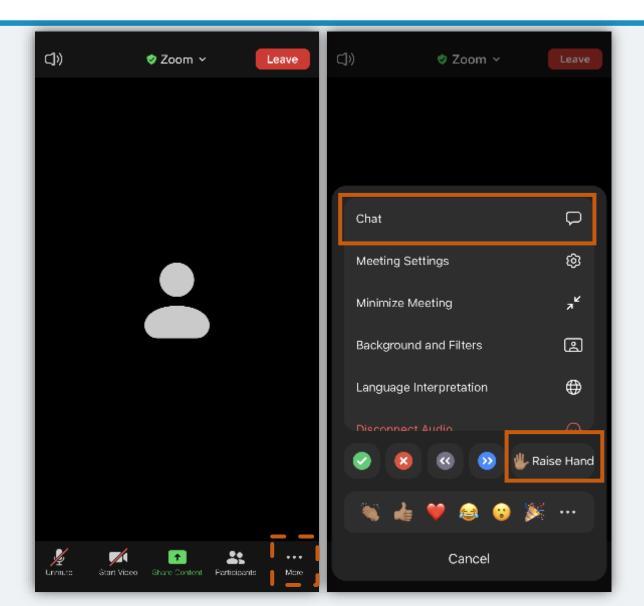
#### How to use Zoom // Cómo Usar Zoom



#### How to use Zoom // Cómo Usar Zoom



#### On your Phone // En su teléfono móvil











#### Role of Working Groups



**TRANSPORTATION** 

**LAND USE & NATURAL** 

**CLIMATE SOLUTIONS** 

#### **Engagement Portal**

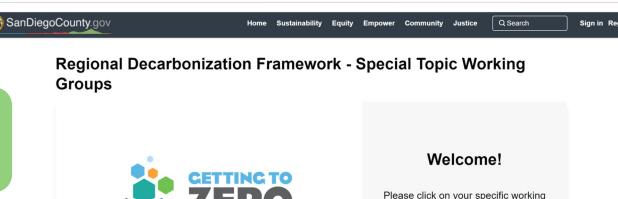
- Special Topic Working Group Engagement Portal: <a href="https://engage.sandiegocounty.gov/hub-page/working-groups">https://engage.sandiegocounty.gov/hub-page/working-groups</a>
  - Central area where all workshop materials, agendas, recordings, notes etc.
     will be stored.
  - Can also access the 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



group(s) below to be directed to your working group page.

#### Today's Agenda

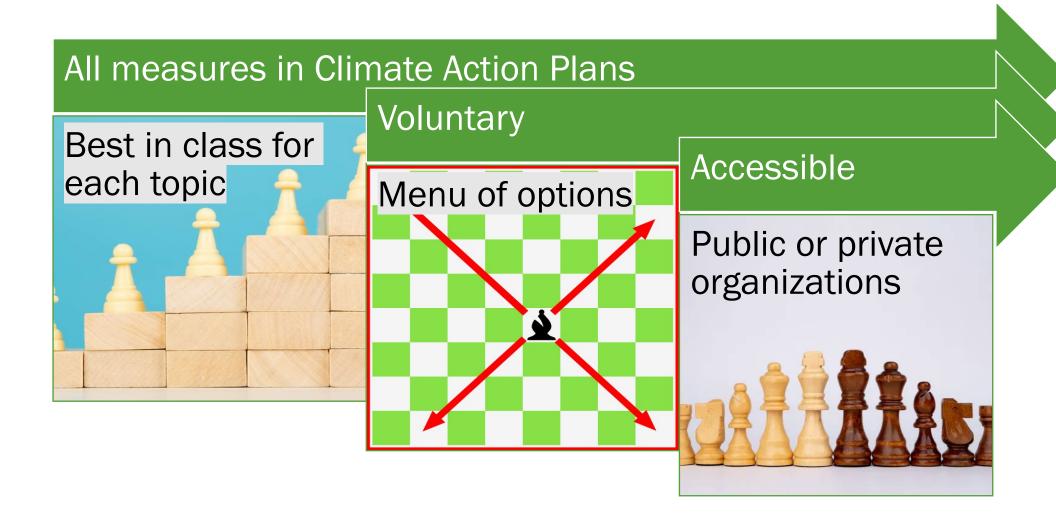
- Introduction to the Implementation Playbook (10 minutes)
- Food Systems & Circular Economy (90 minutes)
  - Regional Emissions (5 minutes)
  - Waste Reduction Introduction (5 minutes) and Discussion (20 minutes)
  - Methane Capture and Use Introduction (5 minutes) and Discussion (20 minutes)
  - Sustainable Agriculture Introduction (5 minutes) and Discussion (20 minutes)
  - Open Discussion on Food Systems & Circular Economy Not Discussed (10 minutes)
- Closing (5 minutes)

#### **Integrated Regional Decarbonization Framework**



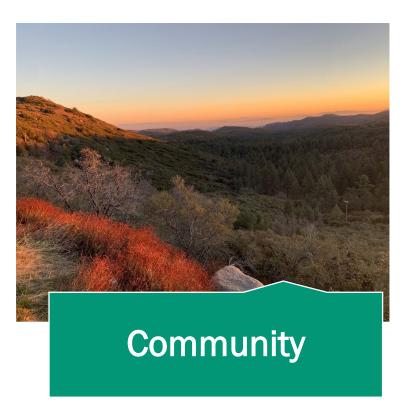
www.sandiegocounty.gov/RDF

#### Implementation Playbook



#### Implementation Playbook: Level of Approach

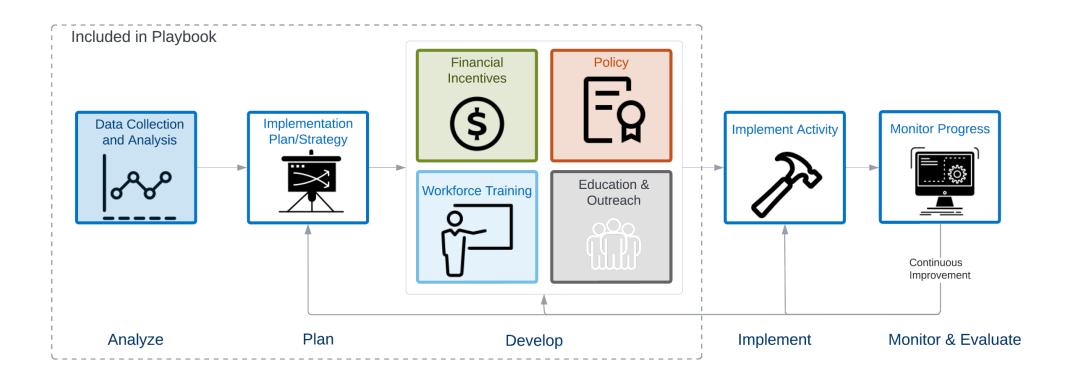






#### What we are looking for today:

- 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?





## Food Systems & Circular Economy

#### 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% Solid Waste



2%

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



4%

Off-Road Transportation

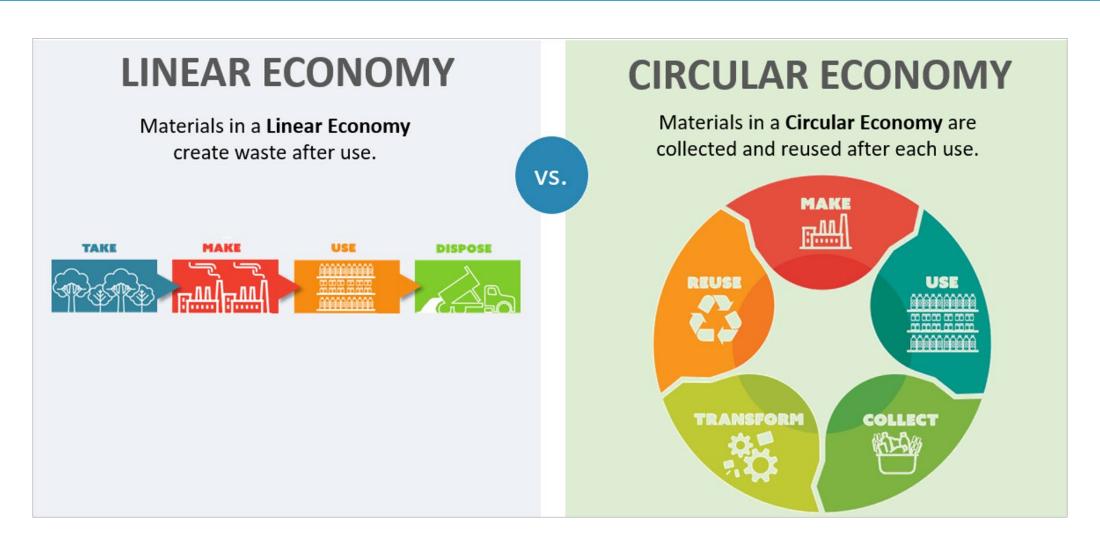


4%

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

1% or less each

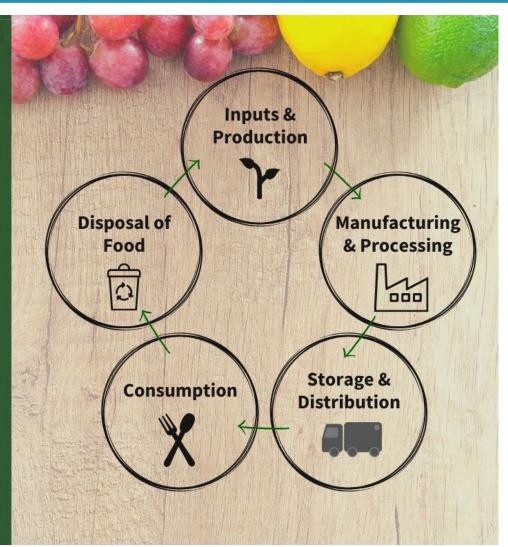
#### What is a Circular Economy?



#### How can a food system be a solution to GHG emissions?

## COMPONENTS OF THE FOOD SYSTEM

All of these components are interconnected and impact the social, environmental, and economic conditions of a population.











#### Food Systems & Circular Economy – GHG Reductions



#### Waste Reduction

Diversion and Recycling



#### Methane Capture and Use

- Landfills
- Wastewater treatment plants
- Livestock operations



#### Sustainable Agriculture

- Agriculture easements
- Carbon-farming practices
- Urban gardens

#### Waste Reduction - Laws and Programs

- State Law/Regulation
  - SB 1383
    - Requires 75% reduction of organic waste disposal by 2025
    - Requires at least 20% of current disposed edible food be recovered
  - AB 1826
    - Requires certain business to recycle organic waste





#### Waste Reduction - Other Key Considerations

## Diverted organic waste can be used in several ways

- Compost
- Converted to biomethane
- Create a higher value products
  - Grains from beer making used to create other products
  - Grains from beer making used to feed livestock

Capacity to process organic waste is lagging in the San Diego region



#### Waste Reduction - Example Actions







### Organizational Operations

- Adopt a zero waste plan and policy for facilities and operations
- Purchase products with recycled content or that are compostable

#### Community

- Adopt a zero waste plan and policy for an entire city or county
- Adopt policies to require construction waste recycling

#### Region

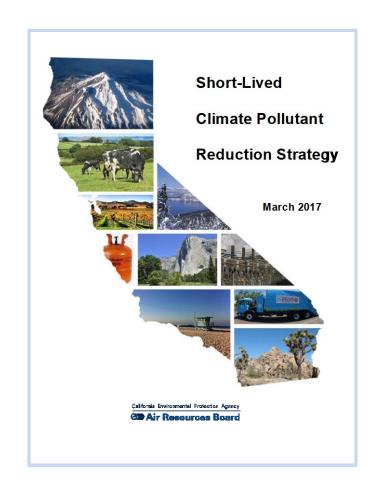
- Develop regional capacity to accommodate organic waste flows
- Develop programs to support diversion of edible food

### **Waste Reduction Discussion**

#### Methane Capture and Use- Laws and Programs

- State Law/Regulations
  - CARB Landfill Methane Control Measure (LMCM)
  - CARB Short-Lived Climate Pollutant Strategy
- SB 1383
  - Permits CARB to regulate livestock emissions after 1-1-24





#### Methane Capture and Use- Other Key Considerations

#### Reducing methane can have immediate impact on climate

Higher climate warming impact than carbon dioxide

High levels of capture at landfills and Wastewater Treatment Plant

Few dairies in the San Diego region

Waste already in landfill will continue to produce methane

#### Methane Capture and Use - Example Actions







## Organizational Operations

 Landfill or Wastewater Treatment Plant owners adopt target to capture 100% of methane

#### Community

 Local jurisdictions can advocate for increased methane capture at landfills and Wastewater Treatment Plant

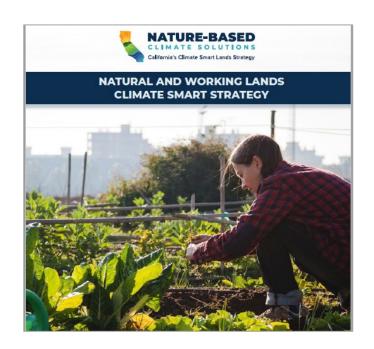
#### Region

- Conduct analysis of methane emissions in the San Diego region
- Develop a regional methane reduction strategy

## Methane Capture and Use Discussion

#### **Sustainable Agriculture – Laws and Programs**

- State Law
  - SB 27
    - Natural and Working Lands Climate Smart Strategy
  - Executive Order N-82-20
    - Conserve 30% of land and coastal waterways by 2030 (30x30)
- Healthy Soils Program
  - Financial incentives to implement strategies to remove and store carbon
- Farm Bill (2023)





#### Sustainable Agriculture - Other Key Considerations

San Diego region's farming community is characterized by hundreds of small farms – small proportion of regional emissions

#### Food system

- Food consumed in San Diego region was produced elsewhere and transported
- Energy required at all points in supply chain
- Locally-produced food can require less energy and have lower emissions

#### Sustainable Agriculture - Example Actions







## Organizational Operations

- Breweries provide spent grain for animal feed
- Preference to purchase locallyproduced food

#### Community

- Support urban gardens
- Develop programs to encourage preservation of agricultural lands

#### Region

- Analyze potential and opportunities for carbon farming
- Develop programs to promote best practices in carbon farming

## Sustainable Agriculture Discussion

## Open Discussion – Food Systems & Circular Economy



#### County of San Diego

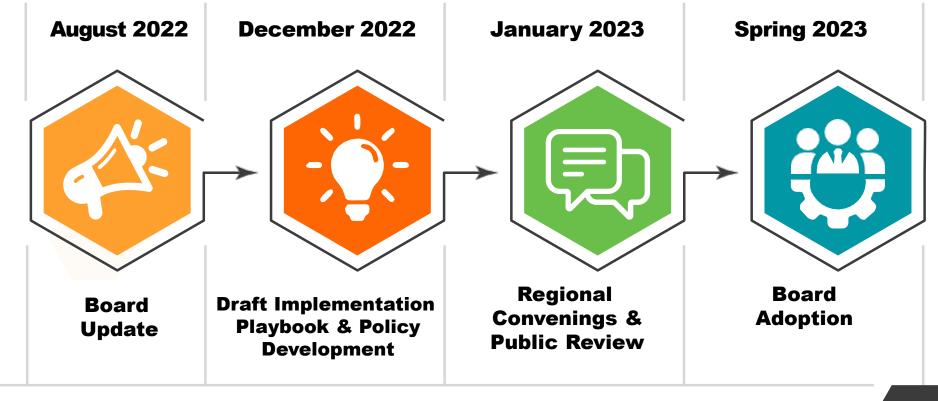


# Food Systems & Circular Economy Working Group

September 22, 2022

## Additional Slides for Q + A

#### **Timeline**



PROGRAM DETAILS

Public Workshop

Completion of Technical Report & Workforce Development Reports

Special Topic Working Groups Implementation
Playbook 1st
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

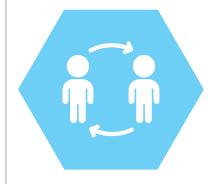


Oct 2022

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