



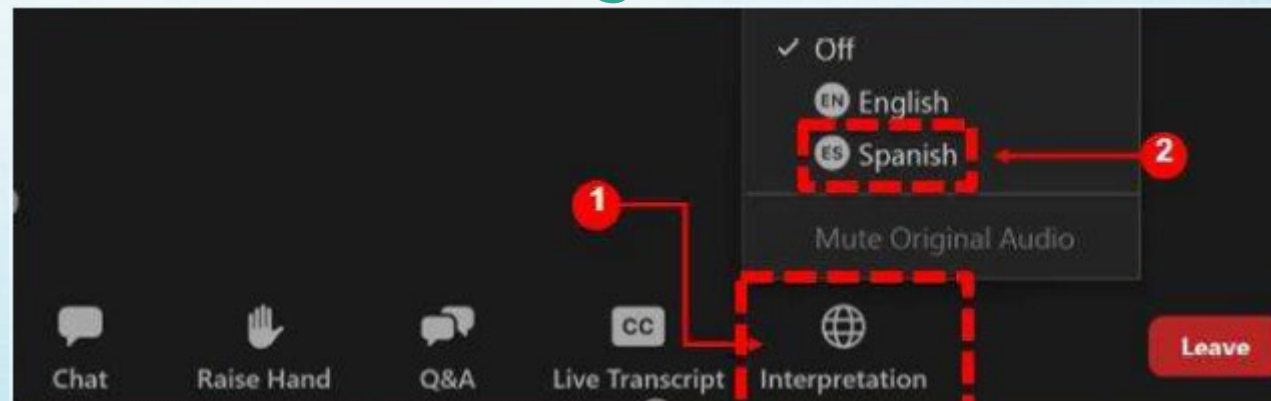
# **California Satellite Methane Project: Grant Solicitation Development**

April 24, 2025

# Selecting Language Interpretation

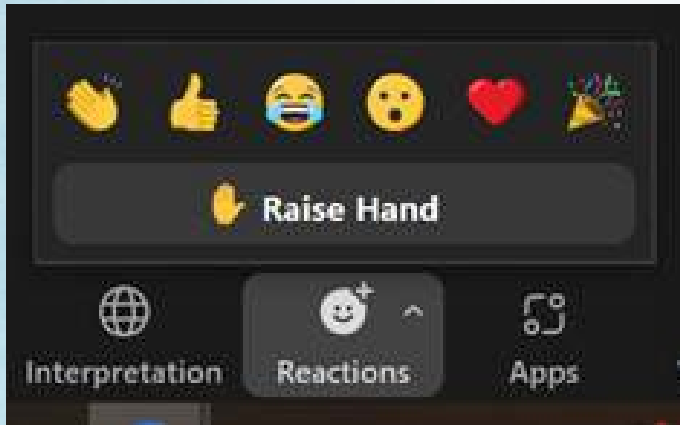
## Seleccionar la interpretación de un idioma

1. In your meeting/webinar controls, click **Interpretation**. If not, click **"More"**/ En los controles de la reunión, haga clic en **(Interpretation)**, si no haga clic en **"More"**.
2. Click the language that you would like to hear. Options for this meeting are English and Spanish./ Haz clic en el idioma que desee escuchar. Para esta reunión, hay las opciones de Inglés y Español.
3. To only hear the interpreted language (Spanish), click **Mute Original Audio**./Para escuchar solo el idioma interpretado (español), haz clic en **(Mute Original Audio)**.





# How to Participate



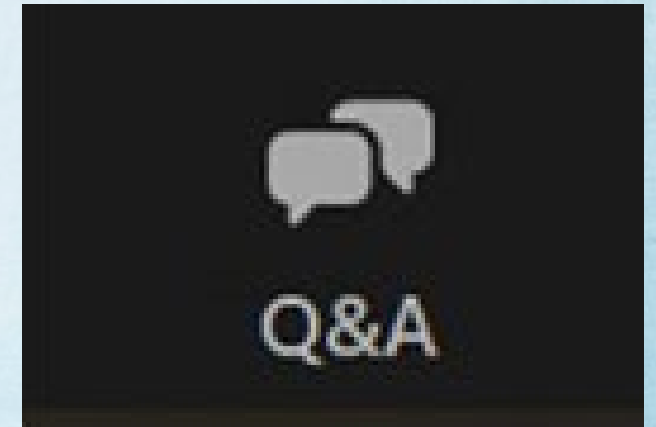
## Raise Hand via Zoom

1. Select the "Reactions" button, then the Raise Hand option.
2. The host will be notified that you've raised your hand.
3. Click Lower Hand to lower it.



## Raise Hand via phone:

- Dial \*9 to raise and lower your hand



## Q&A:

- Type your comments or questions into the Q&A Box

# Technical Support



**Please reach out for help if you have any technical challenges!**

Contact Bobbi Ruch by email at [Roberta.Ruch@arb.ca.gov](mailto:Roberta.Ruch@arb.ca.gov)

# Meeting Agenda

1. Presentation
  - Methane background
  - Satellite methane measurements
  - Community Engagement Grant background
2. Discussion
  - Facilitators will lead discussions to collect ideas for the Community Engagement Grant
3. Closing



# Methane Impacts and Sources

- Methane is a powerful, non-toxic greenhouse gas
  - Second largest contributor to climate change after carbon dioxide
  - Methane is non-toxic and the concentrations and conditions for it to pose a safety risk are rare
  - Potential methane sources that can be detected from satellite include oil and gas infrastructure, landfills, and dairies



# California Satellite Methane Project History

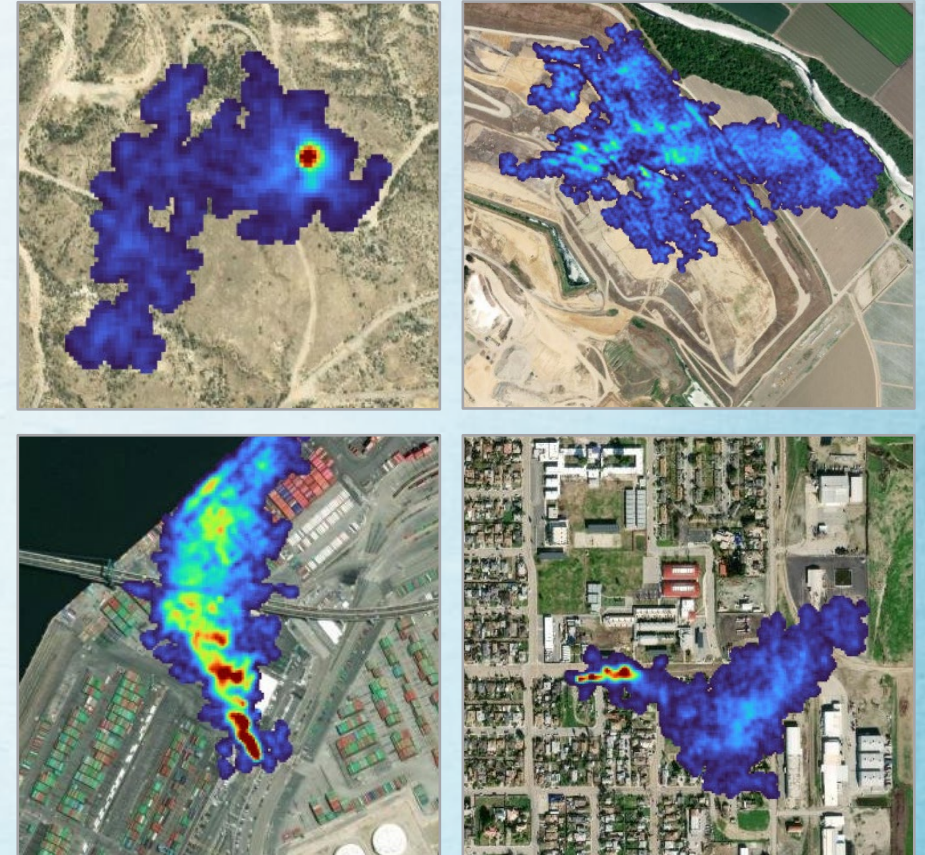
- Over 10 years of research has shown the effectiveness of remote sensing methane plume detection technology
- Aircraft studies done in 2016-2018 and 2020-2023
- California Satellite Methane Project (CalSMP) expects to begin receiving data in May 2025
  - Basic information from the satellite(s) will provide CARB with data so we can take action on leaks





# Methane Plume Imaging

- The satellites use state-of-the-art emissions sensing technology to record images of methane leaks
  - These appear as plumes trailing away from the source of interest
- There are multiple commercial companies using this type of technology
- California does not own the satellite and will pay only for the cost of the data selected by state agencies



Examples of methane plumes detected during aircraft campaigns.



# Methane Mitigation



- CalSMP data finds leaks that can be repaired through:
  - Methane regulations
  - Voluntary operator repair
- Methane regulations and programs:
  - Oil and Gas Methane Regulation
  - Landfill Methane Regulation (amendments underway - considering remote sensing)
  - Dairy Digester Research and Development Program

# Methane Mitigation (continued)

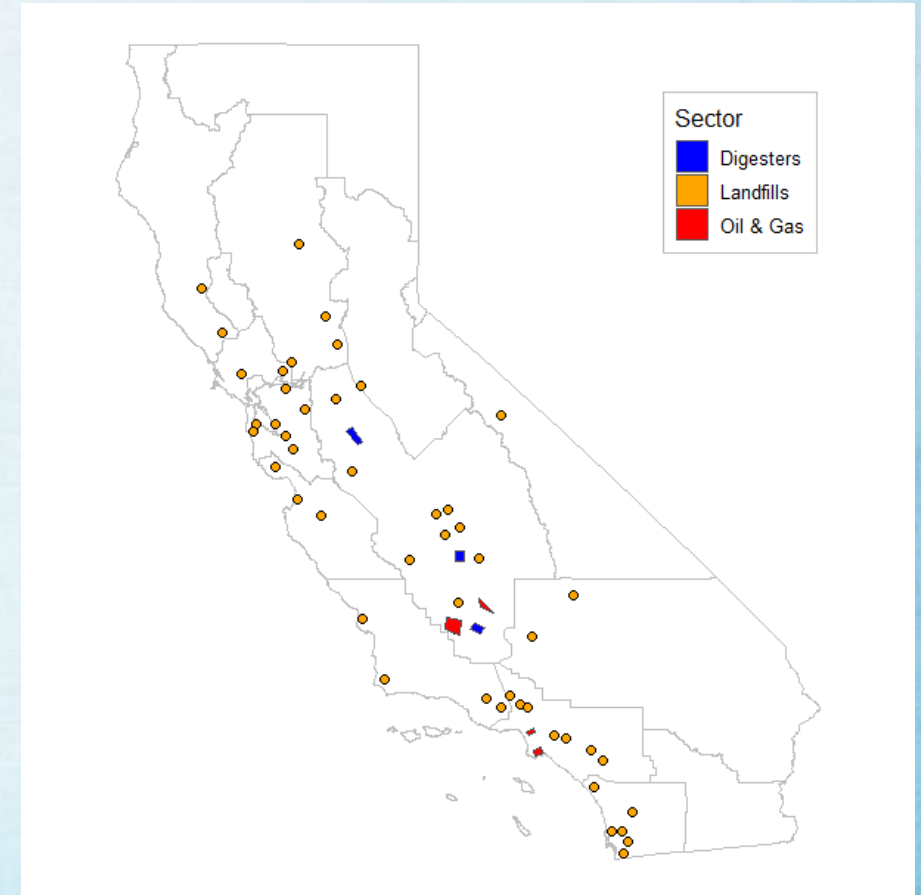


- Follow-up observations may be used to verify repairs
- Satellite data and operator responses may highlight recurring problems
- A small portion of plumes may be close to communities and will be prioritized for action.



# CalSMP Observations

- Satellites will target specific areas for observations
- Areas of interest for satellite observations over California
  - Large landfills
  - Oil and gas operations
  - Dairies
- Aiming for regular observations (weekly to monthly)
  - Frequency and coverage will increase as the number of satellites increases



Draft map of areas that may be targeted for observations

# Community Grant

- \$5 million in grant funding has been approved by the State Legislature to develop and implement community engagement plans
- In the coming months, CARB plans to release a grant solicitation to begin the process to distribute this funding
- Looking for feedback on specific aspects of the solicitation
- The funding has some administrative constraints
  - Total funding
  - Length of contract



# Community Grant Goals

- To fund community outreach efforts to ensure satellite methane observations are accessible, understandable, and useful to communities
- Create resources that community-based organizations (CBOs) can use to work with community members to learn about methane and the CalSMP project
  - Materials may include videos, pamphlets, posters, and more
- Develop communication pathways and protocols between CARB, CBOs, and community members on methane plumes in their area

# Potential Grant Structure

- The grant may be managed by a third-party administrator that will:
  - Award sub-grants to and oversee CBOs in developing the community engagement plan
  - Provide recommendations on protocols to inform communities when leaks are found
  - Provide training and assistance for communities to interpret the data
- Third-party administrator and CBOs will develop training materials and hold regular community meetings. Though the third-party administrator will lead these efforts, CARB may attend.



# Discussion Topics

- We will separate into breakout rooms to discuss the grant solicitation
- Each room will have a facilitator who will walk through specific questions on several different discussion topics
  - Selecting the third-party administrator(s)
  - Selecting CBO sub-grantees
  - The Community Engagement Plan
  - Training materials
  - Final Deliverables

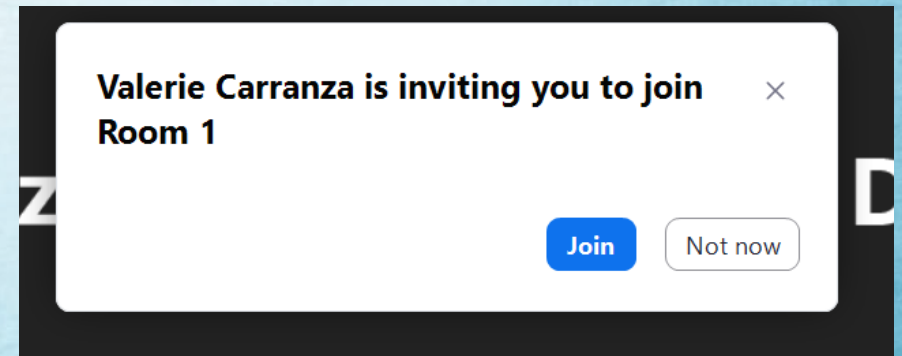
# Questions?

- If you have questions, please raise your hand or submit your questions through "Q&A".
- Other ways to provide feedback:
  - Please submit any written comments by May 23, 2025
  - If you or your organization wish to have an independent discussion about the grant solicitation, please reach out to schedule a meeting
  - All comments and meeting requests should be sent to [CalSMP@arb.ca.gov](mailto:CalSMP@arb.ca.gov)



# Discussion Logistics

- You will be randomly assigned a breakout room
- If you need a breakout room conducted in Spanish or are able to participate in a Spanish breakout room, click “Not now” when invited to join a breakout room; for English, chose “Join”
- Each group will have a facilitator and notetaker
- After the discussions, we’ll return to the main room and hear the highlights of the discussion from each room



# Other Ways to Provide Feedback

- Please submit any written comments by May 23, 2025
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