



Statewide Mobile Monitoring Initiative

# Community Meeting #1

April 5, 2025





The Statewide Mobile Monitoring Initiative is part of California Climate Investments, a statewide initiative that puts billions of Cap-and-Trade dollars to work reducing greenhouse gas emissions, strengthening the economy, and improving public health and the environment – particularly in disadvantaged communities.



## Tri-Valley Air Quality Climate Alliance

**Our Mission:** communicate science-based understanding of air quality in the Tri-Valley area, listen to community **feedback**, **collaborate** with interested parties, and **promote actions** that will effectively reduce emissions, mitigate health impacts, and reduce climate change.

- Not for profit
- Serving the Tri-Valley Community for 5 years
- Paid staff and volunteers with science, engineering, communication, and legal specialties

[www.tvaqca.org](http://www.tvaqca.org)

# Welcome and introductions

---

## Today's Facilitator(s):



**Tom Edmunds**  
Co-Chair



**Terry Chang**  
Operations



**Annie Chen**  
Communications



**Fabjola Kasaj**  
GIS mapping



**Ron Baskett**  
Founder,  
Chief Scientist

# Today's agenda:

---

1. Project overview
2. Decision-making process
3. Air pollution survey data
4. Community concerns

## *Break*

5. Defining the monitoring boundary
6. Next steps



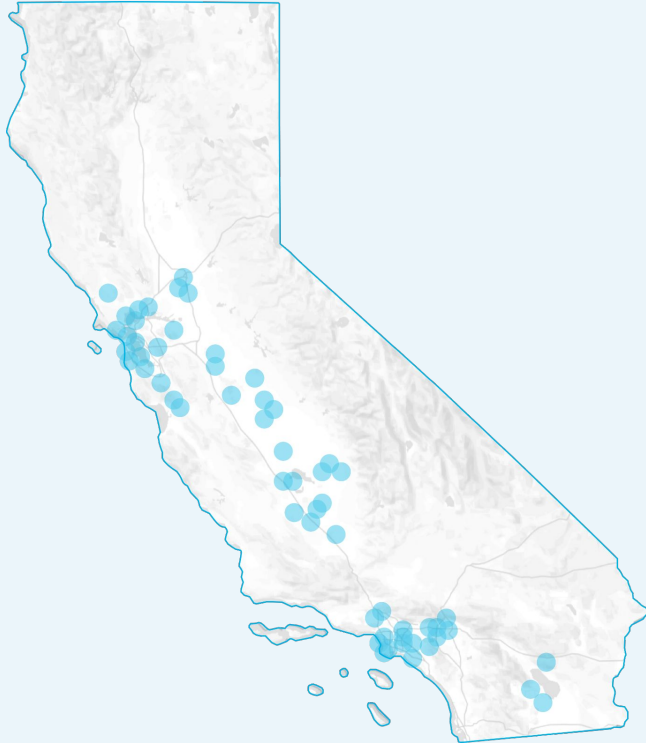
# Project Overview

---



# The Statewide Mobile Monitoring Initiative

---



The California Air Resources Board (CARB) contracted Aclima to develop **Community Air Monitoring Plans (CAMPs)** for and collect and analyze air quality data in the **64 Consistently Nominated Communities (CNCs)**.

Through CAMP development and implementation, SMMI putting communities in a better position to develop strategies for emissions reduction.

# How does Aclima monitor Air Quality?

Aclima measures pollution using a combination of sensors attached to hybrid or electric vehicles.

These vehicles are called **Aclima platforms**.



*Air quality sensors within the Aclima platform*





# What pollutants will we measure?

## Broad Area Monitoring



- Fine Particulate Matter ( $PM_{2.5}$ )
- Black Carbon
- Nitrogen Oxide ( $NO$ )
- Nitrogen Dioxide ( $NO_2$ )
- Ozone ( $O_3$ )
- Carbon Monoxide ( $CO$ )
- Carbon Dioxide ( $CO_2$ )
- Methane ( $CH_4$ )
- Ethane ( $C_2H_6$ )
- Total Volatile Organic Compounds (VOCs)

## Targeted Area Monitoring



*All of the same pollutants, plus:*

- Heavy Metals (e.g. arsenic, lead)
- Particulate Matter (e.g. ultrafine,  $PM_{10}$ )
- Gases and VOCs (e.g. formaldehyde)

# What will the data look like?



**Pollutant levels over a space**

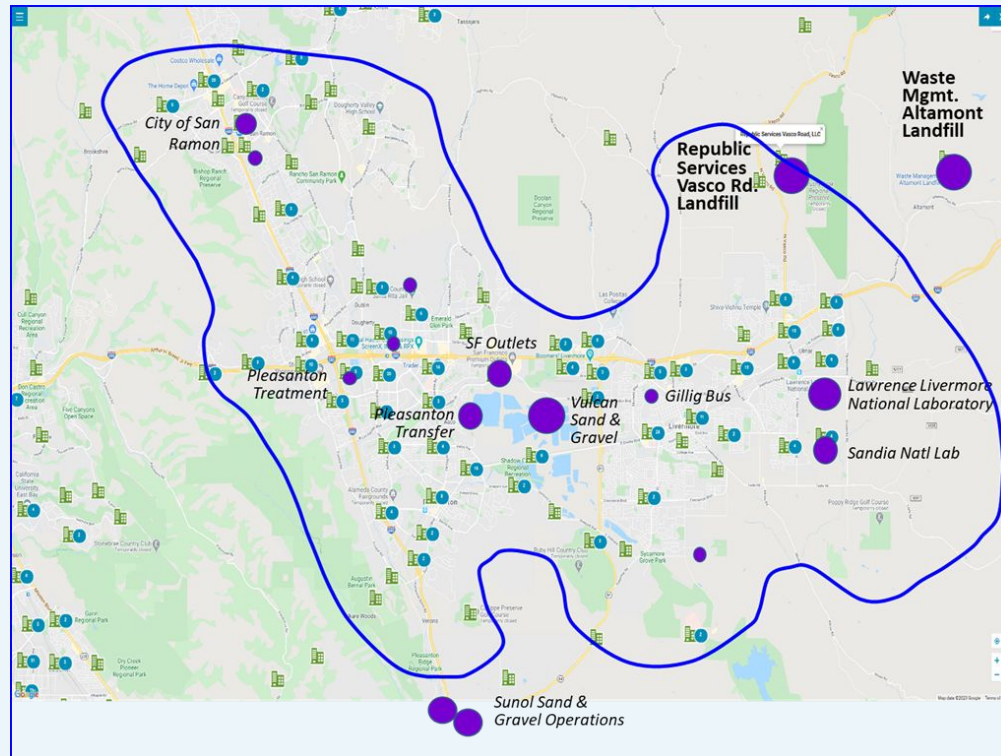


**Pollutant “hot spots”**

# How can residents guide air quality monitoring in their communities?

Residents – especially those from frontline communities – can tell us where to focus monitoring resources.

What communities tell us will define the **Community Air Monitoring Plan (CAMP)** - which determines how monitoring takes place in that community and where Aclima platforms will drive.





# When will the monitoring happen?

---

- Aclima will deploy its monitoring vehicles by **June 2025**
- The cars will monitor for **nine months** at different times of day, days of week, and times of season
- Aclima will maintain project updates for each community on its website: [www.aclima.earth/ca-smmi](http://www.aclima.earth/ca-smmi)



# When will the data be available?



**Spring 2026:**



- StoryMaps available with content related to each Consistently Nominated Community

**May 2026:**



- Project results webinar by region
- Final report and StoryMaps published

**Summer 2026:**



- Data available on CARB's website for download



- 
- **Your Concerns on Air Quality**
    - **Thought exercise**
    - **Survey**
      - Tutorial for mobile users
      - Tutorial for PC users
    - **Community engagement activity**

# Your Concerns on Air Quality

**Write down on your phone/paper:** Which of the following describes your air pollution concern?



**Specific  
Facility**



**Facility's  
Truck  
Traffic**



**Type of  
Pollution  
Source**



**Community  
Health &  
Well-Being**



**Identifying  
Most  
Impactful  
Facilities**



**Identifying  
Impacted  
Locations**

Describe the location of the source(s) and/or the impact zone(s).

What kind of pollution do you think is there?

What do you most want to know about?

# Your Concerns on Air Quality: Survey

**Begin the survey by scanning the QR code:** Approx 15-minute survey, \$15 gift card from Aclima for verified response



For PC users, type in browser:  
[TinyURL.com/2025SMMI](https://TinyURL.com/2025SMMI)

Tutorial in the next slide

# Your Concerns on Air Quality: Survey Tutorial (Mobile)



**Move map:** Zoom in/out (purple +/- icons) or drag

**Add point:** One tap

**Add line:** Tap along line, and tap “done” (you can “undo” a wrong tap)

**Add area:** Tap to draw a closed shape (you can “undo” a wrong tap)

**Delete point, line, area:** Tap to see window that gives you a “delete” option

# Your Concerns on Air Quality: Survey Tutorial (PC)



**Move map:** Zoom in/out (purple +/- icons) or drag

**Add point:** One click

**Add line:** Click along line, double click on ending point to stop (you can “undo” a wrong click)

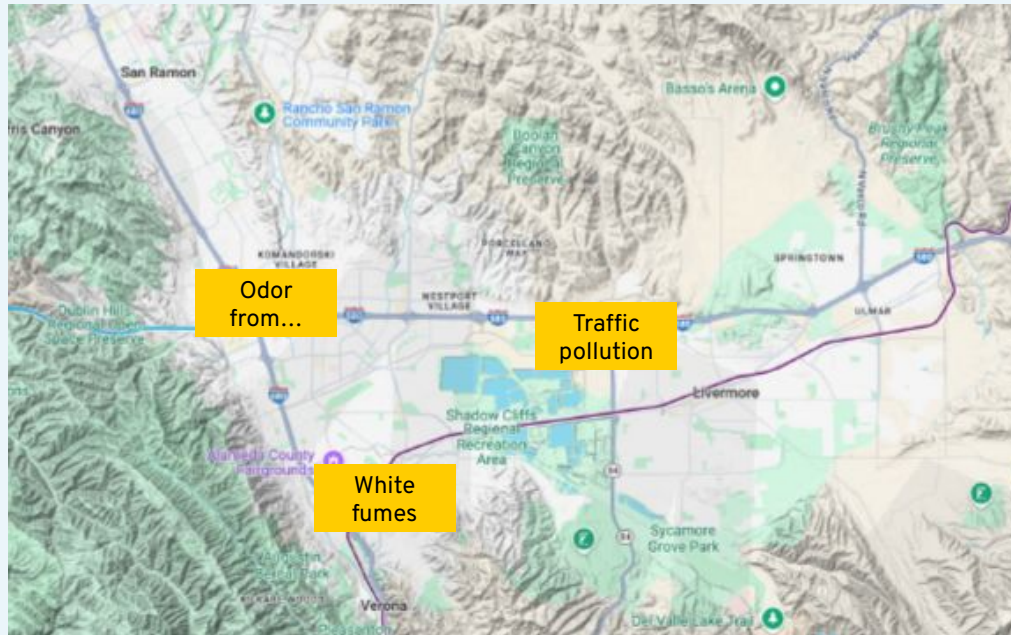
**Add area:** Click to draw a closed shape (you can “undo” a wrong click)

**Delete point, line, area:** Right click to see window that gives you a “delete” option



# Your Concerns on Air Quality: Community Activity

Please come to the front, write down air quality concerns on a post-it, and put it on our maps

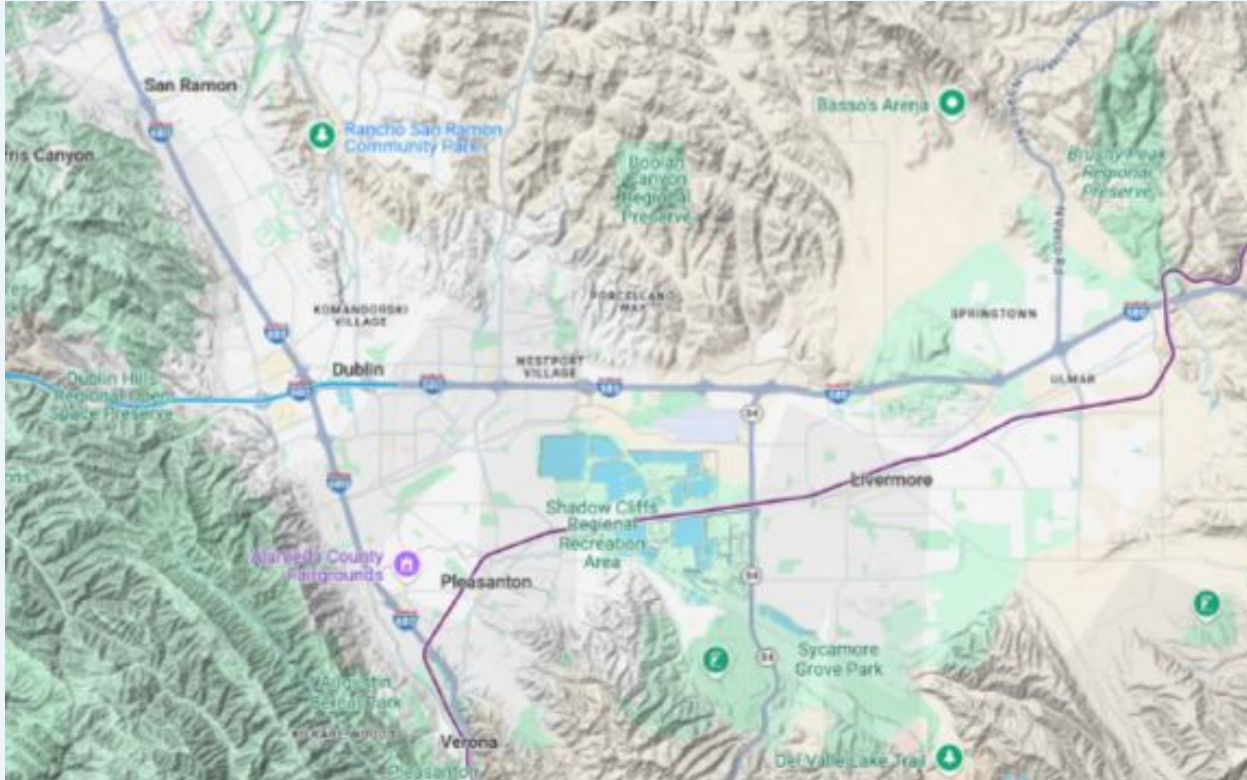


# Demonstration

---



## Defining the monitoring boundary



# Next Steps

---



# What Happens Next?

---

- Aclima will draft an **air monitoring plan** for the Tri Valley based on survey results and what you said in this meeting
- At the next meeting, you will see what is in the draft plan and you can talk about any changes you want to make
- TVAQCA will host **Meeting 2** on **May 3** at this location where Aclima will present their air monitoring plan
- Community members can continue to fill out the survey until that time



# Meeting Feedback



What worked about this meeting?

How can we make the next meeting better?

# See You for Meeting #2!

---

## Purpose of Meeting 2:

Review and make recommendations to change the **Draft Community Air Monitoring Plan**, including the monitoring boundary.

You may be compensated for your participation (limited supply), and light refreshments will be provided.

## Date & Location:

**Livermore Library (Civic Center)**

May 3, 2025 2-4 pm (Saturday)

Register now to attend



For PC users, type in:  
[TinyURL.com/SMMIMeeting2](https://TinyURL.com/SMMIMeeting2)

# Project Timeline



# Reminder



Remember to sign in on the **vendor agreement sheet**  
to be compensated for participation!

# Project Contact Information



[aq.team@tvaqca.org](mailto:aq.team@tvaqca.org)

[www.tvaqca.org](http://www.tvaqca.org)



# Thank you to our project partners for your commitment to protect California air quality.

[www.aclima.earth/ca-smmi](http://www.aclima.earth/ca-smmi)

