



COALITION FOR  
**CLEAN AIR**

# About us

## What we do



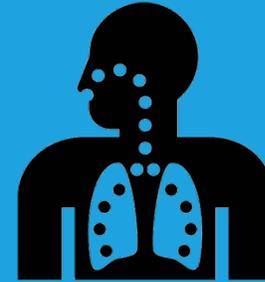
Protect public health, improve air quality, and prevent climate change

## How we do it



Bring interested parties together to find solutions to pressing air quality issues

## Why we do it



9 out of 10 Californians breathe air that violates clean air standards



# CLEAR

Community Learning Enhances Air Resources

# What is CLEAR?

CCA's program to help make the invisible visible through community air quality monitoring and STEM education





# Why make air visible?

Scientific studies conclusively show that minimizing children's air pollution exposure provides benefits for their lifetime.



“Living in proximity to a freeway, refinery, major industry and other factors such as time of day can be the difference between ‘good’ and ‘hazardous’ levels of exposure.”

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South Coast Air Quality  
Management District, 2013

# Community Air Monitoring

The air quality monitoring program provides a means to make community members aware of their exposure to unhealthy air with **real-time** data.

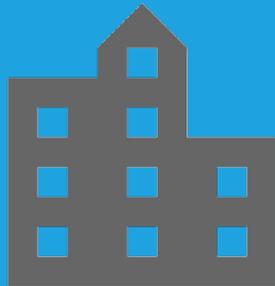


# Community Air Monitoring

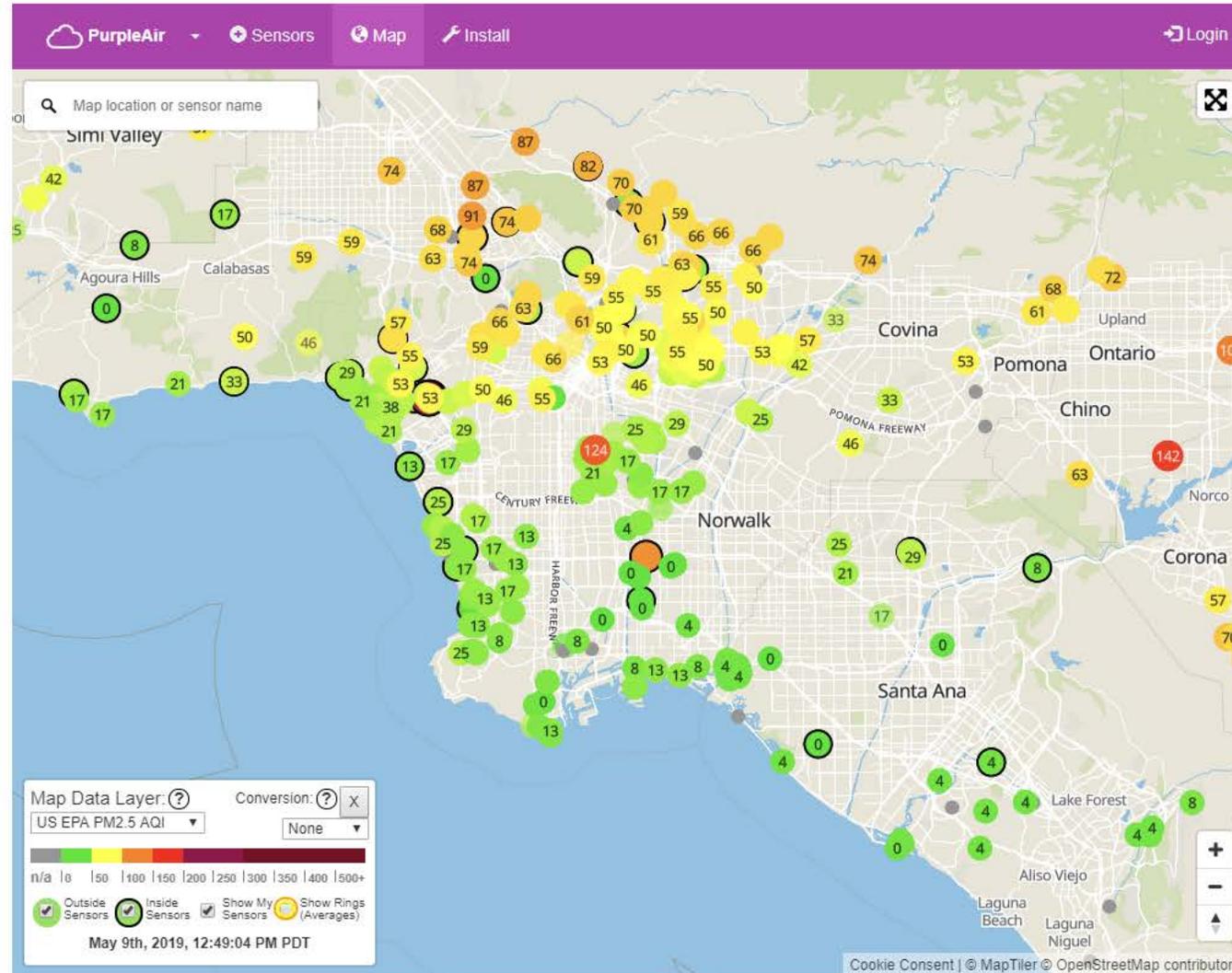
Since 2017, CCA has deployed almost 170 Purple Air particulate matter sensors at no cost to sensor hosts.

What's needed:

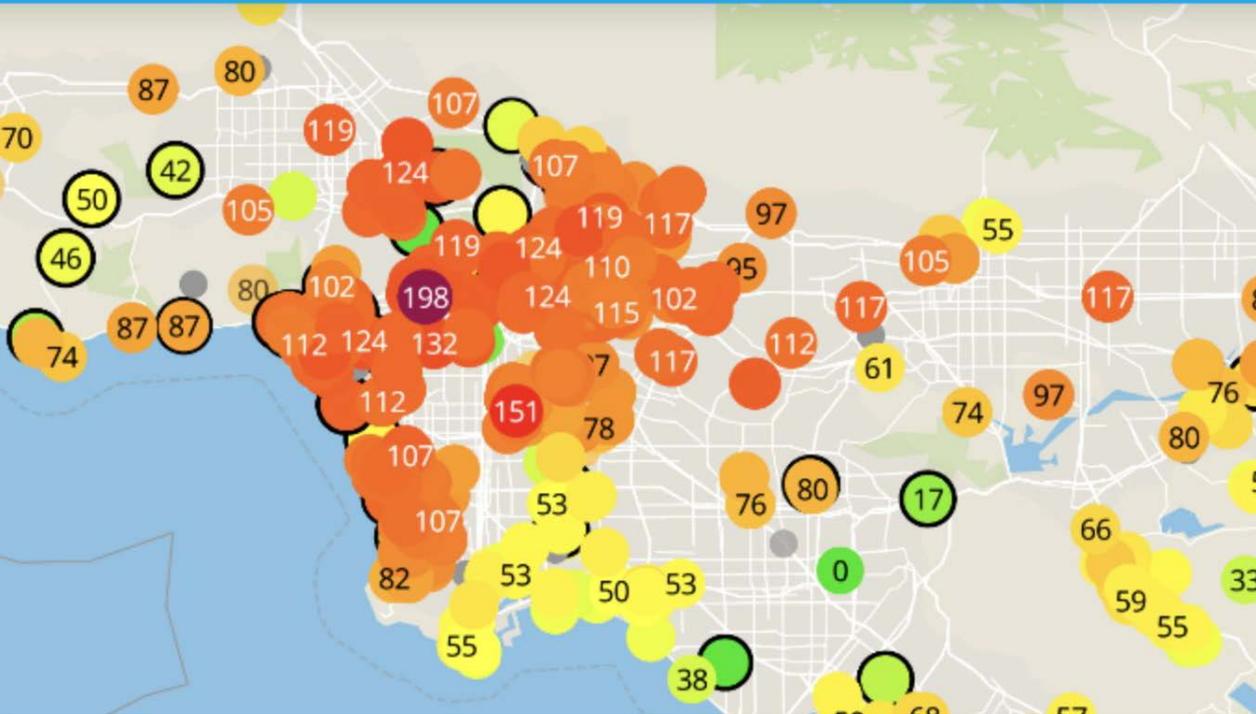
- A suitable, shaded or partially shaded location
  - An accessible outdoor power outlet
    - A stable Wi-Fi connection
    - A waiver release form



In California, air pollution is only monitored on a regional scale. That's 272 active monitors for 38 million people. This simply isn't enough. It has been well documented that air pollution can vary greatly by location and geography. Living within close proximity to a freeway, refinery, major industry and other factors such as time of day can be the difference between "good" and "hazardous" levels of exposure.

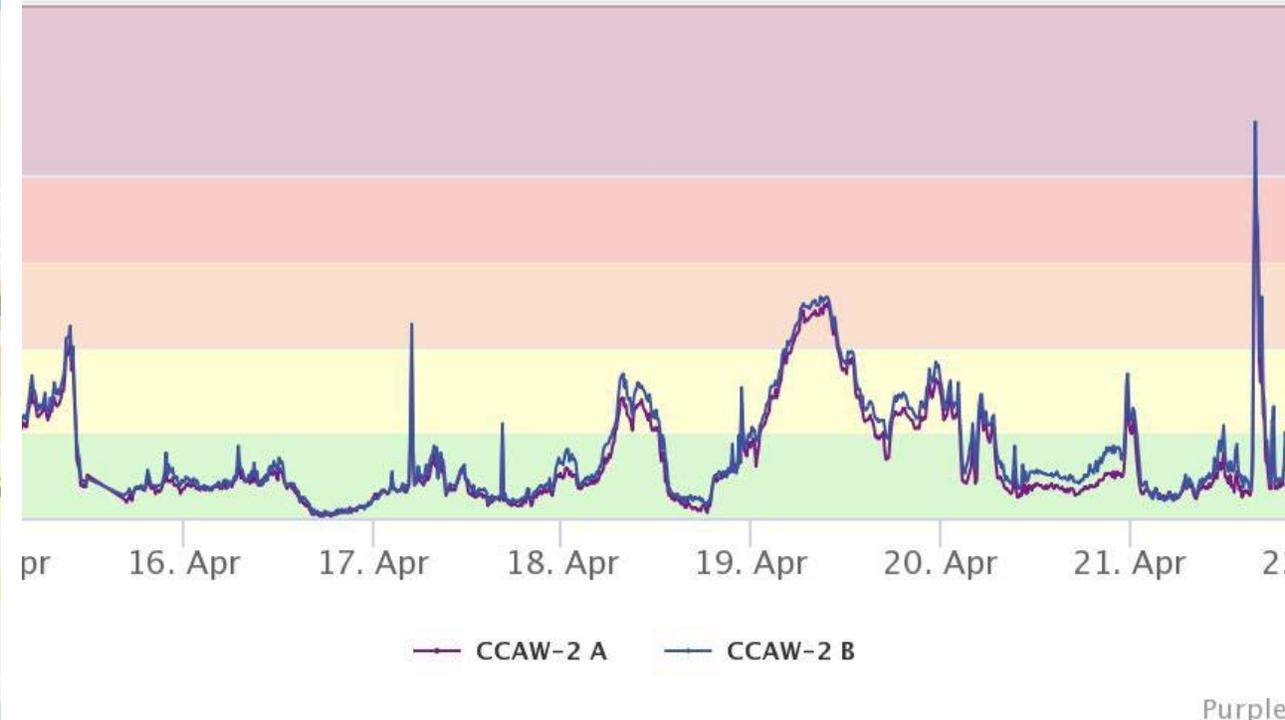


**HOST A MONITOR**



Left: April 25<sup>th</sup> PM 2.5 Readings

## US EPA PM2.5 AQI



Right: PM 2.5 readings during April 22<sup>nd</sup> auto dismantler fire in Wilmington

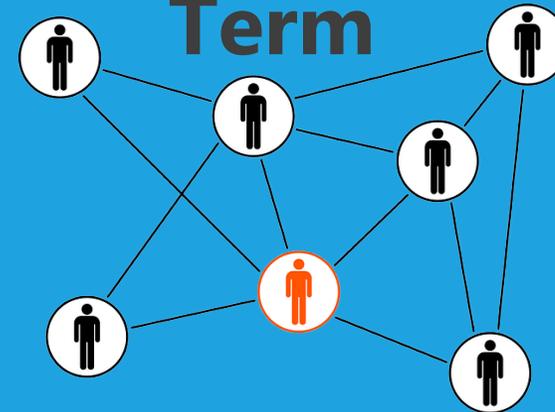
# Community Air Monitoring Goals

## Near Term



Maywood AB 617  
Community Air  
Monitoring &  
Alameda Corridor  
Project

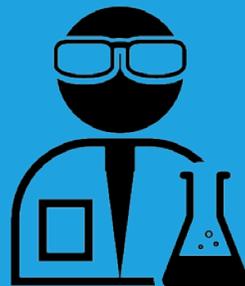
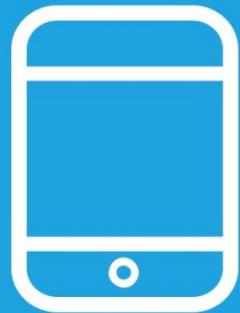
## Long Term



Thousands of monitors in homes,  
schools, & businesses. New  
networks for ozone, VOC, & GHGs.  
Full integration across multiple  
types of monitors

# CLEAR in Schools

A unique STEM program that takes advantage of students' natural affinity with technology by linking their mobile phones directly with air quality monitors and connecting with scientists and policy-makers in their community.





Recent school presentations at Hughes Middle School in Long Beach and Dana Middle School in San Pedro

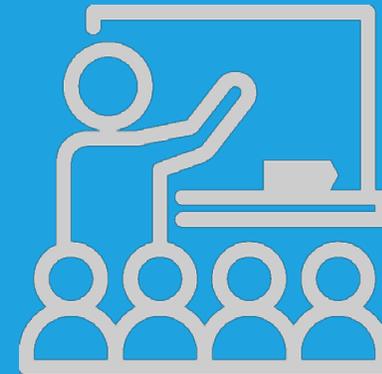
# Educational Goals

## Near Term

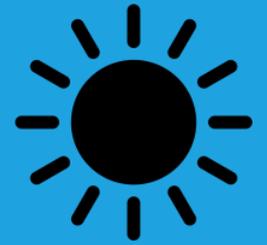


At least 2 Participating schools per year, one of which being a Title 1 school (majority of children from low-income families)

## Long Term



100 Participating schools representing a wide geography in California, with at least half classified as Title 1 schools



# Let's CLEAR the air together!

**To Participate:**

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