



BAY AREA AIR QUALITY
MANAGEMENT DISTRICT



valley vision
Community Inspired Solutions

From Funding to Impact

A Roundtable Discussion on
Grant-Funded Community
Air Quality Monitoring Work



From Funding to Impact

A Roundtable Discussion on Grant-Funded Community Air Quality Monitoring Work



Moderator Sean Wihera

VP of Business
Development &
Partnerships at Clarity

Agenda

- 01** Introduction & Current Grant Funding Opps
- 02** Community Monitoring & the “Clarity Model”
- 03** Panelists Share Case Studies
- 04** Q&A and Roundtable Discussion



Meet the panelists!



Cecilia Mejia,
Brightline Defense

Program Coordinator



Trinity Vang,
Brightline Defense

Air Quality Organizer & Policy Researcher



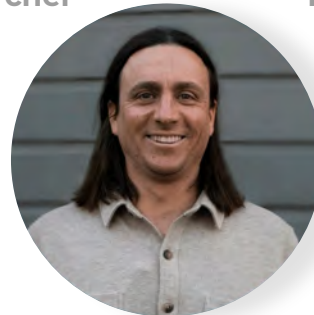
Adrian Rehn,
Valley Vision

Project Leader



Aubrey Burgess, Clarity (former Love My Air)

Environmental Project Manager



Michael Flagg, BAAQMD

Principal Air Quality Specialist

The growth of community air monitoring networks

2017 — California's Community Air Protection Program (AB 617)



Has provided >\$100M in funding to support dozens of community air management programs

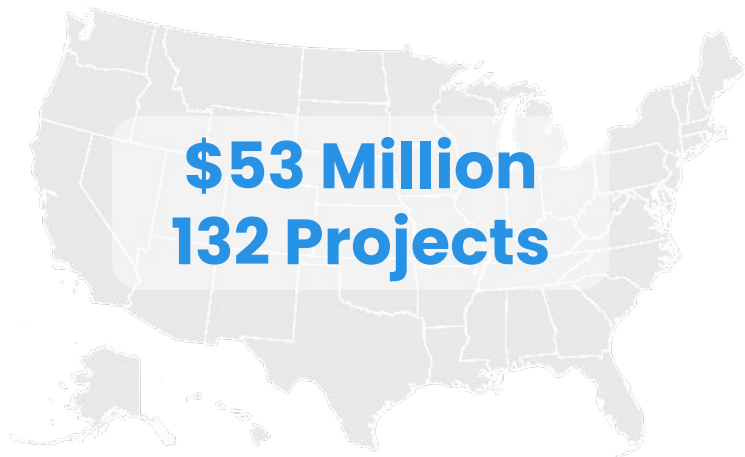
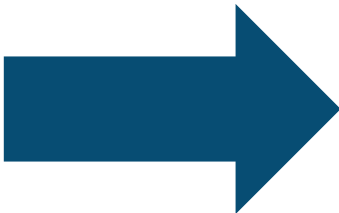


(Source: California Air Resources Board)

2022 — U.S. EPA Enhanced Air Quality Monitoring for Communities Program



Awarded \$53.4 million in funding for 132 air monitoring projects in 37 states



\$53 Million
132 Projects

Example current EPA air quality funding opportunities

<p>EJCPS</p> <p><u>EJ Collaborative Problem-Solving Cooperative Agreement</u></p>	<p>EJG2G</p> <p><u>Environmental Justice Government to Government</u></p>	<p>EJ TCGM</p> <p><u>Environmental Justice Thriving Communities Grantmaking</u></p>	<p>CPRG</p> <p><u>Climate Pollution Reduction Grants</u></p>
<p>\$30M of funding ~83 projects</p>	<p>\$70M of funding ~70 projects</p>	<p>\$550M of funding 11 Grantmakers</p>	<p>\$5B of funding* Two phases</p>
<p>Eligible entities:</p> <ul style="list-style-type: none"> Community-based nonprofit organizations (CBO) Partnership of CBOs 	<p>Eligible entities:</p> <ul style="list-style-type: none"> State & CBO Tribe & CBO Local govt & CBO 	<p>Eligible Grantmakers:</p> <ul style="list-style-type: none"> CBOs or partnership of CBOs Tribal government & CBO Higher Education & CBO 	<p>Eligible entities:</p> <ul style="list-style-type: none"> States Air pollution control agencies Tribes & local govts

* Eligible entities can apply for planning grants to develop strong, local climate pollution reduction strategies, and then for grants to implement plans that have been approved by the EPA. This is a new program that will be informed by comments received via this request for public comment.

What makes community-led air monitoring successful?

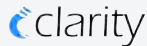


**Air
Monitoring**

alone is not enough...

Introducing the “Clarity Model” for AQ Management





Bloomberg Philanthropies

Working together with Global Action Plan, GOSH has launched a Clean Air Hospital Framework which sets out how to become a clean air hospital and provides a clear and structured pathway to getting there. Hospitals can use the framework to lead by example as role models, educators and champions.



Breathe London Node

Pre-deployment checks, free replacements and light completion with the London Air Reference Node makes the Breathe London Node the perfect small sensor for local air quality monitoring.

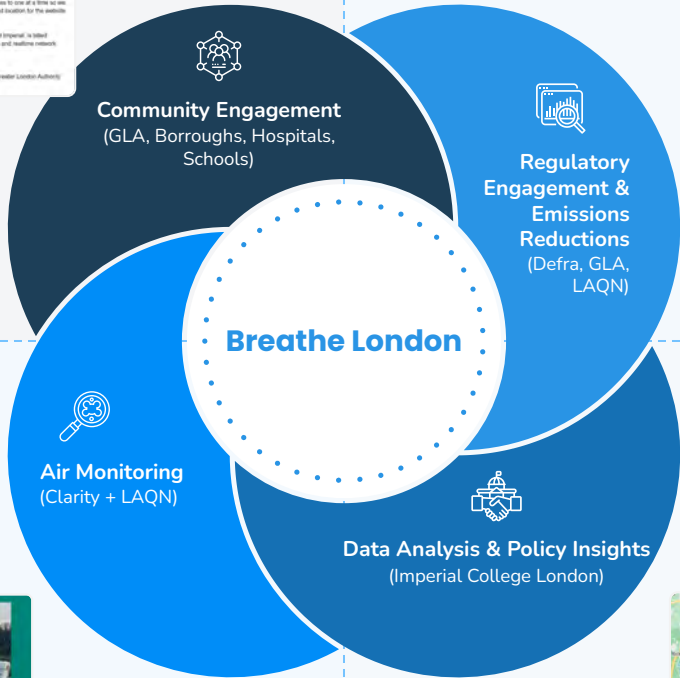
Detailed Description

Before you purchase a Breathe London Node, we encourage you to read our guide on choosing a good location for your Node and advice on making measurements. If you want to attach it to an IoT or Cloud-connected device, please check our developer information.

There is no limit on number of Nodes that can be purchased by any individual or organisation, but we limit purchases to one of a Node with the same calibration such as Node name and location for the device.

The purchase price is split between Clarity and Imperial to fund security, and includes pre-deployment checks and real-time network calibration.

No money for purchased Nodes goes to the Greater London Authority (GLA).



GREATER LONDON AUTHORITY

Imperial College London



Pre-deployment co-location

Prior to deployment every Breathe London Node is co-located at a London Air Reference site for two weeks. This allows us to check that the sensor is performing as the reference monitors.

This co-location provides us with a device-specific correction factor which is used for initial deployment into the field.



London ULEZ expansion achieved 92 per cent compliance rate in first month

Clarity Network for Frontline SF Communities

brightline
DEFENSE

 clarity

Brightline's Air Quality Monitoring Program

About Brightline

We are an environmental justice nonprofit organization, our primary mission is to empower communities and create sustainable environments.

Brightline is a recipient of

- California Air Resources Board: Community Air Grant
 - Brightline's Air Quality Monitoring Program
- Bay Area Air Quality Management District: James Cary Smith Grant
 - Brightline's Our Community Our Air

Brightline's Air Quality Programming Timeline



Jan
2020

Aug
2020

July
2021

Aug
2021

May
2022

Feb
2022

Kickoff AB 617 Meeting

Brightline first met with community partners and prepped for deployment.

AQ Sensors Pick Up Wildfire Smoke

21 Sensors are deployed and pick up initial wildfire smoke.

“Little Room to Breathe” Report

Brightline and partners interviewed 255 SRO building residents on air quality and health.

CARB Chinatown Tour

Convened CARB and BAAQMD staff to meet community leaders and tour Chinatown SROs.

NO2 Study with Clarity & BAAQMD

Brightline coordinated with BAAQMD, Bay Air Center and Clarity to add NO2 in our network.

Expansion with UC Berkeley

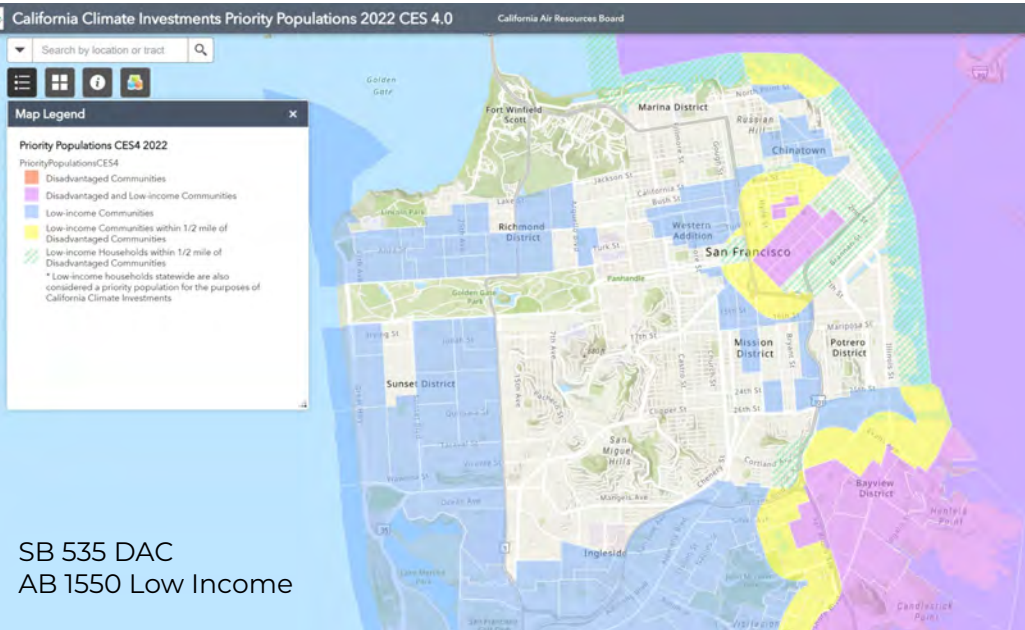
We work with UC Berkeley to expand our network with 20 Black Carbon Sensors.



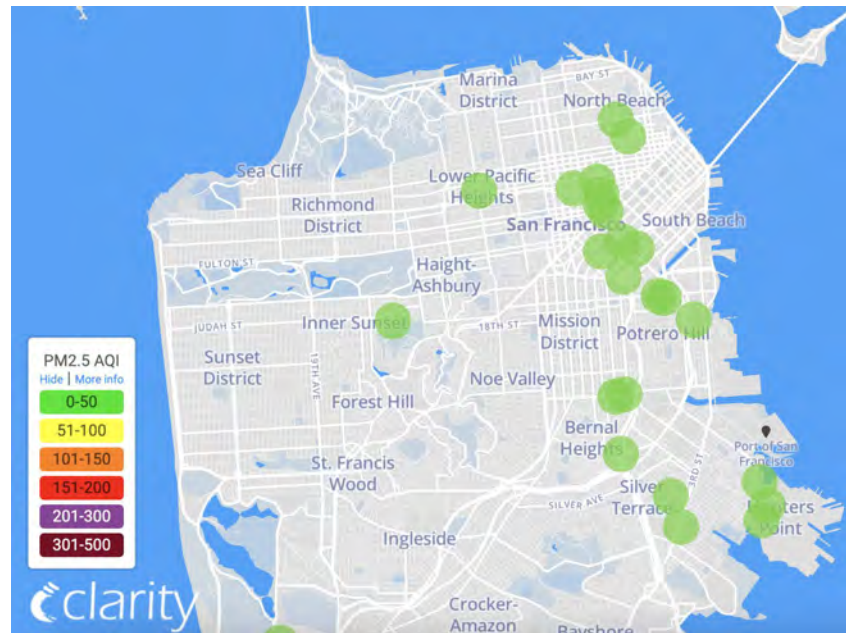
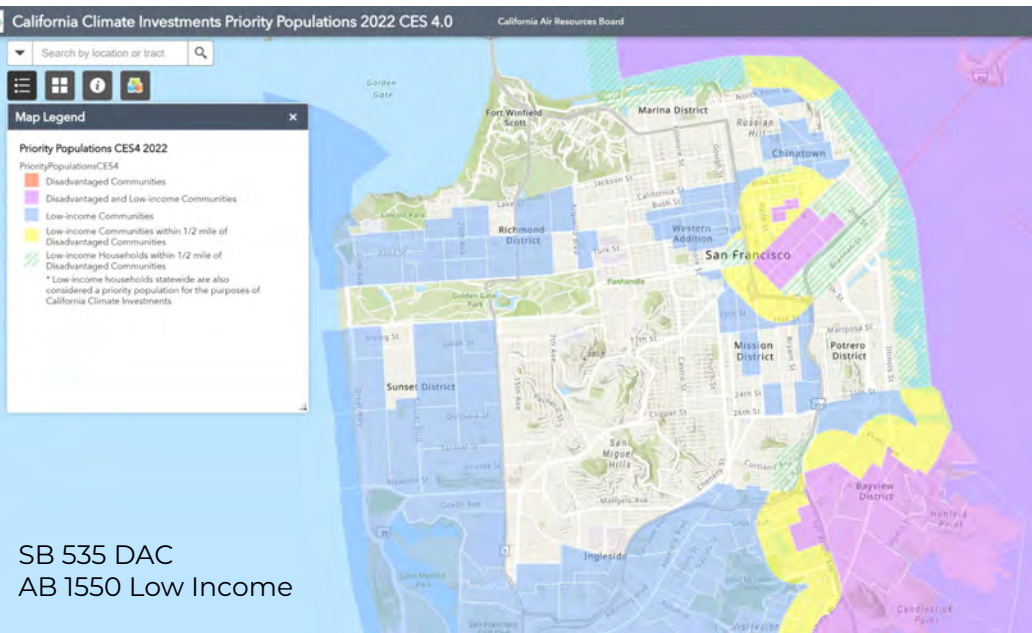
Partnerships



Serving Priority Populations in San Francisco



Serving Priority Populations in San Francisco



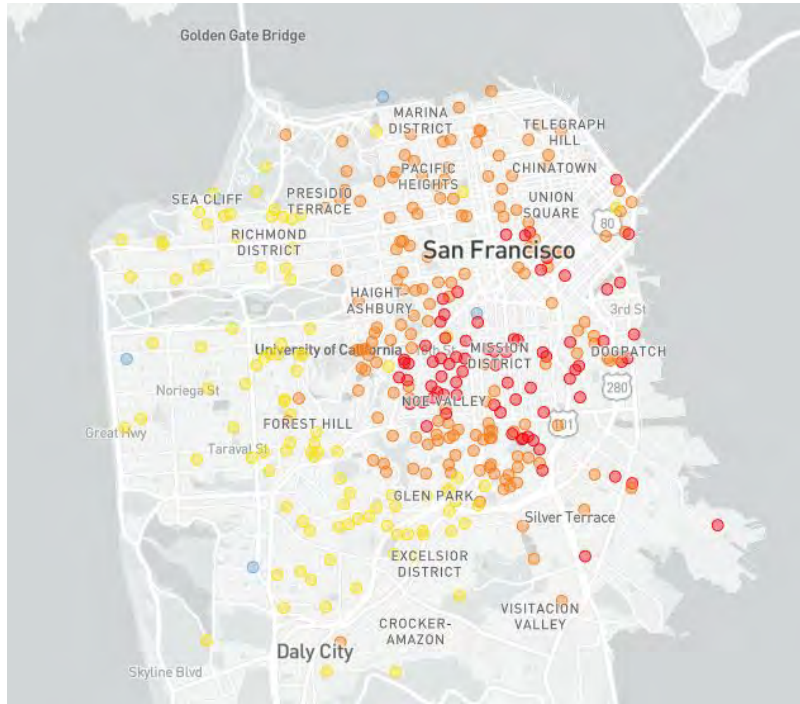
Sensor Siting and Calibration with BAAQMD



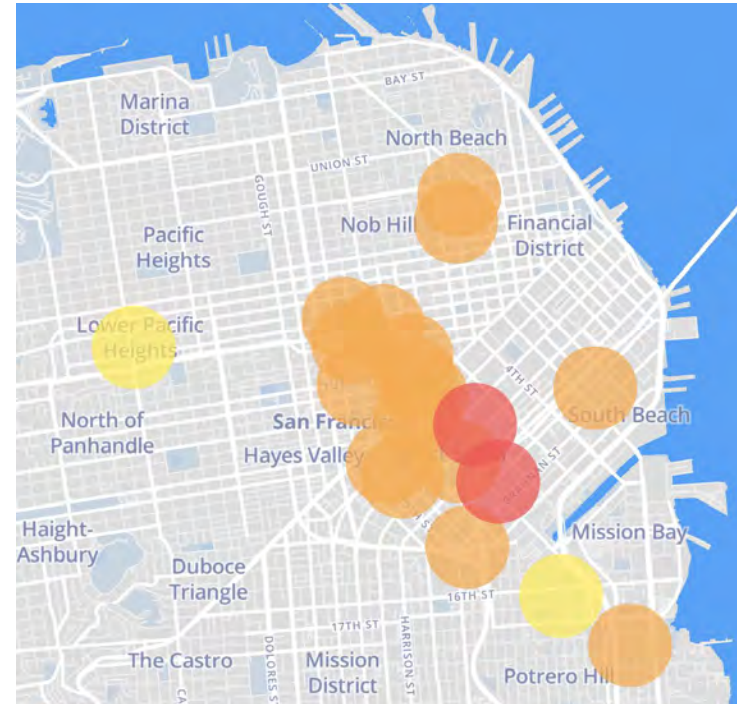
UC Berkeley Partnership: Black Carbon Study



Disproportionate Impacts Across SF (1.13.22)



SF Chronicle Air Quality Map



Open Data Map: tinyurl.com/BrightlineAQ

Central City SRO Collaborative



**do you know
what's in your air?**

check here to find out and learn more about the air quality in your area!

scan your iPhone camera here OR visit this link!



tinyurl.com/brightlineaq

brightlinedefense.org
Brightline Defense Project
@brightlinedefense

brightline CARB
CVC

Community Youth Center of San Francisco



California Air Resources Board Tour

B2 金山新聞

世界日報

2023年8月6日 星期四, 8月6日, 2023

亞裔社區受空污影響 空氣資源委員會 主席與社區領袖會面 宣布未來華埠居民 可申請免費裝空氣過濾系統

亞裔社區受空污影響 空氣資源委員會 主席與社區領袖會面 宣布未來華埠居民 可申請免費裝空氣過濾系統

記者李怡 華山報導

加州州大舊金山分校、對開 亞裔社區受空污影響，加州空 氣資源委員會 (CARB) 主席與華 埠領袖會面，宣布未來華埠居民 可申請免費裝空氣過濾系統。 亞裔社區受空污影響，加州空 氣資源委員會 (CARB) 主席與華 埠領袖會面，宣布未來華埠居民 可申請免費裝空氣過濾系統。



加州空污委員會主席與華埠領袖會面，宣布未來華埠居民可申請免費裝空氣過濾系統。

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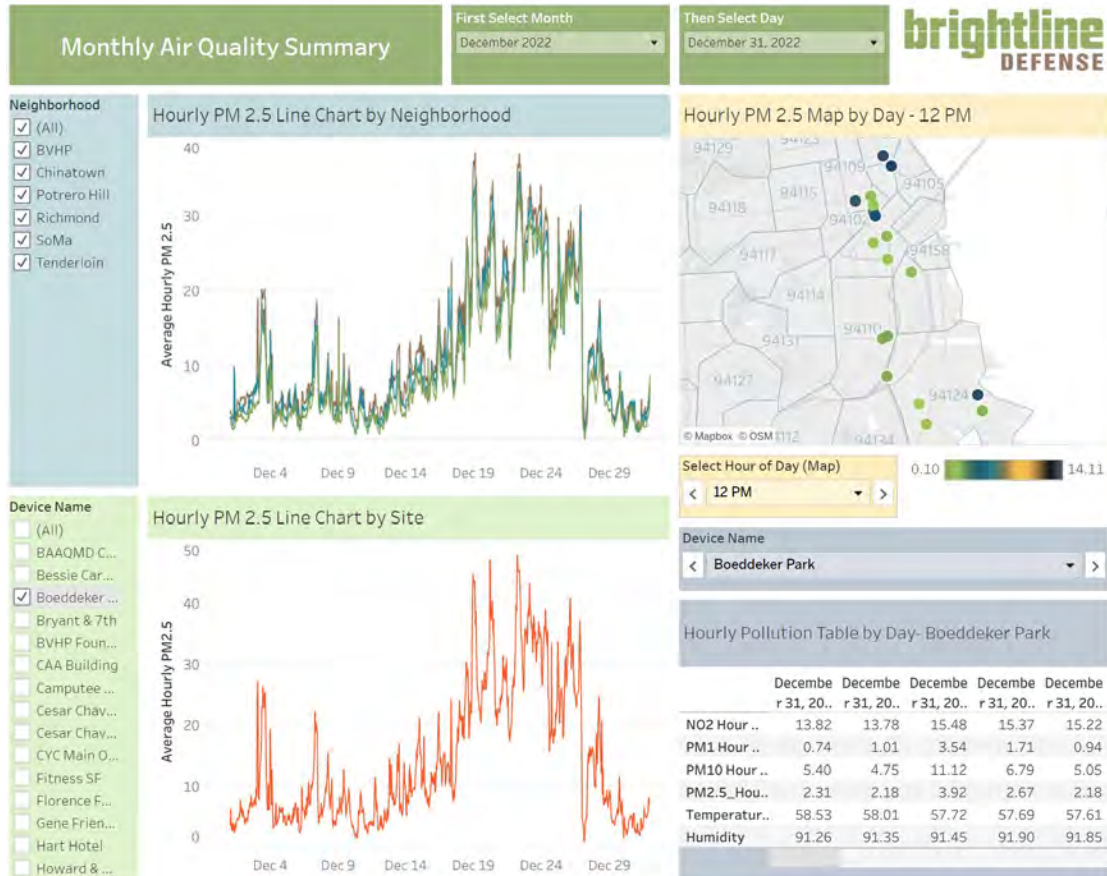
灣區 1 州官訪華埠散房公寓 商改善住客呼吸權利

爭取預算 改善通風 自製過濾器

州官訪華埠散房公寓 商改善住客呼吸權利



Data Analysis at tinyurl.com/BrightlineAQData



Media Coverage by SF Examiner

Environmental dangers are connected to racism

Let's attack problems with better policies, greater awareness

By Robyn Purchia · April 14, 2021 1:30 am



Eddie Ahn: San Francisco's environmental justice warrior

'The thing I love about my work now is that it is constantly changing'

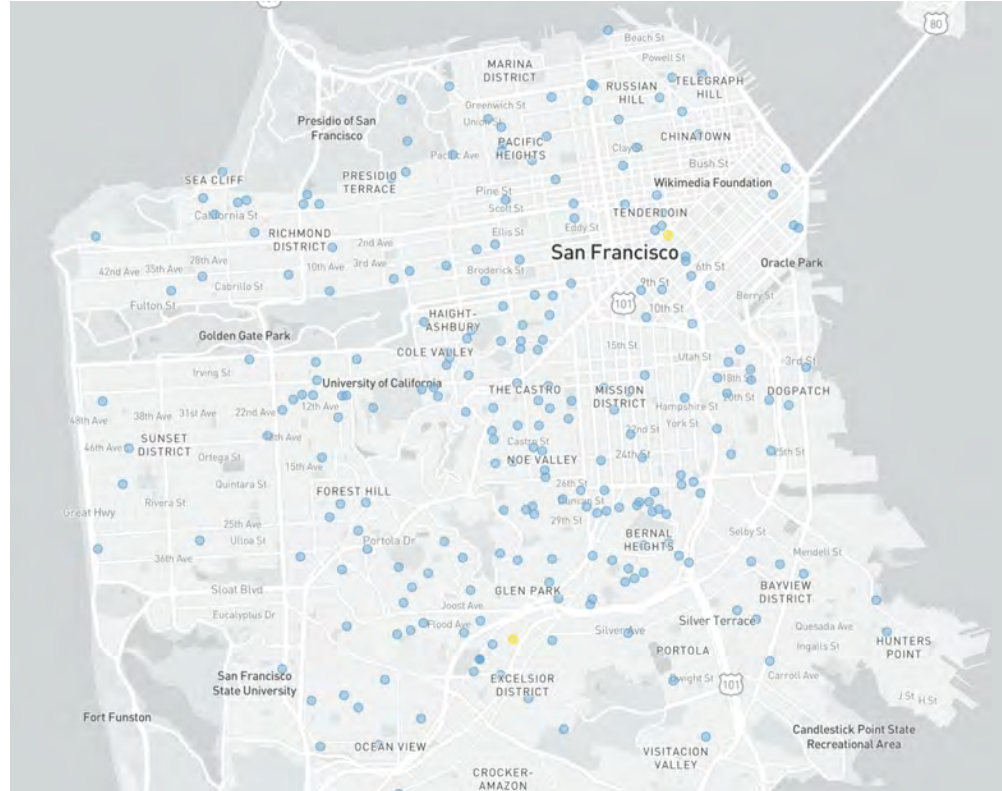
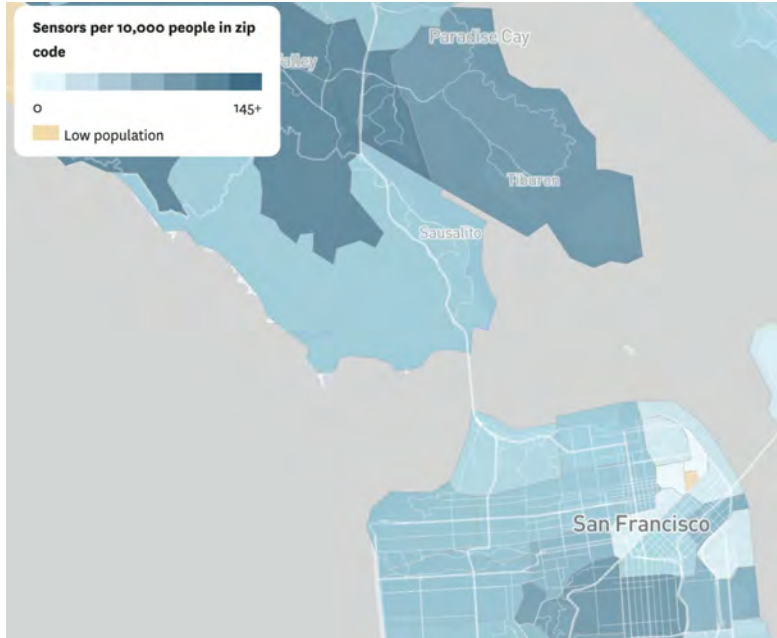
By Jessica Wolfrom · December 21, 2021 12:00 pm - Updated December 21, 2021 6:14 pm



Eddie Ahn, executive director of Brightline Defense, an environmental justice non-profit, with an air quality sensor installed at Gene Friend Recreation Center. Brightline has focused on air quality and how it affects people living in SROs, who often suffer from health problems related to air quality and lack the means to purchase things like air filtration systems. (Craig Lee/The Examiner)

Media Coverage by SF Chronicle

A number of community and environmental groups, including Brightline Defense, Sustainable Silicon Valley and Acterra, have taken matters into their own hands, buying and placing sensors in lower income communities. Government agencies have done similar projects.



SF Chronicle: The number of air monitors in the Bay Area has exploded. Where are they?

**Brightline's
Our Community,
Our Air Program**

Community Engagement & Capacity Building



Community Partners

La Voz Latina

Organization that supports the various needs of low-income, monolingual Spanish-speaking immigrants in the community.



Central City SRO Collab

Collaborative that builds community morale and enhances the quality of life of SRO tenants.



Community Youth Center

Nonprofit that provides high-need youth with education and employment opportunities.



Community Workshop in Spanish



Community Workshops in English



Community Workshops and Tabling in Chinese



Bay Area Metro Center Field Trip

Brightline organized a field trip to SRO Tenant Leaders to the Bay Area Metro Center in December 2022 to familiarize them with the meeting spaces for Year 2!



Increasing Air Filtration Access



Thank you!

Sacramento Neighborhoods Activating on Air Quality (SNAAQ)



CIVIC THREAD





valley vision

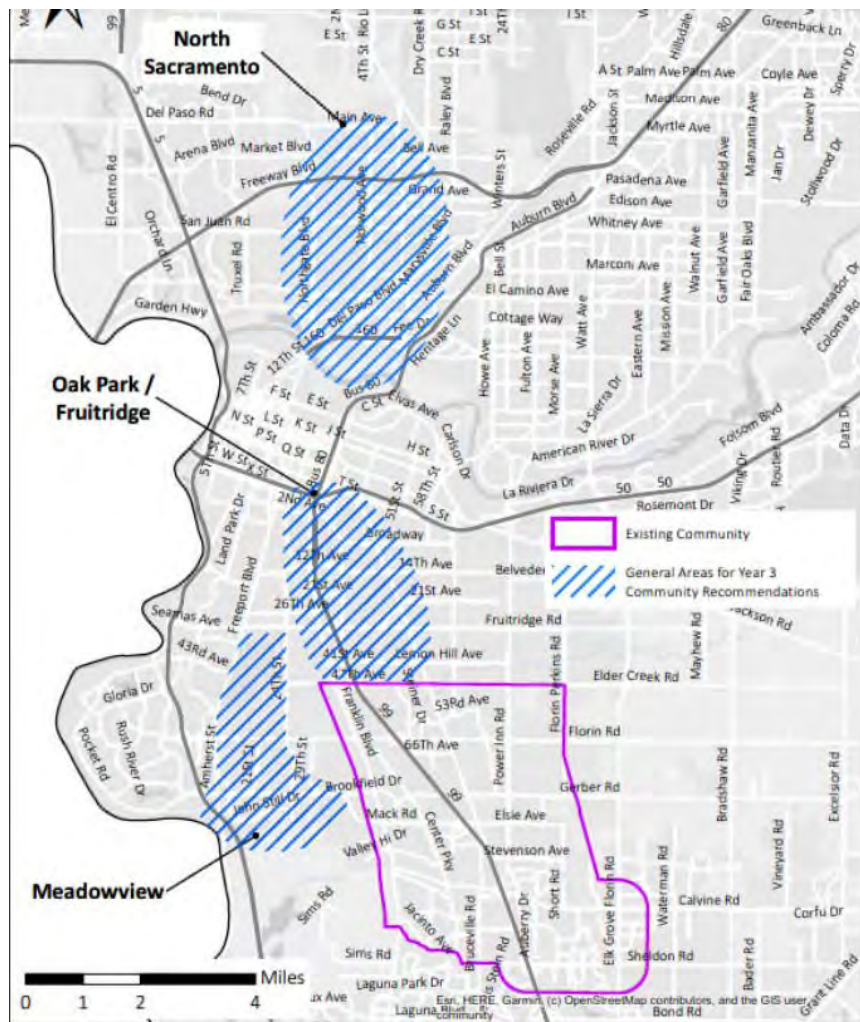
Community Inspired Solutions

- Triple-bottom-line organization focused on advancing **quality of life** in the 6-county Sacramento region (and increasingly beyond).
- Founded in 1994 by regional leaders focused on addressing **estimated loss of 80,000 jobs** due to the closing of two major air bases – Mather and McClellan.
- **19** full-time staff working on broadband, food and ag, workforce development...
- A sampling of our most relevant work:
 - **Cleaner Air Partnership** - Longstanding (since 1986!) coalition of air quality regulators, industry, and advocates working to improve air quality
 - **Community Economic Resilience Fund (CERF)** - \$600M statewide program to advance economic development and a regional “just transition”
 - **Sacramento Neighborhoods Activating on Air Quality (SNAAQ) 2.0** - air monitoring and pollution mitigation in North Sac and Oak Park
 - ...and much more! (everything is interconnected)

Background on Community Air Protection

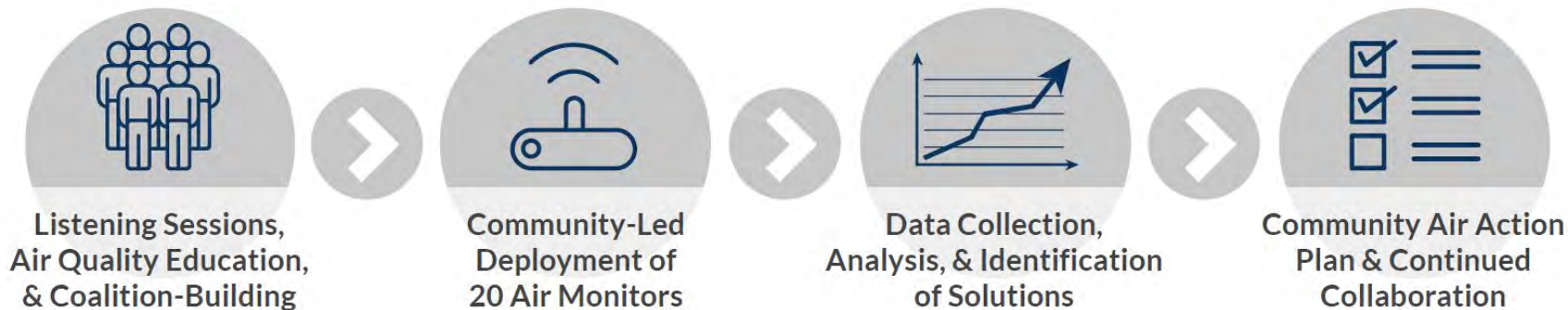
- In late 2017, California **Assembly Bill 617** was signed into law, which created the Community Air Protection Program run by the CA Air Resources Board (CARB).
- The **Community Air Protection Program** empowers California's most polluted communities to monitor their air quality and guide investments to reduce harmful emissions and improve public health in frontline neighborhoods.
- There are **19 selected communities** across the state, but hundreds more have been nominated by air districts and community members themselves.



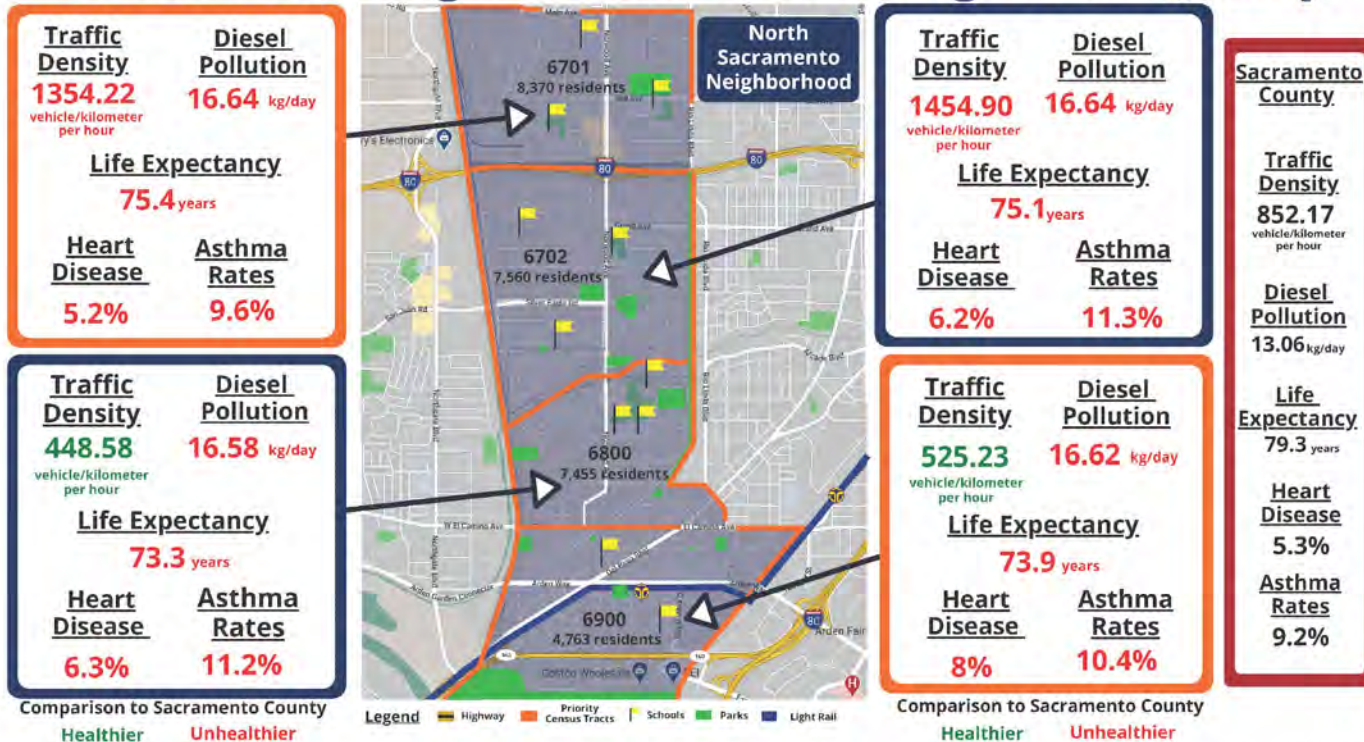


Sacramento Neighborhoods Activating on Air Quality (SNAAQ) 1.0

- CARB awarded a 2019 Community Air Grant to a group of local nonprofit organizations - **Valley Vision, Civic Thread, Breathe CA Sacramento Region, and Green Tech Education.**



Sacramento Neighborhoods Activating on Air Quality



In July 2017, the State of California passed AB 617. The bill requires the California Air Resources Board (CARB) to develop a monitoring plan for the state and select, based on the plan, the highest priority locations to deploy community air monitoring systems. SNAQA received a grant from CARB to work collaboratively with the North Sacramento neighborhood through 2021 as part of AB617 funding. Our efforts will lead to the deployment of air monitors throughout North Sacramento and develop a community strategy that will improve the air quality and quality of life for all.



"Sacramento Neighborhoods Activating on Air Quality" (SNAQA) 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.

Callaway/Green IS, Laboratory Office of Environmental Health Hazard Assessment, 2018. Available from: <https://www.cdpr.ca.gov/Programs/OPA/Pages/NR2018-0010.aspx>.
 Healthy Places Index: The California Health Equity Center's Health Equity Assessment and Promotion (HEAP) Index. Available from: <https://www.healthyequitycenter.org/>

Sacramento Neighborhoods Activating on Air Quality

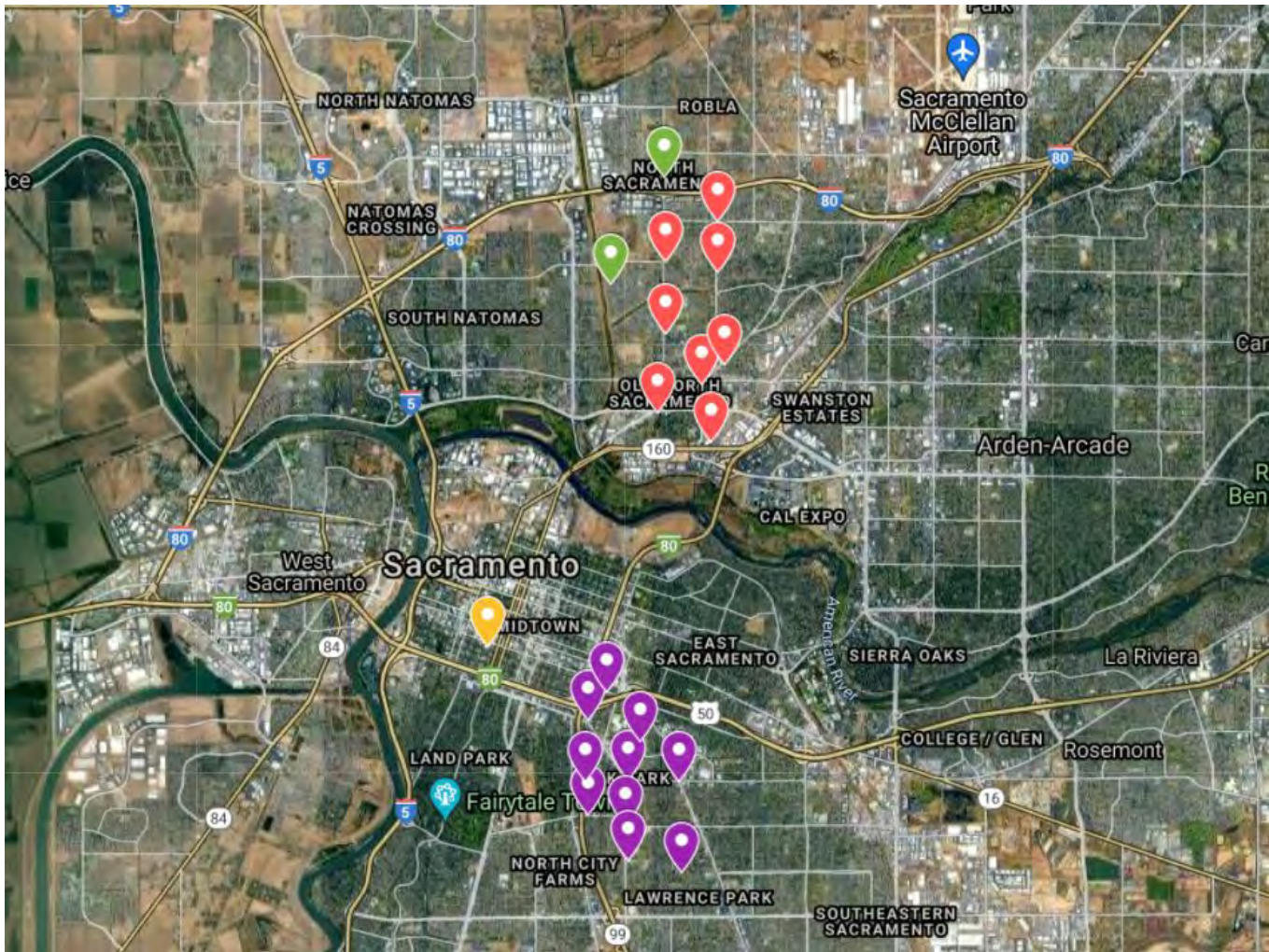


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California Screen 3-A, California Office of Environmental Health Hazard Assessment, 2017. Available from <http://oehha.org/Screening/Screening3-A>.
Healthy Places Index, The Center for Community Health Programs, 2017. Available from www.healthplacesindex.org.



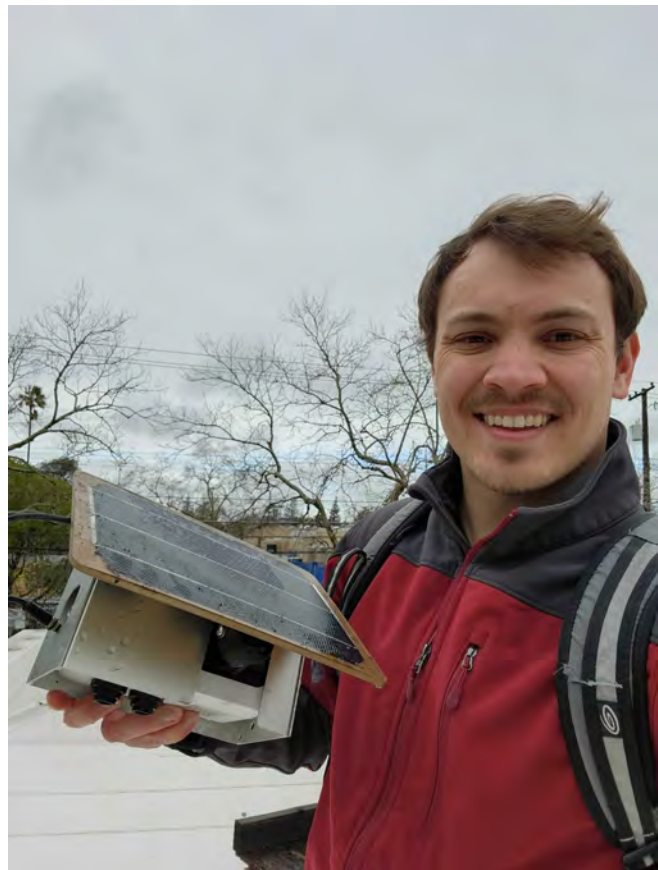
Solar-Powered Clarity Node-S

The Clarity Node-S measures PM_{2.5} and NO₂.

- Particulate Matter (PM)
- Nitrogen Dioxide (NO₂)
- Solar-Powered
- Co-Located at CARB facility for 4 weeks to ensure data quality
- Read More:
<https://www.clarity.io>

<https://tinyurl.com/snaaqmap>





Del Paso Heights, Oak Park get monitors to track air quality



'You Can Just Smell It': Air To Be Installed In Oak Park Sacramento

Sarah Maza-Ten Thursday, June 10, 2021 | Sacramento, CA



Like first stands near the corner of Marco Luther King Jr Blvd and Broadway in Sacramento where a device measuring air quality is installed on a nearby rooftop. Tuesday, June 8, 2021

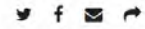


Instalan monitores de calidad de aire en zonas de bajos ingresos

Más de 20 monitores de calidad del aire fueron instalados en comunidades del norte de Sacramento hasta Oak Park, y es que estudios han revelado que zonas latinas, de color y de bajos ingresos están expuestas a más contaminación en el aire que otras.

Is the air quality in these Sacramento neighborhoods bad? Residents can now tell in real time

BY ALEXANDRA YOON-HENDRICKS JULY 01, 2021 05:00 AM



The National Weather Service Sacramento breaks down how the winds will blow (compared to Monday) today, October 11, 2017, and how smoke and air quality will present problems in the Sacramento Valley due to the Northern California fires. BY MCLATCHY



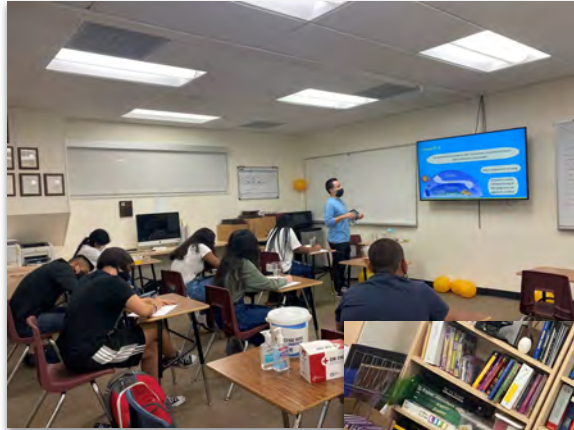
Clean Air for All Education Curriculum

- Five interactive lessons & activities structured around air quality
- Designed for middle school students
- Includes Facilitator's Guide and Student Workbook

Clean Air for All's Five Lessons:

1. What's in the Air?
2. Our Air, Our Health
3. Be Air Aware
4. The Air Inside
5. Be the Change

Clear Air for All Curriculum & Breakthrough Sacramento's Youth Summer Program



Air Monitoring - One Year Results:

North Sacramento/Norwood/Del Paso Heights:

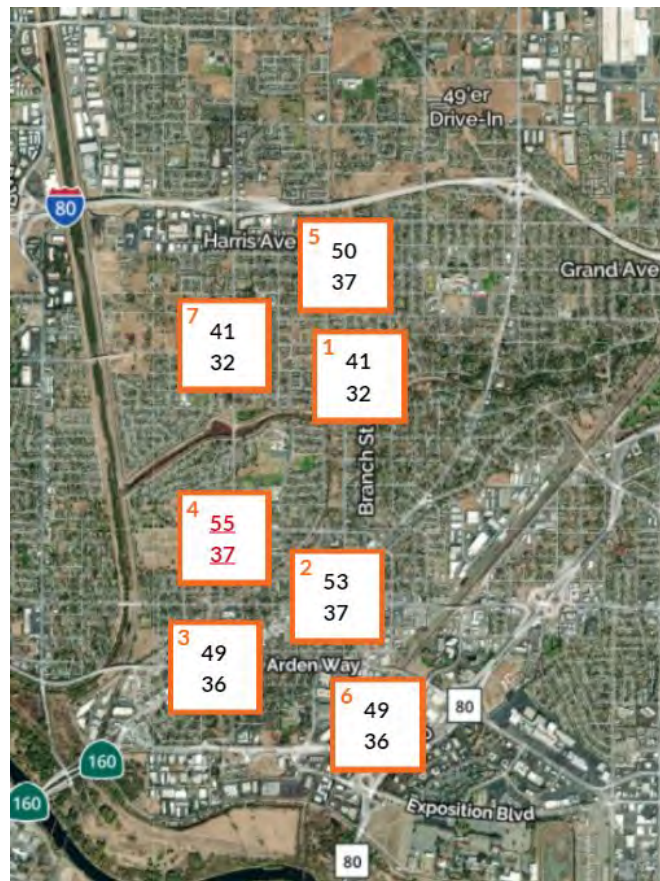
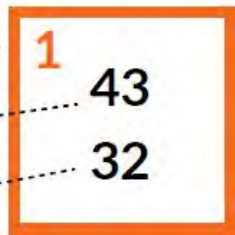
1. Rio Linda & Rivera (ATRF6WJQ)
2. Del Paso & El Camino (A8T16W86)
3. Del Paso & Arden (A9CJTX6K)
4. Norwood & Las Palmas (AC6L8134)
5. Rio Linda & Grand (A476WBPV)
6. Arden & Evergreen (AYDD929T)
7. Norwood & Silver Eagle (A62QFJRV)

Legend:

Monitor Number

Avg. AQI Reading - "Mean"

Avg. AQI Reading - "Median"



Air Monitoring - One Year Results:

Oak Park/Lawrence Park/Alhambra Triangle:

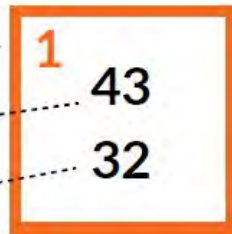
1. Highway 99 & 12th Ave (A0HRYM79)
2. Broadway & Stockton (A9MJX405)
3. Broadway & Alhambra (A18VV944)
4. Broadway & Martin Luther King (AQPX8C3K)
5. 12th Ave & Martin Luther King (AY1GYR6S)
6. 22nd Ave & Martin Luther King (ADZXCMQ4)
7. 33rd Street & 6th Ave (AZ58WQKQ)
8. 32nd & T Street (A5TYMRCW)
9. 37th Street & 1st Ave (A7DVSP0Q)
10. 45th Street & Roosevelt Ave (AJB1Q7PC)

Legend:

Monitor Number

Avg. AQI Reading - "Mean"

Avg. AQI Reading - "Median"



Community-Based Planning:

- Train-the-Trainer Approach
- Listening Circles
- Self Guided EJ Tours
- Block Parties

NORTH SAC COMMUNITY BLOCK PARTY

Giveaways include:

\$50 gift cards


Goodie bags

Instant pots!

+ More

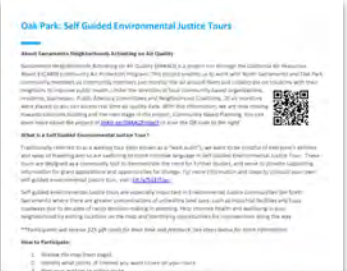


MARCH
10TH
5:30PM
-7:00PM



Community
Conversations
on Air Quality


U.S. AIR QUALITY STANDARDS



Oak Park, Self Guided Environmental Justice Tour

About Sacramento Neighborhoods Experiencing Air Quality

Sacramento and surrounding communities are facing environmental justice issues. The Sacramento Metropolitan Air Quality Management District (SMAQMD) is a regional air quality agency that monitors and regulates air quality in the Sacramento-San Joaquin River Delta. The SMAQMD is a regional air quality agency that monitors and regulates air quality in the Sacramento-San Joaquin River Delta. The SMAQMD is a regional air quality agency that monitors and regulates air quality in the Sacramento-San Joaquin River Delta.




Welcome to Neighborhood Listening Circle

The Neighborhood Listening Circle is a program designed to help community members understand and address environmental justice issues. The program is designed to help community members understand and address environmental justice issues. The program is designed to help community members understand and address environmental justice issues.

SMUD

CALIFORNIA



Tell us what you see during your tour

Things to note on your tour

1. Take photos of any air quality issues you see.

2. Take notes on any air quality issues you see.

3. Take notes on any air quality issues you see.

4. Take notes on any air quality issues you see.

5. Take notes on any air quality issues you see.

6. Take notes on any air quality issues you see.

7. Take notes on any air quality issues you see.

8. Take notes on any air quality issues you see.

9. Take notes on any air quality issues you see.

10. Take notes on any air quality issues you see.

Community Air Action Plans:

- Key product of SNAAQ 1.0
- Starting point for deepening of strategies via SNAAQ 2.0
- 1-page draft list of priority actions for emissions reductions
- Through formal AB 617 process, could evolve into a “Community Emissions Reduction Plan (CERP)”
- CERPs are fundable and enforceable by CARB
- Read more: <https://tinyurl.com/snaaqmap>

North Sacramento Action Plan

Key priorities:

- Addressing air and noise pollution sourced from neighborhood and freeway traffic.
- Commercial related emissions from sources such as trucks, factories, and construction sites
- Environmental impacts from lack of programming to support unhoused individuals
- Continued and expanded air monitoring to show data correlations with environmentally related chronic health outcomes (i.e. asthma).
- Eliminating litter and illegal dumping that impact sidewalks and nearby waterways

Key Solutions:

- Walking and rolling infrastructure improvements
- Public Information and Outreach (education)
- Programs
- Incentives

Recommended Actions:

- Develop a public information and outreach campaign to educate community members about how air quality impacts health and how they can take individual action to reduce exposure to harmful pollutants. Information would include
 - Individual action to support indoor air quality
 - General education around Air quality sources and solutions
 - Education on active transportation options, and the current gaps that exist making it less accessible
 - Information on how to report illegal dumping and unkempt parcels.
- Partner with Community-based organizations, residents and neighborhood associations to host a comprehensive neighborhood clean up event.
- Partner with community based organizations and cross-sectoral partners to develop a program focused on improving and maintaining green space and tree canopy in North Sacramento.
- Partner with transit providers and community based organizations to develop a program that incentivizes residents to utilize public and active transportation.
- Partner with cross-sectoral collaborators and small, local auto businesses to incentivize a smog program for cars in North Sacramento.
- Advocacy campaign to support public policy that invests in the improvements of active transportation infrastructure to protect pedestrians, bicyclists, and bus riders and make these transportation options more accessible
- Expand air monitoring programs to include monitoring specifically around highways and presence of older, unsmogged vehicles, prioritizing residential areas and schools.
 - Utilizing this data to support a public information and outreach campaign to educate community members about how air quality impacts health and how they can take individual action to reduce exposure to harmful pollutants.

Oak Park Action Plan

Key priorities:

- Addressing air and noise pollution sourced from neighborhood and freeway traffic.
- Commercial related emissions from sources such as trucks, factories, and construction sites
- Environmental impacts from lack of programming to support unhoused individuals
- Continued and expanded air monitoring to show data correlations with environmentally related chronic health outcomes (i.e. asthma)

Key Solutions:

- Programs
- Public Information and outreach
- Public Policy
- Incentives

Recommended Actions:

- Advocacy campaign to support public policy that invests in the improvements of active transportation infrastructure to protect pedestrians, bicyclists, and bus riders and make these transportation options more accessible.
- Partner with transit providers and community based organizations to develop a program that incentivizes residents to utilize public and active transportation.
- Continued public policy support for a second walk to school noise pollution coming from surrounding freeways and serve as additional mitigation to the travel of pollutants into residential spaces.
- Expand air monitoring programs to include monitoring specifically around highways and presence of older unsmogged vehicles, prioritizing residential areas and schools.
 - Utilizing this data to support a public information and outreach campaign to educate community members about how air quality impacts health and how they can take individual action to reduce exposure to harmful pollutants.
- Expansion of public education from cross-sectoral collaborators (SMAQMD, Eltheda, Community based organizations, etc) targeting multi lingual and culturally relevant and sensitive outreach in the least engaged areas of Oak Park. Information would include
 - Education on active transportation options, and the current gaps that exist making it less accessible.
 - How to get involved in government processes (i.e. city council meetings)
 - What current legislature can support/farm environmental justice in Oak Park

Our Current Work:

“SNAAQ 2.0”

- \$299,700 grant
- **Goal:** Further build out resident-identified emissions reduction strategies in North Sac and Oak Park, better positioning these neighborhoods for a formal AB 617 designation
- **Project Components:**
 - **Expand resident engagement** in developing emissions reduction strategies
 - Advance an **emissions reduction pilot project** with a workforce training component
 - Pilot a **\$100,000 participatory budgeting framework** (one-third of total project budget) to be programmed entirely by residents in advancing the scope of work



CIVIC THREAD



SACRAMENTO METROPOLITAN





valley vision

Community Inspired Solutions

Adrian Rehn

Project Leader, Valley Vision

adrian.rehn@valleyvision.org

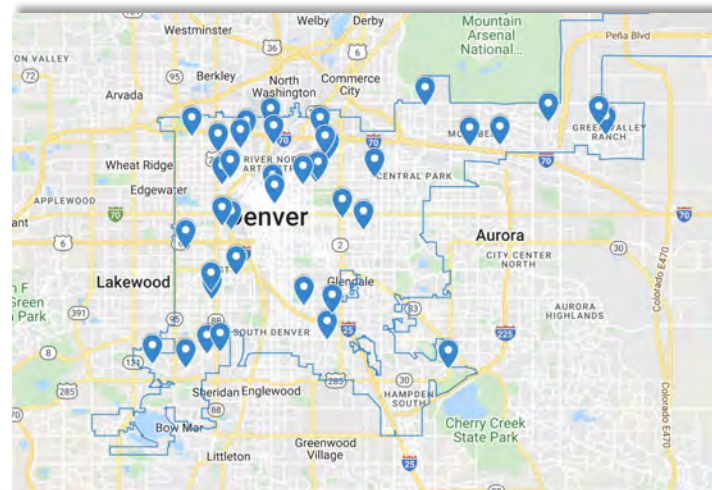
(707) 813-1913

Program Overview



**Bloomberg
Philanthropies**

- **Why:** Denver has a long history of air pollution issues, Denver children have an increased rate of childhood asthma
- **Who:** City and County of Denver
- **What:** 40+ low-cost PM 2.5 sensors at Denver Public Schools
 - Pairs local, near-real-time air quality information with behavior change programs & education
- **How:** Supported by a \$1M grant from Bloomberg Philanthropies through 2022



Community Engagement

— — —

Since 2018, the project has

- Worked with community members to identify needs & shape program
- Collaborated to create a dynamic data platform & app with accessible data & information
- Built strong relationships with academic institutions
- Developed a strong program identity
- Addressed equity in messaging



The Future

- Denver continues to support the project through City funding including building out an app!
 - Contact LMA@denvergov.org for current and future project updates
- Other entities are using the Love My Air brand to launch their own air networks
 - Capital Area Council of Governments (Austin, TX)
 - Boise State University
 - City of Boulder
 - Colorado Springs
 - Adams County



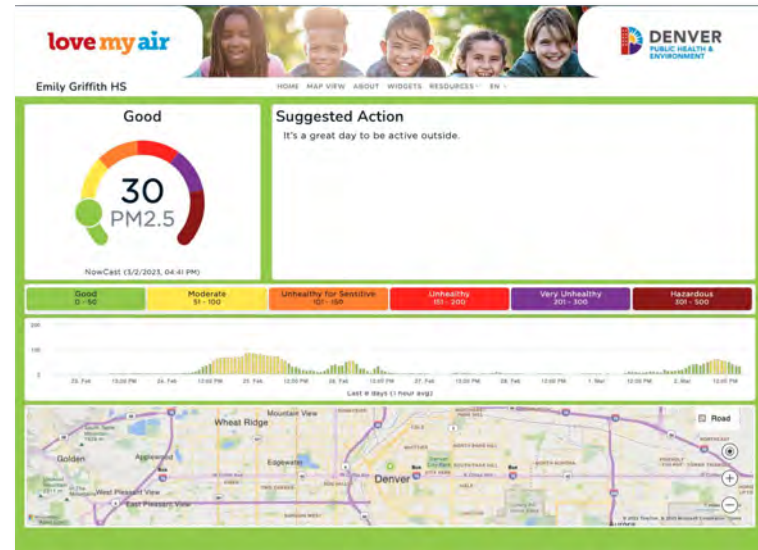
Challenges

- Operating a school-based project during the pandemic
- Managing school operations was outside of our realm of influence
- Ease of accessibility



Things to consider

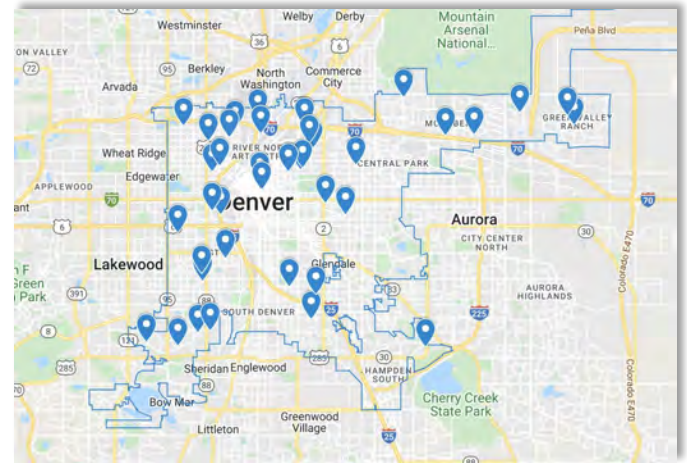
- Factor in accessibility needs and costs
 - Consider stipends for participation in meetings, focus groups, etc.
- Factor personnel costs into funding
 - At least 1 FTE to manage the project
- Identify a clear use of the data
- Ask yourself “Will the project offer value to the community?”
 - How can you measure impact?



Program Overview

- **Why:** Denver has a long history of air pollution issues, Denver children have an increased rate of childhood asthma
- **Who:** Led by the City and County of Denver
- **What:** 40+ low-cost PM 2.5 sensors at Denver Public Schools
 - Pairs local, near-real-time air quality information with behavior change programs & education
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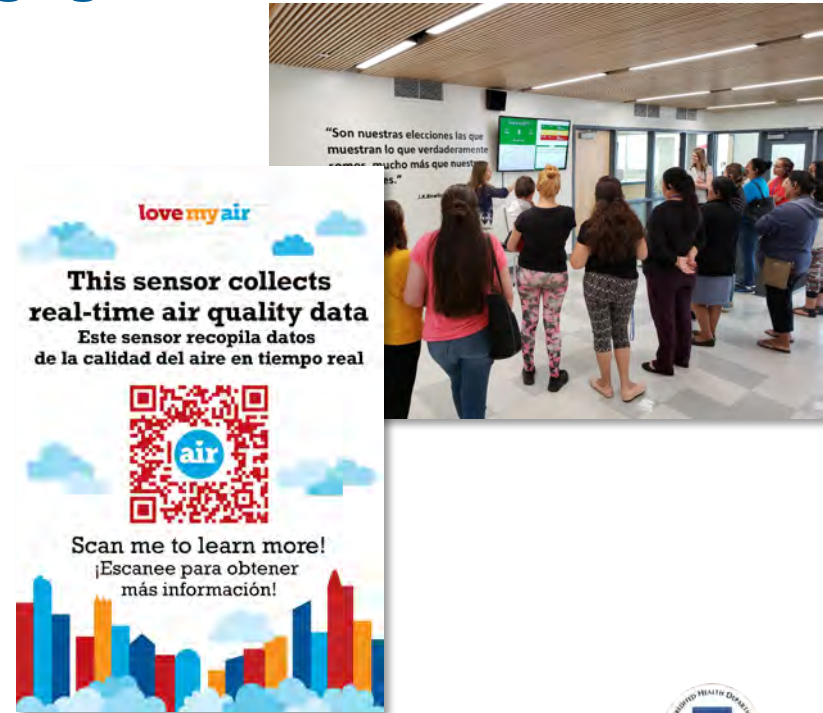
Bloomberg Philanthropies



The Brand & Community Engagement

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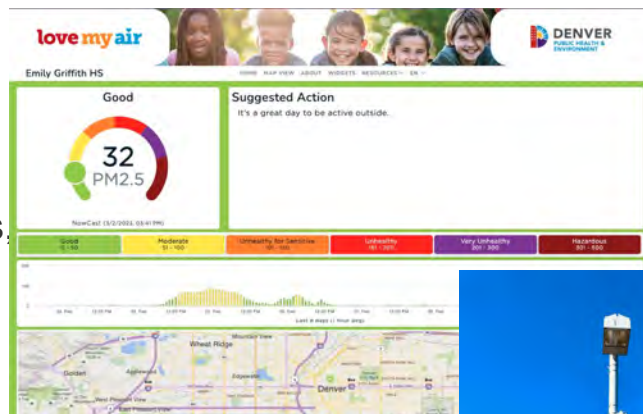
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The future of Love My Air

- Denver continues to support the project through City funding
- Other entities are using the Love My Air brand to launch their own air networks
 - * Capital Area Council of Governments (Austin, TX)
 - * Boise State University
 - * City of Boulder
 - * Colorado Springs
 - * Adams County





Community Air Monitoring Roundtable

Aubrey Burgess
**Denver Department of Public Health &
Environment**
City & County of Denver



DENVER
PUBLIC HEALTH &
ENVIRONMENT



A Roundtable on Grant-Funded Community Air Quality Monitoring Work

Michael Flagg

Principal Air Quality Specialist
Meteorology & Measurements Division
Ambient Air Quality Analysis Section



BAY AREA AIR QUALITY
MANAGEMENT DISTRICT

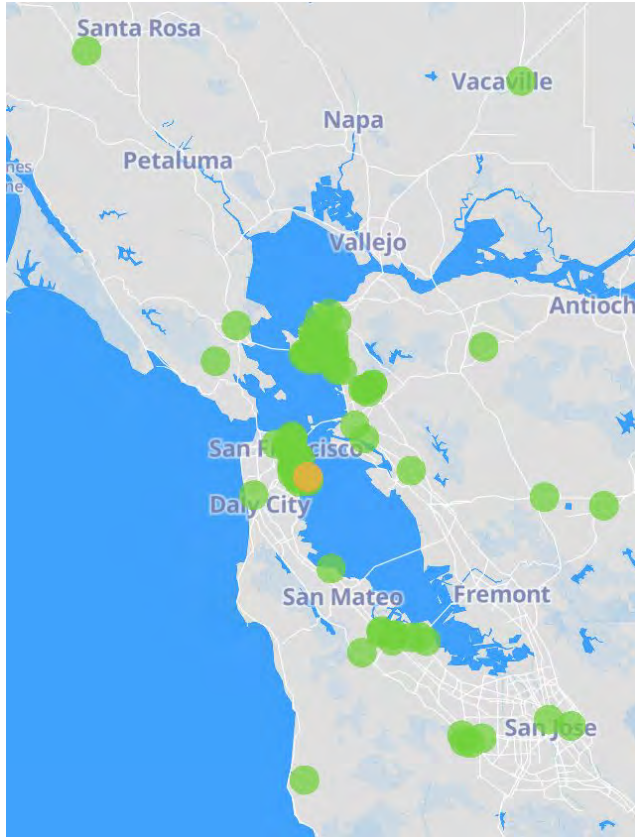
March 8, 2023

Bay Area Air Quality Management District

- Established in 1955
- Governing board of 24 elected officials
- Large geographic area
 - 9 County jurisdiction;
 - 5,340 square miles;
 - 7 million residents
 - Many unique communities facing different air pollution issues
- Air Monitoring
 - 32 locations
 - Criteria pollutants, toxics, black carbon, ultrafine particles

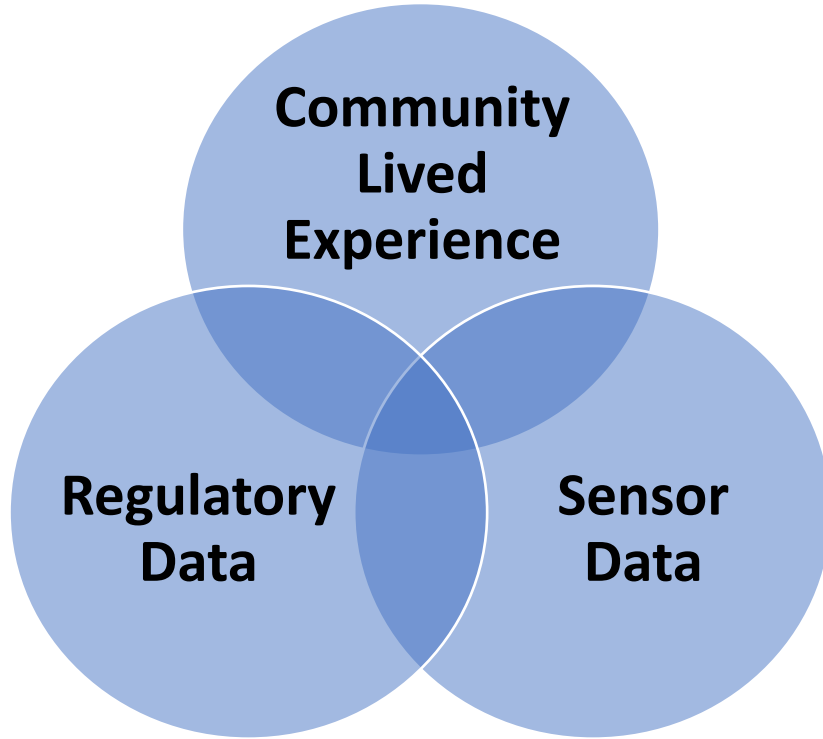


Community-Led Sensor Networks



- Many community-led sensor networks in the Bay Area
- Primarily funded by State and Federal grants
- Sensor networks can provide valuable insights to local air quality issues

Air District Support

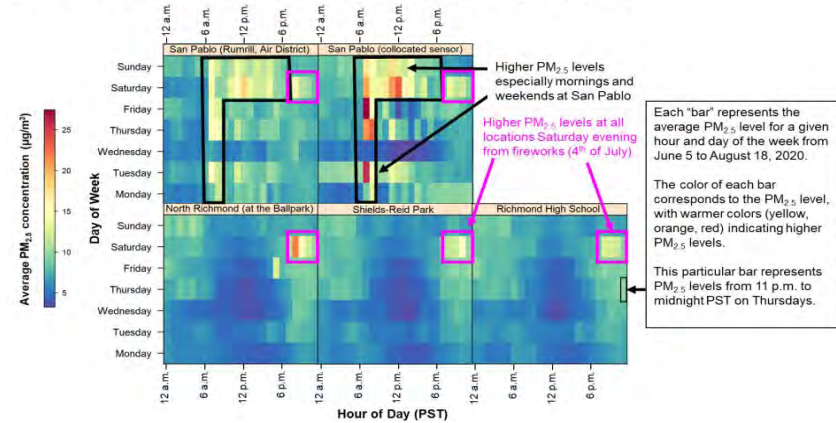


- Support community-led objectives
 - Prioritize community lived experience and local knowledge
 - Build partnerships
 - Provide project-specific technical support
 - Facilitate access to existing data sources
 - Reduce barriers to accessing funding
-

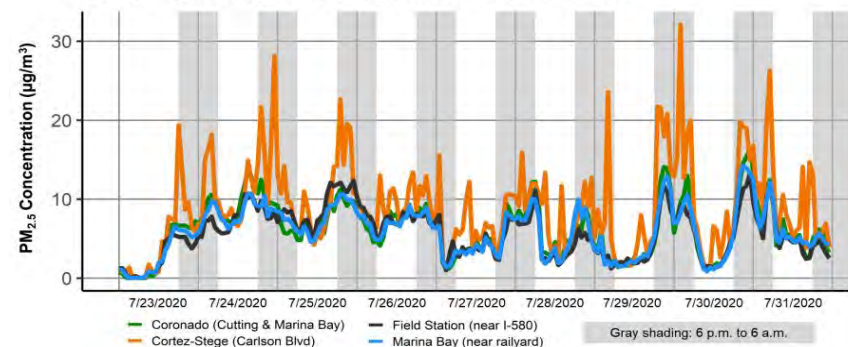
Air District Support

- Analysis of existing data sources
- Sensor network data analysis and interpretation
- Identify local-scale spatial and temporal variations
- Link insights from data analysis to Air District programs
 - AB 617 CERP/CAMPs
 - Compliance & Enforcement

Time of Day and Day of Week Variations in $PM_{2.5}$ (June 5 to August 18, 2020*)

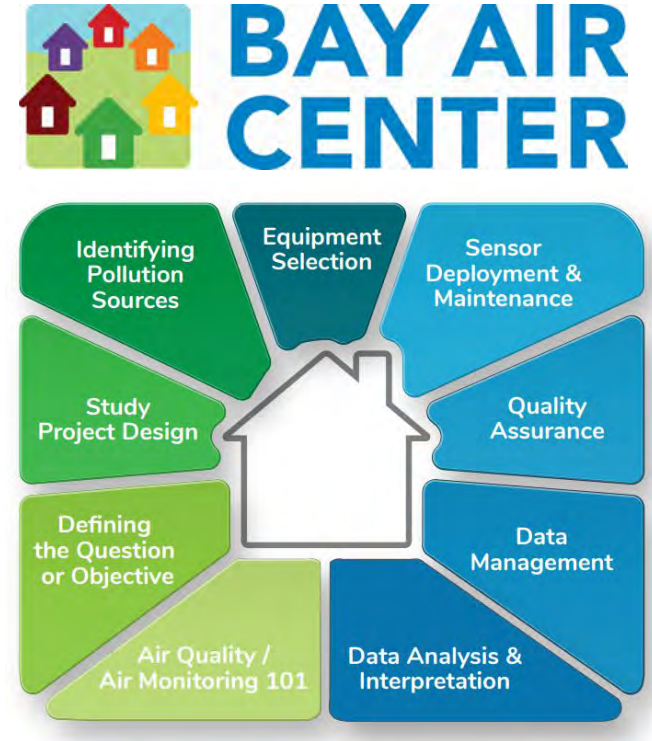


Hourly $PM_{2.5}$ levels from air quality sensors, July 23 – 31, 2020



Air District Support - Bay Air Center

- Independent third-party contract
- Coordination, facilitation, and technical components
- Flexible in-kind resource for air monitoring projects
- Designed to provide tailored training, resources, hands-on field support, or data analysis
- Assist with grant applications





Q & A

Any questions?

brightline
DEFENSE


valley vision
Community Inspired Solutions

love my air
denver



BAY AREA AIR QUALITY
MANAGEMENT DISTRICT



Register for the next
webinar on **Thursday 3/23!**



EJ Fireside Chat — How Community Partnerships Drove a Successful Air Quality Initiative in Grand Rapids, Michigan



Darren Riley
Co-Founder & CEO at
JustAir Solutions



Kareem Scales
C4 Co-Chair and
CEO of Scales Consulting