



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

# Release of Aclima Block- by-Block Air Quality Results

Board of Directors Meeting  
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# Presentation Outline



- Air District Goals for Aclima Project
- Summary of Task Orders
- Complementarity with Other Approaches
- Next Steps and Questions

# Presentation Requested Action



- None. Informational only.

# Air District Goals for Aclima Project



Advance new approaches and methods

Gather additional information about air quality data at unmonitored locations

Share data with community members, particularly people who live in impacted communities

# Summary of Task Orders

(Master Services Agreement approved by Board in 2019)



## Drive the entire Bay Area for 1 year (2020-2021)

- Customized, high-grade sensor systems measuring  $\text{NO}_2$ ,  $\text{PM}_{2.5}$ ,  $\text{O}_3$ ,  $\text{CO}$ ,  $\text{CO}_2$
- Statistical methods to filter, transform, and aggregate results
- Estimates of annual average pollutant concentrations

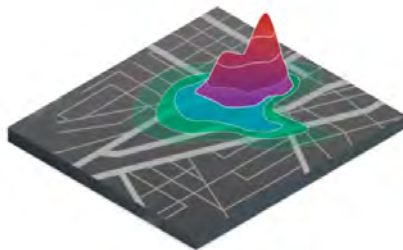


## 3-month study of Richmond-North Richmond-San Pablo area for AB 617 Community Air Monitoring Plan

Publish information in an easily understood format that incorporates community input

Reports of data collection metrics and performance

Aclima Pro software license



# Aclima's Air Quality Mapping Complements Other Bay Area Monitoring Efforts



	Pollutants Evaluated	Geography	Frequency	Duration	Relevant Goals	
	<b>Long-Term Monitoring Network</b>	Many	33 sites	Continuous hourly or daily	Years to decades	Ongoing real-time air quality, long-term trends, comparison to health-based standards
	<b>Short-Term Monitoring</b>	Many	Communities with disproportionate impacts	Minute, hourly, or daily	Hours to months	Investigate concerns identified by communities, identify new air quality issues
	<b>Aclima Maps</b>	Some	All publicly-accessible streets	20+ passes	Year (current release)	Finer resolution of variation in air pollutants
	<b>Crowd-based Sensors</b>	Few	Denser networks	Continuous minute or hourly data	Months to years	Provide real-time data for decision-making

# Next Steps – Exploring the Data!



- Share this data with the public, particularly people who live in impacted communities
- Continue to evaluate data and methods, including how it can be used and limitations
- Update local- and regional-scale assessments of air monitoring data to incorporate this complementary data
  - Learn more about how air quality varies in communities experiencing disproportionate impacts
  - Evaluate air quality near sources of pollution
  - Indicate opportunities for further study or emissions/exposure reduction strategies.



# Examples of Anticipated Questions



1. What are the results on my street?
2. What are the results near a source in my community?
3. Why are the PM levels along the Pacific coast so high?
4. What do the comparisons with the World Health Organization air quality guidelines mean?