## Community Air Initiatives

East Los Angeles, Boyle Heights, West Commerce Community Steering Committee Meeting #2

> Thursday, January 24, 2019 East Los Angeles, CA



### **Meeting Roles and Expectations**

**CSC Purpose:** To guide strategies for community air monitoring and emissions reduction plans for this AB 617 community, and track progress on community plans.

#### Expectations:

- Presenters will be concise
- Everyone should help us stay on time by staying on topic
- Aim to build consensus



SCAQMDNote takerCo-hostCommittee members• Organize meeting logistics• Take notes• Help facilitate discussions• Provide input on discussion items• Provide agenda and meeting materials• Prepare a summary and post it online• Help SCAQMD staff review materials• Provide prompt feedback and response (e.g. filling out surveys, replying to emails, etc)• Address committee concerns and answer questions• Online• Help SCAQMD staff with meeting logistics• Provide prompt feedback and response (e.g. filling out surveys, replying to emails, etc)• Provide suggestions on how to improve this process• Provide prompt feedback and response (e.g. filling out surveys, replying to emails, etc)	Meeting Participant Roles*								
<ul> <li>logistics</li> <li>Provide agenda and meeting materials</li> <li>Prepare a summary information</li> <li>Address committee concerns and answer questions</li> <li>notes</li> <li>Prepare a summary and post it online</li> <li>Help SCAQMD staff review materials</li> <li>Help SCAQMD staff with meeting logistics</li> <li>Provide prompt feedback and response (e.g. filling out surveys, replying to emails, etc)</li> <li>Engage with other committee members and members of the public</li> <li>Serve as a liaison to your networks within the community</li> <li>Provide prompt feedback and response (e.g. filling out surveys, replying to emails, etc)</li> <li>Engage with other committee members and members of the public</li> <li>Serve as a liaison to your networks within the community</li> <li>Provide suggestions on how to</li> </ul>		SCAQMD	Note taker	Co-host	Committee members				
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\* Based on feedback from the CSC members, we are working on getting a facilitator

## Where we are now Where we are going

#### Identify Community Air Quality Concerns

- Committee Input
- Technical Data

#### Prioritize Sources of Emissions and Areas with High Exposure Concerns

- Target areas/pollutants for air monitoring
- Target sources/places for emissions or exposure reduction

Jan 2019-Mar 2019

Oct 2018-

Jan 2019



#### Develop Strategies to Reduce Emissions and Exposures and Metrics for Tracking Progress

- Community Air Monitoring Plan
- Community Emissions Reduction Plan

Mar 2019-Oct 2019



## **Today's Meeting Objectives**

- Provide summary of air quality concerns and complete discussion on community boundaries
- Provide information on air monitoring, and ideas for air monitoring through AB 617
- Prepare for next steps (prioritize air quality issues and develop strategies to address them)
- Follow up on committee logistical items



### Air Quality Concerns and Community Boundaries



# Recap: How were Year 1 AB 617 communities identified?

We first **identified communities using a broadly inclusive approach**.

Preliminary list includes each of the following:

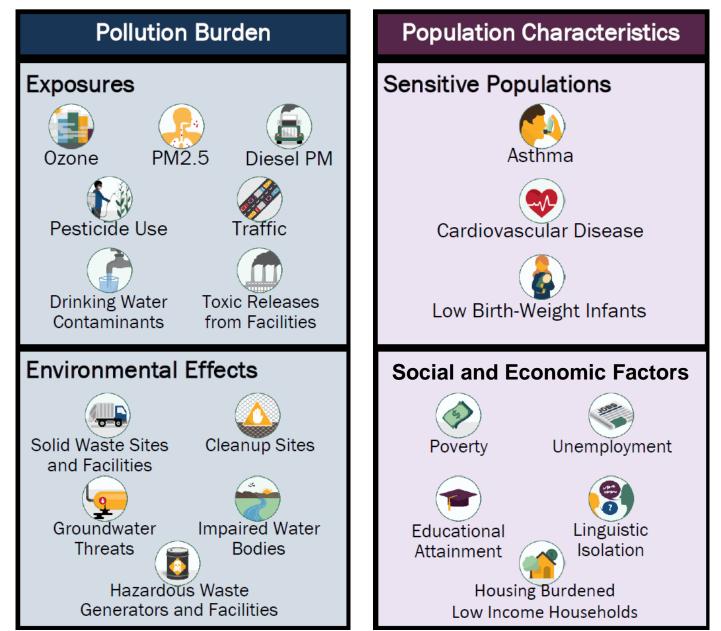
- (1) **Top 25%** of MATES IV air toxics cancer risk
- (2) **Top 25%** of CalEnviroScreen 3.0 score

(3) Community nominations (148 nominations received through 5/17/2018)

(4) Communities with the highest density of schools within 1,000 feet of industrial land use



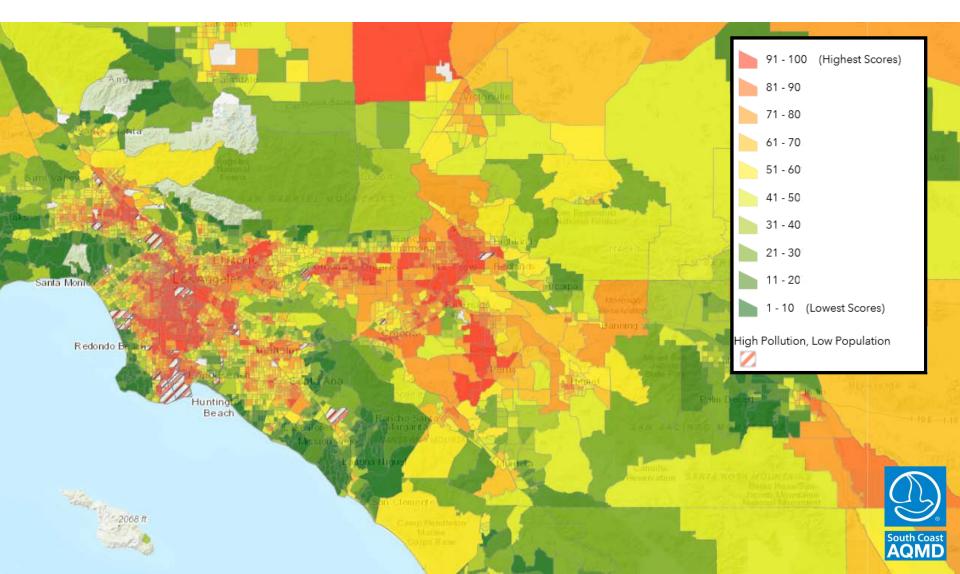
# CalEnviroScreen 3.0 (OEHHA)



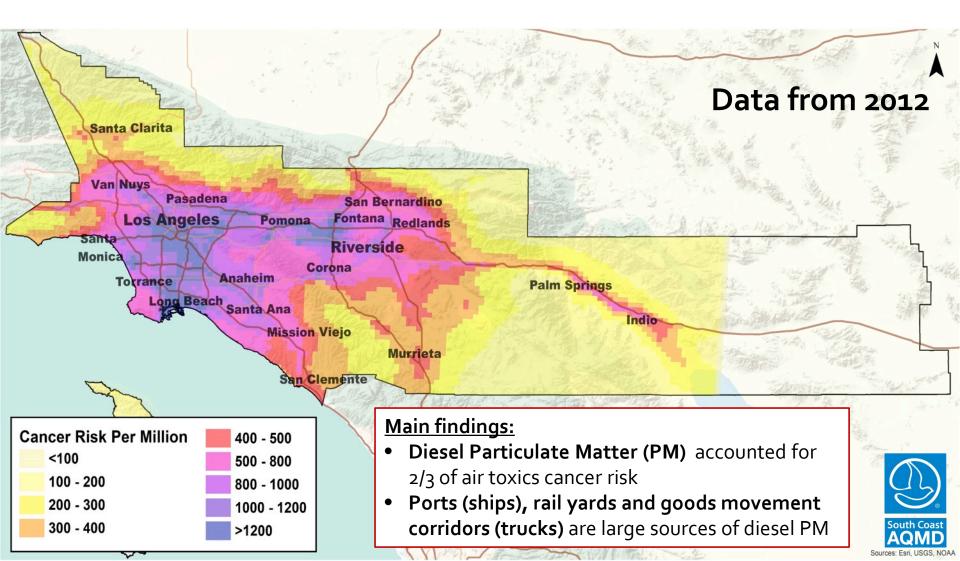
**OEHHA:** Office of Environmental Health Hazard Assessment (State agency)



# CalEnviroScreen 3.0 (OEHHA)



## Multiple Air Toxics Exposure Study (MATES IV)



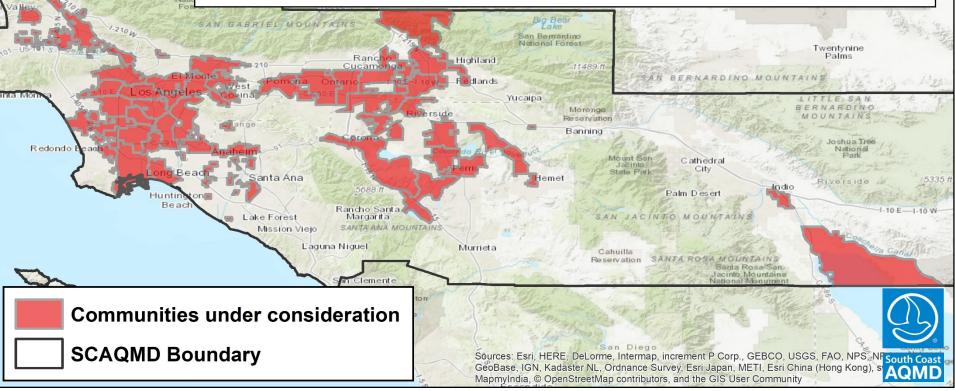
# Map of communities under consideration for AB 617

- 55 communities identified in SCAQMD
- Census Tract boundaries

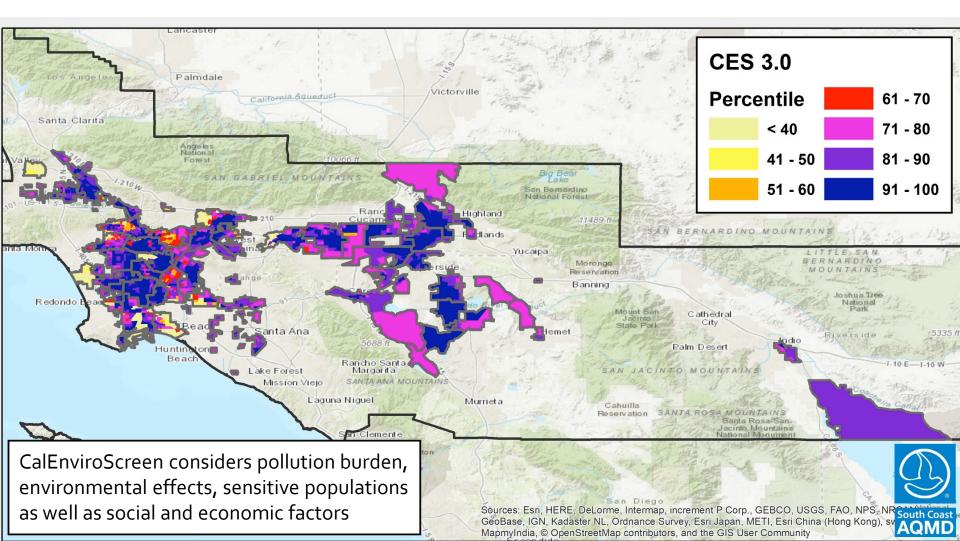
Paln

Santa Clarita

Group Census Tracts by known air quality issues, natural and political boundaries



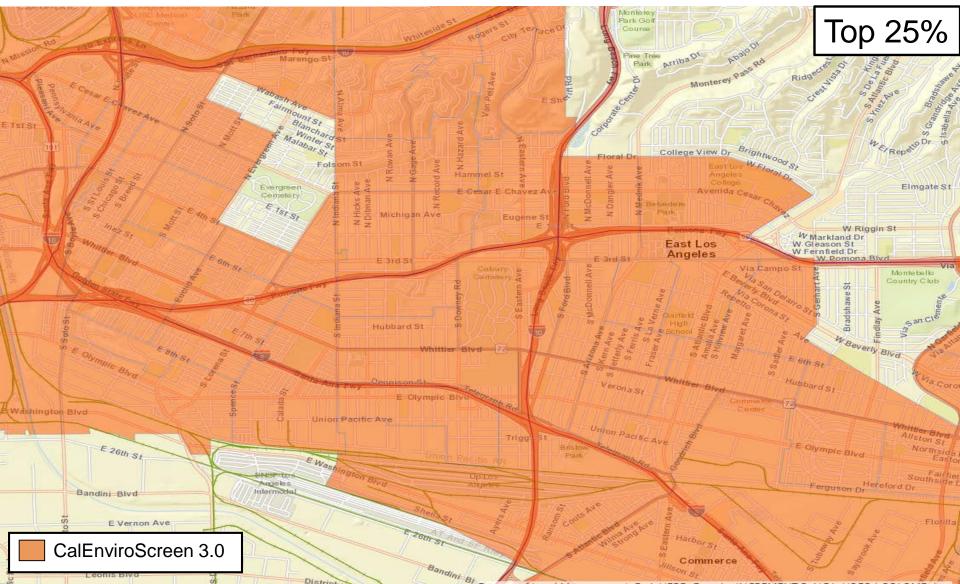
## CalEnviroScreen 3.0 ranking in communities under consideration



## Many disadvantaged areas

#### But resources are limited





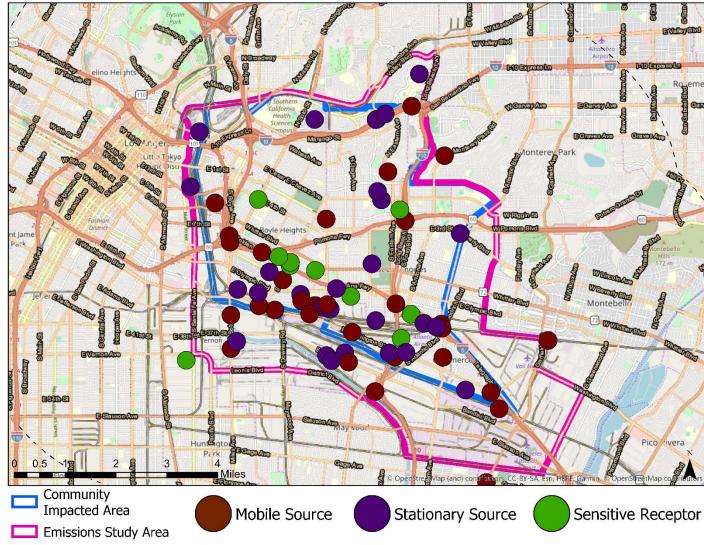
## For more details...

- SCAQMD recommendations to CARB for Year 1 communities and implementation schedule: <u>http://www.aqmd.gov/docs/default-</u> <u>source/ab-617-ab-134/submittal-to-carb.pdf</u>
- CARB staff report describing statewide strategy and Year 1 communities <u>https://ww2.arb.ca.gov/sites/default/files/2018-09/2018\_community\_recommendations\_staff\_report\_revised\_sept\_ember\_11.pdf</u>

And now, let's discuss this community (East Los Angeles, Boyle Heights, West Commerce)...



## Community-Identified Air Quality Concerns - Map





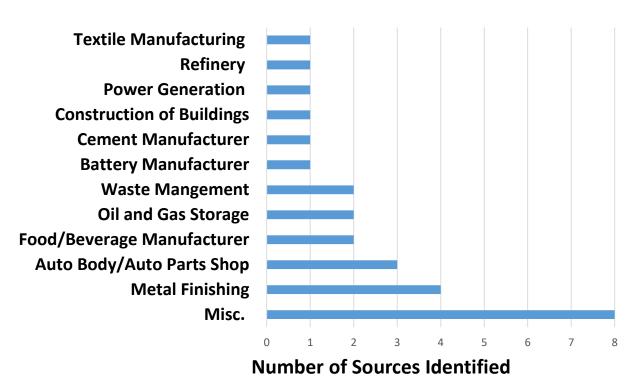
# **Community-Identified** Air Quality Concerns Based on Air Quality Mapping Activity in Meeting #1

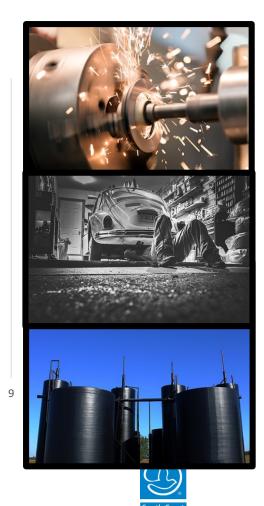




	Number	
Stationary Sources	28	
Mobile Sources	30	
Sensitive		
Receptors	11	
Total Unique		
Concerns	61	3
	Sout	h Coast

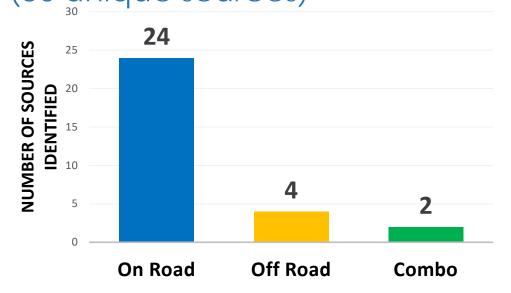
#### Stationary Source Concerns (28 unique sources)





- Misc. were single concernes marked as either odors, dioxin, furans, sulfur, pollution, or as industry.
- The cement manufacturer was identified twice in the mapping exercise

#### Mobile Source Concerns (30 unique sources)



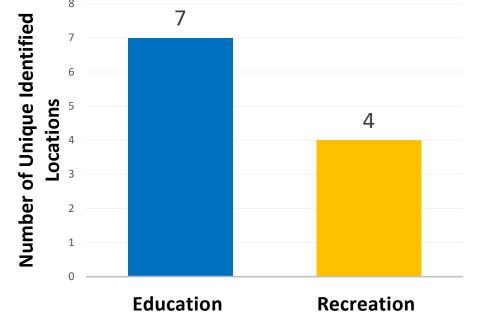




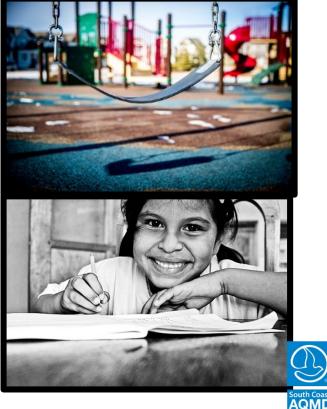
- On Road: Mainly trucks idling and truck traffic
  - 710 freeway
  - Freeway intersections
- Off Road
  - Railyards and rail traffic
- Combo
  - Transfer yard
  - Train and truck idling



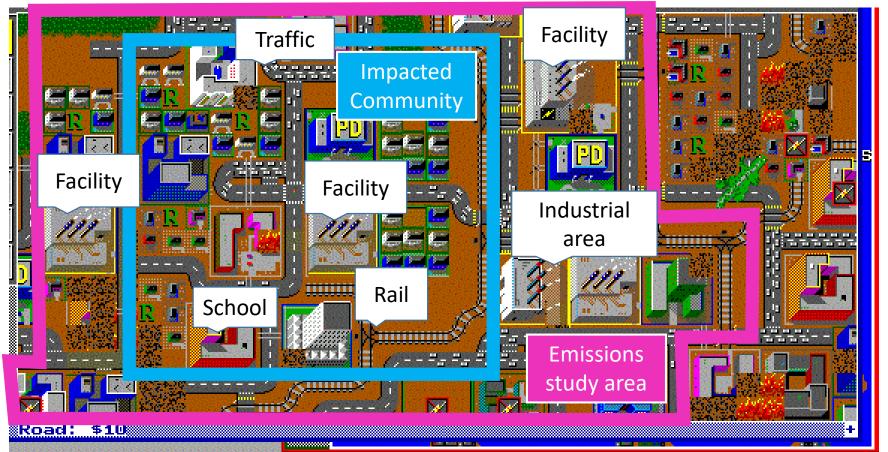
# Sensitive Receptors (11 unique locations)



• Most of the sensitive receptors identified were along the freeways or around heavy truck traffic



## Community Boundaries Example

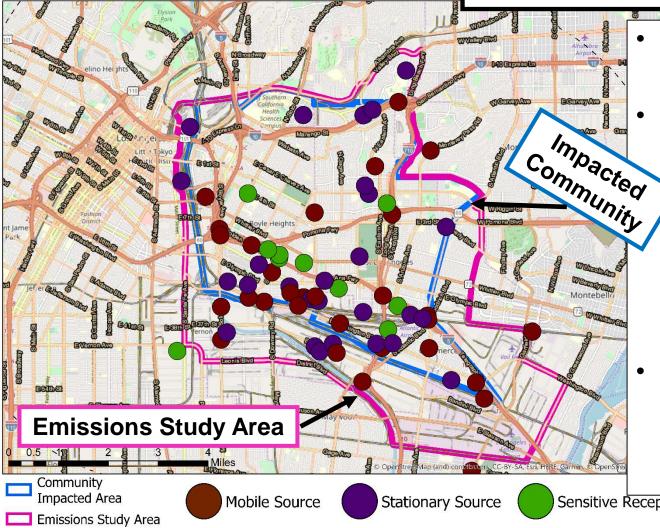


**Impacted Community:** Area of the community where people live, work, go to school, and spend the majority of their time.

**Emissions study area:** Region that includes the sources that affect the Impacted Community.



#### **Updated boundary** for input/discussion



- Community concerns were taken into consideration
- Majority of community concerns fall within the proposed impacted community boundary

Regions within and near the emissions study area will also benefit from the emissions reductions

Warehouse related mobile sources will be addressed. even if the warehouses are located outside the emissions study area

Sensitive Receptor



## Stretch break

#### Come back in 5 minutes



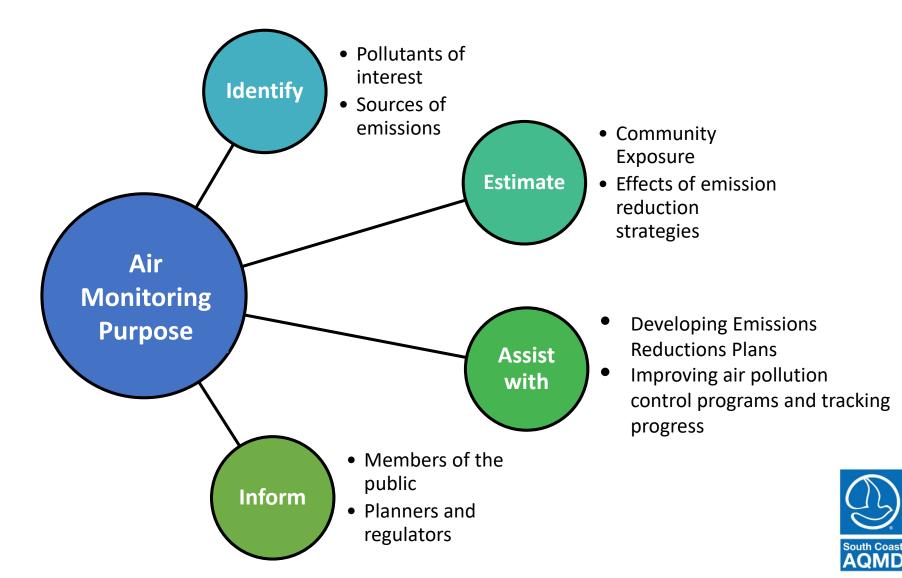
## Developing Community Air Nonitoring Objectives

Thursday, January 24, 2019 East Los Angeles Service Center

Dr. Andrea Polidori Advanced Monitoring Technologies Manager South Coast Air Quality Management District

South Coast

# Why Do We Monitor Air Pollution?



# What Are The Sources Of Air Pollution in this Community?







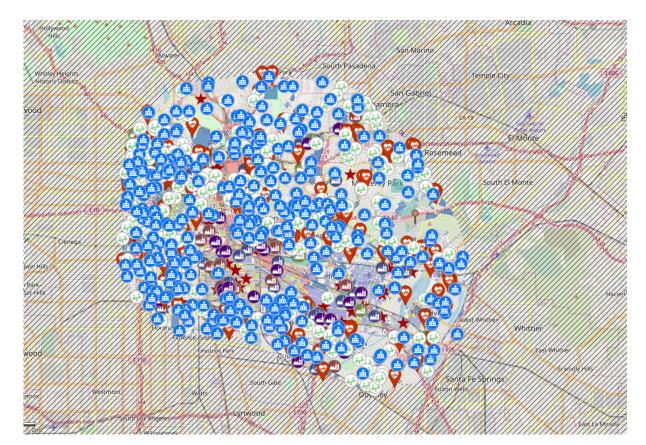


### Sources of Air Pollution and Monitoring Challenges

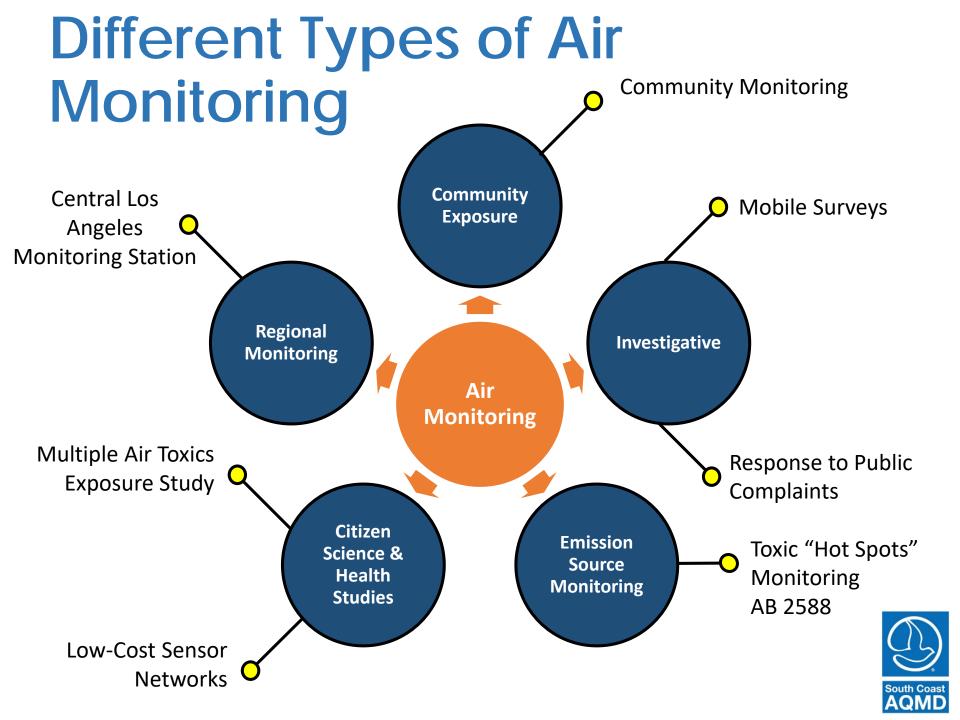
Sensitive Receptors, Industrial Facilities, and Residential, Commercial and Industrial Land Use

#### Monitoring Challenges

- Complex variety of emission sources
- Variety of air pollutants
- Large study area
- Monitor siting
- Complex meteorology





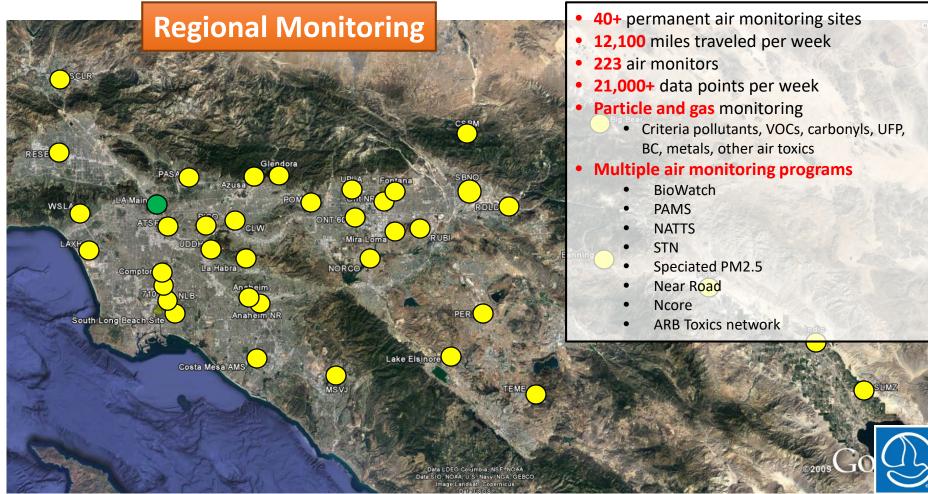


#### What types of monitoring are we doing in Boyle Heights/East Los Angeles/West Commerce?

- SCAQMD has been conducting monitoring in this community ahead of AB 617 monitoring schedule
  - Permanent monitoring programs (Fixed Network, Regulatory, Exide)
  - Sensor deployment in communities (EPA STAR Grant)
    - <u>Visit monitoring posters to learn more</u>
  - Other monitoring studies (MATES, sensor networks, NASA ROSES)
    - <u>Visit monitoring posters to learn more</u>
  - Complaints (1-800-CUT SMOG®)
- We will work with Community Steering Committees to ensure we are addressing the top priorities
- We use a combination of methods
  - Traditional methods Criteria pollutants (FRM, FEM, EPA Guidance)
  - Advanced methods Air toxics (sensors, remote sensing, mobile platforms)



## Permanent Monitoring Programs (Fixed Network, Regulatory)





## Air Monitoring at Exide

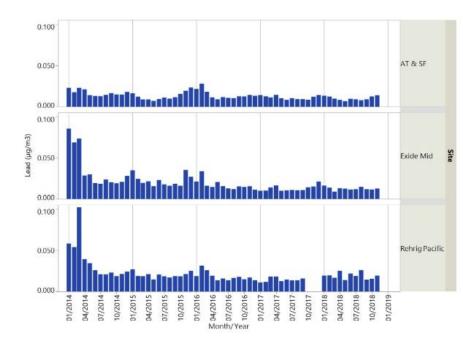
Fenceline Emission Source Monitoring

#### **Reasoning:**

- SCAQMD has been conducting Lead and Arsenic monitoring at Exide since 2007
- Exide also conducts Lead and Arsenic monitoring to satisfy Rule 1420.1 monitoring requirements

#### Findings:

 Overall decreasing trend in Lead levels since the adoption of Rule 1420.1 in 2008





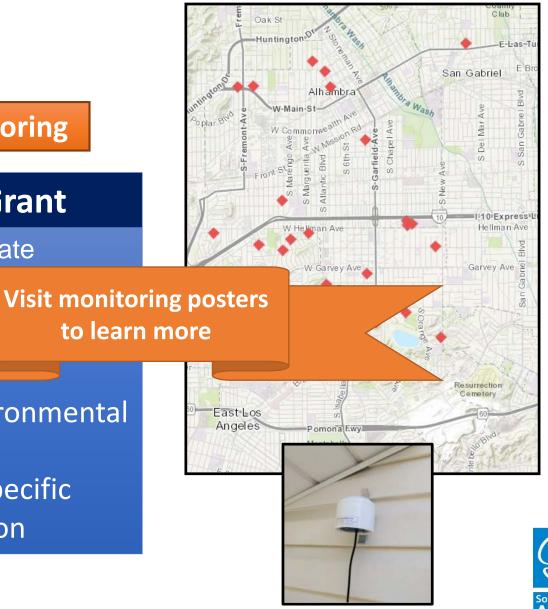
### Sensor Deployment in East LA



#### **U.S. EPA STAR Grant**

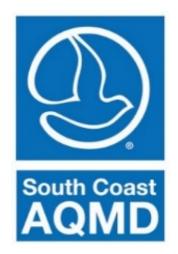
Purpose: to engage, educate and empower California on the use and cost" air monitori targeting:

- Communities in Environmental Justice areas
- Communities near specific sources of air pollution



# AB 617 Community Monitoring Design

Transitioning into AB 617 Monitoring



## **AB 617 Monitoring Efforts**

#### **Regulatory monitoring stations**



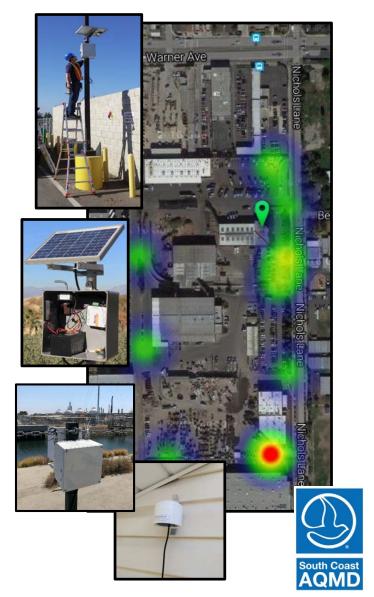
#### **Mobile Platforms**







#### **Low-Cost Sensor Networks**



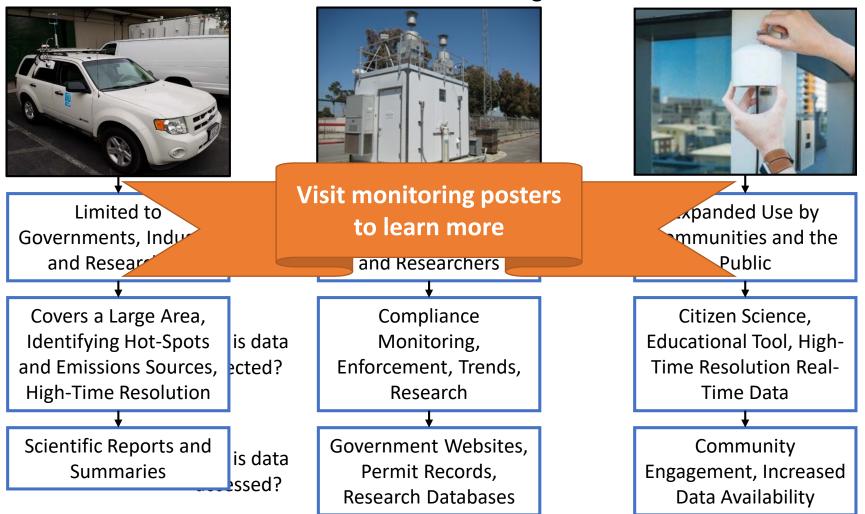
## New Approaches in Air Pollution Monitoring



Low-Cost Sensors

**Mobile Platforms** 

#### **Traditional Monitoring**

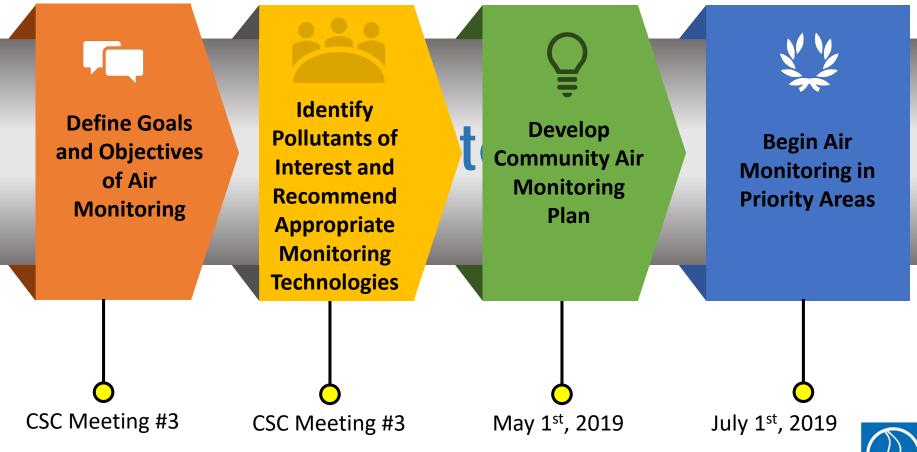


## Air Monitoring Benefits and Limitations

		Reference Monitors	Low Cost Sensor Networks	Mobile Monitoring & Surveys
	Track progress	- <i>V</i>	<ul> <li>Image: A second s</li></ul>	
Applications	Identify emission sources		Image: A start of the start	<ul> <li>Image: A second s</li></ul>
	Identify "hot-spots"		<ul> <li>Image: A start of the start of</li></ul>	<ul> <li>Image: A set of the set of the</li></ul>
	Compliance action	+		
Benefits	Good detection capability	+		+
Benefits	Continuous data		+	+
	Real time data		+	
	High Cost	×		×
Limitations	Number of pollutants detected		×	
	Low accuracy/precision		×	



## Working with the CSC Group





## **Questions?**

South Coast

## CSC charter and other important items

#### 1. Updated CSC charter

- Very few comments received only minor wording changes for clarity
- Please sign and return to SCAQMD staff today, or by Jan 31, 2019

#### 2. Biographies

 Please email to <u>ab617@aqmd.gov</u> as soon as possible so we can post on the webpage

#### 3. Community Tour, including Facility Tour(s)

- Purpose: Providing committee members with an opportunity to share and gain a further understanding of key concerns in the community, as well as operations and clean air technologies at facilities
- Any volunteers/suggestions?



# Meeting facilitator – Update

SCAQMD staff contacted facilitators suggested by CSC members, and are evaluating the firms for best fit.

#### **Facilitator - Key Roles**

- Keep meeting on topic (based on agenda items)
- Make sure participants understand and adhere to the rules stated in the CSC charter
- Help committee members have ownership of the process by ensuring that they make key and timely contributions
- Guide committee members to listen to each other
- Prevent any one participant from dominating the conversation, and seek to obtain as much valuable input as possible (including minority voices) before closing a discussion
- Ensure that the meeting ends on time



# **Current progress**

#### What we've done so far:

- Discussed background on:
  - AB 617 program
  - Air pollution basics
  - Air pollution data in this community
  - Air monitoring technologies
- Gathered input on community air quality issues
- Gathered input on community boundaries

#### Likely topics for Meeting #3:

- Prioritization of air quality issues
  - To address through air monitoring and/or emission reduction plans
- Potential strategies
- Enforcement overview
- Update on RECLAIM/BARCT rule development (possibly Meeting #4)



## Technical Advisory Group (TAG)

**Purpose:** Provide technical input on data and methods for modeling, monitoring, inventory

Current volunteers from this CSC:

Name	Affiliation		
Hector Garcia	Our Lady of Victory Catholic Church		
Marisa Blackshire	BNSF Railway		
Hector-Alessandro	Boyle Heights Neighborhood		
Negrete	Council		
Rafael Yanez	East Los Angeles Resident		

All meetings are open to the public

First TAG meeting is being scheduled for February 27, 2019



Thank you for the hard work! More information on AB 617: www.aqmd.gov/AB617

Email: AB617@aqmd.gov Follow us @SouthCoastAQMD

