

COMMUNITY EMISSIONS REDUCTION PLAN

SAN BERNARDINO, MUSCOY

SEPTEMBER 2019

FINAL

CERP IMPLEMENTATION

UPDATE – 1ST QUARTER 2020

San Bernardino, Muscoy

January 23, 2020

CERP IMPLEMENTATION - UPDATES

Partnerships are key for a successful CERP implementation

CSC involvement and input is critical

**Thank you for
your continued commitment!**



EXAMPLES OF CSC INVOLVEMENT



Participate in CARB and South Coast AQMD rule development process



Disseminate information on reporting idling trucks



Prioritize which schools receive air filtration systems



Prioritize locations for the Automated License Plate Reader (ALPR) systems



AIR QUALITY PRIORITY: WAREHOUSES

IAN MACMILLAN

PLANNING AND RULES MANAGER



WAREHOUSES

Proposed Indirect Source Rule (ISR) for Warehouses

- Discussion draft rule language released Nov. 10, 2019
www.aqmd.gov/docs/default-source/planning/fbmsm-docs/warehouse-isr_prelim-1st-draft.pdf
- Currently planning to bring draft rule to South Coast AQMD Board for consideration in May 2020

Rule Development Update

- Warehouse ISR aims to:
 - Require and facilitate local and regional emission reductions together with all other state and federal activities
- Warehouse Actions and Incentives to Reduce Emissions – WAIRE Program
 - Menu-based points system, similar to LEED
 - ZE/NZE truck visits, charging infrastructure, etc.
 - Stringency of rule under development
- Stakeholder input welcome
 - www.aqmd.gov/fbmsm for more information
 - Contact: Victor Juan
vjuan@aqmd.gov, 909 396-2374



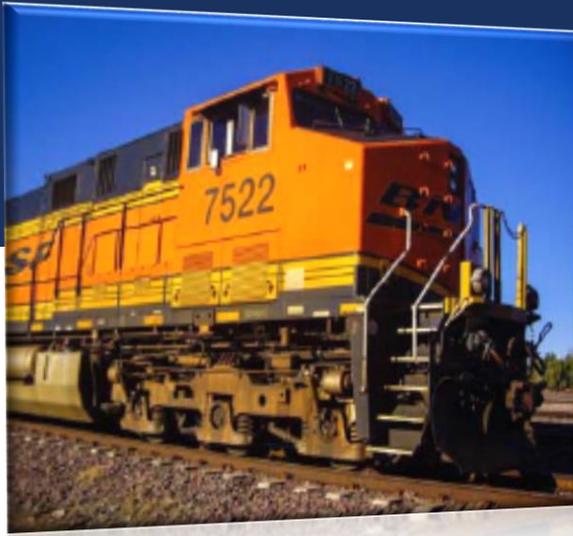
AIR QUALITY PRIORITY: RAILYARDS

IAN MACMILLAN

PLANNING AND RULES MANAGER



South Coast
AQMD



INDIRECT SOURCE RULE - RAILYARDS

Proposed Indirect Source Rule (ISR) for Locomotives

- CARB & South Coast AQMD jointly held community workshops to discuss concepts to reduce emissions from locomotives and railyards (Nov. & Dec. 2019)
 - Video from San Bernardino meeting available: <https://youtu.be/uWrCDZEFvII>

Different Authorities:

U.S. EPA



- Can regulate locomotive engine emission standards

CARB



- Can regulate locomotive activities within California
- Primary Mobile Source Authority

South Coast AQMD



- Primarily Stationary and Indirect Source Authority (facilities that attract mobile sources)

PROPOSED NEW STRATEGIES

CARB Concepts

1. Establish a Locomotive Emissions Reduction Spending Account

- Funding provided by railroads

2. In-Use Locomotive Remanufacture Limit

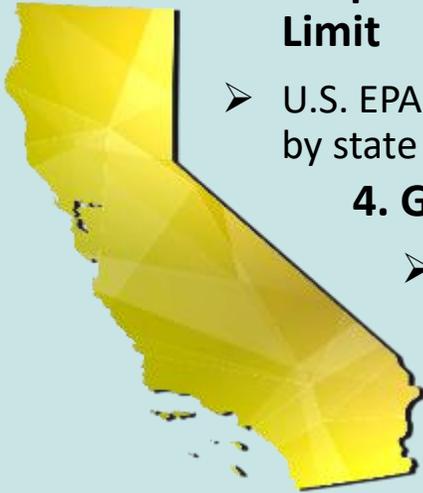
- Would allow only one remanufacture using older engine technologies

3. Adopt U.S. EPA 30 Minute Idling Limit

- U.S. EPA rule becomes enforceable by state (and potentially air districts)

4. Genset Repurposing

- Replace older switchers at smaller railroads with cleaner, used switchers from BNSF/UP



South Coast AQMD Concepts

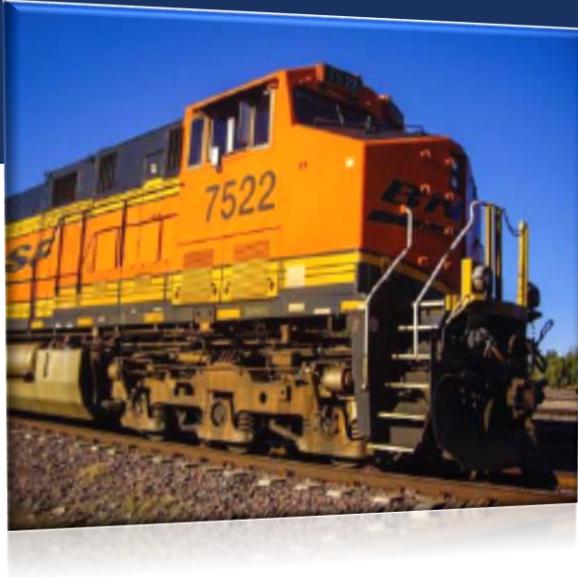
1. Indirect Source Rule (ISR) to Reduce Exposures from Locomotive Maintenance and Service Emissions

2. ISR to Require Facility-Specific Engineering Plans for Zero Emissions Operations

3. New Incentive Program Focused on Cleanest Locomotive Use Rather than Locomotive Replacement

4. Evaluate New Monitoring Approaches for In-Use Locomotives





NEXT STEPS - RAILYARDS

- Continue stakeholder outreach
 - CARB plans to hold additional workshops statewide
- ISR to South Coast AQMD Board for consideration in Dec. 2020
- Air Resource Board considers locomotive rules in 2021

Contacts:

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freight@arb.ca.gov

www.arb.ca.gov/rail_concepts

South Coast AQMD

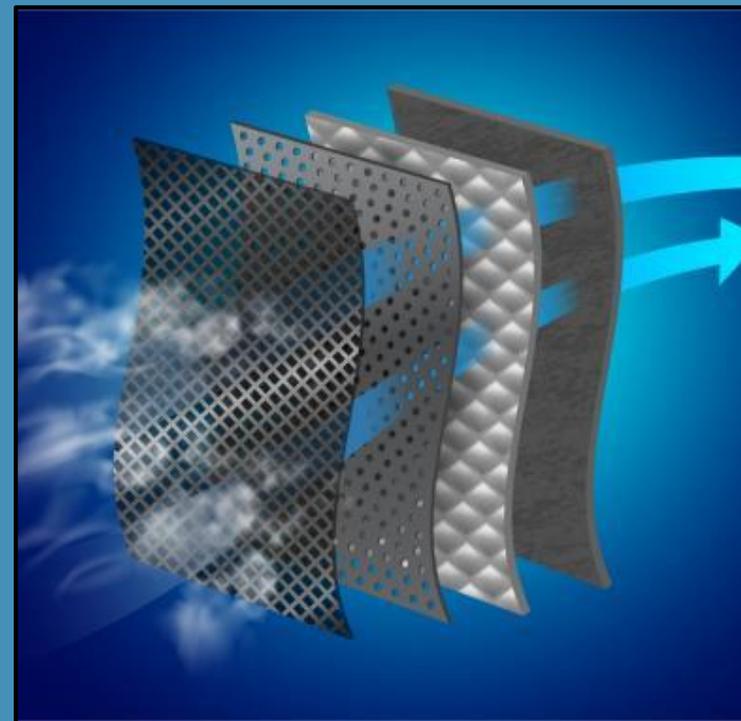
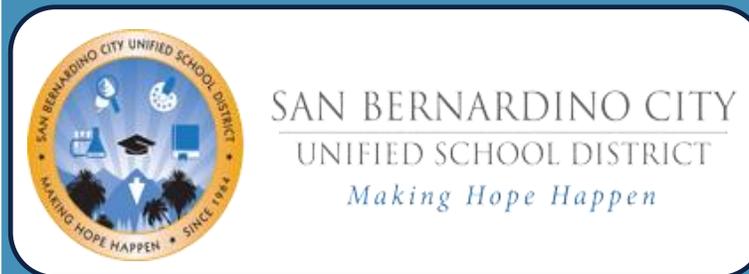
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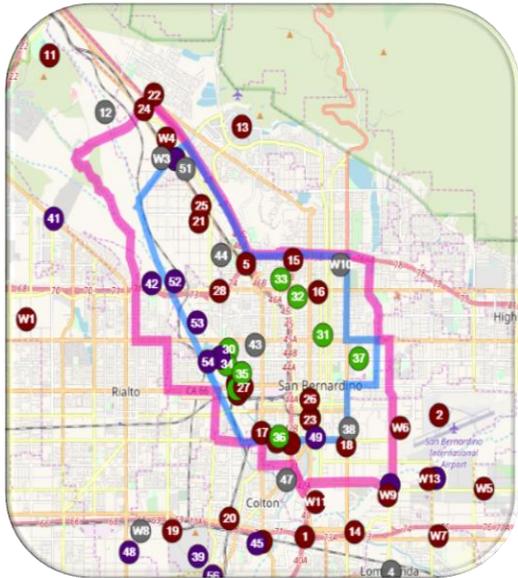
AIR QUALITY PRIORITY: EXPOSURE REDUCTION AT SCHOOLS

ROBERT DALBECK

ASSISTANT AIR QUALITY SPECIALIST



REDUCE EXPOSURE TO HARMFUL AIR POLLUTANTS

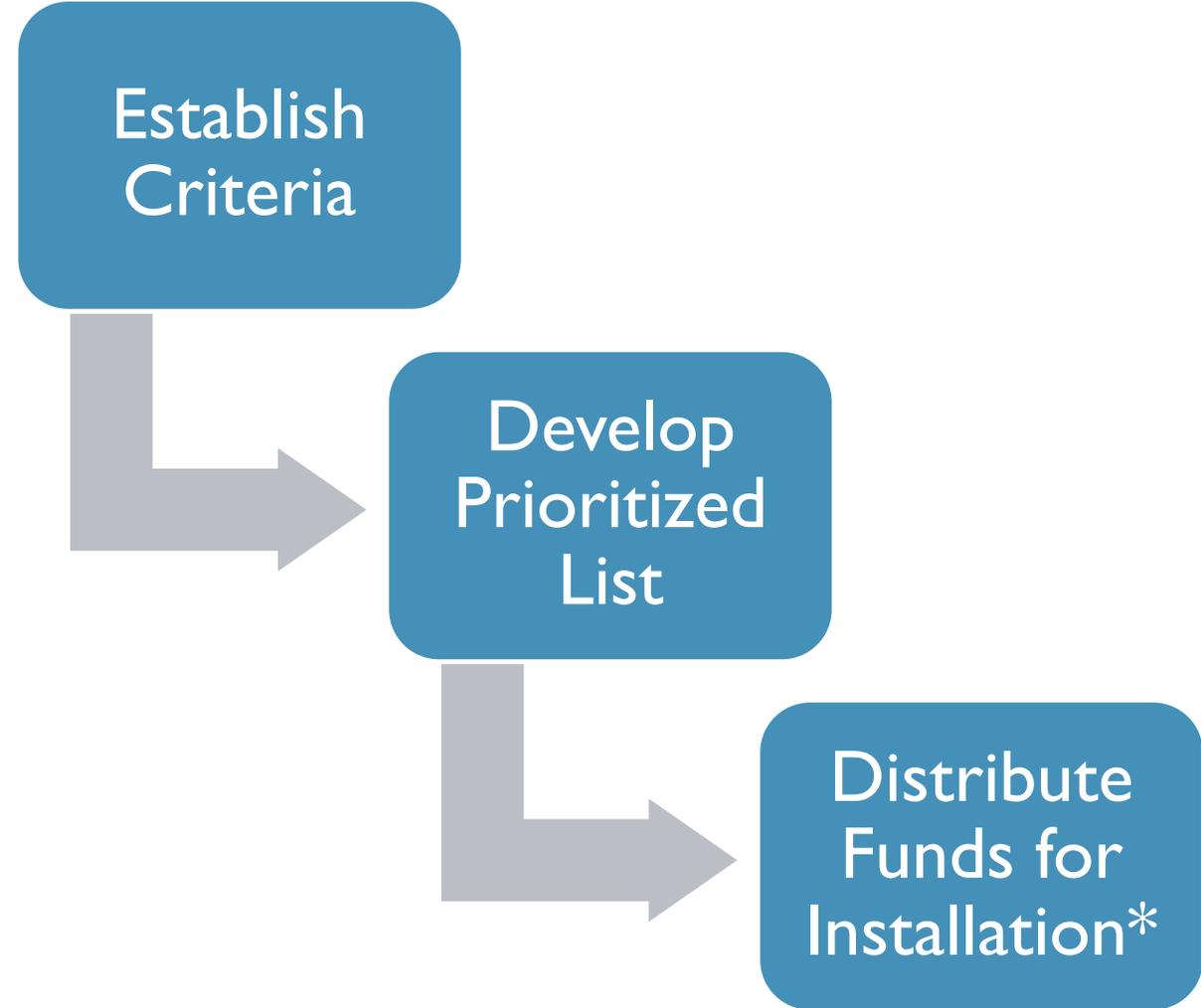


Reduce Exposure to Harmful Air Pollutants at Schools, Childcare Centers, and Community Centers (Chapter 5g, Action 2 of the CERP)

- Work with entities (e.g., school districts) to install air filtration systems
- Priority given to schools, community and childcare centers near truck routes, railyards and concrete batch plants

AIR FILTRATION INSTALLATION PROCESS

AQ Priority: Schools



* Installation of air filtration systems is dependent on funding criteria, potentially affecting the order of the prioritized list.

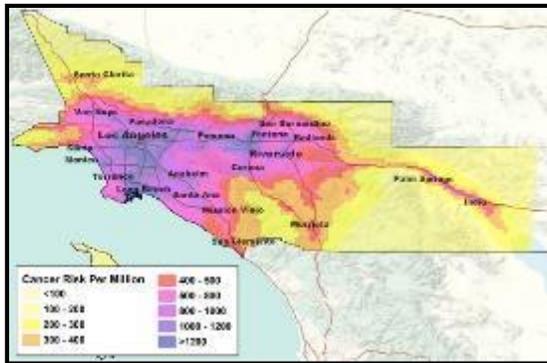
PURPOSE OF DEVELOPING A PRIORITIZED LIST

- To seek community input on school site selection within the CERP boundary
- Reduce the time necessary for site selection as funding becomes available
- Continue to demonstrate the need for additional funding

PRIORITIZATION FOR AIR FILTRATION SYSTEMS

- Some public school districts use the following criteria or information to prioritize school locations in greatest need of air filtration systems:

Existing Criteria:



**Multiple Air Toxics
Exposure Study
(MATES) III – 2008**

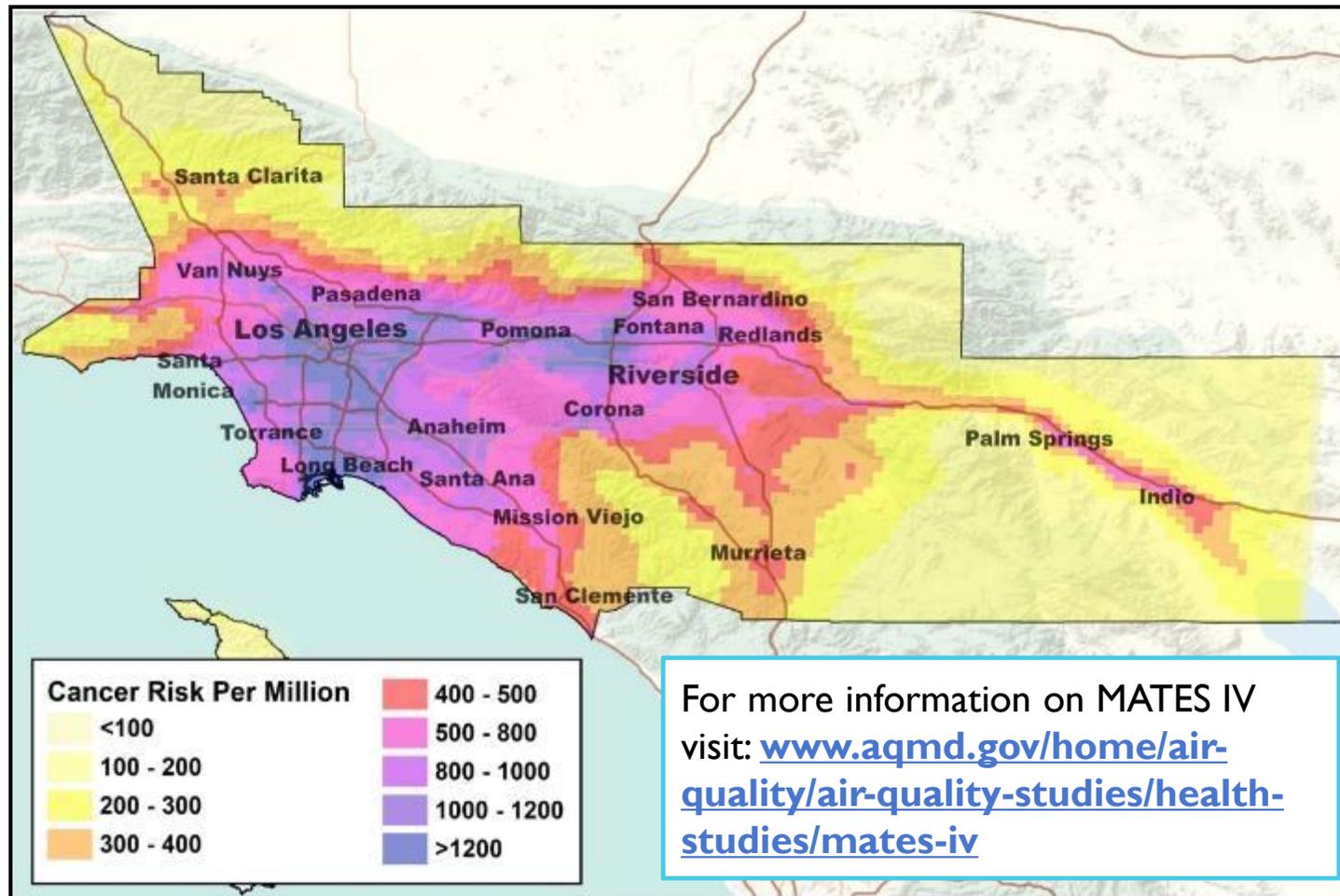


**Proximity to Major
Stationary Sources
of Air Pollution**

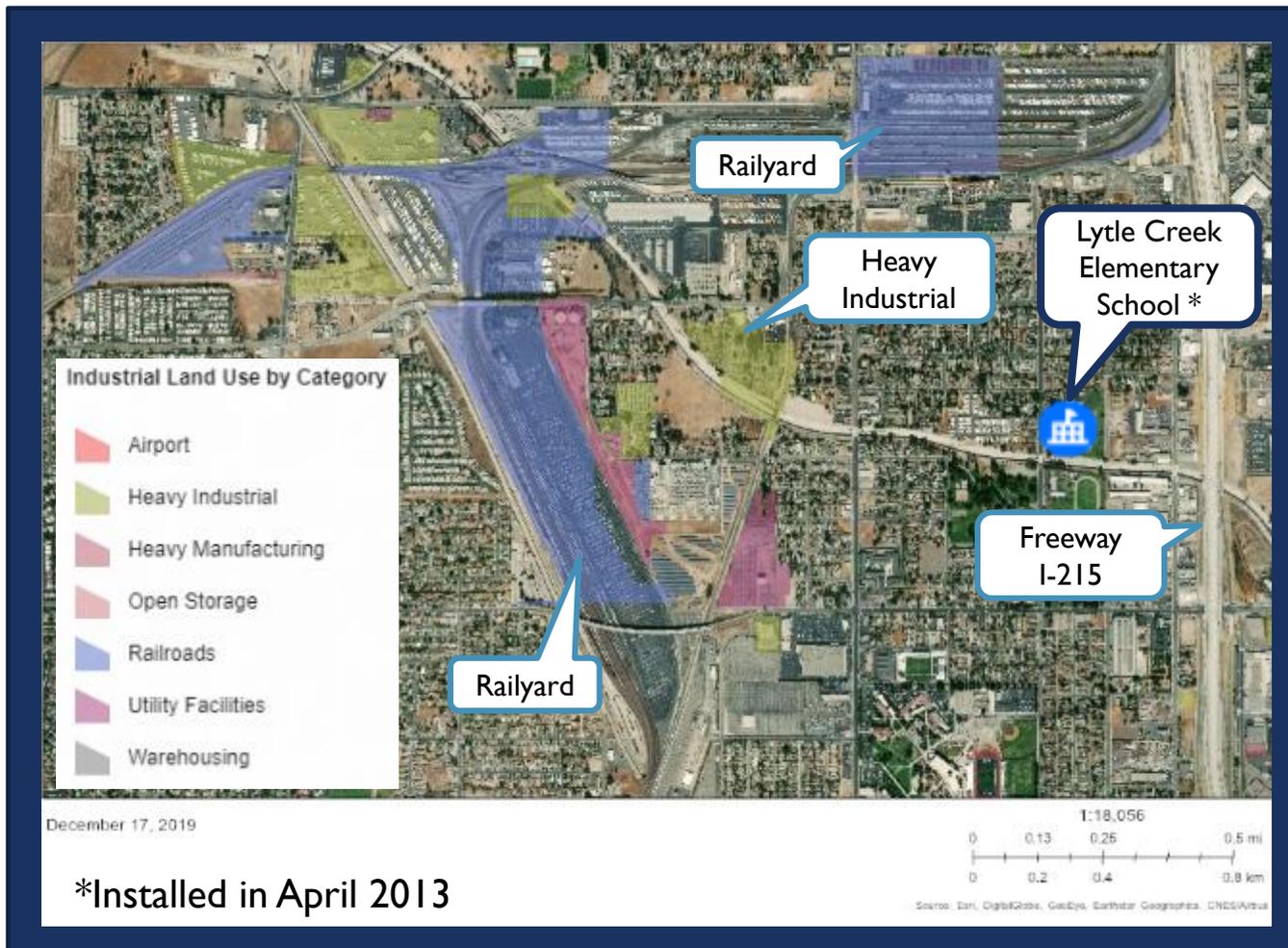


**Proximity to
Freeways**

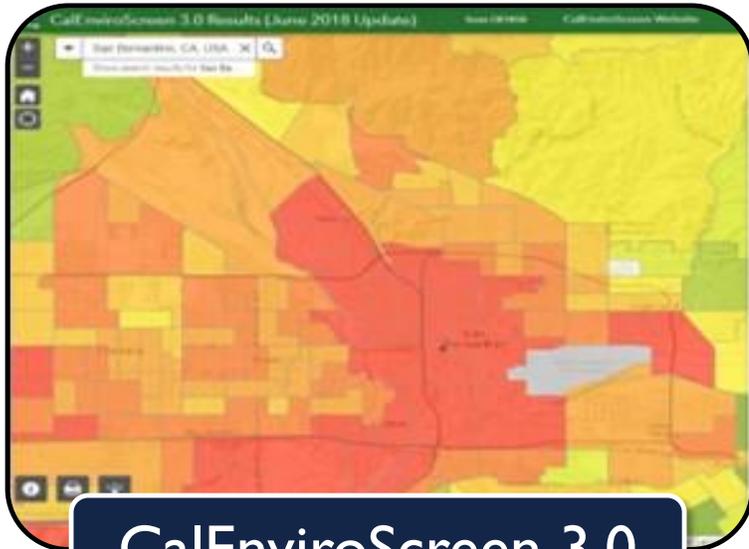
MULTIPLE AIR TOXICS EXPOSURE STUDY (MATES)



PROXIMITY TO SOURCES OF AIR POLLUTION OR FREEWAYS



ADDITIONAL PRIORITIZATION CRITERIA



CalEnviroScreen 3.0

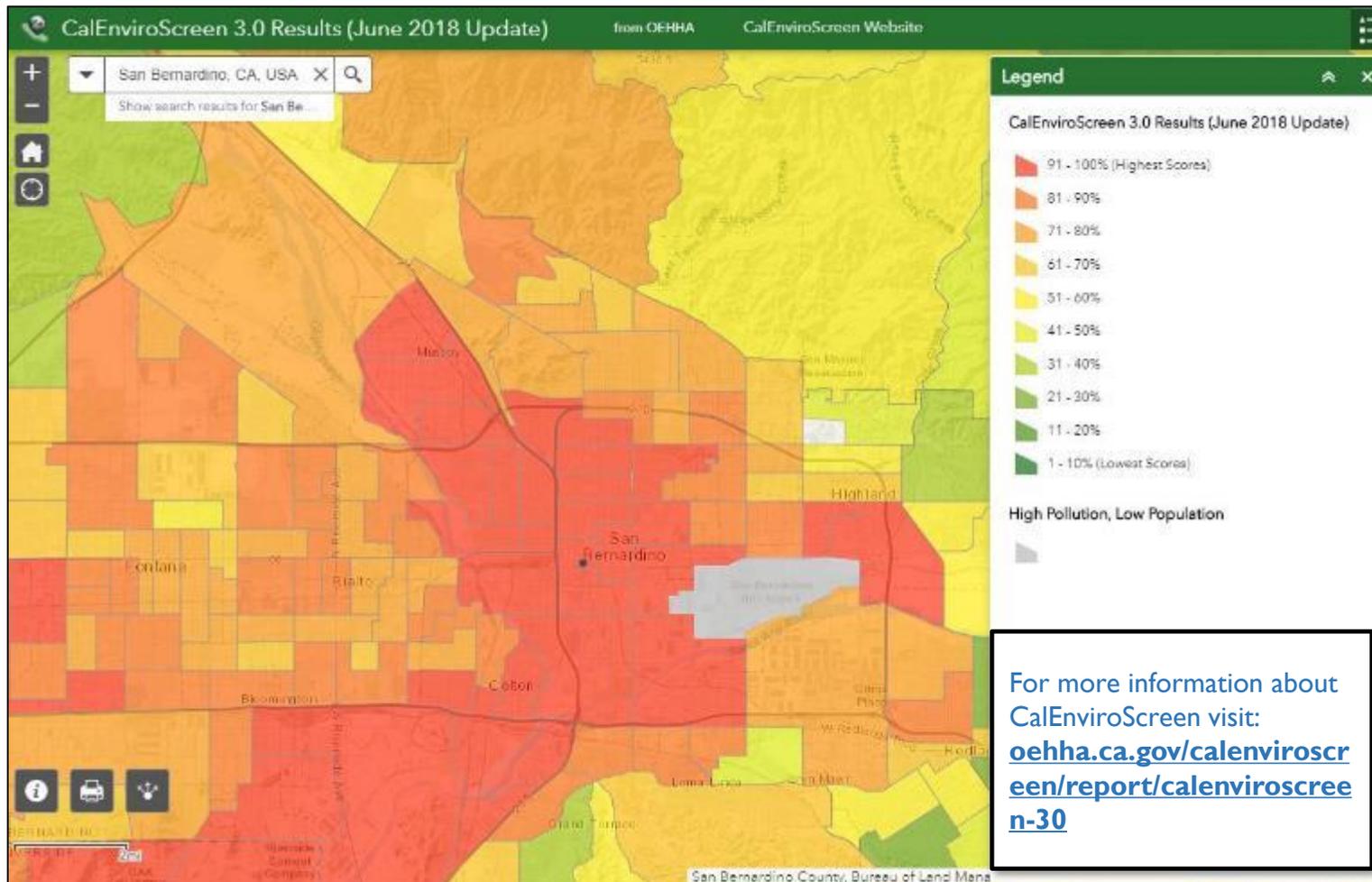


CalTrans Traffic Data



School Characteristics

CALENVIROSCREEN 3.0 (OEHHA)

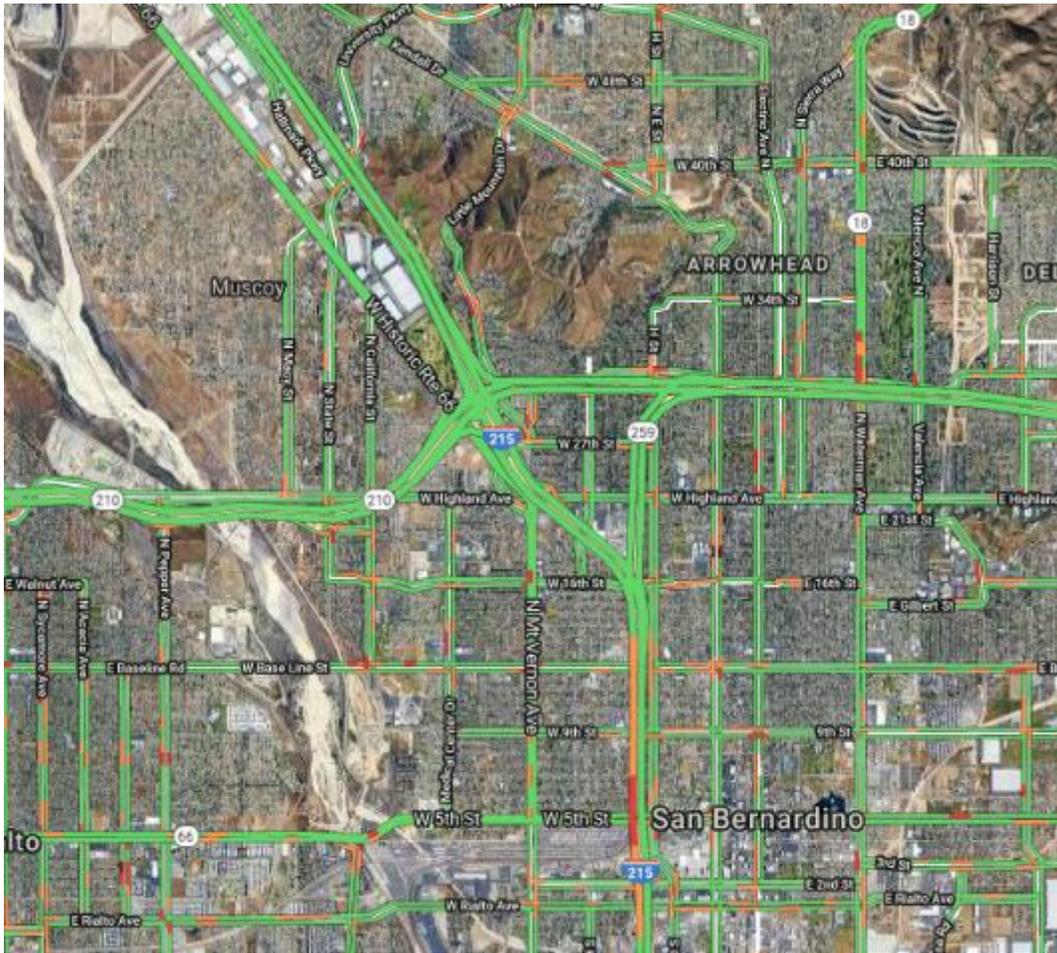


Pollution Burden		Pollution Burden	
Exposures Ozone PM2.5 Diesel PM Pesticide Use Traffic Drinking Water Contaminants Toxic Releases from Facilities		Environmental Effects Solid Waste Sites and Facilities Cleanup Sites Groundwater Threats Impaired Water Bodies Hazardous Waste Generators and Facilities	
Population Characteristics		Population Characteristics	
Sensitive Populations Asthma Cardiovascular Disease Low Birth-Weight Infants		Socioeconomic Factors Poverty Unemployment Educational Attainment Linguistic Isolation Housing Burdened Low Income Households	

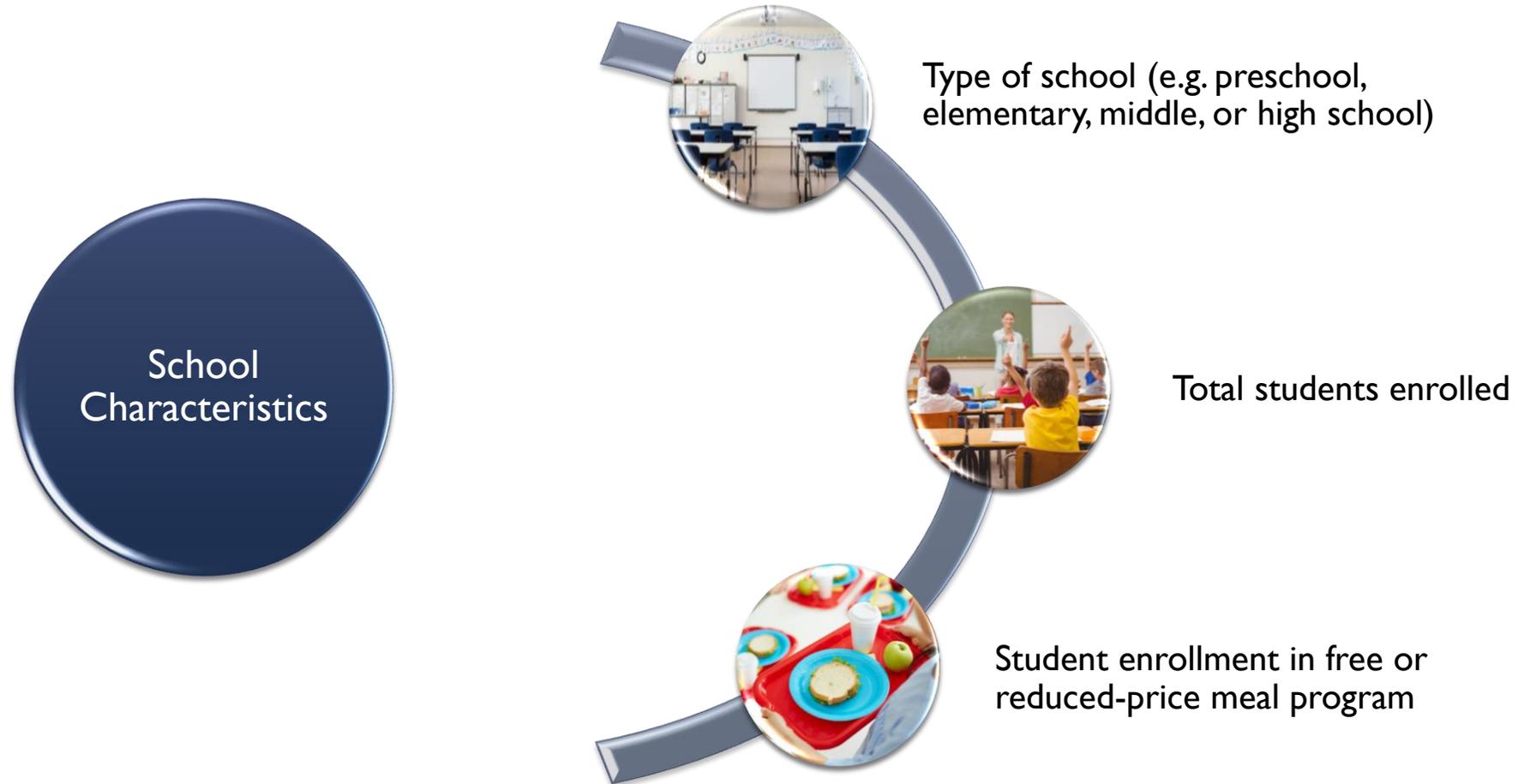
OEHHA: Office of Environmental Health Hazard Assessment
(State agency)



TRAFFIC CONGESTION SURROUNDING SCHOOL



SCHOOL CHARACTERISTICS



PRIORITIZATION FOR AIR FILTRATION SYSTEMS ACTIVITY

Example:

Criteria and Brief Description	Rank # (1 – 5)*
<p>Multiple Air Toxics Exposure Study IV (MATES IV) Focuses on the cancer risk from exposure to air toxics across the South Coast Air Basin.</p>	
<p>CalEnviroScreen 3.0 Identifies California communities by census tract that are disproportionately burdened by, and vulnerable to, multiple sources of pollution.</p>	
<p>CalTrans Traffic Data Traffic data can show where congestion occurs. Congestion can result in idling vehicles and create an increase emissions around nearby schools.</p>	
<p>School Characteristics <i>(Please check the box next to the school characteristic you think should be included)</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> Highest priority for preschools, followed by elementary, middle, then high schools <input type="checkbox"/> Higher priority for schools that have more students <input type="checkbox"/> Higher priority for schools with higher percent of students enrolled in free or reduced-price meal program 	
<p>Nearby Sources of Air Pollution <i>Please list which three sources of air pollution that are of most concern when they are near schools. For example, air pollution sources can be warehouses, railyards, industrial facilities, and freeways.</i></p> <p>1) _____</p> <p>2) _____</p> <p>3) _____</p>	

*There should be no duplicate values in your ranking.

South Coast AQMD's AB 617 web page:

www.aqmd.gov/AB617

Download
South Coast
AQMD's
Mobile App

APPLICATION FEATURES



Detailed Monitored Data

Real-time & Forecasted Air Quality

Connect with SCAQMD

AQI on Your Wrist (Apple Watch)

ADDITIONAL FEATURES

- Configurable air quality notifications
- Integrated temperature
- Animated weather background
- Interactive air quality map
- Alternative fuel
- Call 1-800-CUT-SMOG at the touch of a button

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