# Who is the SCAQMD?

Regional Government Agency Responsible for Protecting Our Residents from the Health Effects of Air Pollution

What we do
- Develop **Air Quality Management Plan**
- Adopt air quality **rules and regulations**
- Issue **permits**
- Conduct **periodic inspections and respond** to air quality complaints
- Develop and deploy **clean technology**
- Conduct **air monitoring**
- **Engage** with all stakeholders
- **Public outreach and education**
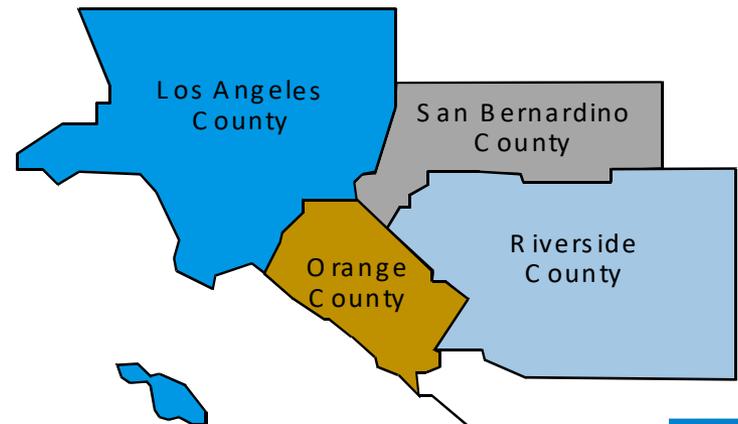
Los Angeles County

San Bernardino County

Riverside County

Orange County

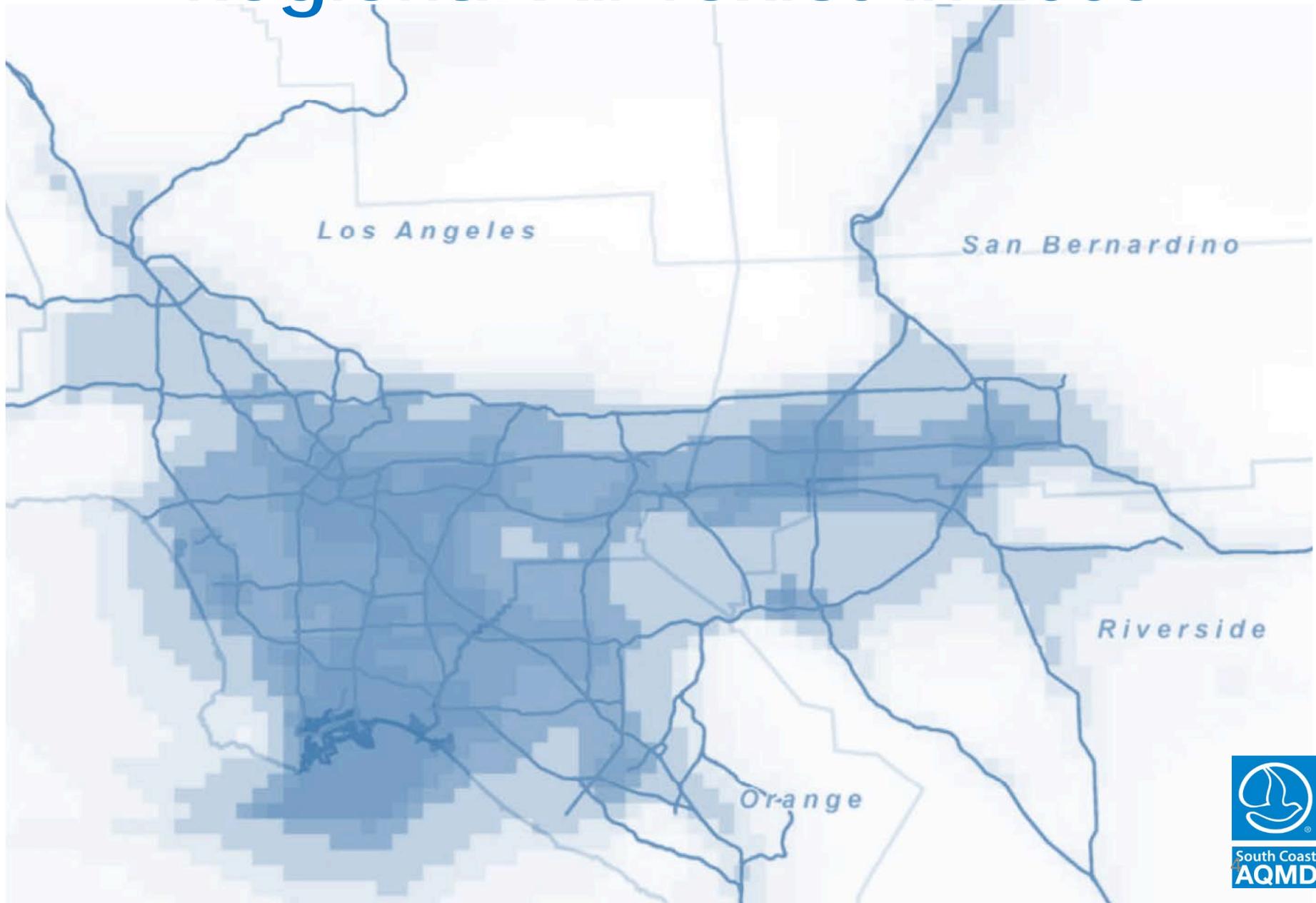South Coast AQMD

Regional Air Toxics in 2005

Regional Air Toxics in 2012
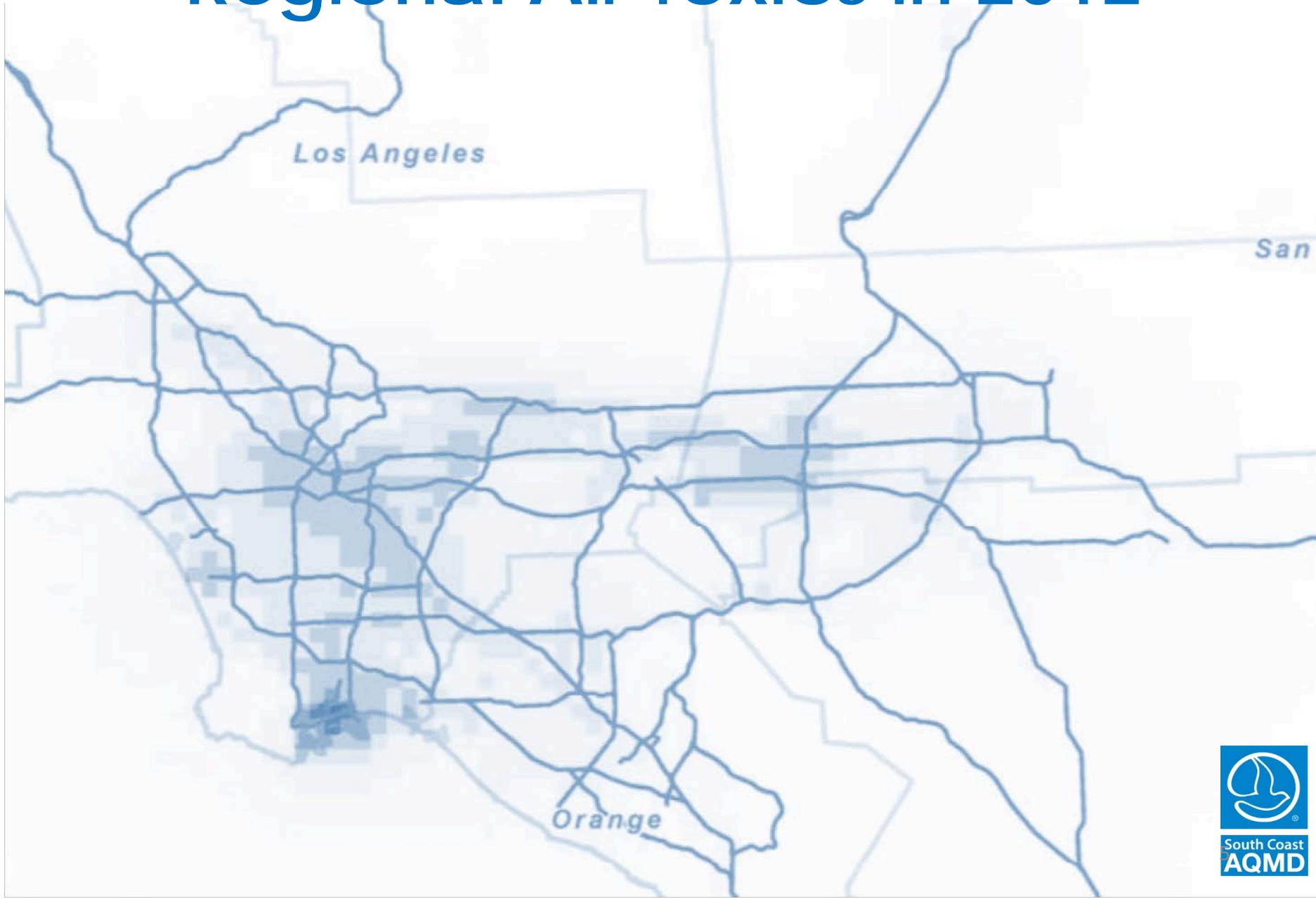
Regional Air Toxics in 2012

Key elements of AB 617

Community Air Monitoring

Community Emission Reduction Plans

Easier Access to Emissions Data

Community centered

Best Emission Controls

Clean Technology Investments

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Community Identification & Prioritization for AB 617

Community Identification/ Prioritization

- AB 617 is an ongoing program (year/decades)
- **The California Air Resources Board (CARB) likely to select 5-10** communities for 1st year across the state
- Significant workload to implement in each community

Community Air Monitoring

Community Emission Reduction Plan

Cleaner Air

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Guiding Principles

- Prioritize <u>disadvantaged communities</u> that are disproportionately affected by <u>air pollution.</u>

- Utilize appropriate <u>existing data and tools</u>, especially those that have gone through the <u>public process.</u>

- Thoughtfully consider and integrate <u>public input.</u>

- Prioritize communities with known <u>local sources of air pollution</u> where Community Plans would have significant and additional positive impacts.

- Work toward <u>promoting health equity</u> by prioritizing most heavily burdened and disadvantaged communities.

Outline of the process

1. **Feb-May 2018**: SCAQMD staff conducted community meetings to seek input on criteria for <u>community identification</u>

2. **Feb-May 2018**: SCAQMD staff received community <u>nominations</u> from community members and organizations (148 nominations from 21 communities)

3. **Apr-May 2018**: SCAQMD staff provided reports to the California Air Resources Board (CARB), with a list of <u>communities under consideration</u>

4. **May-Jun 2018**: SCAQMD staff conducting community meetings to seek input on criteria for <u>community prioritization</u>

5. **July 2018:** SCAQMD provides report to CARB with recommendations on <u>implementation schedule</u>

Key input received to date

Air pollution sources

Diesel sources (freeways, trucks, warehouses, railyards)

Oil production & processing (wells, refineries)

Landfills, scrap yards, hazardous waste sites

Proximity/land use factors

Schools near air pollution sources/ industrial areas

Concentration of industries

Green spaces

Population factors

Population density

Low income

Communities of color

Access to healthcare

Asthma, cancer rates

Education levels

Children & elderly

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Preliminary List of Communities Under Consideration
(Alphabetical order, 53 communities)

LOS ANGELES COUNTY
- Azusa / Duarte / Monrovia / Arcadia / North 605
- Bell / Bell Gardens / Commerce / Maywood / Cudahy
- Canoga Park / Northridge / Reseda / Van Nuys / Panorama City / Winnetka / Tarzana
- Commerce / Maywood / Bell / Bell Gardens /Cudahy / Vernon
- Compton / Rancho Dominguez / Willowbrook / Lynwood
- Culver City (East) / Palms (East)
- Downey / Bellflower / Lakewood (North) / Cerritos (North)
- Downtown Los Angeles / East Los Angeles / Boyle Heights
- El Monte / South El Monte / Avocado Heights / Hacienda Heights / West La Puente
- Gardena / Alondra Park / Lawndale
- Glendale (Central & South) / Burbank
- Hollywood / Los Feliz / Atwater Village / Echo Park / Silver Lake
- Inglewood / Hawthorne / Westmont / Vermont
- La Puente / Covina / West Covina / Baldwin Park
- Long Beach (East)
- LAX / Lennox / El Segundo
- Montebello
- Pacoima / North Hollywood / Sun Valley / San Fernando / Sylmar
- Paramount / Long Beach (North)

- Pasadena near I-210
- Porter Ranch
- San Gabriel / Rosemead / Monterey Park / Alhambra (South)
- Santa Fe Springs / Norwalk / West Whittier / Los Nietos / Pico Rivera
- South Gate / Huntington Park / Florence – Firestone / Walnut Park
- South Los Angeles / South East Los Angeles / Hyde Park
- Torrance
- Westlake / Korea Town / Midcity / Mid-Wilshire
- Wilmington / Long Beach (West) / Carson / San Pedro / West Carson / Harbor City (East)

ORANGE COUNTY
- Anaheim / Fullerton / Orange
- Costa Mesa
- Huntington Beach
- La Habra
- Santa Ana
- Westminster / Garden Grove / Stanton

RIVERSIDE COUNTY
- Beaumont
- Corona / Temescal Valley
- Indio / Eastern Coachella Valley
- Hemet / San Jacinto
- Lake Elsinore
- Mira Loma / Jurupa Valley / Eastvale / Pedley
- Moreno Valley
- Perris / Nuevo
- Riverside (Central & East) / Rubidoux
- Riverside (West)

SAN BERNARDINO COUNTY
- Bloomington / Fontana / Rialto
- Colton / Grand Terrace / San Bernardino (Southwest)
- Highland / Crestline
- Rancho Cucamonga / Ontario (East)
- Redlands / Loma Linda
- San Bernardino / Muscoy

CROSS COUNTY
- Cerritos / Buena Park / Artesia / La Mirada / Hawaiian Gardens
- Ontario (West) / Montclair / Upland / Claremont (South)
- Pomona / Chino / Walnut (East) / San Dimas (South)

CARB likely to select
5 to 10 communities
statewide for year 1

Map of communities under consideration for AB 617

Communities under consideration

SCAQMD Boundary

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NR GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), sw MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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Communities in Orange County
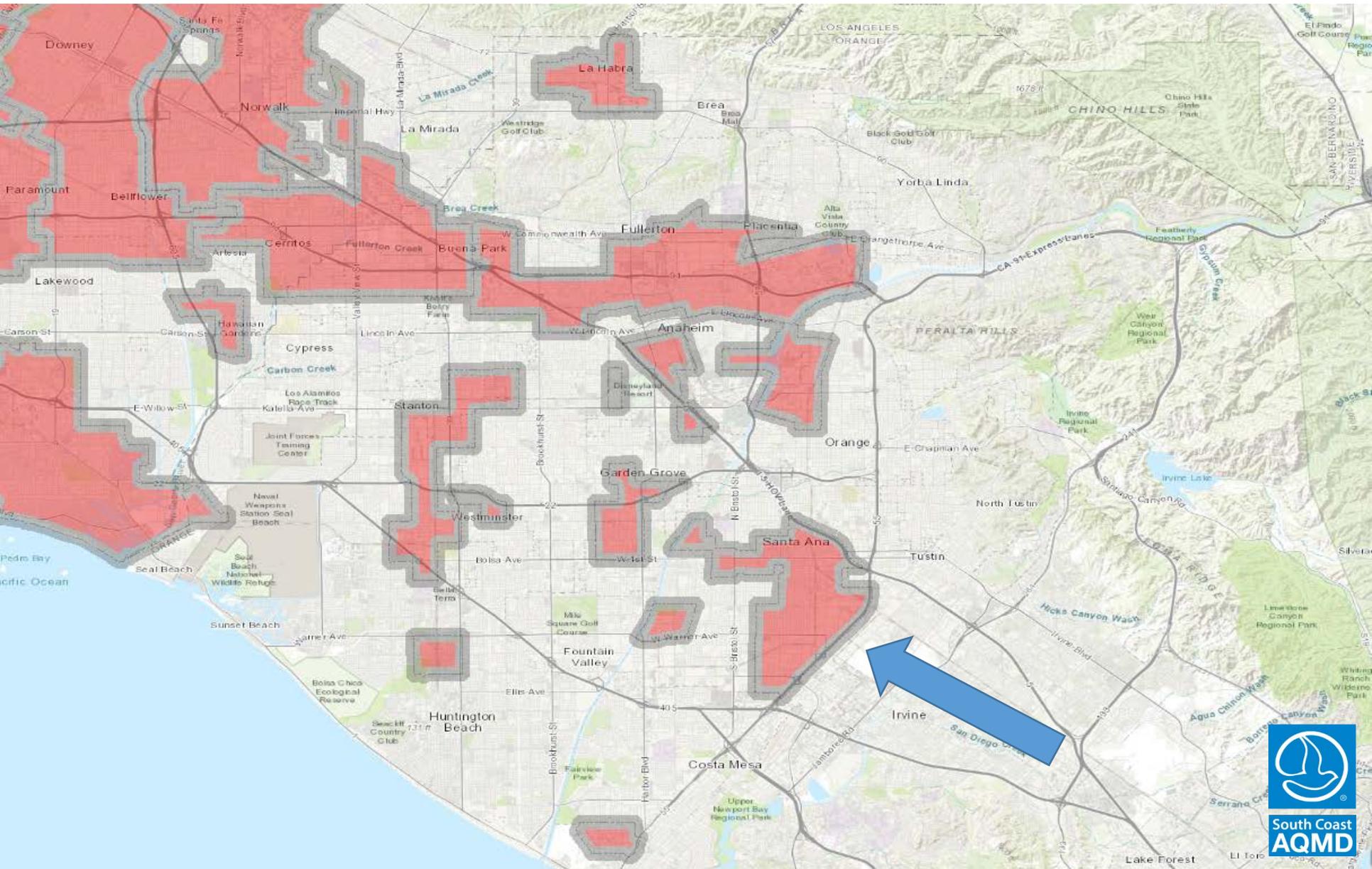
Proposed methods and Criteria for Initial Community Prioritization

➢ Start with preliminary list

➢ Evaluate factors for each community:

- **MATES IV** air toxics cancer risk
- **CalEnviroScreen 3.0** score
- Average **school** proximity to **industrial land use** and **freeways**
- **Special monitoring studies** conducted by SCAQMD that identified elevated criteria pollutants or air toxics
- **Self-recommendations** received

➢ Combine into overall priority level

➢ **Now seeking public input**

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Multiple Air Toxics Exposure Study (MATES IV)

Data from 2012
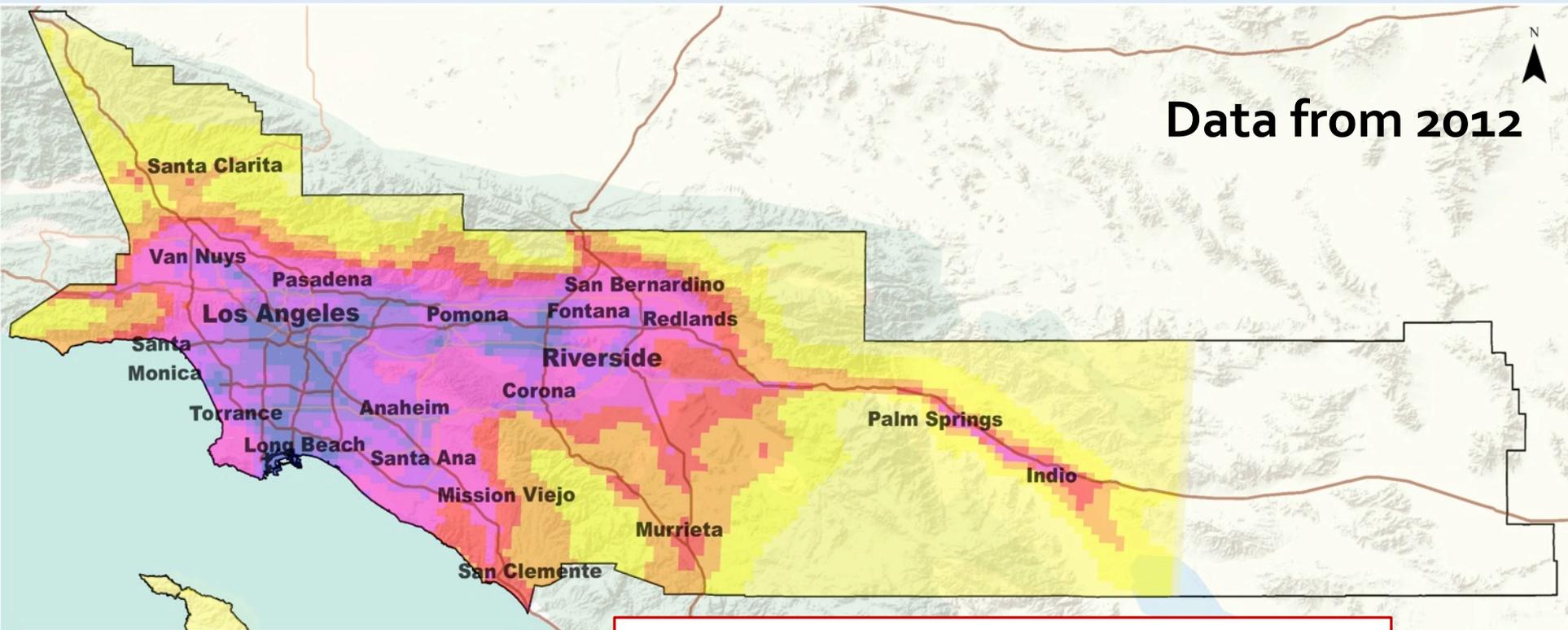
Cancer Risk Per Million

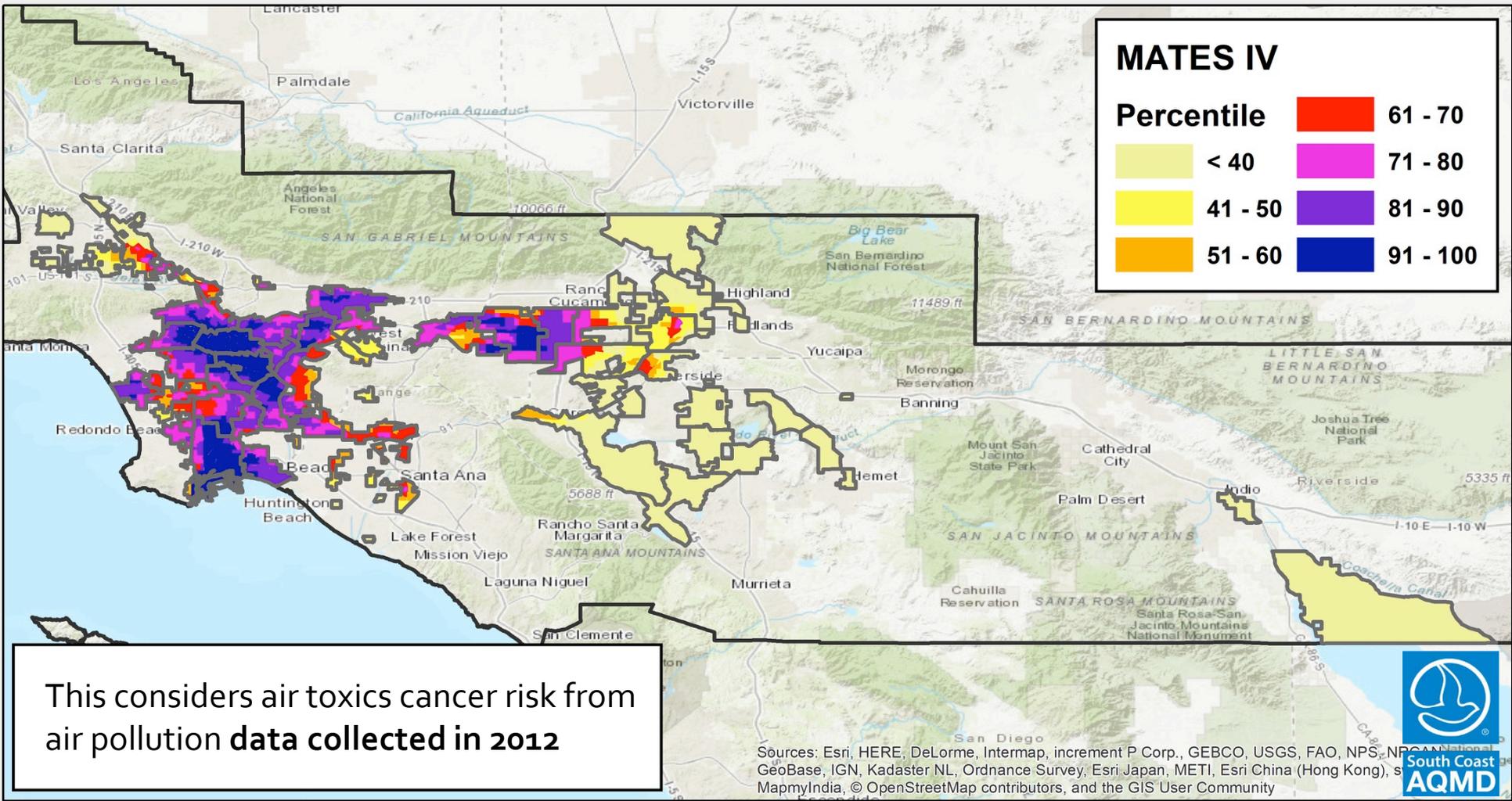| Color	Range
	<100
	100 - 200
	200 - 300
	300 - 400
	400 - 500
	500 - 800
	800 - 1000
	1000 - 1200
	>1200

Main findings:
- **Diesel Particulate Matter (PM)** accounted for 2/3 of air toxics cancer risk
- **Ports (ships), rail yards and goods movement corridors (trucks)** are large sources of diesel PM.

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Sources: Esri, USGS, NOAA

MATES IV ranking in communities under consideration

MATES IV

Percentile

< 40	61 - 70
41 - 50	71 - 80
51 - 60	81 - 90
	91 - 100

This considers air toxics cancer risk from air pollution **data collected in 2012**

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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Multiple Air Toxics Exposure Study (MATES IV)

10 COMMUNITIES WITH THE HIGHEST SCORE IN THIS METRIC

Los Angeles County:
- Commerce / Maywood / Bell / Bell Gardens / Cudahy / Vernon
- East Los Angeles / Boyle Heights / Downtown Los Angeles
- East Long Beach
- El Monte / South El Monte / Avocado Heights / Hacienda Heights / West La Puente
- Hollywood / Los Feliz / Atwater / Echo Park / Silverlake
- LAX / Lennox / El Segundo
- South Los Angeles / South East Los Angeles / Hyde Park
- South Gate / Huntington Park / Florence Firestone / Walnut Park
- West Lake / Korea Town / Mid-City / Mid-Wilshire
- Wilmington / West Long Beach / Carson / San Pedro / Harbor City

CalEnviroScreen 3.0 (OEHHA)

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

Sensitive Populations
- Asthma
- Cardiovascular Disease
- Low Birth-Weight Infants

Social and Economic Factors
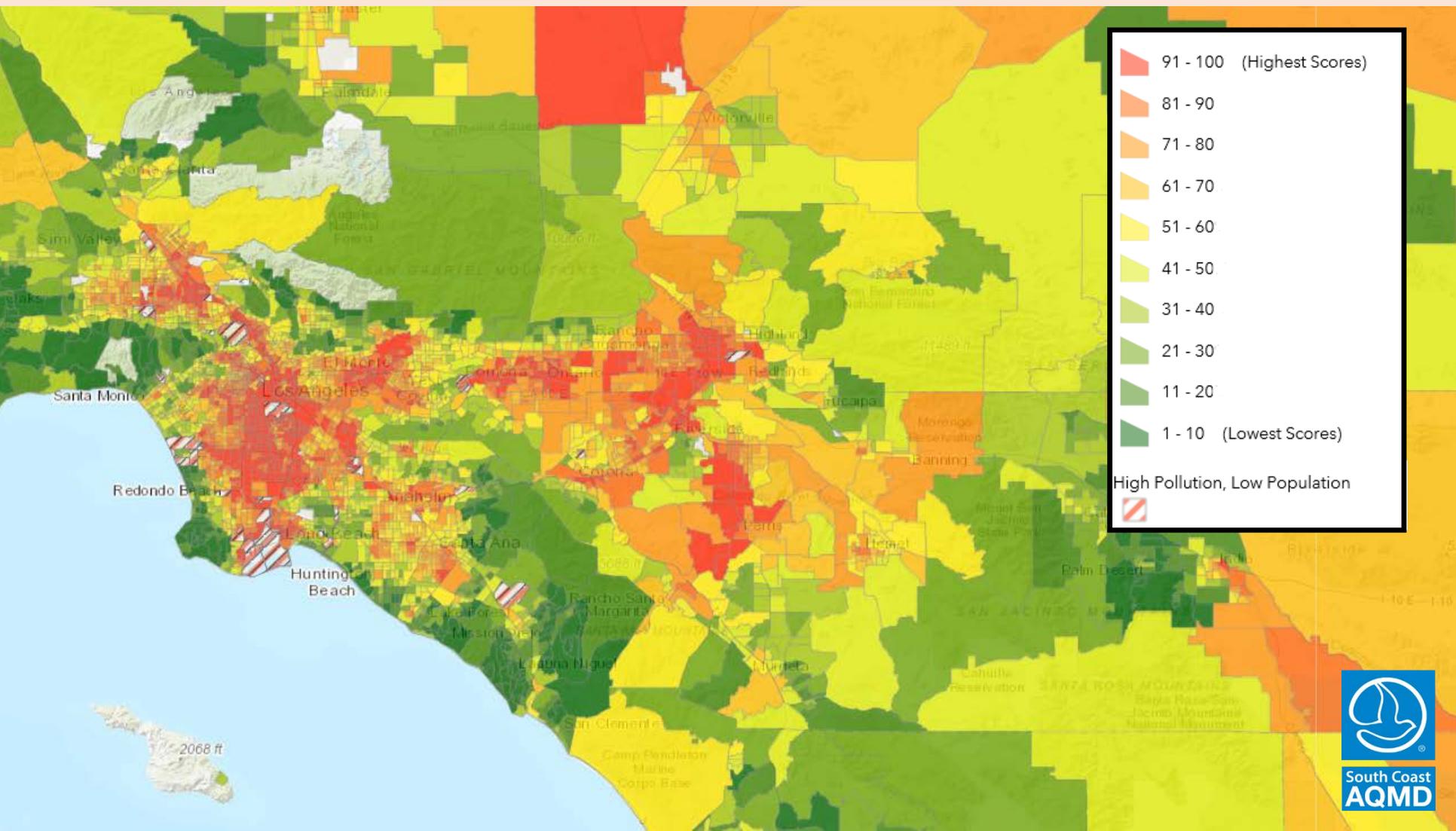- Poverty
- Unemployment
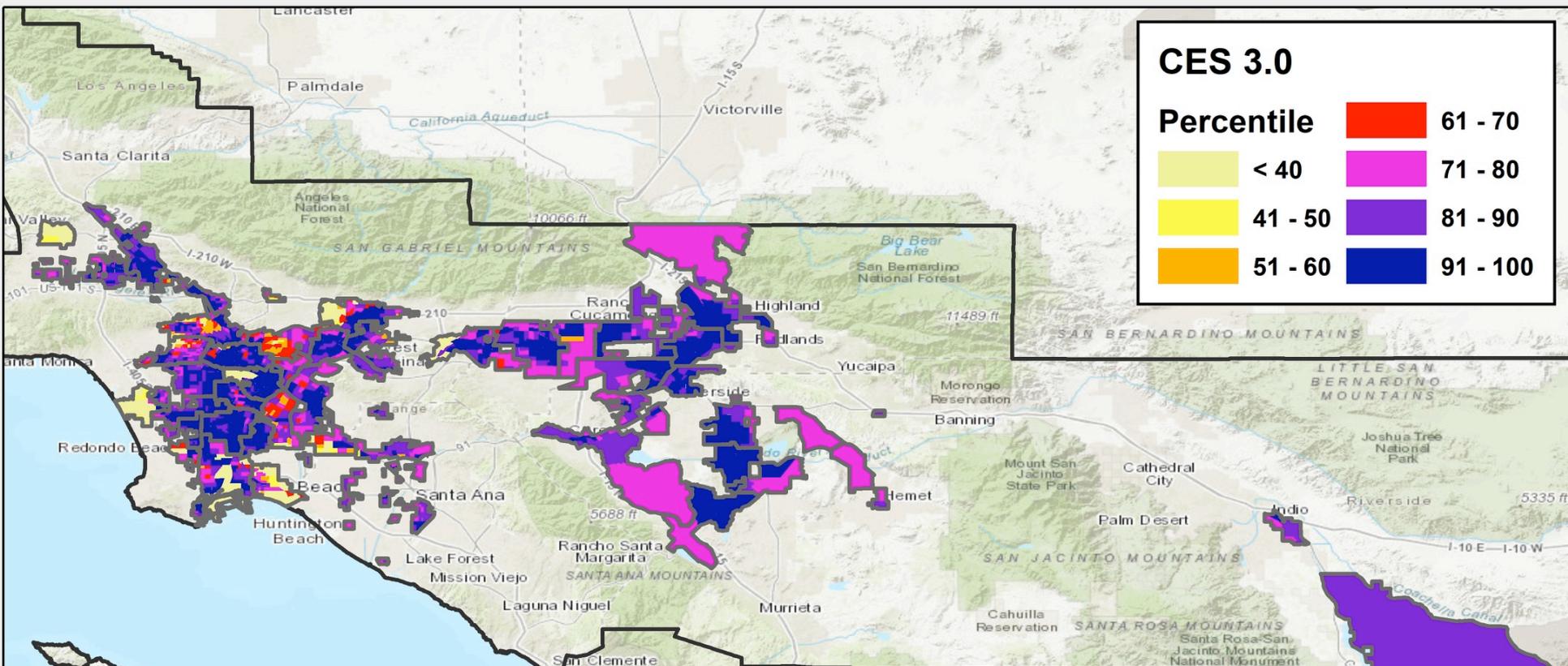- Educational Attainment
- Linguistic Isolation
- Housing Burdened Low Income Households

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

CalEnviroScreen 3.0 (OEHHA)

CalEnviroScreen 3.0 ranking in communities under consideration

CES 3.0

Percentile

< 40	61 - 70
41 - 50	71 - 80
51 - 60	81 - 90
	91 - 100

CalEnviroScreen considers pollution burden, environmental effects, sensitive populations as well as social and economic factors

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), sw, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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CalEnviroScreen 3.0 (OEHHA)

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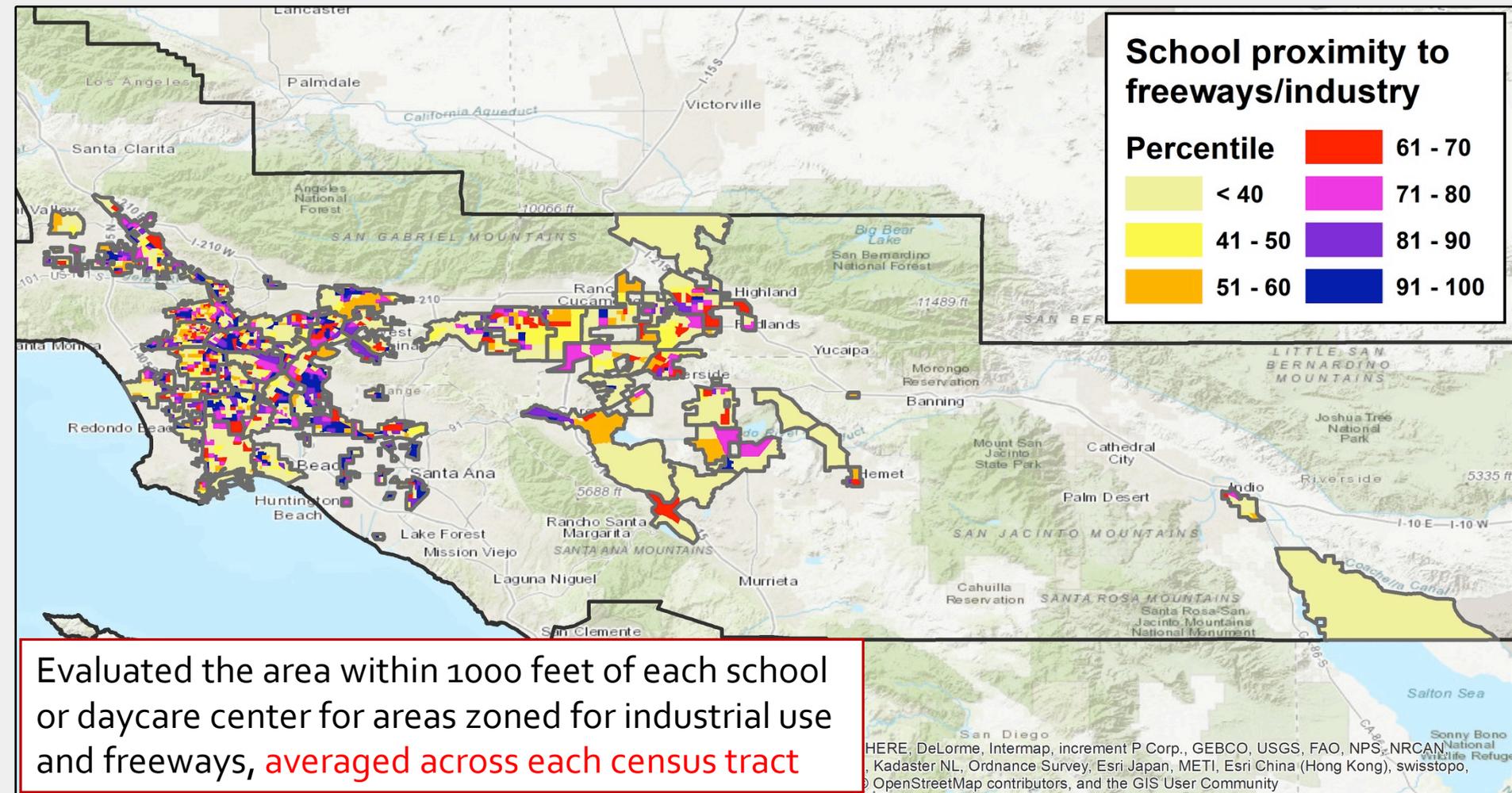- Wilmington / West Long Beach / Carson / San Pedro / Harbor City

Riverside County:
- Central Riverside / East Riverside / Rubidoux

San Bernardino County:
- San Bernardino / Muscoy
- West Ontario / Montclair / Upland / Claremont

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Schools near industrial areas and freeways

School proximity to freeways/industry

Percentile

< 40	61 - 70
41 - 50	71 - 80
51 - 60	81 - 90
	91 - 100

Evaluated the area within 1000 feet of each school or daycare center for areas zoned for industrial use and freeways, averaged across each census tract

HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Schools near industrial areas and freeways

10 COMMUNITIES WITH THE HIGHEST SCORE IN THIS METRIC

Los Angeles County:

- Glendale / Burbank
- El Monte / South El Monte / Avocado Heights / Hacienda Heights / West La Puente
- East Los Angeles / Boyle Heights / Downtown Los Angeles
- Hollywood / Los Feliz / Atwater / Echo Park / Silverlake
- Pacoima / North Hollywood / Sun Valley / San Fernando / Sylmar
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- South Gate / Huntington Park / Florence Firestone / Walnut Park
- South Los Angeles / South East Los Angeles / Hyde Park

Orange County:

- Anaheim / Fullerton / Orange
- Westminster / Stanton / Garden Grove

Additional Factors to Consider for Initial Implementation Schedule

| Past or current community monitoring and/or emission reduction programs | Local administrative and technical resources | Community interest and readiness, participation and partnerships |

Examples:
- Existing data from monitoring studies to inform emissions reduction plans
- Local stakeholders and partners engaged in air quality issues and ready to contribute additional resources to help ensure the success of this program
    - City, agency, universities...etc.

Past & Current Air Monitoring Conducted by SCAQMD
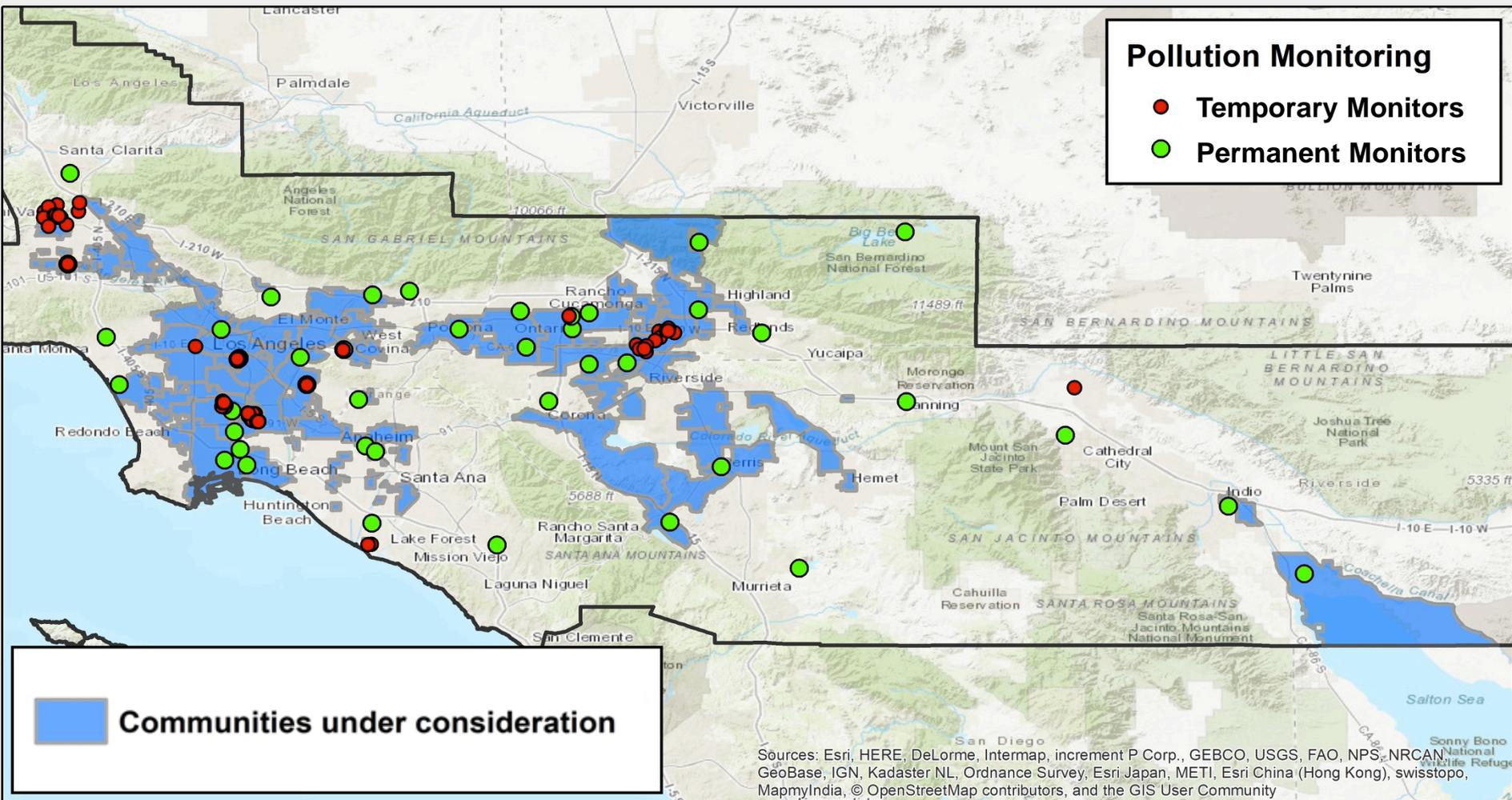
Timeline
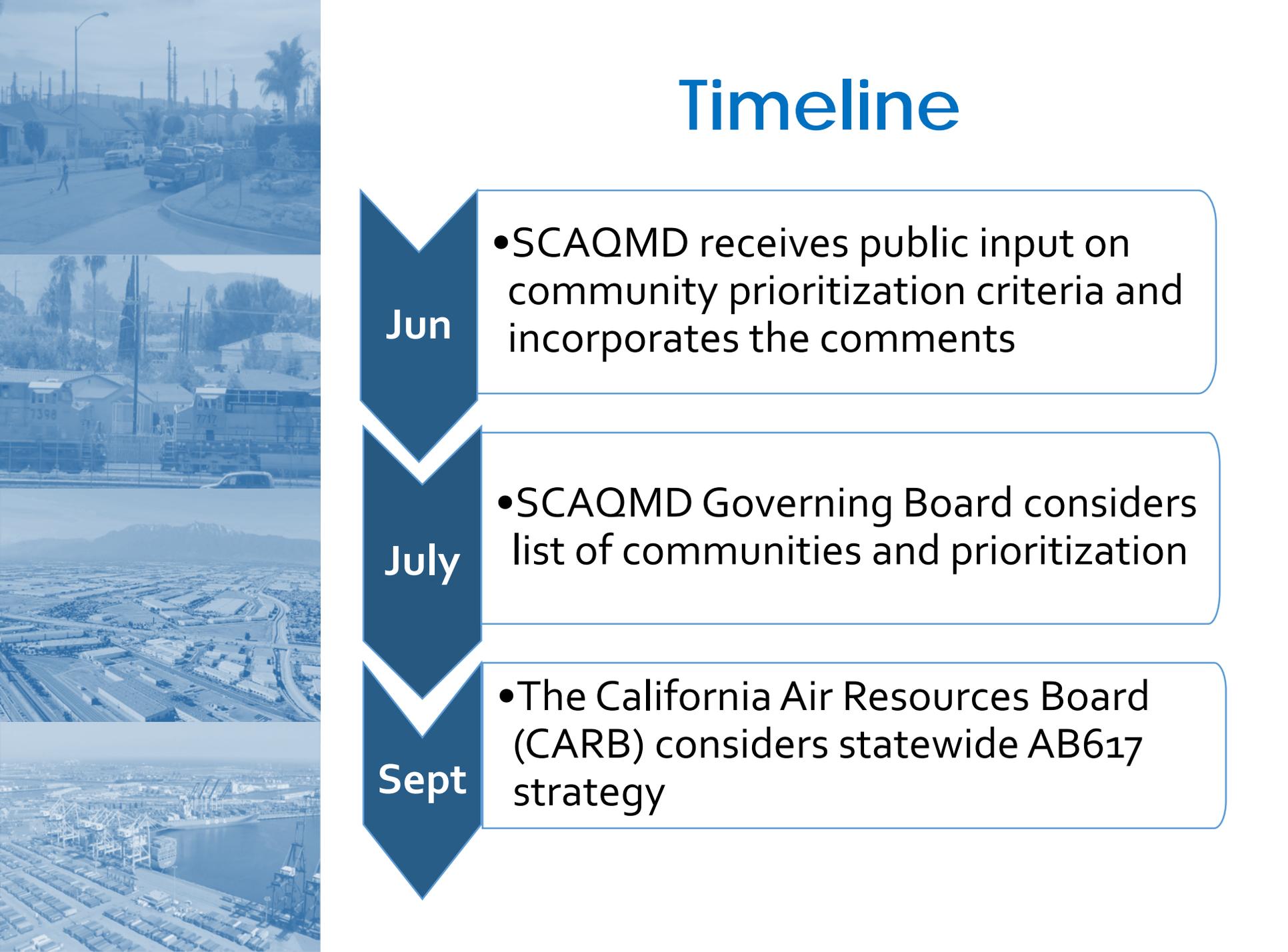
Jun
- SCAQMD receives public input on community prioritization criteria and incorporates the comments

July
- SCAQMD Governing Board considers list of communities and prioritization

Sept
- The California Air Resources Board (CARB) considers statewide AB617 strategy

Small group discussion

- What factors and indicators are most important to use for prioritizing communities for AB 617?

- What additional factors should SCAQMD take into consideration?

- What business or organizations would be interested in collaborating with SCAQMD to implement AB 617?

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www.aqmd.gov/ab617

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