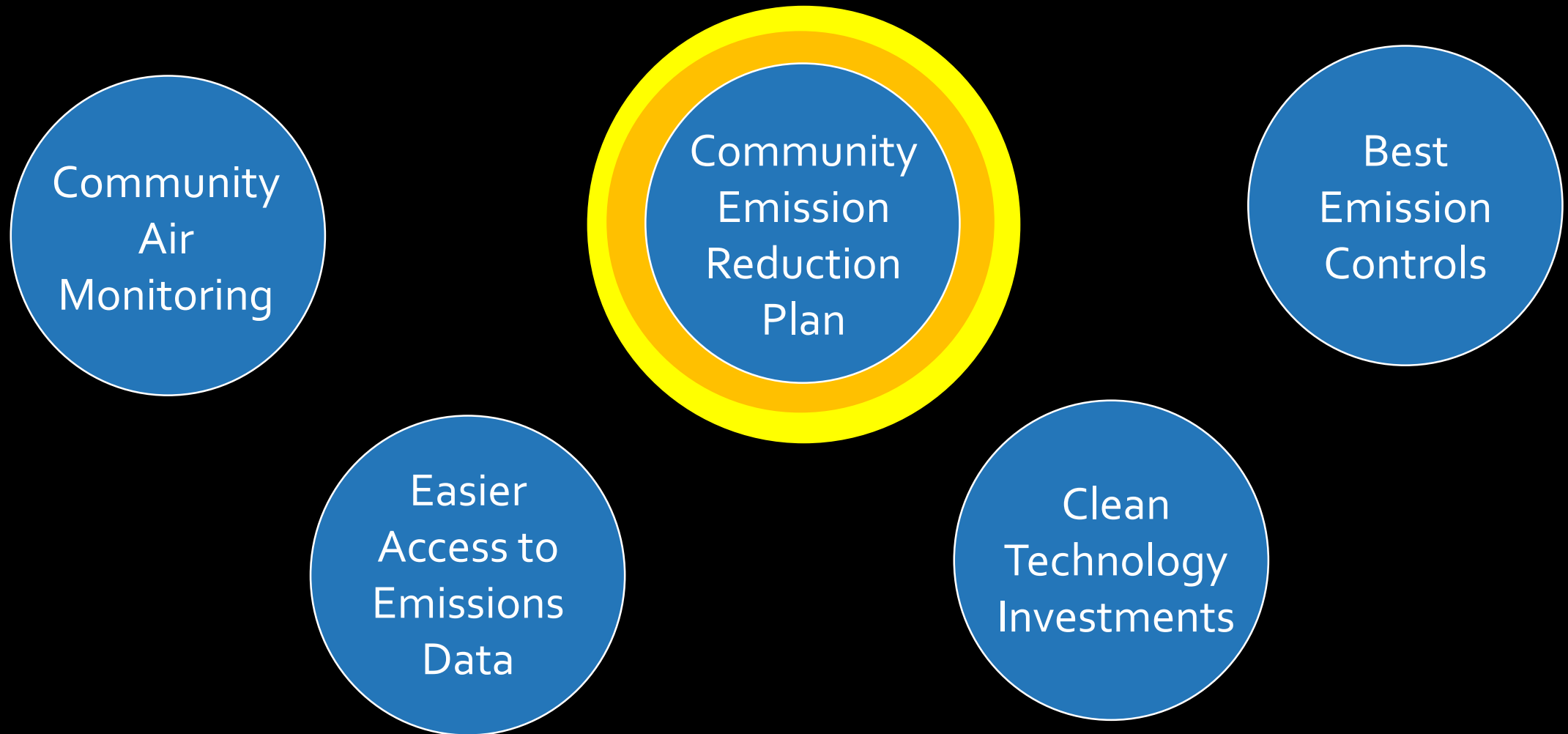




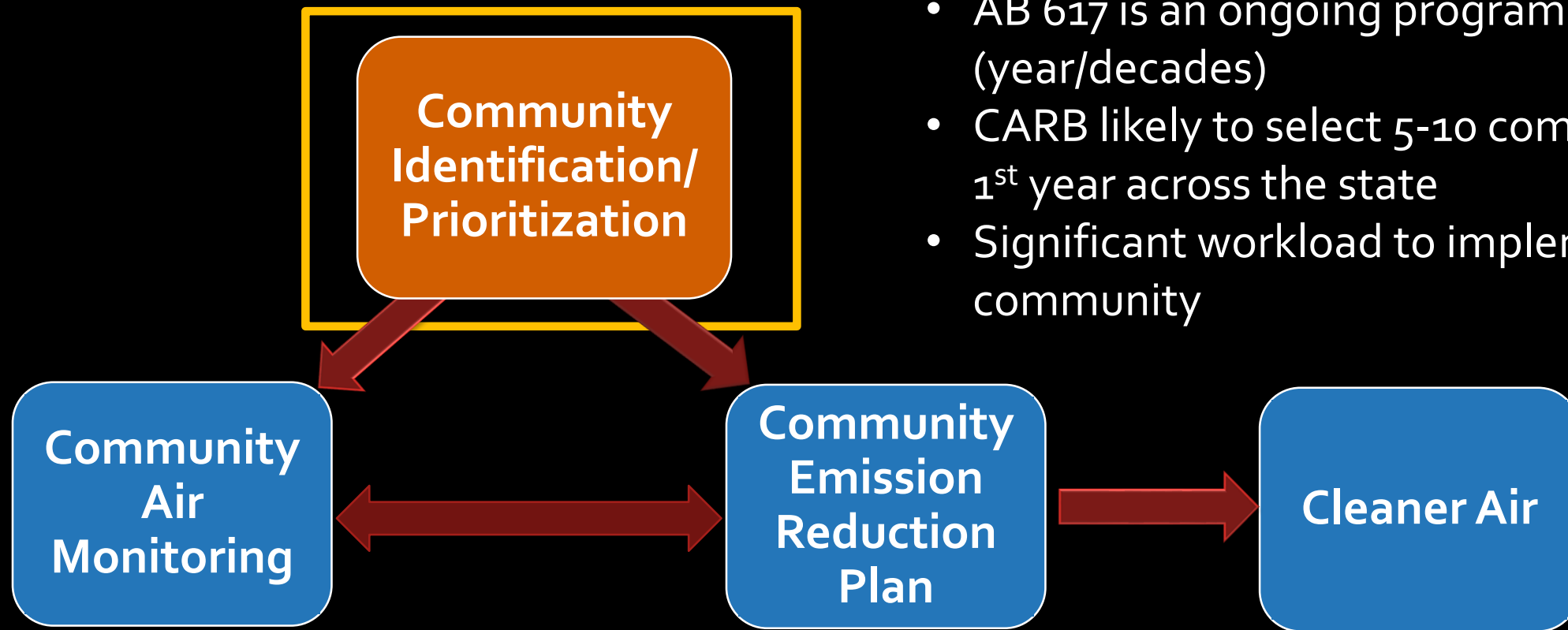
IMPLEMENTATION OF AB 617

SCAQMD Governing Board Retreat
May 2018

FIVE MAIN AB 617 ELEMENTS



COMMUNITY IDENTIFICATION & PRIORITIZATION FOR AB 617



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

PROPOSED GUIDING PRINCIPLES FOR COMMUNITY IDENTIFICATION & PRIORITIZATION FOR AB 617

- Prioritize disadvantaged communities that are disproportionately affected by air pollution
 - HSC § 39711: "...based on geographic, socioeconomic, public health, and environmental hazard criteria..."
- Utilize appropriate existing data and tools, especially those that have gone through the public process
- Thoughtfully consider and integrate public input
- Prioritize communities with known local sources of air pollution where Community Plans would have significant and additional positive impacts

OUTREACH – MEETINGS & PRESENTATIONS

Completed through 5/1/2018:

- **5** SCAQMD Community Meetings
 - Commerce, Wilmington, Riverside, San Bernardino, Anaheim
- **2** SCAQMD EJ Community Partnership meetings discussing AB 617
 - Indio, Irvine
- **8** Community Meetings hosted by other organizations and elected officials
- **16** Government agency meetings, workshops, advisory groups, staff briefings
- **1** Media interview
- **2** Academic presentations



South Coast
AQMD

VENGA Y HABLEMOS
sobre como mejorar la calidad
del aire en su comunidad

Mediante la Ley de la Asamblea (AB) 617 & 134

Martes, 27 de marzo del 2018
6:00 PM – 8:00 PM
Las puertas se abrirán a las 5:30 PM.
¡Venga a conocernos!

Centro de administración del
Condado de Riverside
4080 Lemon St.
Riverside CA 92501

KEY INPUT RECEIVED TO DATE: PRIORITY FACTORS FOR COMMUNITY IDENTIFICATION & PRIORITIZATION

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

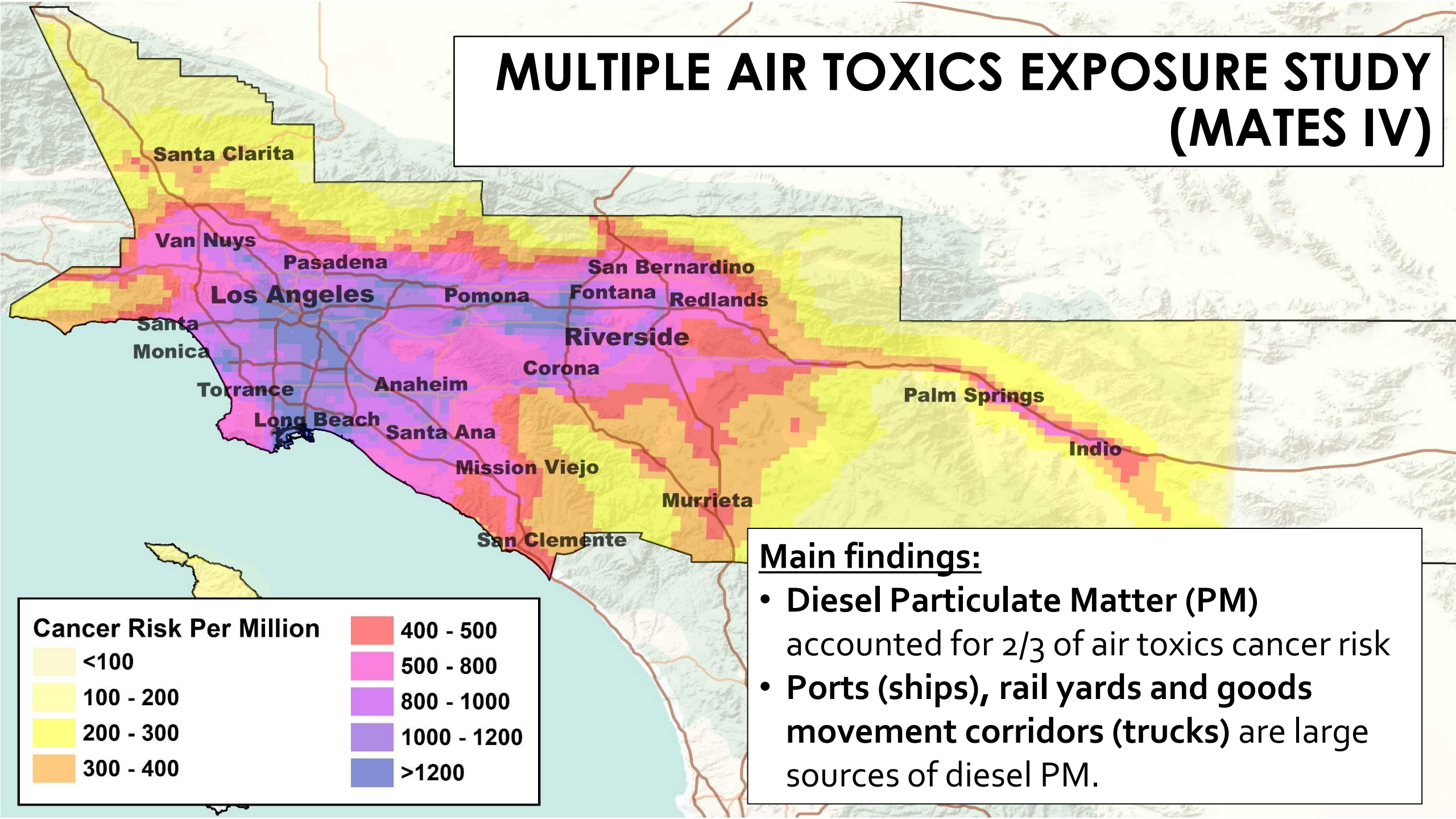
Asthma, cancer rates

Education levels

Children & elderly

Community Input received **through May 7, 2018** will be considered for inclusion & Year 1 prioritization

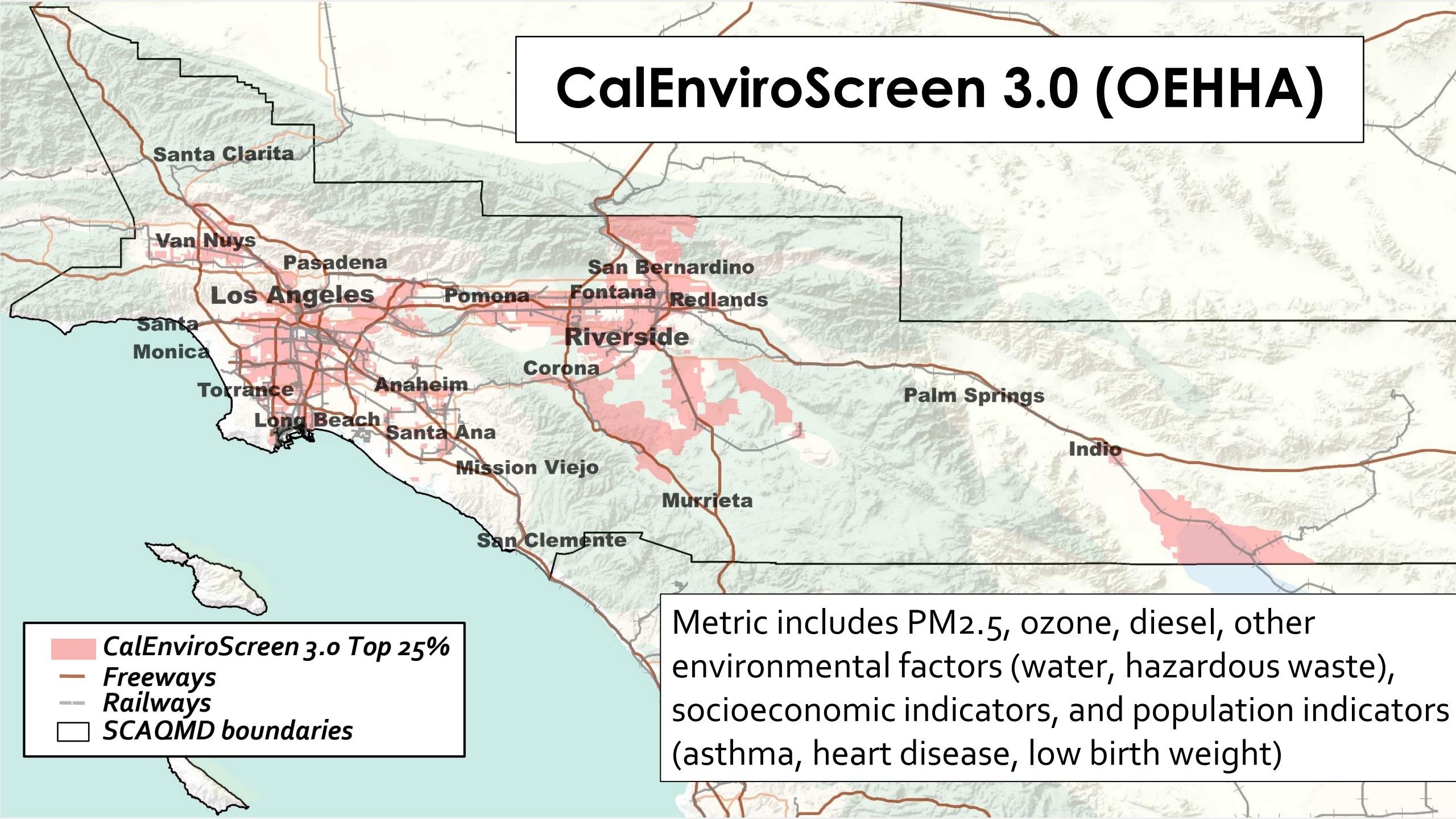
MULTIPLE AIR TOXICS EXPOSURE STUDY (MATES IV)



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.

CalEnviroScreen 3.0 (OEHHA)



- CalEnviroScreen 3.0 Top 25%
- Freeways
- Railways
- SCAQMD boundaries

Metric includes PM2.5, ozone, diesel, other environmental factors (water, hazardous waste), socioeconomic indicators, and population indicators (asthma, heart disease, low birth weight)

PROXIMITY OF SCHOOLS TO INDUSTRIAL AREAS

% Area in 1000 ft buffer per
census tract

0.00 - 0.05

0.06 - 0.10

0.11 - 0.15

0.16 - 0.20

0.21 - 0.30

0.31 - 0.50

0.51 - 0.75

> 0.75

Estimated the overall fraction of the
area within 1000 feet of each school
that is zoned for industrial use,
averaged across each census tract

PRELIMINARY LIST OF COMMUNITIES UNDER CONSIDERATION FOR AB 617

- **April 20, 2018** – Presented preliminary list to Stationary Source Committee
- **April 30, 2018** – Provided report to CARB with updates and preliminary list of communities
 - List updated with additional self-recommended communities, and addition of community names for cities/unincorporated areas that were within the community groupings
- **Next steps:** Prioritize the list of communities, and recommend communities for Year 1 implementation

METHODS AND CRITERIA FOR COMMUNITY IDENTIFICATION

- Identified communities under consideration for AB 617 **using a broadly inclusive approach**. Prioritizing communities is the next step.

Preliminary list includes:

- CalEnviroScreen 3.0 score in top 25%
- MATES IV air toxics cancer risk in top 25%
- Areas with >20% industrial land use within 1000 feet from schools
- Communities that were self-recommended or requested during SCAQMD AB 617 community meetings

PRELIMINARY LIST OF COMMUNITIES UNDER CONSIDERATION FOR AB 617 (ALPHABETICAL ORDER, 57 COMMUNITIES)

LOS ANGELES COUNTY

- Azusa / Duarte / Monrovia / Arcadia (East) / North 605
- Bell / Bell Gardens / Commerce / Maywood / Cudahy
- Canoga Park / Northridge / Reseda / Van Nuys / Panorama City / Winnetka / Tarzana
- Commerce / Maywood / Cudahy
- Compton Watts/ Rancho Dominguez / Victoria / Willowbrook
- Culver City (East) / Palms (East)
- Downey / Bell / Bell Gardens / Bellflower
- Downey / Bellflower / Lakewood (North) / Cerritos (North)
- Downtown Los Angeles
- East LA Interchange / Boyle Heights / East Los Angeles
- El Monte / South El Monte / Avocado Heights / Hacienda Heights / West La Puente
- Gardena / Alondra Park / Lawndale / Central 110
- Glendale (Central & South) / Burbank
- Hollywood / Los Feliz / Atwater Village / Echo Park / Silver Lake
- Inglewood / Hawthorne / Westmont
- La Puente / Covina / West Covina / Baldwin Park
- Long Beach (East) / Signal Hill
- LAX / Lennox / El Segundo / Del Aire
- Montebello
- Pacoima / North Hollywood / Sun Valley / San Fernando / Sylmar
- Paramount / Long Beach (North) / East Rancho
- Dominguez
- Pasadena near I-210

- Porter Ranch
- San Gabriel / Rosemead / Monterey Park / Alhambra (South)
- Santa Fe Springs / Norwalk / West Whittier / Los Nietos / Pico Rivera
- Santa Monica (East)
- South Gate / Lynwood
- South and Southeast LA/ Huntington Park / Florence – Firestone / Walnut Park
- Torrance
- Westlake / Koreatown / Midcity / Mid-Wilshire
- Wilmington / Long Beach (West) / Carson / San Pedro / West Carson / Harbor City (East)

ORANGE COUNTY

- Anaheim / Fullerton (South) / Orange (North & Central)
- Buena Park
- Costa Mesa
- Huntington Beach
- La Habra
- Santa Ana / Garden Grove (East)
- Westminster / Garden Grove / Stanton / Garden Grove (East)

RIVERSIDE COUNTY

- Beaumont
- Corona / Temescal Valley
- Eastern Coachella Valley

- Hemet / San Jacinto
- Lake Elsinore
- Mira Loma / Jurupa Valley / Eastvale / Pedley
- Moreno Valley
- Perris / Nuevo
- Riverside (Central & East) / Rubidoux / Highgrove
- Riverside (West) / Pedley

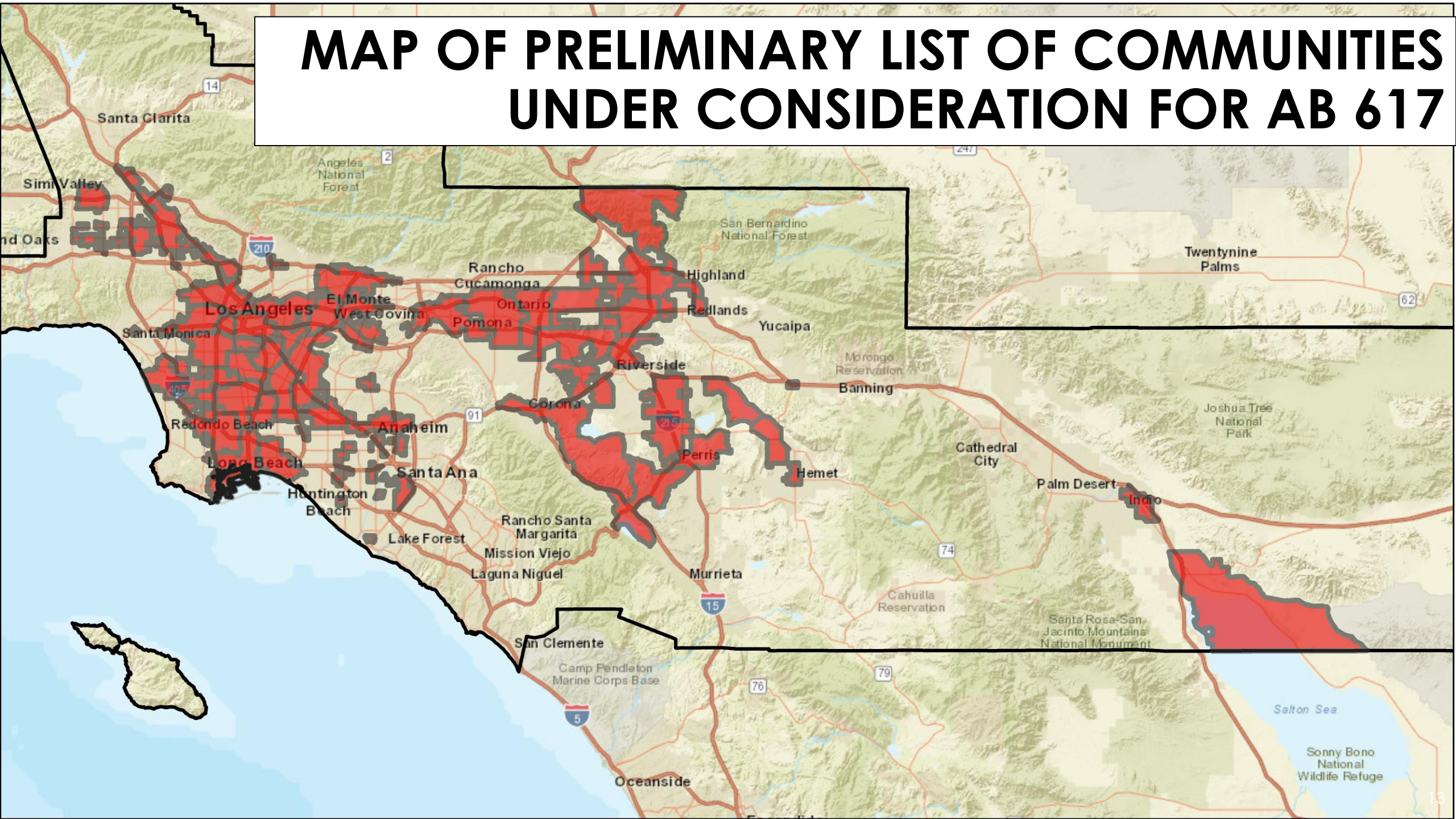
SAN BERNARDINO COUNTY

- Bloomington / Fontana / Rialto
- Colton / Grand Terrace / San Bernardino (Southwest)
- Highland / Crestline
- Ontario (East) / Rancho Cucamonga
- 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)

MAP OF PRELIMINARY LIST OF COMMUNITIES UNDER CONSIDERATION FOR AB 617



COMMUNITY SELF-RECOMMENDATIONS

- 70 total self-recommendation forms received through 5/1/18
- 13 self-recommended communities (alphabetical order):

LOS ANGELES COUNTY

- Carson
- East Los Angeles
- Maywood
- Northridge
- Paramount
- Porter Ranch
- Wilmington

ORANGE COUNTY

- Buena Park

RIVERSIDE COUNTY

- Riverside/Corona (Corona – Terramor, Corona - Trilogy at Glen Ivy, Sycamore Creek, Temescal Valley)
- Jurupa Valley (Limonite, Mira Loma, Sunny Slope, Van Buren)

SAN BERNARDINO COUNTY

- Rancho Cucamonga (Alta Loma, Etiwanda)
- San Bernardino (North Rialto, West San Bernardino)

OTHER

- Inland Southern California/Inland Empire

PROPOSED METHODS AND CRITERIA FOR INITIAL COMMUNITY PRIORITIZATION

- Start with preliminary list
 - Evaluate factors for each community:
 - **MATES IV** 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-recommendation** received
 - Combine into overall priority level
- **Seeking public input**

ADDITIONAL FACTORS TO CONSIDER IN INITIAL IMPLEMENTATION SCHEDULE

**Past or current
community
monitoring and/or
emission reduction
programs**

**Local
administrative
and technical
resources**

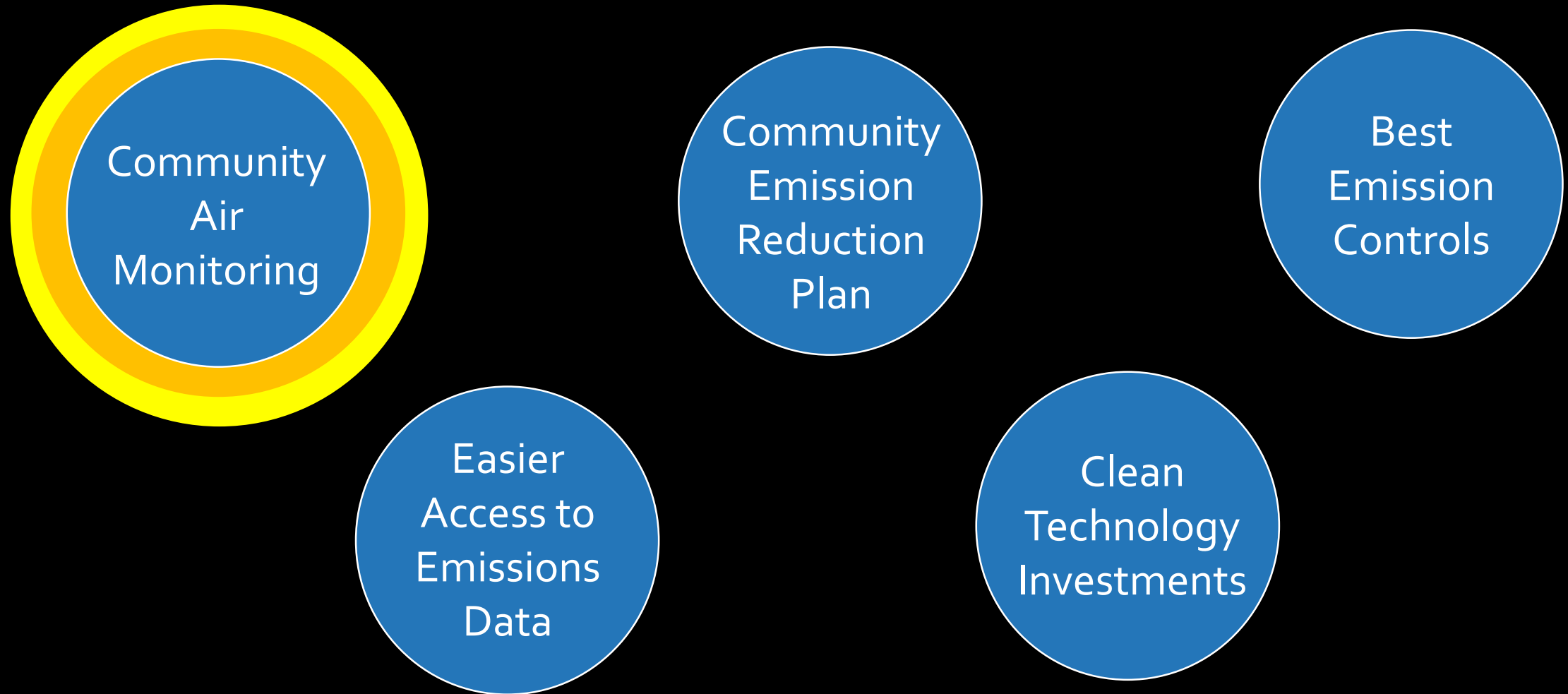
**Community
interest and
readiness,
participation
and
partnerships**

NEXT STEPS

Need to refine prioritization criteria, prioritize and recommend communities for initial implementation schedule

DATE	MILESTONE
May-June 2018	Conduct 5 public meetings to seek input on prioritization criteria
June 15, 2018	Stationary Source Committee – consider recommended communities and prioritization (including implementation schedule)
July 6, 2018	Governing Board Meeting – consider recommended communities and prioritization (including implementation schedule)
Sept 27-28, 2018	CARB Board considers statewide strategy and decides on implementation schedule

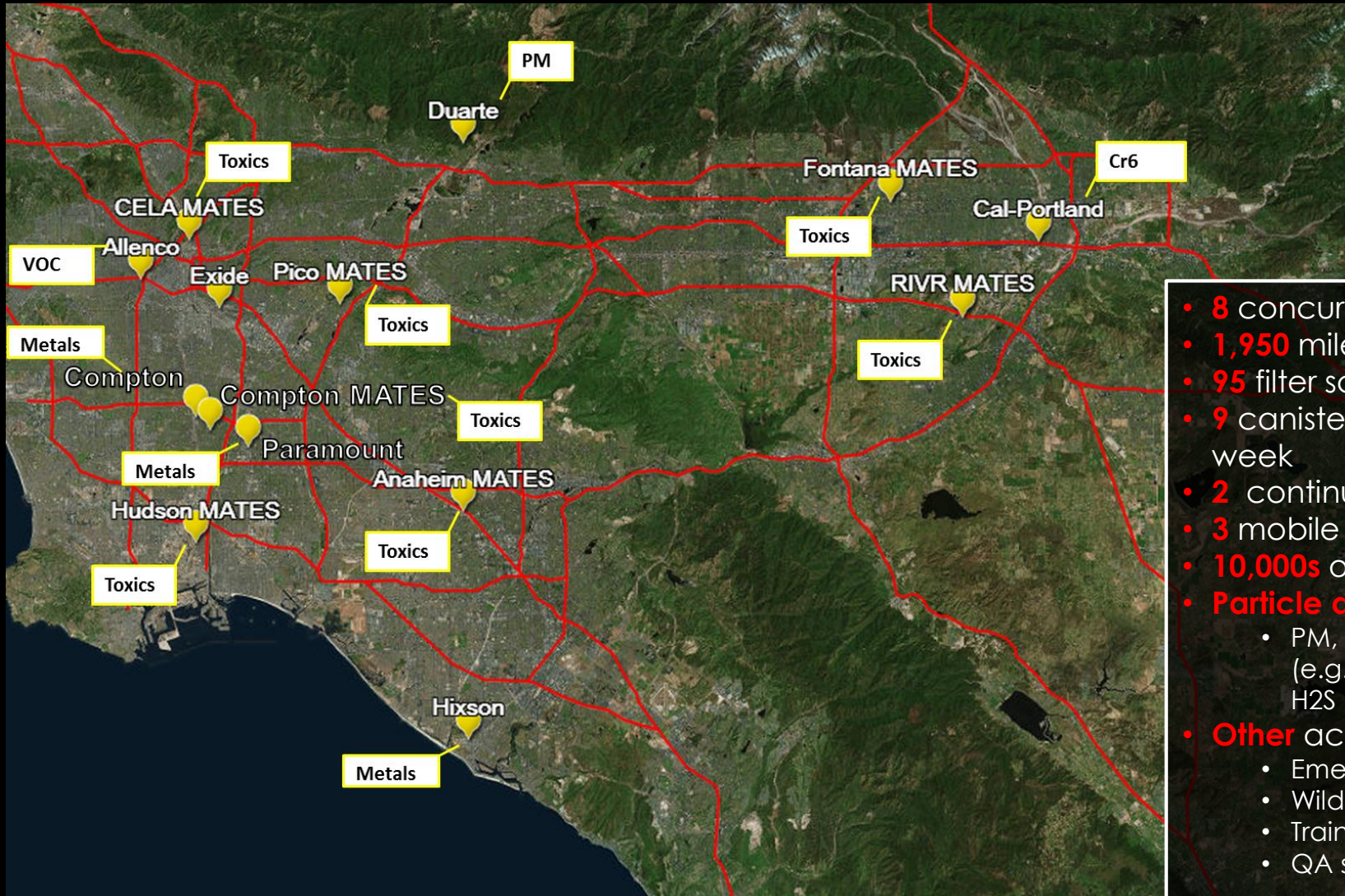
FIVE MAIN AB 617 ELEMENTS



AB 617 MONITORING STRATEGY

- Capability to measure criteria and air toxic pollutants in local communities – Toolbox Approach
 - Traditional methods (FRM, FEM, EPA guidance)
 - Advanced methods (sensors, remote sensing, mobile platforms)
- Build from existing experience and tools from recent and ongoing air monitoring projects
 - Paramount
 - Community Air Toxics Initiative
 - MATES V

SCAQMD SPECIAL MONITORING NETWORK



- 8 concurrent studies
- 1,950 miles traveled per week
- 95 filter samples collected per week
- 9 canister samples collected per week
- 2 continuous monitors
- 3 mobile platforms
- 10,000s of data points per week
- **Particle and gas** monitoring
 - PM, UFPs, BC, air toxics (e.g., Cr6+ and VOCs), CH4, and H2S
- **Other** activities
 - Emergency response
 - Wildfire monitoring
 - Training activities
 - QA support for Federal programs

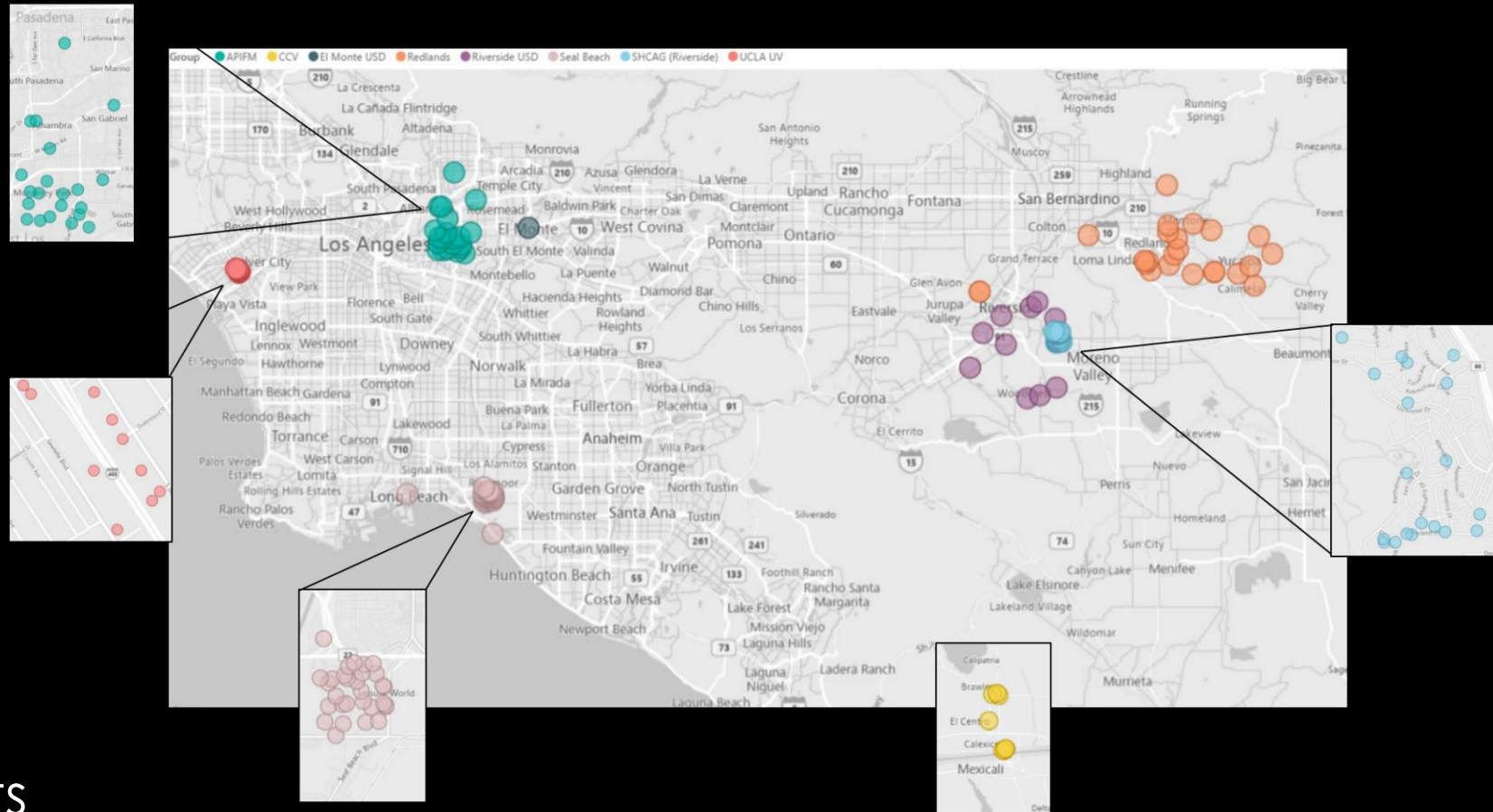
AIR QUALITY SENSORS

- **AQ-SPEC: Most comprehensive sensor evaluation program in the Nation**
- **AB 617 related efforts:**
 - **Community education**
 - **Validation of satellite air quality data**
 - **Developing sensor certification/ verification program**



SENSOR NETWORKS & COMMUNITY ENGAGEMENT

- Nine Sensor Project Deployments
- Community engagement
 - Air quality & sensor training
 - Needs assessment
 - Inform air quality improvement projects



AIR MONITORING STATIONS

- Continuous monitoring
 - ✓ Ozone, nitrogen dioxide, carbon monoxide, sulfur dioxide, PM10, PM2.5, meteorology
- Time-integrated sampling
 - ✓ TSP, PM10, PM2.5, metals, carbon, VOCs, air toxics, PM speciation
- Samplers collect pollutants on various media
 - ✓ Teflon filters, quartz fiber filters, canisters
- Chemical analysis is performed in laboratory



LABORATORY

Full range of ambient and compliance analyses

- Ambient particulate matter
 - ✓ Mass, ions, metals, carbon, Cr6+, lead
- Ambient gases
 - ✓ Air toxics, ozone precursor VOCs, sulfur compounds
- Source-test samples
- Bulk Samples
- Asbestos
- Method development



STATIONARY REAL TIME METAL MEASUREMENTS

- **Specifications:**
 - Detects over 20 metals (except Cr6+) in ng/m³
 - High time resolution
 - Wind Speed and direction
- **Applications:**
 - Fence-line monitoring
 - Source apportionment
 - Source directionality and trends analysis
 - Provide information on short duration events



NEAR REAL TIME METALS – MOBILE PLATFORM

- Variety of fast time response instruments for the measurement of pollutants
 - VOCs
 - BC
 - Toxic metals including Cr6+
- Plume mapping



MOBILE AIR TOXICS LABORATORY



- Fenceline and community mobile monitoring
- Identify sources and community levels

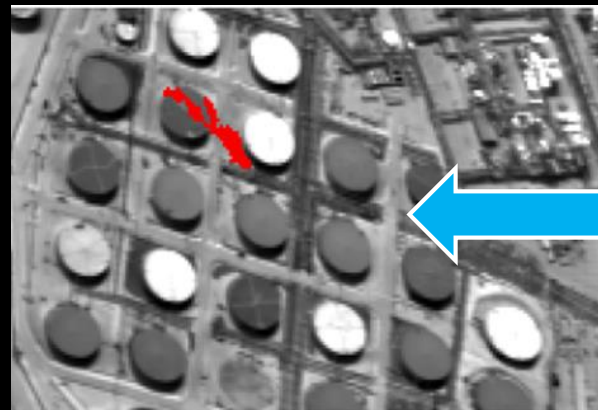
- Survey major refineries and other petroleum facilities



FLIGHT-BASED AIR TOXICS MEASUREMENTS



- Survey large areas, including refinery areas
- Detect plumes and emissions
- Guide ground-based efforts

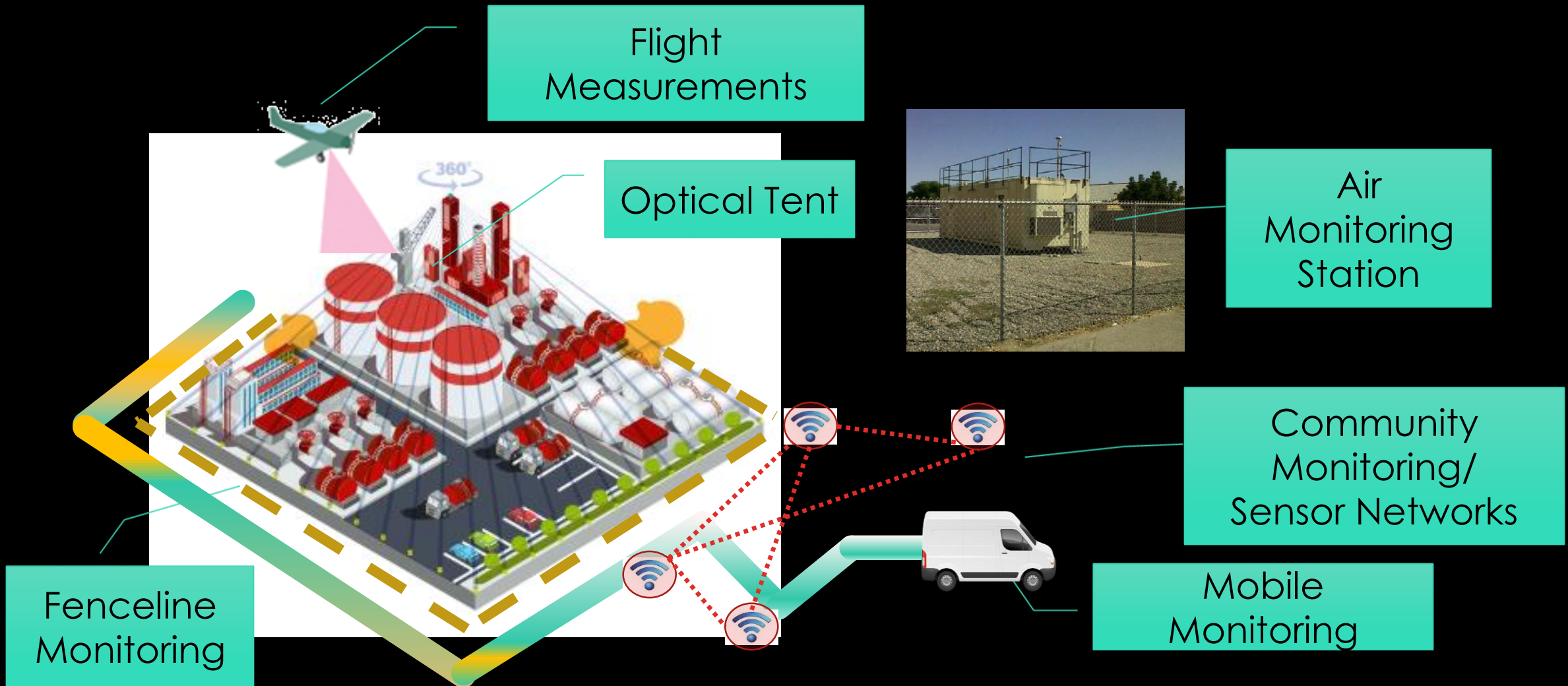


OPTICAL TENT (FACILITY-BASED AIR TOXICS MONITORING)



- Continuous facility monitoring
- Real-time leak detection
- Quantify long-term emissions

COMPLEMENTARY APPROACHES TO AB 617 MONITORING



PROVIDING ACCESS AND MEANING TO DATA

- Telemetry
 - Data Acquisition
 - Portability
- Computing
 - Cloud services
 - Server hardware
- Visualization
- Messaging
 - Alerts
 - Intuitive to the public





PATH FORWARD

- Prioritize communities
- Increase the air monitoring and data communication toolboxes
- Provide input and guidance on the statewide AB 617 plan
- Community outreach
- Conduct initial surveys on the priority communities
- Commitment for obtaining ongoing funding to support program implementation

Denos su opinión

- Identificación de la comunidad y cómo enfocar la p
- Cómo se define "Comunidad"
- Recomendaciones de comunidades específicas

El Formulario de Auto-Recomendacion Comunitaria para
Disponible AQUÍ y en www.AQMD.gov/AB617

- Ubicación de la comunidad
- Descripción de la comunidad
- Descripción de las necesidades
- Descripción de lo que le preocupa a la comunidad en relación a la contaminación del aire

Para
7 de M
del 20



QUESTIONS?

AB 617

Assembly Bill

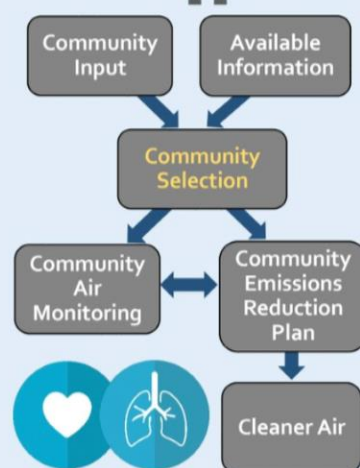
A new Opportunity
for Communities
impacted
by Air Pollution



Key Goals



Tailored Approach



Provide Input

Community Selection Process
 Recommend your Community

- Step 1: Visit www.aqmd.gov/ab617
- Step 2: Fill out the web form
- Step 3: Submit your response

South Coast Air Quality Management District

[f](https://www.facebook.com/SouthCoastAQMD) [t](https://twitter.com/SouthCoastAQMD) [i](https://www.instagram.com/SouthCoastAQMD) @SouthCoastAQMD • www.aqmd.gov

909-396-3314 • ab617@aqmd.gov