

AB 617: Community Health Protection Program

Elizabeth Yura June 20, 2018



1 Air Quality and Health

Air Pollutants



emission rates types of emissions

Ambient Concentration



types of pollutants topography wind patterns

Exposure and Dose



breathing rate location time

Health Effects

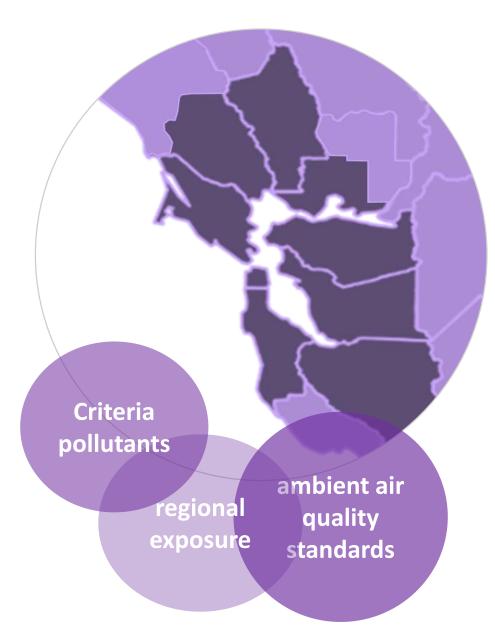


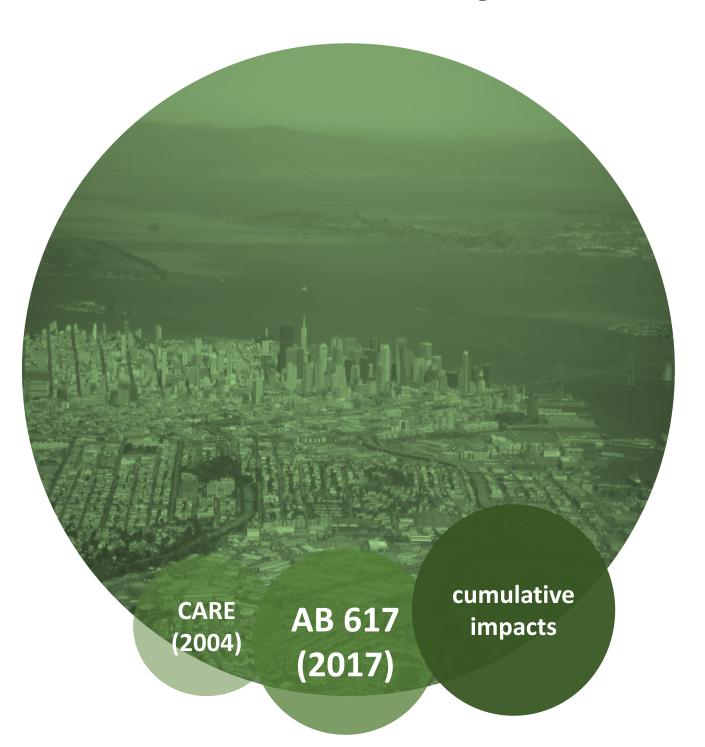
dose susceptibility



Community

Regional





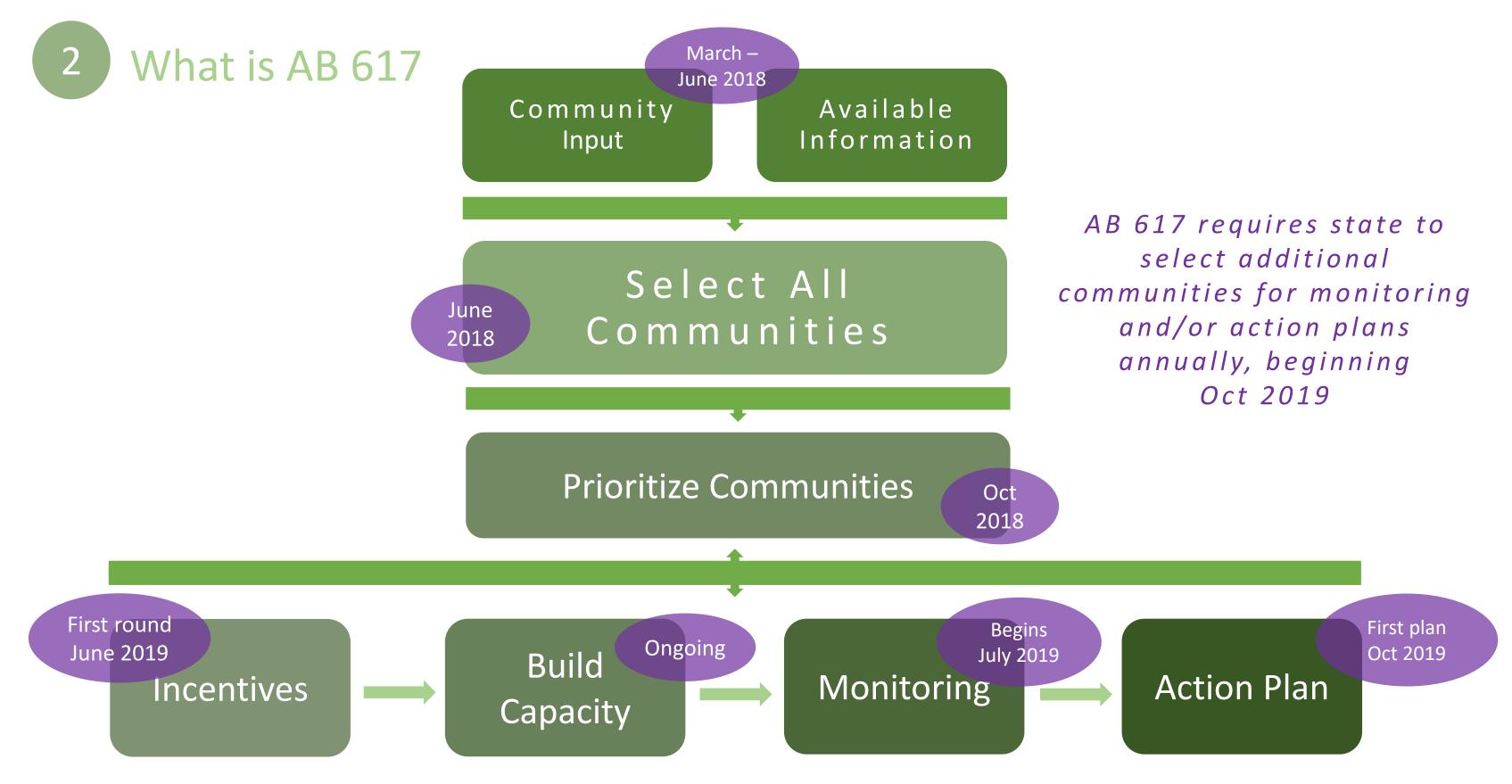
Facility



- Community Participation
- Eliminate Air Quality Disparities
- Reduce Health Burdens

Continuous Evaluation and Improvement

Under AB 617, the state requires districts to work with communities to select all areas in the region that have a "high cumulative exposure burden" and then prioritize areas for community monitoring and/or actions plans over the next 6 years.



Select Communities for Action Criteria for Selecting All Areas

CARE

High pollutants
fine particles
toxics
ozone
Mortality
Cancer risk
ER visits and
hospitalizations
due to air
pollution

Health and Vulnerability

Life expectancy
Low birth weight
Diesel exhaust
Traffic
Socioeconomic factors
Education
Housing costs
Access to transportation

Large Sources

Oil refineries

Cement plants

Chemical plants

Marine ports

Airports

Selecting Communities for Action All Areas

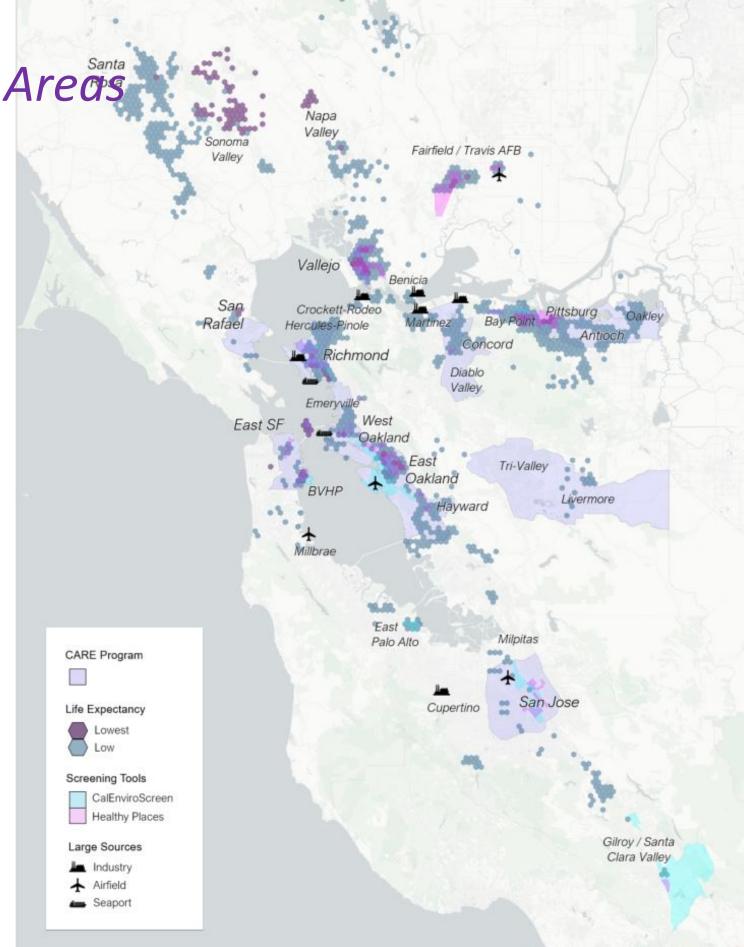
Consider communities with:

- Refineries and other large facilities
- Woodsmoke
- Odors
- Multiple transportation sources
- History of contamination, violations, or environmental injustice

Selecting Communities for Action All Areas

CARE

- Areas with large sources
- Areas with health and pollution impacts
- Areas with low life expectancy



Airport

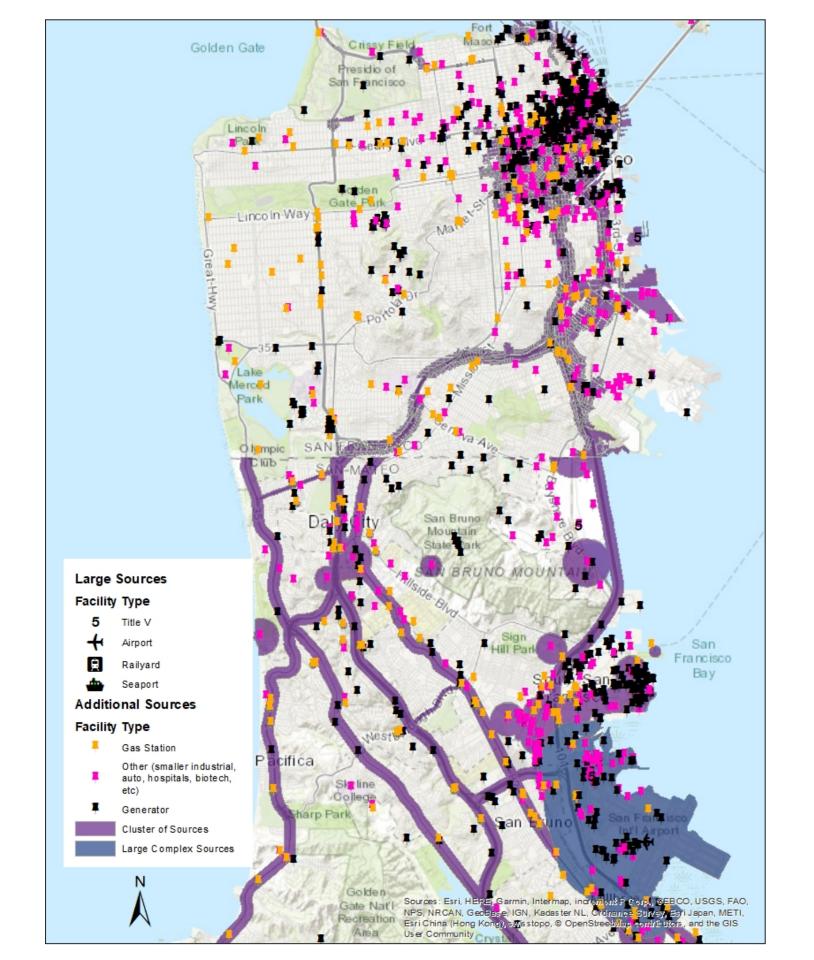
Organics recovery, waste facilities

Power plants

Industrial and manufacturing operations

Construction and equipment operations

Freeways, roadways and rail





How we propose to prioritize communities...

Air Quality

Fine particles
Toxics

Health

Life expectancy

Lung disease

Heart disease

Other

Resources

Data

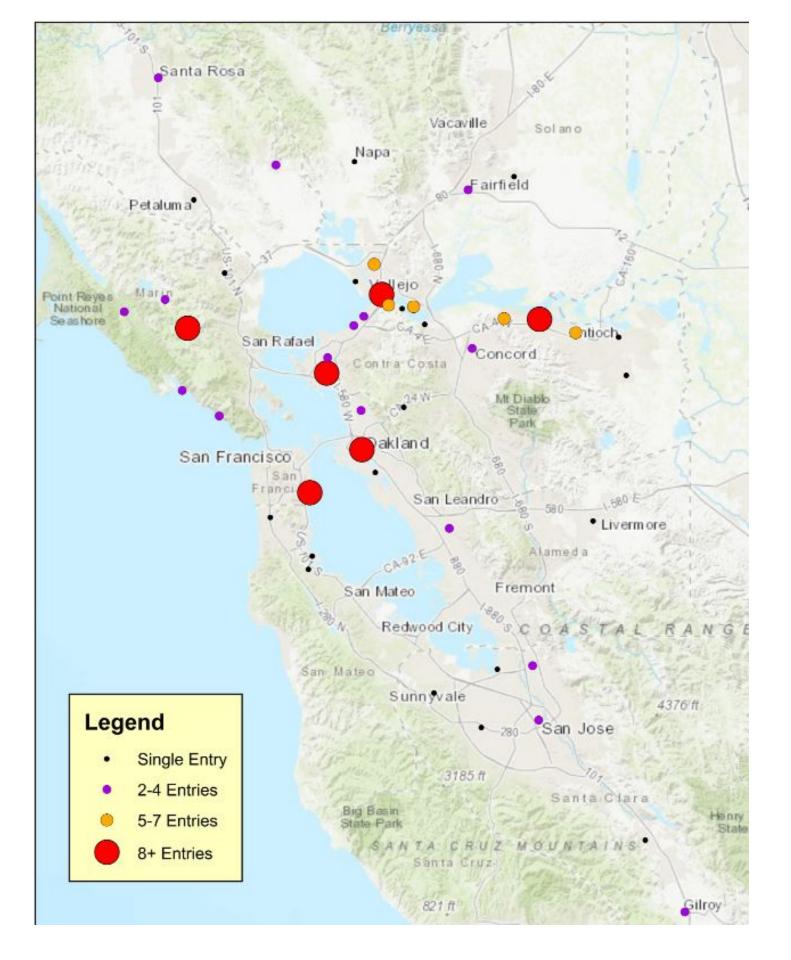
Planning

Collaboration

Capacity

...other ideas?

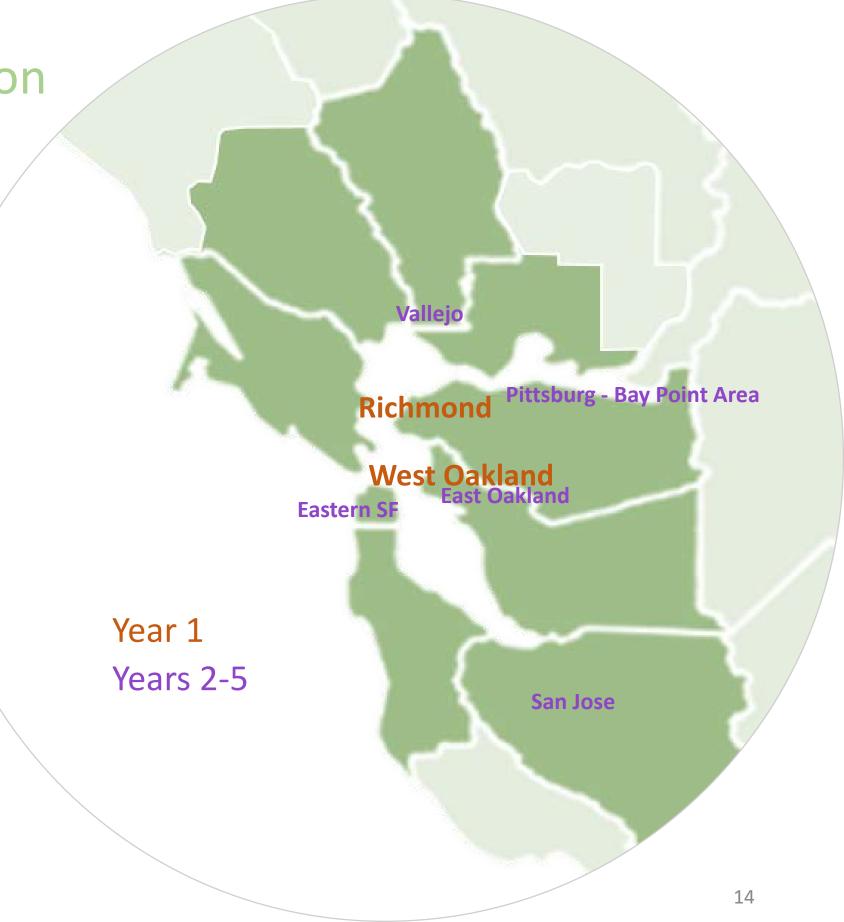
West Oakland, Richmond, Vallejo, East San Francisco and the Pittsburg-Bay Point area, along with areas in Marin, mostly due to concerns over woodsmoke, emerged as communities' top priorities.



Year 1

West Oakland – action plan

Richmond - monitoring





- Very high mobile source emissions
 - o Port of Oakland largest single source of DPM
 - o Roadways contribute significantly to PM_{2.5}
- High health burden
- High socio-economic vulnerability

- Concerns about new development at Port of Oakland and Oakland Army Base
- Goal of zero emissions environment
- Leverage previous and ongoing collaboration and research



- High emissions from stationary and mobile sources:
 - Refinery, chemical plant, landfills, water treatment facility, metal scrapping, marine terminals, freeways, port
- High health burden
- High socio-economic vulnerability

- Regional monitoring data are not consistent with observed health issues
- More monitoring to evaluate which sources may be contributing to issues
- Leverage ongoing data analysis and monitoring work

New Regulation

New controls on industrial sources (BARCT)

- Analysis of all toxic sources, including refineries, and immediate reductions for most toxic facilities (Rule 11-18)
- Consider changes to permitting system
- More stringent wood smoke rule; more incentives
- Changes to odor rule

Other Air District Activities

Other Air District Activities

- Air monitoring expansion in communities near refineries (Rule 12 15)
- Increasing capacity for source-attribution monitoring
- Increased availability of real-time and final data with context
- Fine-scale PM and toxics modeling with improved emissions

- Building sensor center to develop resources for community-led sensor projects and air quality training
- EPA STAR Grant for PM_{2.5} sensor projects in two Bay Area communities
- Work with communities that received CARB or Air District grants for monitoring and data interpretation

and Transportation

Other Air District Activities

- Work with local governments to encourage implementation of SB 1000
- Work with cities to address land use incompatibilities; explore zoning and other land use planning options
- Improve land use planning tools, i.e. Planning Healthy Places, to help local governments plan near sources of pollution and reduce exposure
- Encourage cities to plan and enforce truck routes and truck parking regulations

Other Air District Activities

ng Capacity

- Work with communities to prepare for action and/or monitoring plans
- Establish community partnerships
- Develop a shared understanding of local air quality concerns

Other Air District Activities

\$50 Million to Bay Area

- Trucks
- Buses
- Locomotives
- Construction Equipment
- Agriculture Equipment

\$200 Million Rest of State

Questions?

Webcast viewers can submit questions to AB617info@baaqmd.gov



Our Primary goal of the Richmond monitoring effort will be to better characterize the mix of sources and to more fully understand the associated air quality and pollution impacts.

Request for Qualifications



In the Richmond-San Pablo Area

The Air District is expanding efforts to reduce community exposure to air pollutants in the Richmond-San Pablo area by partnering with community groups, environmental organizations, regulated communities, and other stakeholders.

Respondents to this RFQ may choose to provide one or more of the following services in the Richmond-San Pablo Area:

- Stakeholder Group Coordination and Support
- Outreach and Promotion
- Meeting and Workshop Support
- Technical Expertise with a Local Perspective
- Neutral Meeting Facilitation

Learn more and ask questions at one of the Air District's bidders conferences:

Mon., July 9, 11:00 am - 1:00 pm or Thur., July 12, 5:00 - 7:00 pm 11784 San Pablo Ave., El Cerrito

Or join the conference via web-conference: https://register.gotowebinar.com/rt/666862989850110977

RFQ closes July 23, 4:00 pm. View the RFQ: http://www.baagmd.gov/about-the-air-district/request-for-proposals-rfp-rfq

For questions, contact Cynthia Zhang, czhang@baaqmd.gov.

BAAQMD.gov







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Webcast viewers may visit the online interactive workshop: https://www.opentownhall.com/6130