

AB617

Protecting Community Health

**Regional Workshop
January 31, 2018**

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**BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT**

Overview

- Community Health Protection in Bay Area
- CARE Program
- AB 617 Process in Bay Area
- Community Selection Criteria
- Getting Started
- Next Steps

Community Health Protection: An Air Quality Lens

Air Quality 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 Health Protection in the Bay Area

- Regional
- Facilities
- Communities

Regional-scale

- Considers regional population exposure to common sources
- Focus on carbon monoxide, lead, nitrogen dioxide, ozone, fine particles, sulfur dioxide
- Meeting ambient air quality standards



Facility-scale

- Single-source focused
- Focus on toxics
- Health risk assessments



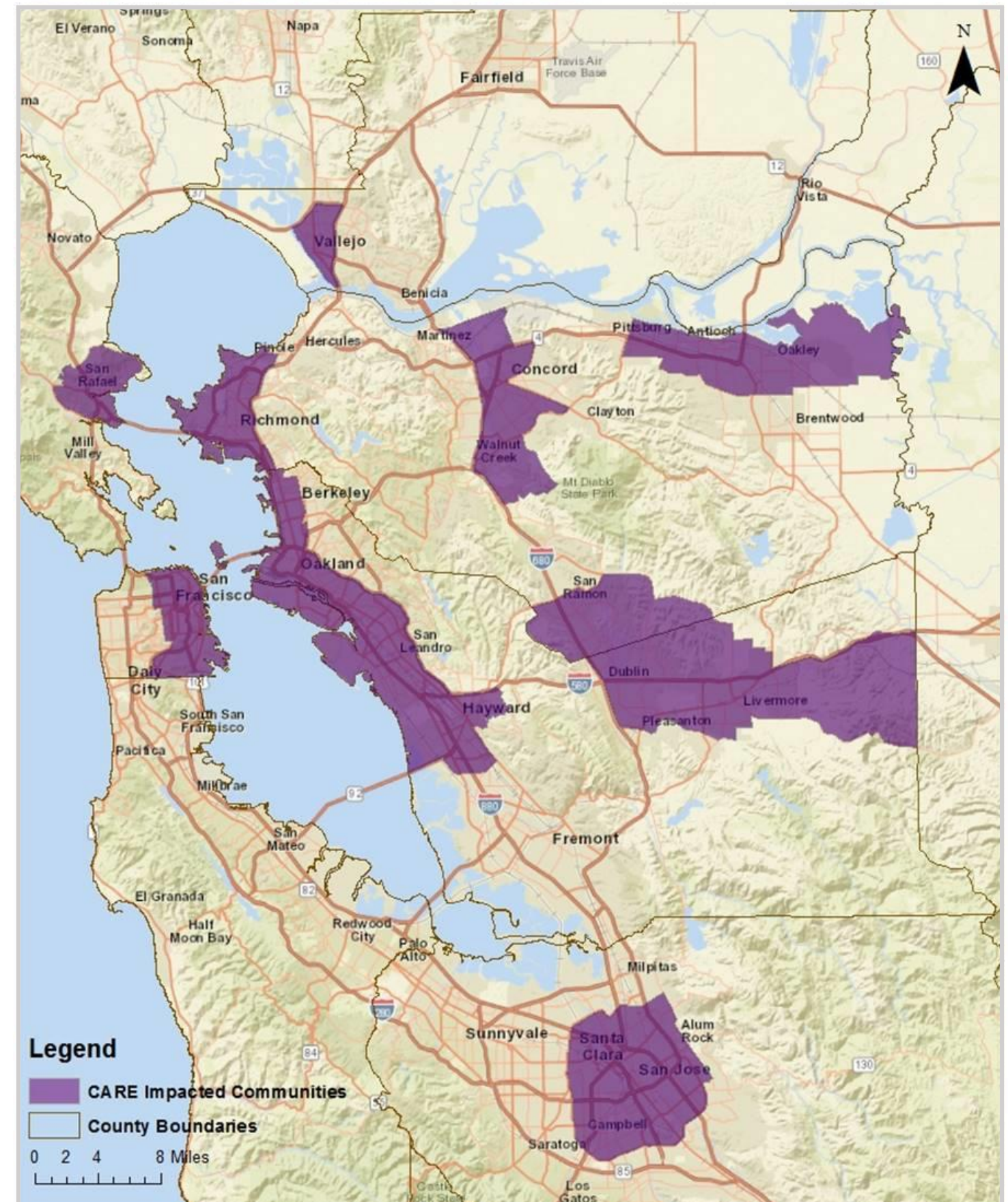
Community-scale

- CARE program (2008)
- Focuses on cumulative impacts and community health
- Bridges gap between regional and facility planning
- AB 617 (2017)



CARE Program

- Complements traditional air quality planning
- Highlights communities most affected by high exposure and those vulnerable to air pollution
 - Maps areas of greater health impact based on cumulative air pollution levels and existing adverse health outcomes
 - Identifies **vulnerable communities**
- Strives to fill a gap in health protection between regional and facility-scale assessments



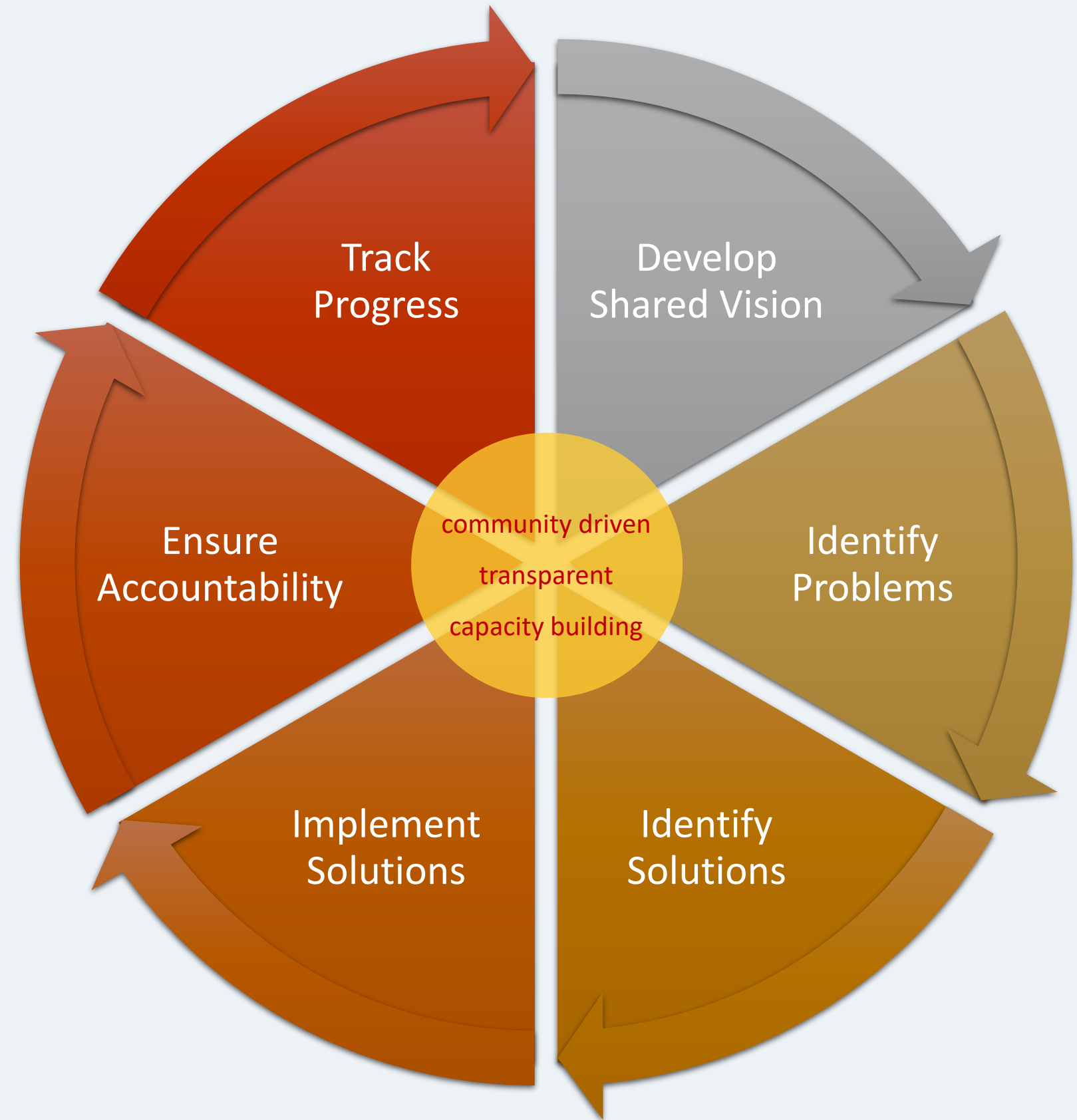
AB 617 Principles

- Community Driven
- Transparency
- Capacity Building

AB 617 Program Goals

- Community Participation
- Eliminate Air Quality Disparities
- Continuous Evaluation and Improvement

AB 617 A Community-Driven Process



Community Selection

*State requires districts to work with communities to select all areas in the region that have a “**high cumulative exposure burden**” and therefore require community monitoring and/or actions plans.*



Criteria Under Consideration

CARE

- High pollutants
 - fine particles
 - toxics
 - Ozone
- Mortality
- Cancer risk
- Hospitalization and ER visits due to air pollution

Additional Impacts¹

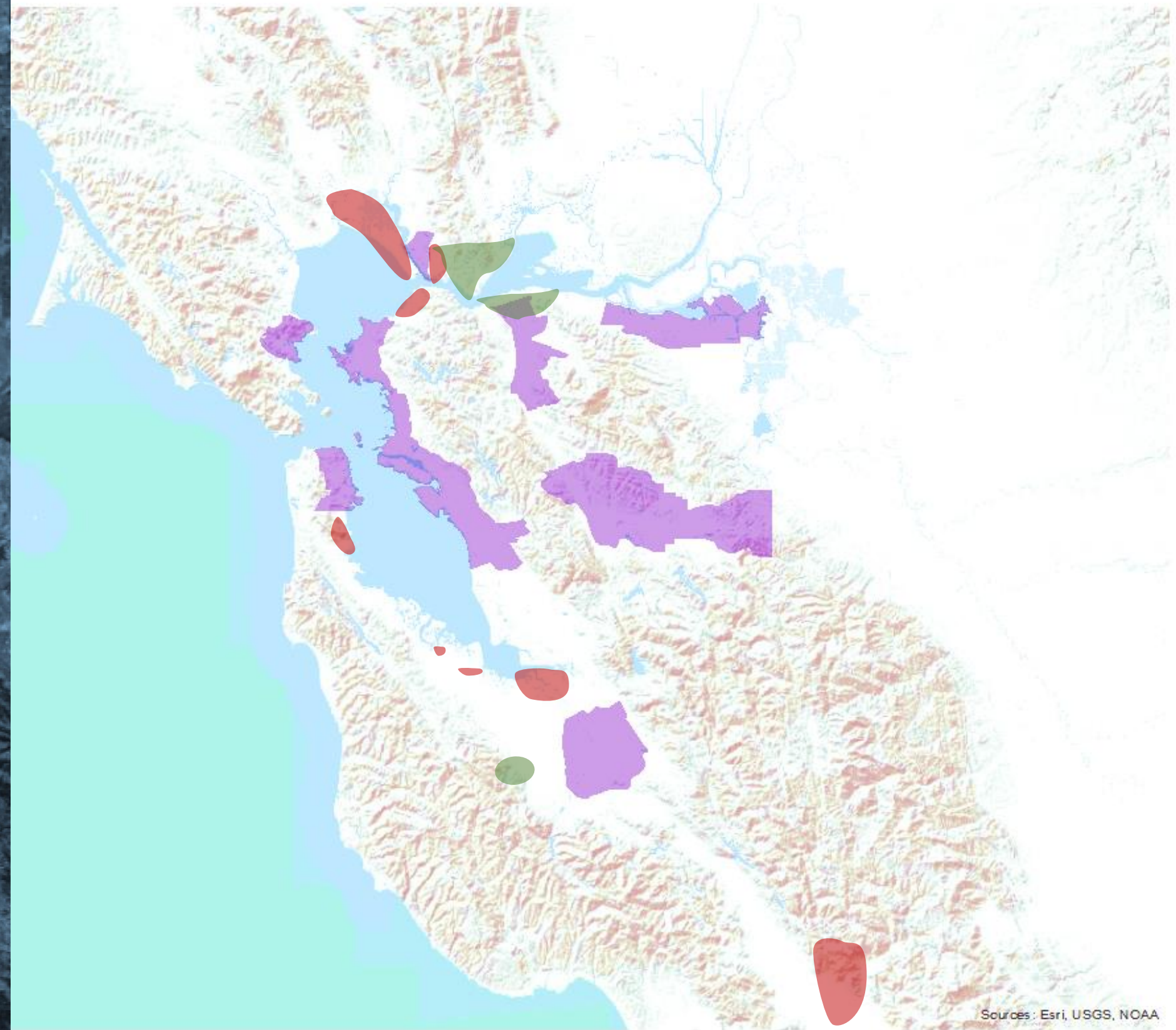
- Asthma
- Cardiovascular
- Low birth weight
- Diesel Exhaust
- Traffic


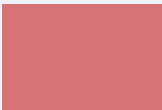


Other Large Sources

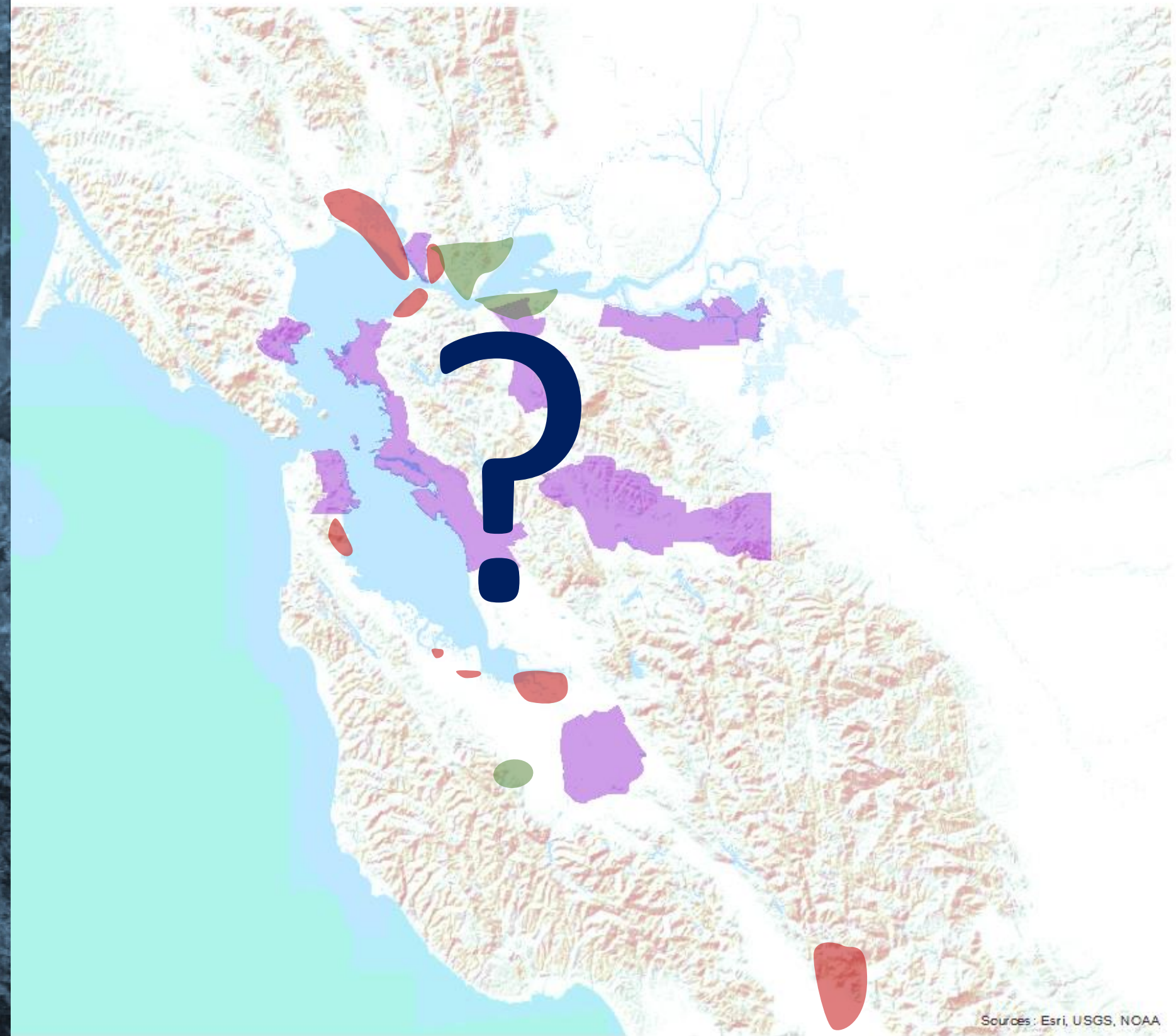
- Oil refineries
- Cement plants
- Others?

1. As determined per CalEnviroScreen and Health Disadvantage Index

-  CARE Areas
-  Additional Impact Areas
-  Other Large Sources



-  CARE Areas
-  Additional Impact Areas
-  Other Large Sources
-  Other areas



Getting Started

- Incentives
- Early Actions

Incentives

Ample opportunity for community participation

- Community survey (ongoing): <https://www.peakdemocracy.com/5809>
- Feb 26th Oakland workshop with Air Resources Board
- Future AB 617 community workshops
- Input will be used to inform outreach and project identification processes



Incentives

- Newly available \$50 million through Carl Moyer and Goods Movement Program
- Reduce diesel from mobile sources
- Prioritize impacted communities
- Dirty fleet replacement
- Voluntary participation
- Under contract by June 30, 2019; spent by June 30, 2021



West Oakland

Action Plan

- High PM_{2.5} concentrations
- Very high mobile source emissions
 - Port of Oakland largest single source of DPM
 - Roadways contribute significantly to PM_{2.5}
- Low stationary source emissions
- High health burden
- High socio-economic vulnerability
- Concerns about new development at Port of Oakland and Oakland Army Base

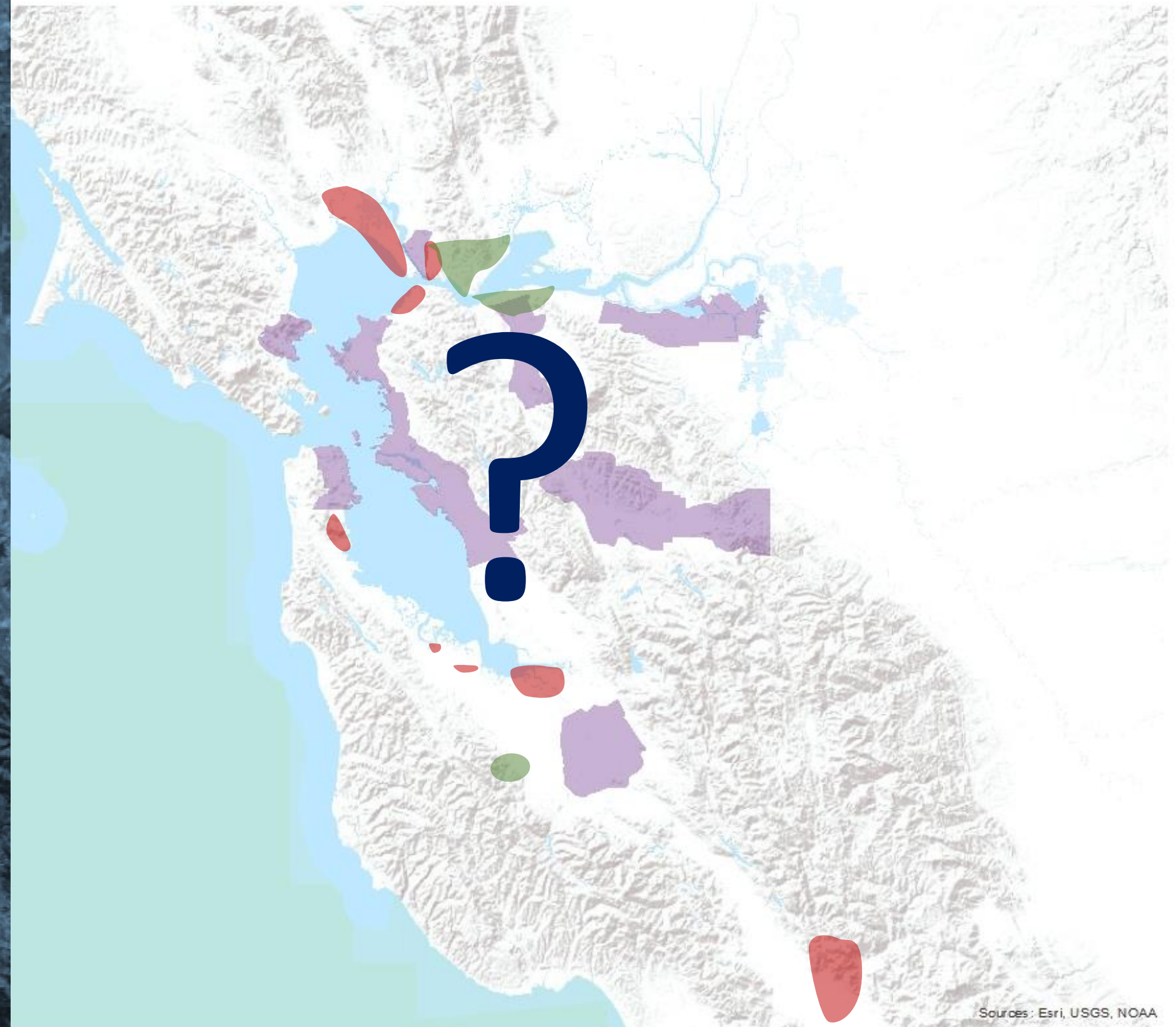
Richmond

Monitoring

- Moderate PM_{2.5} concentrations
- Very high stationary source emissions
 - Chevron refinery, chemical plant, landfills, water treatment facility
- High mobile source emissions
- High health burden
- High socio-economic vulnerability

Questions

- What do you think about the draft criteria?
- What other areas should be included and why?
- How can we help you participate?



Sources: Esri, USGS, NOAA

Feb 2018
Begin Community Meetings



Feb 2018
Outreach Plan



Feb/March 2018
Air District Board Meeting
State Community Meetings




April 2018
Final Selection of ALL Possible
Communities



July 2018
Final Selection of Priority
Communities





Thank you for being here

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