

INTRODUCTION TO SOUTH COAST AQMD

Eastern Coachella Valley (ECV) Kick-off Meeting
January 22, 2020

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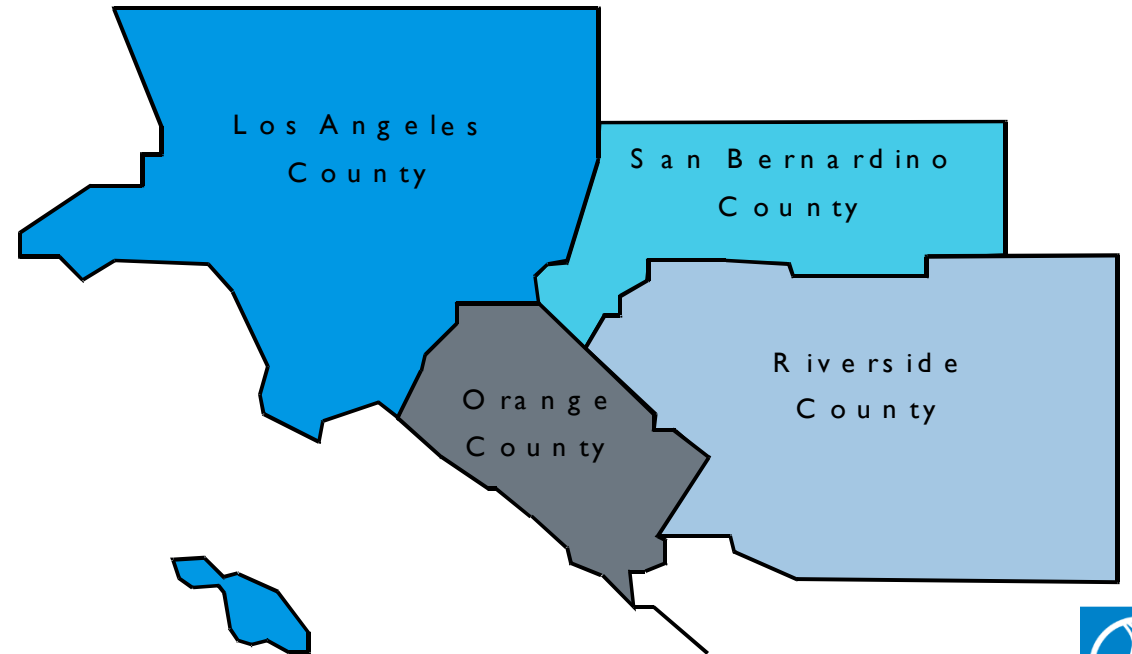


Who Are We?

We are the regional government agency that cleans the air to protect public health

Adopt air quality rules and regulations

- Enforce District rules through:
 - Periodic Inspections
 - Responding to air quality complaints
- Clean technology
- Air monitoring
- Public outreach



Air Quality: Regulatory Structure

Federal

U.S. Environmental Protection Agency (EPA)

- Adopts Health-Based National Air Quality Standards
- Regulates Interstate Sources (Trains, Aircraft, Ships, etc.)



State

California Air Resources Board (CARB)

- Adopts Health-Based State Air Quality Standards
- Regulates Cars, Trucks, Fuels, Consumer Products



Local

Air Districts (South Coast AQMD)

- Monitor Air Quality; Issue Health Alerts
- Prepare Clean Air Plans
- Regulate over 27,000 Stationary Sources
- Issue over 10,000 permits annually



Examples of Facilities We Regulate



Automotive Painting



Gas Station



Dry Cleaner



Hospital



Refinery



Power Plant

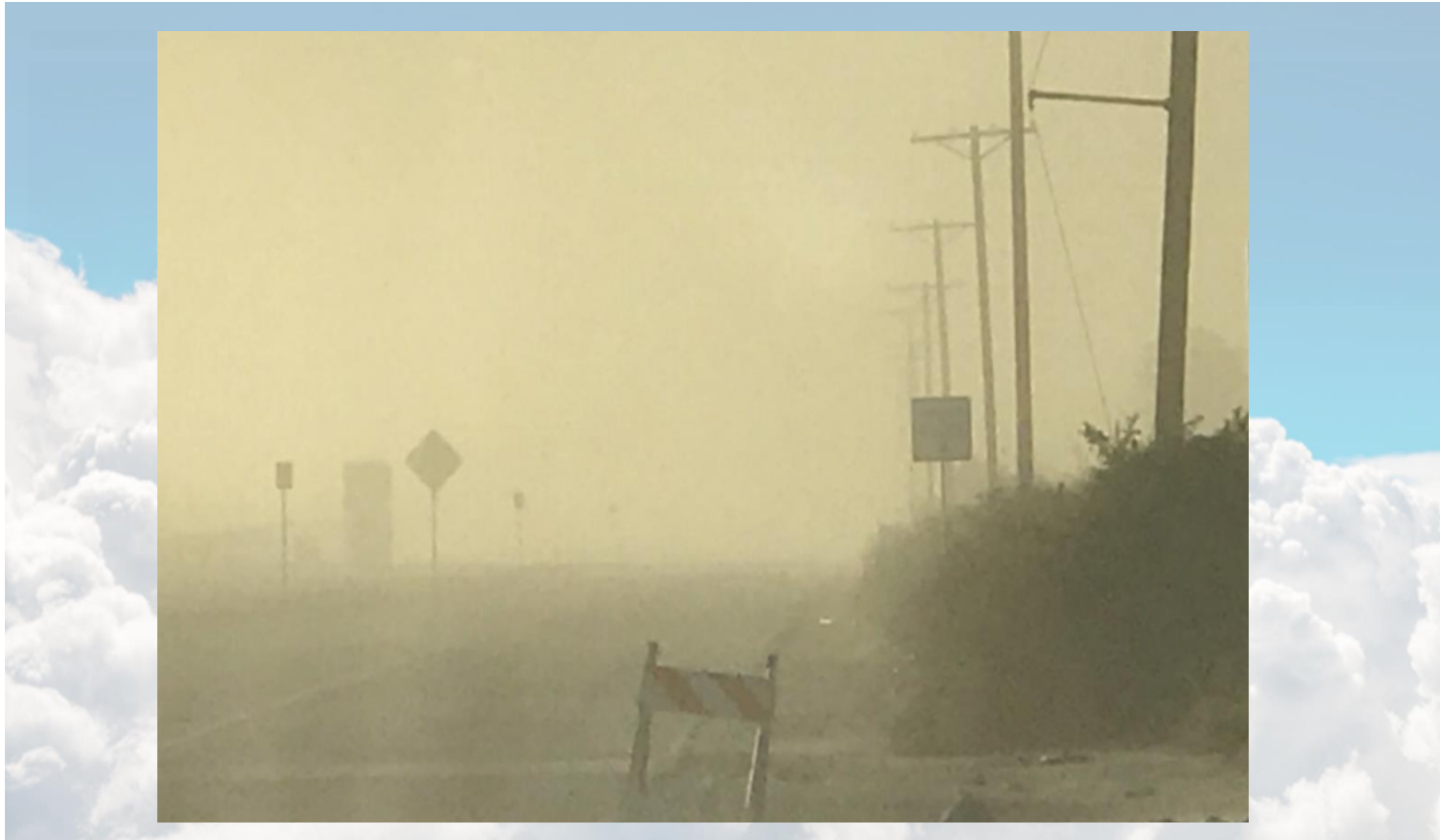
AB 617 OVERVIEW & CSC

EASTERN COACHELLA VALLEY (ECV) KICK-OFF MEETING

JANUARY 22, 2020

Arlene L. Farol

Sr. Public Information Specialist



ASSEMBLY BILL 617

**The Program's
focus is
to reduce exposure
in communities
most impacted by
air pollution.**



SOUTH COAST AQMD AB 617 COMMUNITIES

5 communities:

Year 1:

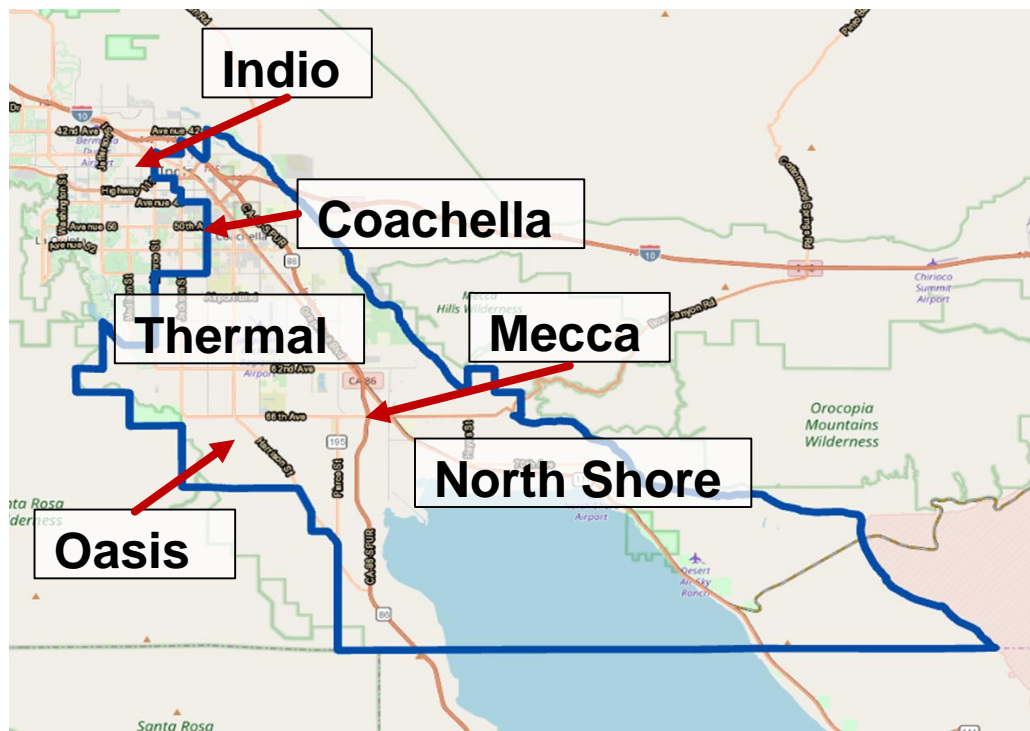
- 1) Wilmington/Carson/West Long Beach;
- 2) San Bernardino/Muscoy; and
- 3) East Los Angeles/Boyle Heights/West Commerce.

Year 2:

- 1) South East Los Angeles
- 2) Eastern Coachella Valley

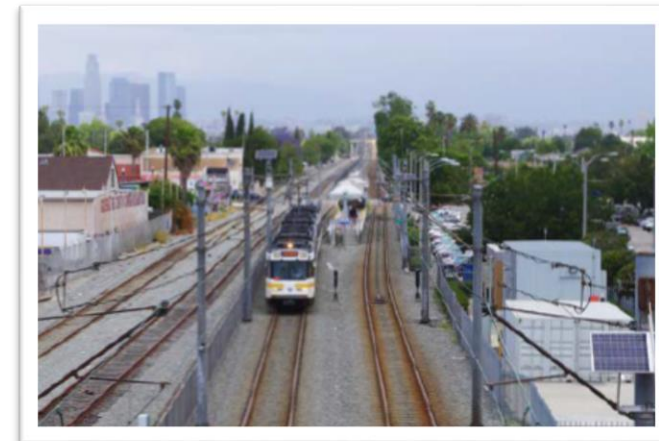
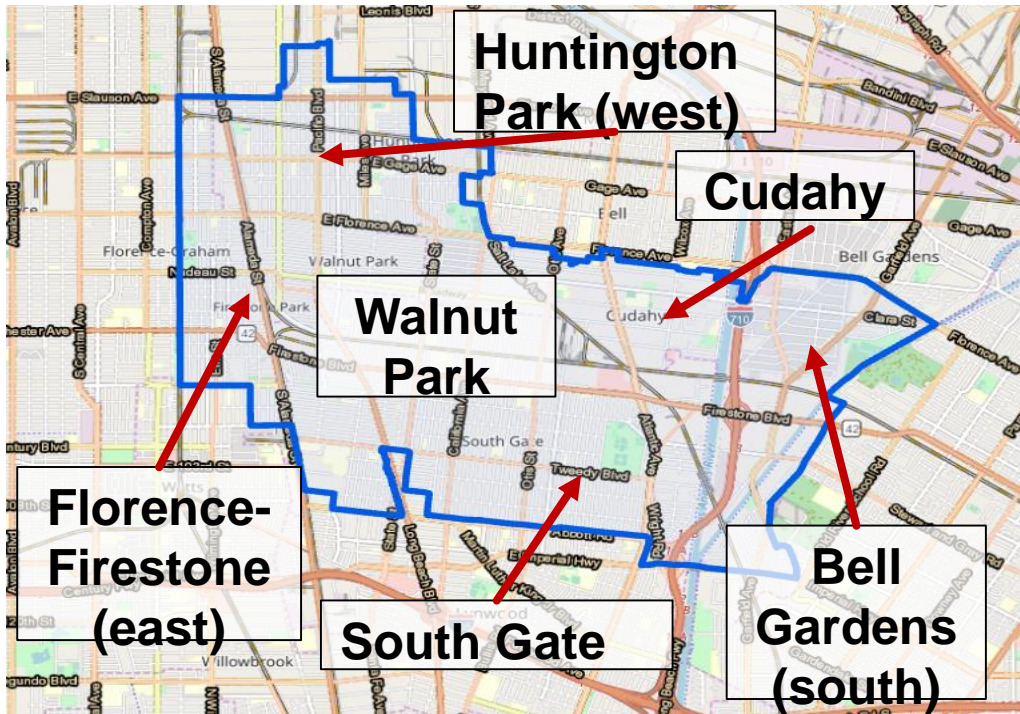
EASTERN COACHELLA VALLEY (ECV)

Coachella, Indio, Mecca, North Shore, Oasis, Thermal



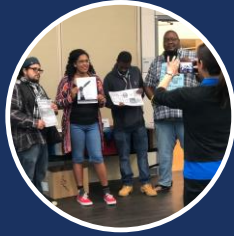
SOUTH EAST LOS ANGELES (SELA):

SOUTH GATE, FLORENCE-FIRESTONE (EAST), WALNUT PARK, HUNTINGTON PARK (WEST), CUDAHY, BELL GARDENS (SOUTH)



AB 617 COMMUNITIES

Community Steering Committees (CSCs)



San Bernardino, Muscoy (SBM)



Wilmington, Carson, West Long Beach (WCWLB)



Boyle Heights, East Los Angeles, West Commerce (BHELAWC)



Southeast Los Angeles (SELA)



Eastern Coachella Valley (ECV)

CSC meetings

Individual meetings

Community Bus Tours

Technical Advisory Group (TAG) meetings

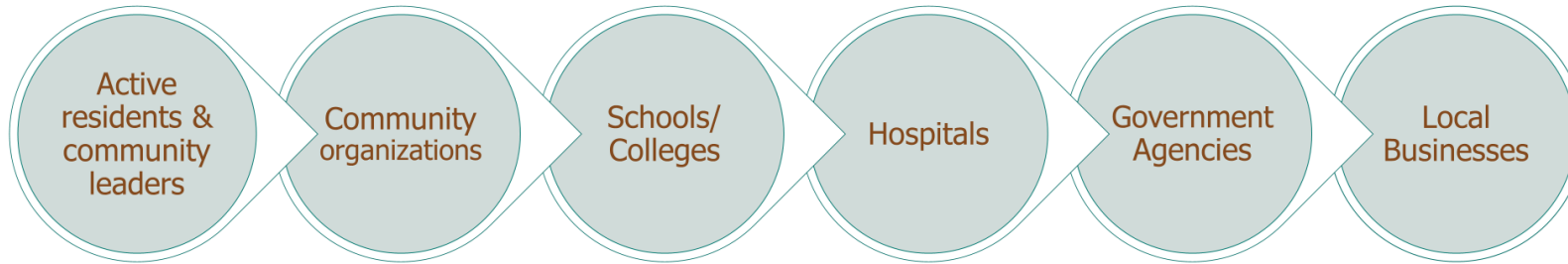
Community workshops

Community Engagement



Community Steering Committee

AB 617 | A community-focused program to monitor and reduce air pollution emissions



Purpose

To collaborate with diverse stakeholders to advise South Coast AQMD on community air monitoring and emission reduction programs.

This includes:

- Identifying & prioritizing local air pollution issues
- Assist in developing emissions reductions strategies

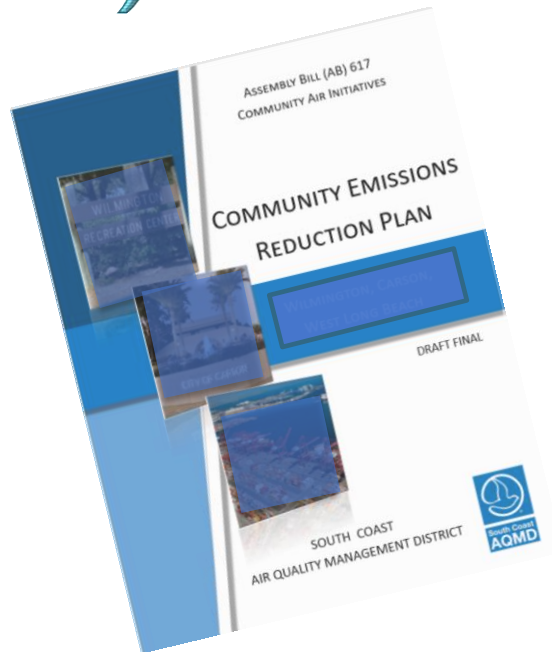


Expectations

- Communication to/from stakeholders
- Have a strong community network
- Attend monthly meetings
- Represent the group/ category you identify with
- Maintain respectful discussion

CERP & CAMP DEVELOPMENT

- **Community Emission Reductions Plan (CERP)**

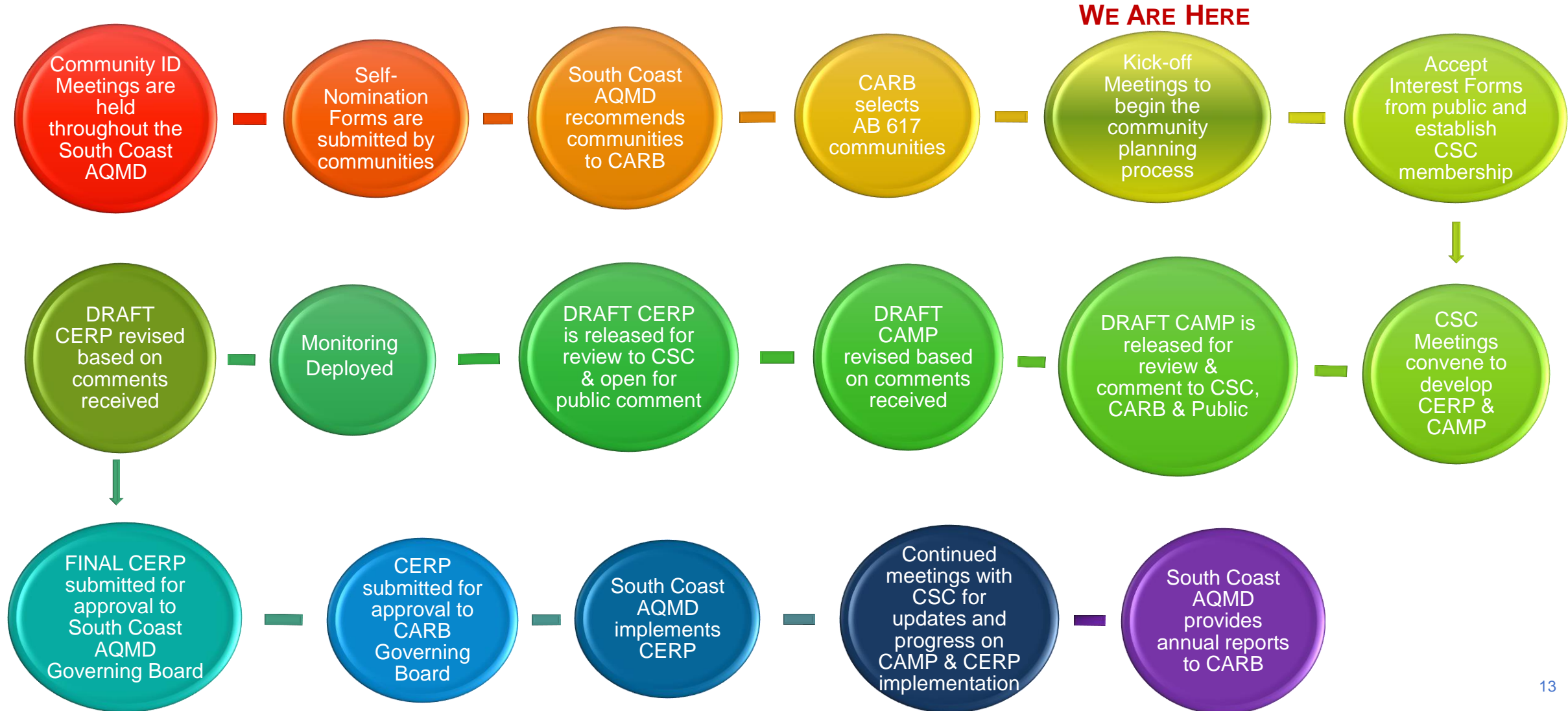


- **Community Air Monitoring Plan (CAMP)**



Pathway of AB 617

Overview of the general pathway to implement the Community Emissions Reduction Plan (CERP) Process and Community Air Monitoring Plan (CAMP).



AB 617 – 2020 COMMUNITY STEERING COMMITTEE TENTATIVE SCHEDULE

| | | | |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------|
| January 22, 2020 | Community Kick-off Meeting Location: Coachella Library Conf Rooms 1500 Sixth St. Coachella, CA | June 24, 2020 | Community Steering Committee Meeting Location:TBD |
| February 20, 2020 | Community Steering Committee Meeting Location: Coachella Library Conf Rooms 1500 Sixth St., Coachella, CA | September, 23 2020 | Community Steering Committee Meeting Location:TBD |
| March 19, 2020 | Community Steering Committee Meeting Location: Coachella Library Conf Rooms 1500 Sixth St., Coachella, CA | October 21 , 2020 | Community Steering Committee Meeting Location:TBD |
| April 22 , 2020 | Community Steering Committee Meeting Location:TBD | November 18 , 2020 | Community Steering Committee Meeting Location:TBD |

AIR POLLUTION BASICS



Pedro Piqueras
Air Quality Specialist

JANUARY 22, 2020

TYPES OF AIR POLLUTION

Air pollution is a mixture of natural and man-made substances in the air we breathe



Toxic Air Contaminants

Local

- Can cause health problems, especially for people near sources
- Local standards to protect public health

e.g., Diesel particulate matter



Criteria Pollutants

Regional

- Can cause health problems in areas where levels are often high
- Federal and state standards to protect public health

e.g., Smog



Greenhouse Gases

Global

- Indirectly affects health by increasing exposure to air pollution
- Uniform gas levels worldwide that require global efforts

e.g., Carbon dioxide

EXAMPLES OF AIR POLLUTION TYPES

Toxic Air Contaminants

- Arsenic
- Hexavalent Chromium (**CrVI**)
- Benzene
- Nickel
- Selenium
- Mercury
- Diesel particulate matter (**Diesel PM**)

Criteria pollutants

- Carbon Monoxide
- Lead
- Nitrogen Dioxide (**NO₂**)
- Particulate matter (**PM**)
- Ozone (**O₃**)
- Sulfur Dioxide (**SO_x**)

Greenhouse Gases

- Carbon Dioxide (**CO₂**)
- Methane
- Nitrous Oxide
- Chlorofluorocarbons (**CFCs**)

Other Classifications

- Oxides of nitrogen (**NO + NO₂ = NO_x**)
- Reactive organic gases (**ROG**)
- Particulate matter of 2.5 microns or less (**PM_{2.5}**)... etc.

DIFFERENT SOURCES OF AIR POLLUTION

Stationary

Examples:

- Boilers
- Heaters
- Paints and coatings

Area



Point

Examples:

- Power plants
- Industrial processes



Mobile

Off-road

Examples:

- Trains
- Forklifts
- Tractors



On-road

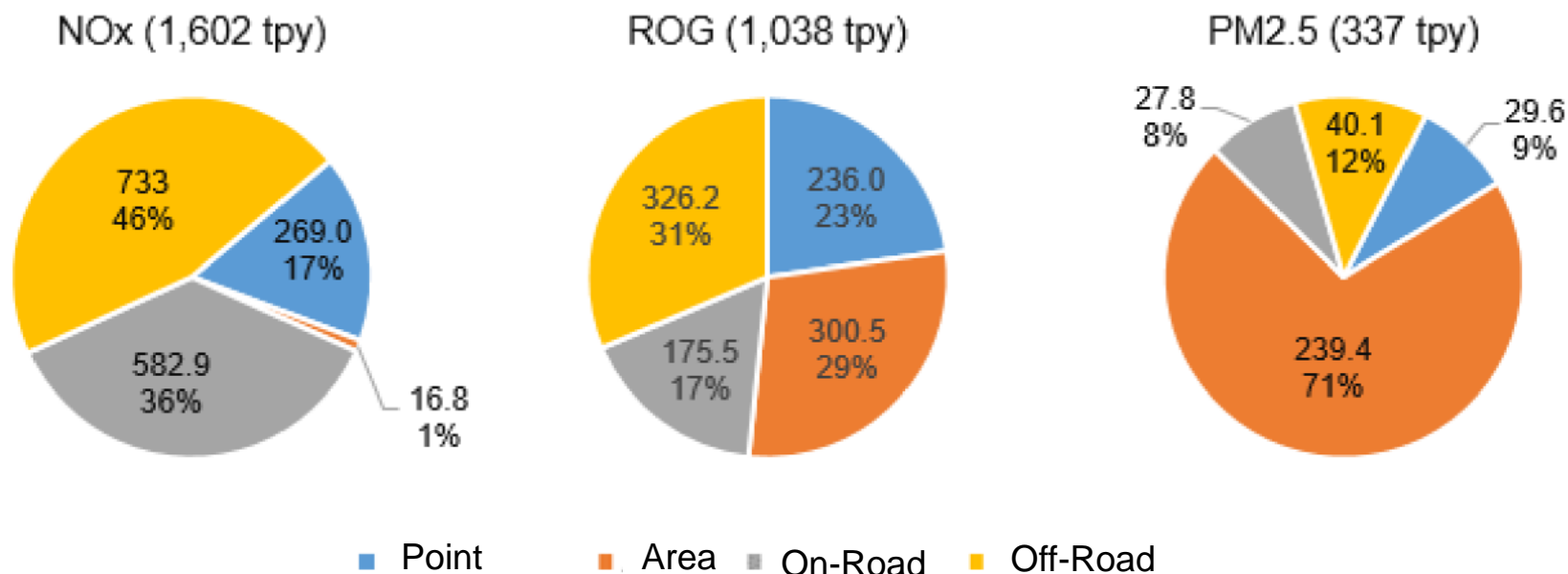
Examples:

- Cars
- Buses
- Trucks



WHAT ARE THE SOURCES OF AIR POLLUTION IN EASTERN COACHELLA VALLEY?

2017 Preliminary Source Contributions (tons per year)



- **Off-road equipment, trains, farm equipment**
- **Vehicles, trucks**
- **Fuel combustion, waste disposal**

- **Off-road equipment**
- **Consumer products, pesticides**
- **Coatings and related process solvents**
- **Light duty vehicles, recreational boats**

- **Construction and demolition, dust**
- **Off-road equipment**
- **Industrial processes**
- **Light duty vehicles**

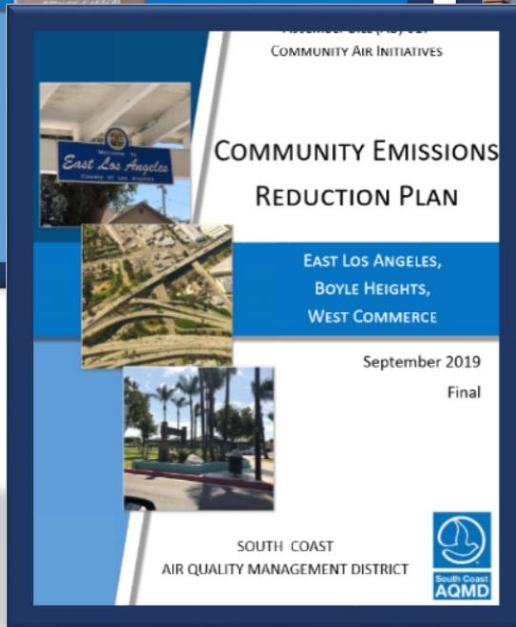
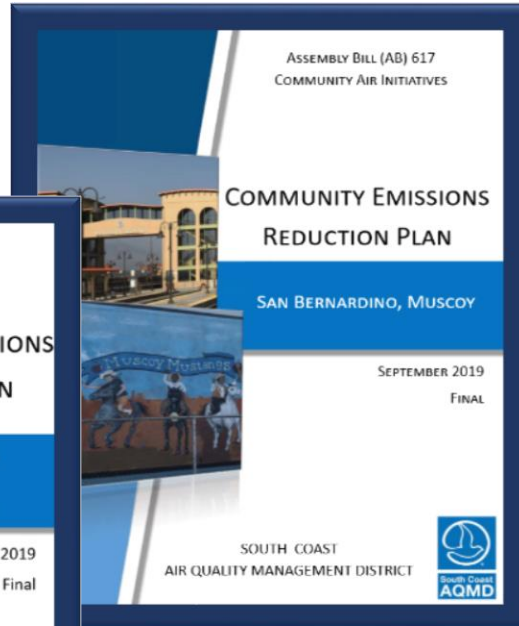
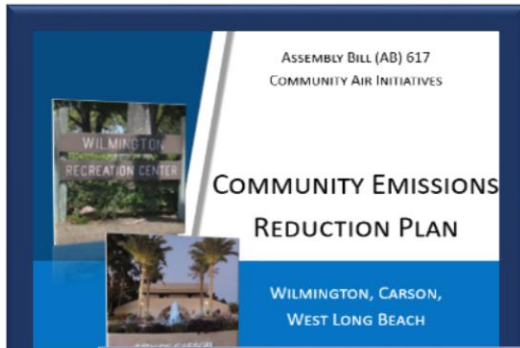
AB 617 COMMUNITY EMISSIONS REDUCTION PLAN (CERP)

- **What is a CERP?**
 - A **local plan** to reduce air pollution emissions by addressing community **air quality priorities**
 - Includes **actions** to reduce emissions in **partnership** with community stakeholders
- **How does the community provide direct input to the CERP?**

- **Community Steering Committee**
 - Series of meetings
 - Committee presentations and testimonials
- **Additional Public Meetings**
 - Community Workshops
 - Technical Advisory Group Meetings
- **One-on-one meetings**
 - In-person meetings
 - Phone calls
 - Emails



EXAMPLES OF CERP ACTIONS



Rules and Regulations



Focused Enforcement



Air Monitoring



Collaboration



Incentives



Public Information and Outreach

EXAMPLES OF CERP ACTIONS AND EMISSION REDUCTIONS



Emission reductions are achieved through specific actions in each CERP, for example:

- **Additional Regulations**
 - CARB and South Coast AQMD rules and regulations
- **Focused Enforcement**
 - Truck idling sweeps
- **Air Monitoring**
 - Mobile/stationary air monitoring assessing hot spots
- **Other**
 - Prioritization of incentive funds
 - Inter-agency collaboration

SUMMARY OF CERP PROCESS

Launch

- Establish community steering committee (CSC)
- CSC identifies **air quality priorities**



Development

- Conduct regular CSC meetings and workshops to develop:
 - Emission reduction **goals and targets**
 - Identify **actions** and **strategies** to achieve goals and targets

Implementation

- CERP is **adopted** by South Coast AQMD Governing Board and **approved** by CARB Board
- Begin implementing CERP actions to reduce emissions

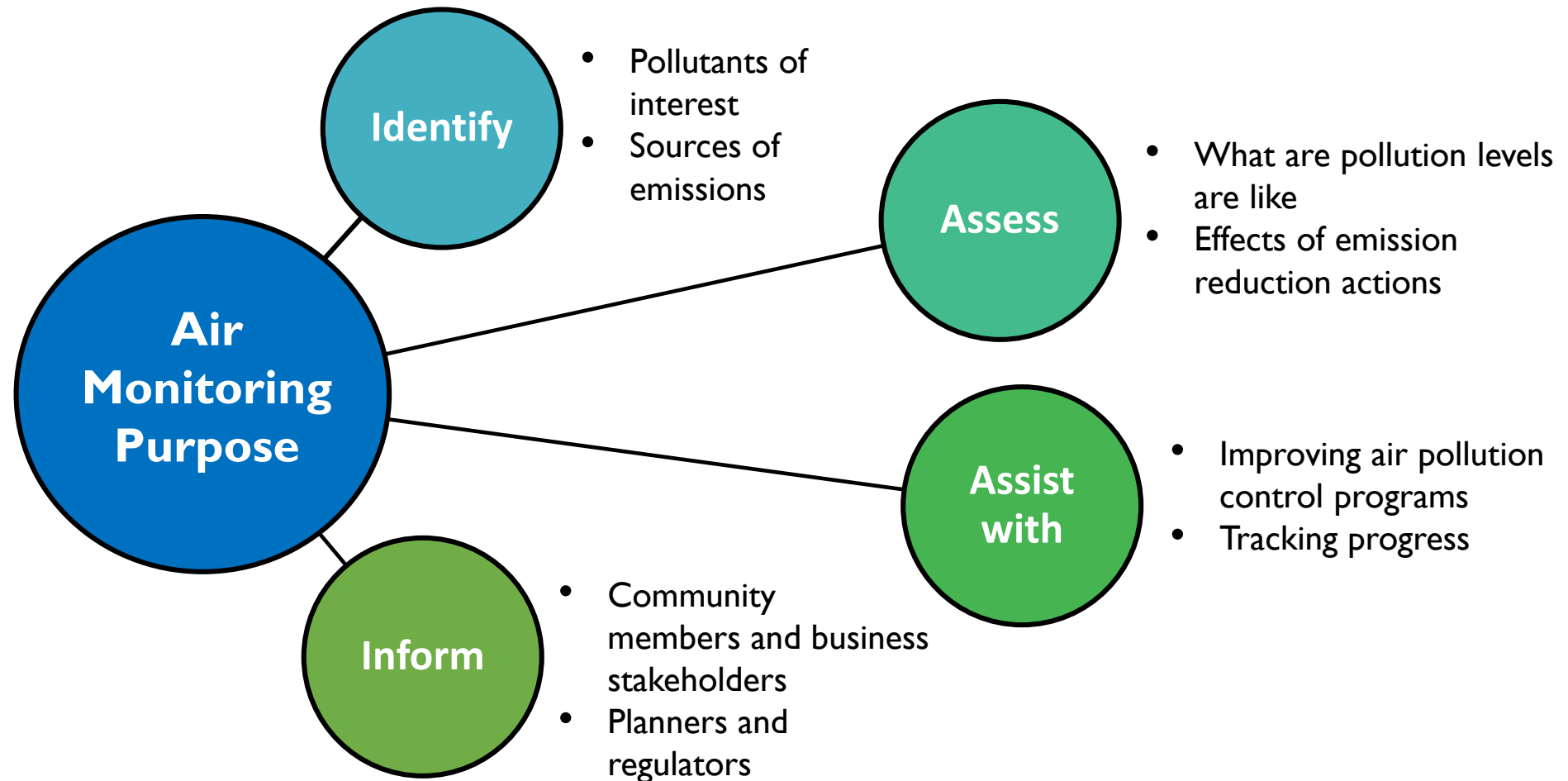


AB 617 COMMUNITY AIR MONITORING PLAN (CAMP)

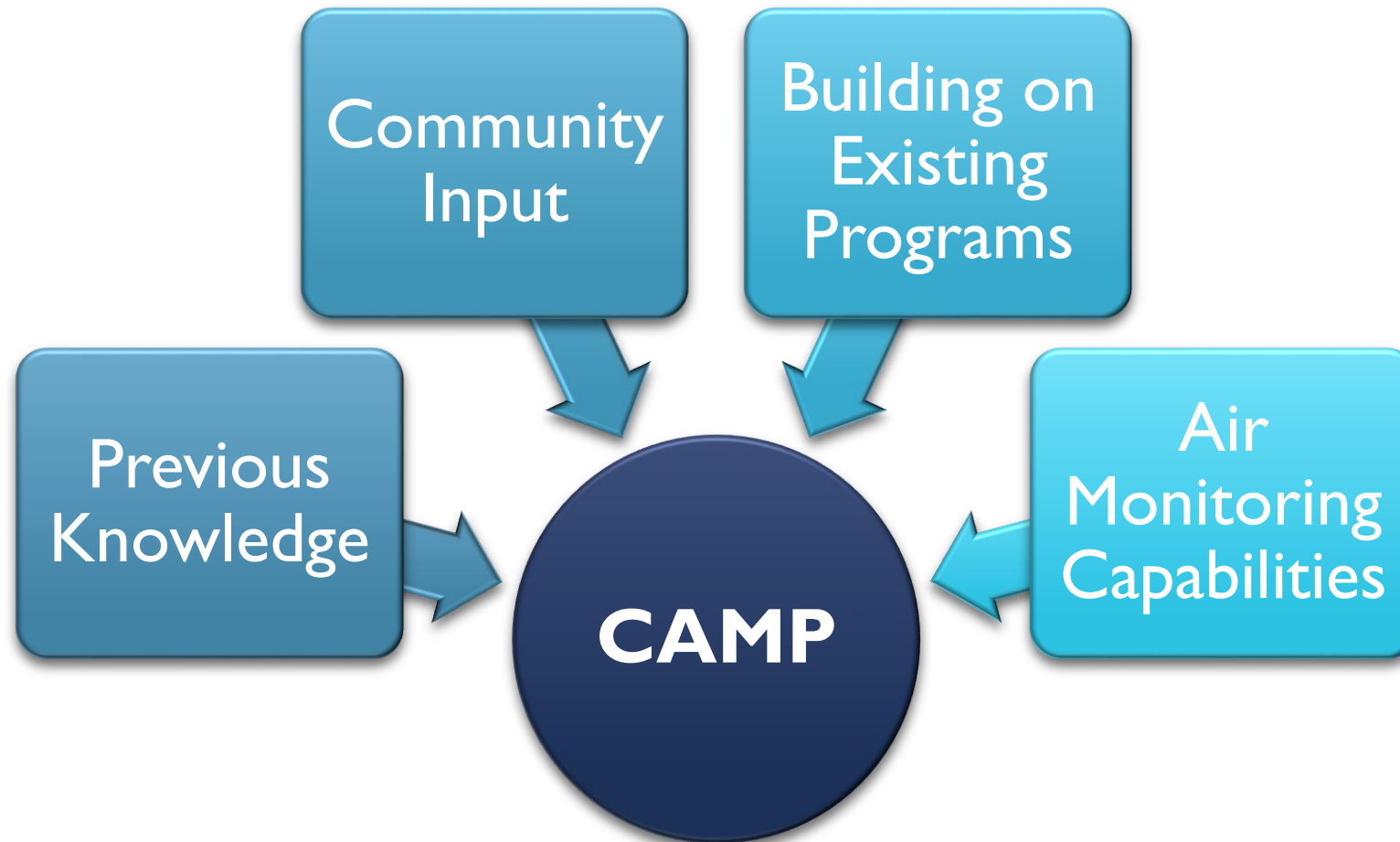
Payam Pakbin
Program Supervisor

JANUARY 22, 2020

WHY DO WE MONITOR AIR POLLUTION?



COMMUNITY AIR MONITORING PLAN (CAMP) CONSIDERATIONS



AB 617 COMMUNITY AIR
MONITORING PLAN (CAMP)
FOR THE EAST LOS ANGELES,
BOYLE HEIGHTS, WEST
COMMERCE COMMUNITY



South Coast Air Quality Management District
April 2019

Version 1

AB 617 COMMUNITY AIR
MONITORING PLAN (CAMP)
FOR THE
SAN BERNARDINO/MUSCOY
COMMUNITY



South Coast Air Quality Management District
April 2019

Version 1

AB 617 COMMUNITY AIR
MONITORING PLAN (CAMP)
FOR THE WILMINGTON /
CARSON / WEST LONG
BEACH COMMUNITY



South Coast Air Quality Management District
April 2019

Version 1

MONITORING PLANS FOR AB 617 YEAR ONE COMMUNITIES

■ CAMP for Year One Communities

■ Wilmington / Carson / West Long Beach:

<http://www.aqmd.gov/nav/about/initiatives/community-efforts/environmental-justice/ab617-134/ab-617-community-air-monitoring/communities/wcwlb>

■ San Bernardino / Muscoy:

<http://www.aqmd.gov/nav/about/initiatives/community-efforts/environmental-justice/ab617-134/ab-617-community-air-monitoring/communities/sbm>

■ East Los Angeles / Boyle Heights / Commerce:

<http://www.aqmd.gov/nav/about/initiatives/community-efforts/environmental-justice/ab617-134/ab-617-community-air-monitoring/communities/elabhwc>



GENERAL AIR MONITORING APPROACH

Mobile Monitoring

- Survey large areas
- Identify hotspots and unknown sources
- Support inspections and enforcement actions
- Inform emission reduction efforts

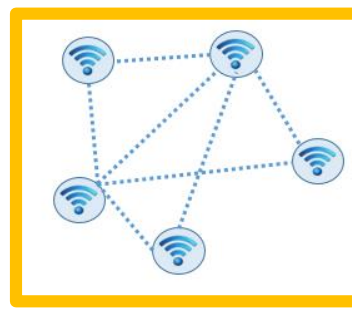
Fixed Monitoring

- Provide more information about possible sources
- Assess levels in community
- Support CERPs
- Track progress

Sensors

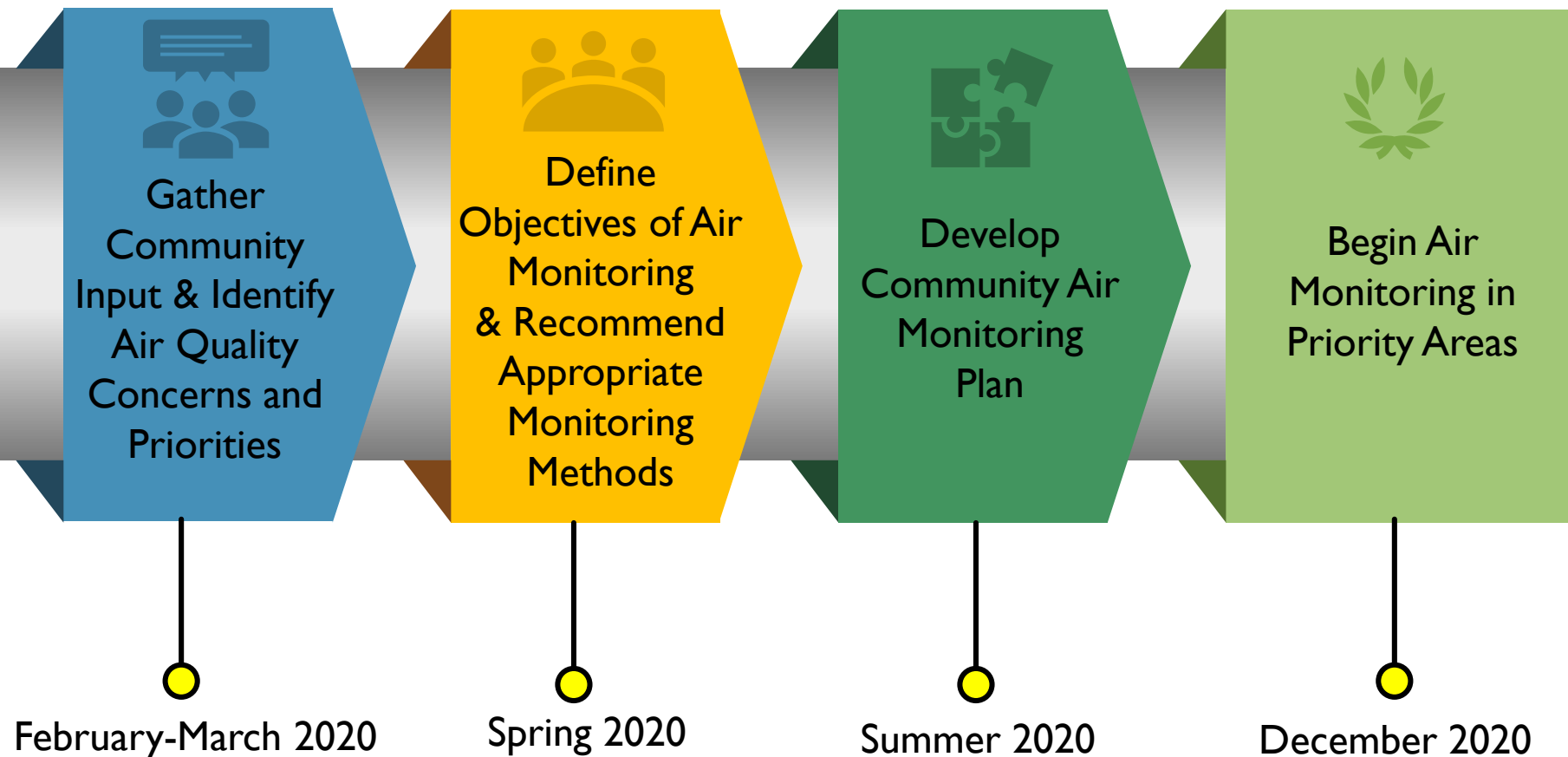
- Provide more information about how levels vary within the community
- Complement other monitoring strategies
- Engage community in air pollution measurement

Assess
Review
Recommend



WORKING WITH THE COMMUNITY STEERING COMMITTEE (CSC) TO DEVELOP THE MONITORING PLAN

Next Steps...



THANK YOU!

For more info, contact your community liaisons (year 2):

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(ECV)**

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General AB 617:

ab617@aqmd.gov

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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