

Community Air Protection Program Technical Summit



Presentation Outline

- \checkmark Overview of AB 617
- Concept Paper Elements
- Next Steps





Focus on Community Action

Community focused framework

- Community emissions reduction programs
- Accelerated retrofit of pollution controls on industrial facilities
- Community-level air quality monitoring
- Enhanced emissions reporting requirements
- Increased penalty provisions
- Grants to local community groups



Program Elements

September 2018	 CARB: Identify initial communities and adopt planning framework (Monitoring Plan and Statewide Strategy) 	
January 2019	 Air Districts: Adopt expedited schedule for implementation of Best Available Retrofit Control Technology (BARCT) 	
July 2019	Air Districts: Deploy community air monitoring campaigns	
October 2019	Air Districts: Adopt community emissions reduction programs	
Fall 2019	CARB: Select additional communities (and annually thereafter)	
December 2023	Air Districts: Implement BARCT requirements	
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Coordinated Outreach

CARB

Statewide Meetings Discussion of:

- Development of multicommunity action framework
- Process for selection of initial communities

Community Meetings Discussion of:

Air Districts

- Recommendations for initial communities
- Recommendations for incentive funding investments



Community Identification

- Prioritize communities with highest exposure burdens for:
 - Development of community emissions reduction programs
 - Deployment of community air monitoring
- Focus on disadvantaged communities and sensitive receptors





Planning Framework

Monitoring Plan

- Review air monitoring technologies
- Review community air monitoring systems
- Establish criteria on best practices

Statewide Strategy

- Develop methods for assessing exposure and sources
- Identify strategies for reducing emissions
- Establish criteria for community emissions reduction programs



Presentation Outline

- Overview of AB 617
- ✓ Concept Paper
- Next Steps





Program Framework Concept Paper

- Staff's initial proposals:
 - Process for identification and selection of communities
 - Strategies for reducing emissions and exposure
 - Criteria for community emissions reduction programs
 - Criteria for community air monitoring
 - Additional implementation elements and resources
- Mechanism to seek advice and feedback
 CARB

Guiding Principles for Program Development

- Expedite actions to improve public health
- Ensure community members are partners
- Ensure robust, transparent, and collaborative process
- Provide strong science-based foundation and enhance data accessibility
- Leverage resources and develop approaches to benefit communities statewide



Community Assessment and Identification Process

Proposing process that draws upon both statewide assessment and local knowledge:



Community recommendations

CARB criteria for statewide process



Selection of Communities

- Expect smaller set of communities in first year
- Reflect variety of air quality challenges and solutions
- Represent well-characterized sources, known monitoring needs, and established community capacity
- Serve as models for communities with similar challenges
- Maintain list of communities for future years



Strategies for Reducing Emissions and Exposure

- Suite of measures to expedite action
- Existing planning efforts provide foundational reductions
- Identify additional community-specific strategies
- Leverage existing authorities and innovative new strategies



Criteria for Community Emissions Reduction Programs

- Define clear benchmarks for program development
- Ensure consistent standard of quality
- Recognize strategies are unique to each community
- Include robust public process and community partnerships





Proposed Community Emissions Reduction Programs Elements

AB 617 Requirements

- Emission reduction targets
- Specific reduction strategies
- Implementation schedule
- Enforcement plan

Additional Elements

- Air quality goals
- Metrics to track progress
- Community steering committee
- Public engagement plan

CEQA Analysis

 CEQA analysis as applicable



Air Monitoring Components

- Assess capabilities of air monitoring technologies
- Review existing community air monitoring networks
- Criteria for community air monitoring campaigns
- Resources for community air monitoring
- Data display and communication



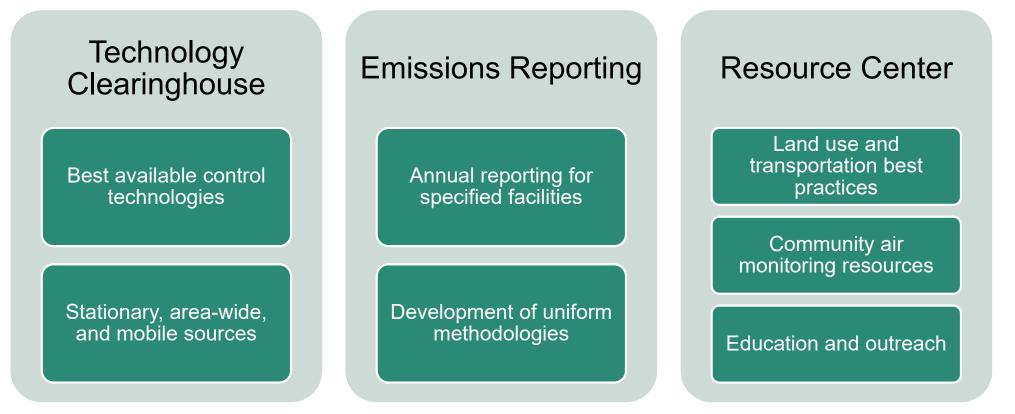


Criteria for Community Air Monitoring Plans

- Produce data to support decision-making and action
- Guide process of planning air monitoring campaigns
- Support air districts and communities
- Address a variety of objectives and monitoring approaches



Other Implementation Elements





Funding to Benefit Communities

\$250 Million for Incentive Funding to Support Immediate Reductions

CLEAN TECHNOLOGY INCENTIVES – \$250 MILLION



\$5 M for Community Air Grants

- Funding to support:
 - Capacity building training and support
 - ✓ Technical assistance
 - ✓ Community engagement
- Solicitation released mid-February

Presentation Outline

- Overview of AB 617 Goals
- Concept Paper Elements
- ✓ Next Steps





Framework Development Timeline

February 2018	 Concept Paper released; workshops and community meetings 	
March 2018	 CARB Board Meeting–AB 617 Implementation Update 	
May 2018	 Initial Draft Program Framework & resource center released 	
June 2018	 Workshops and community meetings 	
August 2018	 Final Draft Program Framework, community recommendations, & resource center released 	
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Environmental Analysis

- Environmental Analysis (EA) being prepared analyzing potentially significant adverse impacts caused by reasonably foreseeable actions.
- Meets requirements of CARB's certified program under the California Environmental Quality Act (CEQA).
- The CEQA Environmental Checklist (CEQA Guidelines Appendix G) is used to identify and evaluate potential indirect impacts.
- The EA will be an appendix to the Framework Document.



Environmental Analysis to be Prepared

- The EA will include:
 - Description of reasonably foreseeable actions taken in response to the proposal
 - Programmatic level analysis of potential adverse impacts caused by reasonably foreseeable actions
 - Beneficial impacts
 - Feasible mitigation measures to reduce/avoid significant impacts
 - Alternatives analysis
- Input invited on appropriate scope and content of the EA
- Draft EA will be released for 45 day public comment period



Breakout Sessions

- 1. Strategies and Community Emissions Reduction Programs
- 2. Community Air Monitoring
- 3. Emissions Reporting, Technology Clearinghouse, and Assessment Tools





Strategies and Community Emissions Reduction Programs - Breakout Session



Breakout Session Presentation Outline

- ✓ Strategies for Reducing Emissions and Exposure
- Criteria for Community Emissions Reduction Programs





Strategies for Reducing Emissions and Exposure

- Suite of measures to expedite action
- Existing planning efforts provide foundational reductions
- Identify additional community-specific strategies
- Leverage existing authorities and innovative new strategies



Comprehensive Suite of Strategies

- Each community will require individual mix of strategies:
 - Regulatory actions and targeted enforcement
 - Incentive funding to accelerate deployment of cleaner technologies
 - Land use and transportation planning tools
 - Mitigation strategies
- Accelerated implementation of BARCT
- Identification of new statewide measures



New Statewide Measures

- CARB will identify new statewide measures
- Measures may include:
 - Airborne Toxic Control Measures
 - Mobile source measures





Resources for Outreach, Land Use, and Transportation Strategies

Provide tools and resources on best practices

By October 2018

- List of existing best practices and strategies
- Links to existing tool kits and resources

After October 2018

- Develop new best practices, model ordinances, and tool kits
- Incorporate into Technology Clearinghouse



Breakout Session Presentation Outline

 Strategies for Reducing Emissions and Exposure
 Criteria for Community Emissions Reduction Programs





Criteria for Community Emissions Reduction Programs

- Define clear benchmarks for program development
- Ensure consistent standard of quality
- Recognize strategies are unique to each community
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Proposed Community Emissions Reduction Programs Elements

AB 617 Requirements

- Emission reduction targets
- Specific reduction strategies
- Implementation schedule
- Enforcement plan

Additional Elements

- Air quality goals
- Metrics to track progress
- Community steering committee
- Public engagement plan

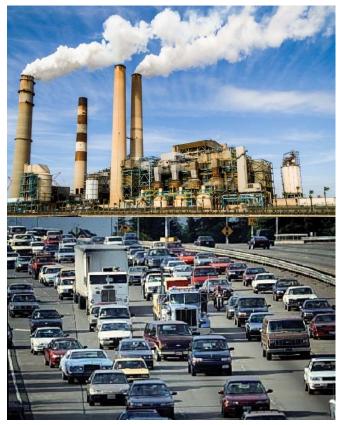
CEQA Analysis

 CEQA analysis as applicable



Proposed Air Quality Goals

- Address disproportionate exposure burdens
- Considering health-based air quality goals:
 - Air quality standards
 - Toxics risk reduction
- Further health studies and data needed to track community-level health impacts





Emission Reduction Targets

- Quantitative emission reduction targets
- Based on technical assessment:
 - Pollutants that are key drivers of health risk and exposure
 - Contributing sources
 - Regional versus local contributions





Technical Assessment

Technical assessment should include:

- Best available measurement, inventory, and modeling data
- Community-level emissions inventory
- Evaluation of existing rule compliance
- Assessment of benefits of new regulations
- Sensitive receptor locations and sources of concern



Specific Reduction Strategies

Evaluate and ensure compliance with existing strategies

Implement expedited BARCT schedule

Select strategies from statewide strategy

Review and update risk reduction audits

Consideration of feasibility, authority, and cost-effectiveness



Implementation Schedule

- Dates for district board/implementing agency consideration and implementation timeframe
- Immediate, 3-year, 5-year, and 10-year milestones
- Encourage implementation of measures in parallel with program development to expedite reductions



Proposed Metrics to Track Progress

- Annual metrics on implementation elements:
 - Emissions of criteria pollutants & air toxics
 - Implementation of regulations and strategies
 - Dollars invested and projects implemented
- Multi-year metrics on exposure and co-benefits:
 - Measured concentrations of applicable pollutants
 - Local economic impacts
 - Other community benefits



Enforcement Plan

- Joint effort of air districts and CARB
- Tailored to address specific community issues
- May involve advanced measurement techniques
- Could include training and/or new reporting tools





Community Engagement

Community partnerships

• Form community steering committee

Robust public process

- Regional workshops
- Community-level informational meetings
- Translate materials and interpretation services
- Designated contact person
- Dedicated website
- Air district board hearings





CARB Review Process

- CARB staff will work to expedite review
- Staff evaluation will be based on:
 - Program criteria check-list
 - Appropriateness and adequacy of strategies and timelines
 - Public process and community partnerships



Annual Reporting Requirements

- Status of all program strategies
- Updates on metrics for tracking progress
- Lessons learned to support similar communities
- Planned changes based on progress to-date





Community Air Protection Program Summit: Community Air Monitoring - Breakout Session

February 2018

Breakout Session Presentation Outline

- ✓ Criteria for Community Air Monitoring
- Air Monitoring Data Display
- Resources for Community Air Monitoring





Air Monitoring Components

- Assess capabilities of air monitoring technologies
- Review existing community air monitoring networks
- Criteria for community air monitoring campaigns
- Resources for community air monitoring
- Data display and communication





Learning from Successful Programs

Air District and community-led activities provide successful models

- IVAN Air Network
- South Coast STAR Grant, MATES, Paramount
- Bay Area CARE program
- West Oakland Environmental Indicators Project
- San Ysidro border traffic study
- Sacramento wood smoke study





Community Air Monitoring Objectives





Air Monitoring Methods





Community Engagement



Community partnerships

• Form community steering committee

Focus of steering committee

- Understand community issues
- Develop community air monitoring plans
- Determine data display and interpretation needs

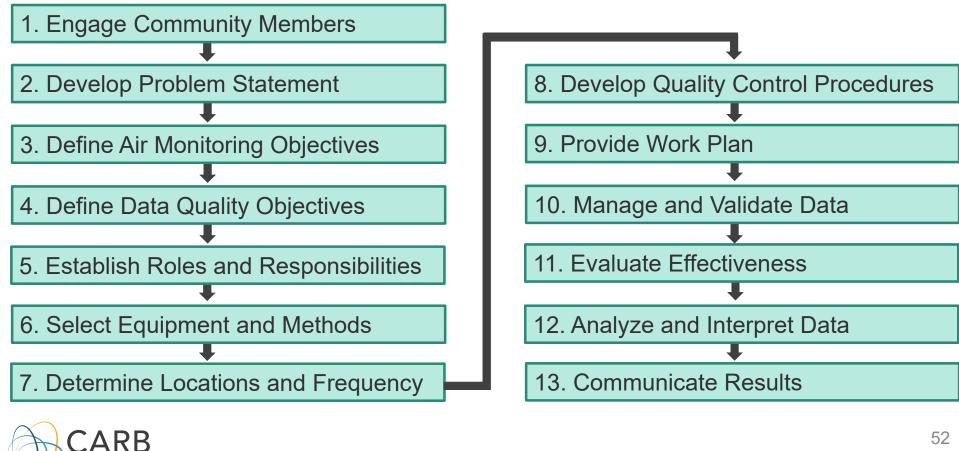


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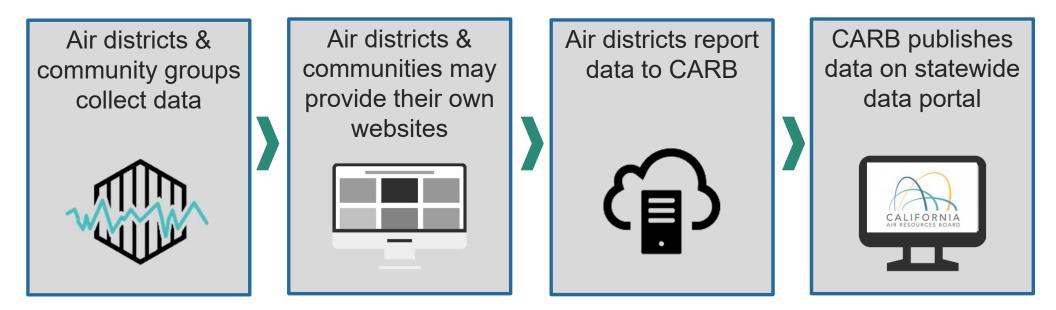


Community Air Monitoring Plan Elements



Data Reporting Requirements

• Data must be publicly stored and accessible





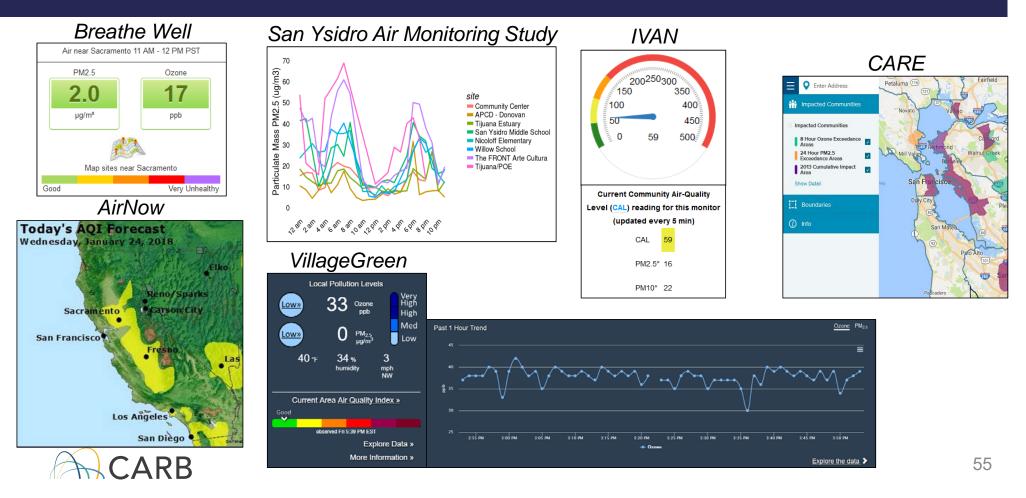
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- Criteria for Community Air Monitoring
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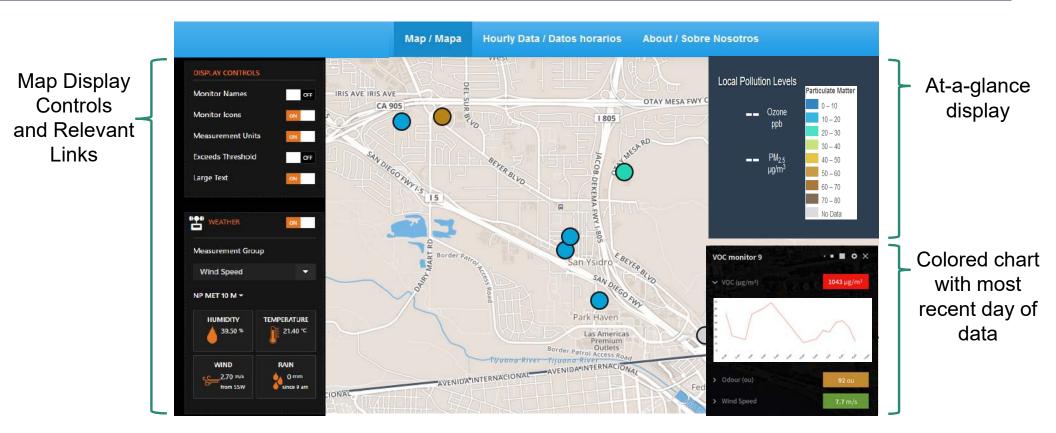
Existing Monitoring and Web Portals



Goals of New Web Portal

Availability	 Provide access to data across the State
Timeliness	 Maximize timeliness of data availability
Flexibility	 Support display of different types of monitoring data
Transparent	 Provide information on data collection and processing
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Example Map Tool





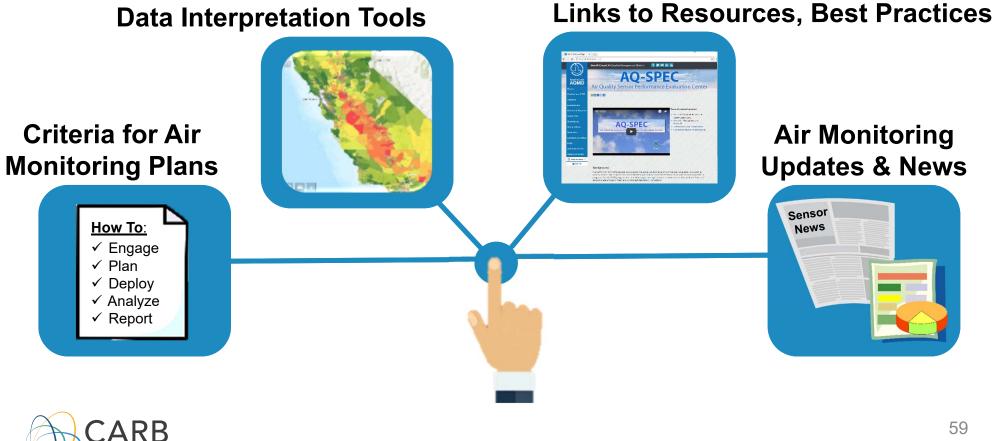
Breakout Session Presentation Outline

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Community Air Monitoring Resource Center





Assess Air Monitoring Technologies

- Review air monitoring methods
- Evaluate performance of technologies
- Collaborate with air sensor evaluation programs
- Make reports publicly available





Improve Monitoring Technologies

Assess commercially available technologies Identify limitations of current technologies Sponsor technical meetings and technology challenges New & Improved Technologies

Air Sensors International Conference

https://sehall4.wixsite.com/asic/home-landing





Emissions Inventory, Technology Clearinghouse, Assessment Tools - Breakout Session



February 2018

Breakout Session Presentation Outline

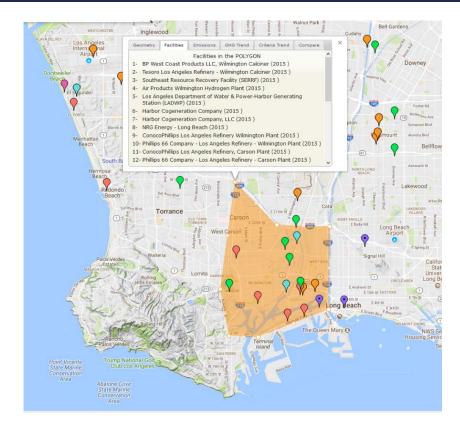
✓ Emissions Inventory

- Technology Clearinghouse
- Assessment Tools
 - Criteria for Identifying Impacted Communities
 - Methodologies for Assessing Contributing Sources





Enhanced Emission Reporting





- Annual data for larger stationary sources
- Other relevant facility-level data
- Uniform, statewide reporting methodologies
- Allows for certification or verification

Sources Subject to New Reporting Requirements

- "Stationary sources" subject to requirements:
 - Subject to Mandatory Reporting Rule for GHG emissions
 or
 - Authorized to emit 250 tons per year or more of a nonattainment pollutant or its precursors

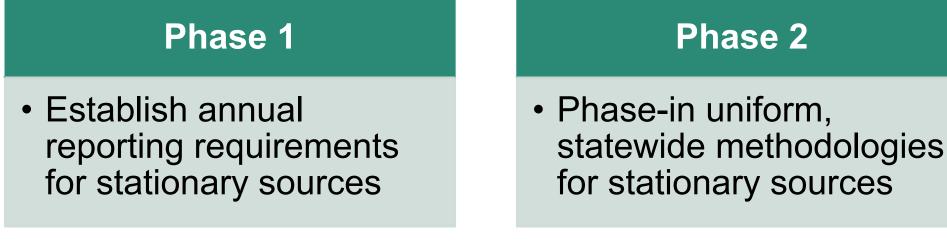
or

• Receives an elevated Hot Spots prioritization score



Emissions Reporting Methodologies

- Develop statewide regulation with phased approach
- Increase accessibility, be user friendly, support air district program needs





Development of Community Inventories

- Support community emissions reduction programs
- Develop guidelines for consistent methodologies
- Provide granular accounting of all sources within a community



Breakout Session Presentation Outline

• Emissions Inventory

✓ Technology Clearinghouse

- Assessment Tools
 - Criteria for Identifying Impacted Communities
 - Methodologies for Assessing Contributing Sources





Stationary Source Control Requirements

- Best Available Control Technology (BACT):
 - New facilities or equipment modifications
 - Requirements based on attainment designation
 - Lowest achievable emissions rate for each equipment type (by pollutant)
 - Established through facility permit
- Best Available Retrofit Control Technology (BARCT):
 - Existing facilities and equipment
 - Maximum degree of reduction achievable
 - Must consider energy, environmental, and economic impacts
 - Established through prohibitory rules

Technology Clearinghouse

- Resource to help identify most stringent controls available
- Proposed clearinghouse:
 - Control technology determinations (BACT and T-BACT)
 - Existing rules and measures
 - Emerging control technologies
- Ability to visualize data and compare controls statewide



Technology Advancement

• Clearinghouse will identify advanced technologies becoming available





Proposed Clearinghouse Phases

Phase IA (Mid 2018)

- •District BACT and T-BACT determinations
- •District BARCT rules
- •Enhance current clearinghouse system

Phase IB (Late 2018)

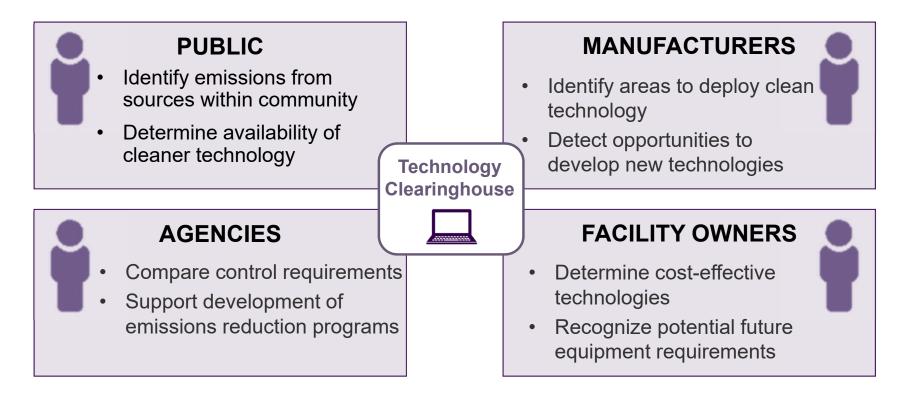
- Additional measures:
 - Mobile and area-wide sources
 - Airborne Toxic Control Measures
- Tools to compare technologies
- Highlight most stringent technologies/rules

Phase II (Mid 2020)

- Develop new system
- User friendly design
- Identify next generation technologies
- Link to Pollution Mapping Tool



Anticipated User Groups





Breakout Session Presentation Outline

- Emissions Inventory
- Technology Clearinghouse
- ✓Assessment Tools
 - Criteria for Identifying Impacted Communities
 - Methodologies for Assessing Contributing Sources





Assessing Impacted Communities

Based on compilation of factors:

- Measured/modeled concentrations of criteria pollutants and air toxics
- Sensitive receptors, exposed population, and proximity to sources
- Density of sources and magnitude of emissions
- Public health indicators for incidence or exacerbation of disease
- Modeled cancer risk estimates
- Socio-economic factors



Tools and Data Sources

CalEnviroScreen and additional data sources:

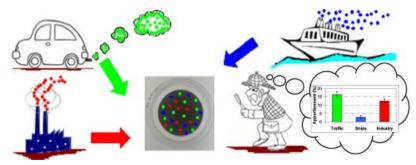
Emissions Data	Monitoring/ Special Studies	Health Data	Other Data
 CARB Pollution Mapping Tool Mobile, area, stationary emissions 	 Monitoring data Regional studies (MATES and CARE) Air quality modeling 	 Health risk assessments National Air Toxics Assessment Health indicators 	 Notices of violation Enforcement actions or complaints
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Assessing Source Contributions

Develop methodologies to:

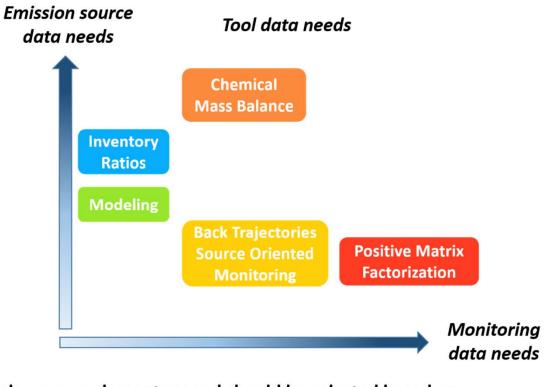
- Assess and identify contributing sources or categories of sources
- Estimate relative contribution of source categories to elevated exposure burden





Source Apportionment Methodologies

- Informs emissions reduction programs
- Apply appropriate tools for each community
- Joint effort between CARB and local air districts



Tools are complementary and should be selected based on community specific parameters and best available data.





Wrap-up Session



Report Out from Breakout Sessions

- 1. Strategies and Community Emissions Reduction Programs
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Contact Us

CARB Office of Community Air Protection

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Community Air Protection

+ BACK TO ALL TOPICS

The goal of AB 617 is to ensure that everyone benefits from our state's air guality efforts, especially those that live in the most severely pollution impacted areas of California, AB617 provides for.

- Community level monitoring
- Statewide strategy to reduce emissions impacting communities
- Community-specific emission reduction plans
- Accelerated retrofit of pollution control equipment at existing facilities near communities
- Direct reporting of emissions to the CARB
 Increased penalties



Website:

- <u>https://ww2.arb.ca.gov/our-</u> work/programs/community-airprotection-program-ab617
- Email
 - <u>CommunityAir@arb.ca.gov</u>
 - AireComunitario@arb.ca.gov
- Click "Subscribe" for listserve:
 - Community Air (or) airecomunitario