



# AB 617 Consultation Group Meeting

January 30, 2018



# Purpose of Concept Paper

- Development of AB 617 is still in the early stages
- Draft Concept Paper provides staff's initial proposals
- Informed by public outreach to date
- Provides mechanism to seek advice and feedback to guide efforts going forward

# Draft Concept Paper Elements

- Identification and Selection of Communities
- Strategies for Reducing Emissions and Exposure
- Criteria for Community Action Plans
- Criteria for Community Air Monitoring
- Additional Implementation Elements

# Guiding Principles for Program Development

- ① Implement actions to improve public health in disadvantaged communities
- ② Develop a strong collaborative relationship amongst stakeholders
- ③ Ensure community members are partners in all aspects of the program
- ④ Ensure a robust and transparent public process
- ⑤ Provide a strong science-based foundation
- ⑥ Enhance the accessibility and usability of data
- ⑦ Accelerate the development of advanced air monitoring methods
- ⑧ Support investments in cleanest mobile and stationary source technologies
- ⑨ Integrate AB 617 with other clean air and climate programs

# Identification and Selection of Communities

# Community Assessment and Identification Process

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

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Air district recommendations

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Community recommendations

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CARB criteria and assessment to ensure systematic  
statewide process

# Factors Characterizing Cumulative Exposure

Proposing weight of evidence approach using compilation of data sources and factors:

- Measured/modeled concentrations of criteria pollutants and toxic air contaminants
- Sensitive receptors, exposed population, and proximity to emission sources
- Density of emission sources and magnitude of emissions
- Public health indicators, such as asthma rates
- Socio-economic factors, such as poverty, unemployment rates

# Tools and Data Sources

- CalEnviroScreen is an important screening tool
- Additional data sources and local knowledge may include:

- CARB Pollution Mapping Tool

- Community Monitoring Data

- Special Studies (for example MATES, CARE, IVAN)

- Health Risk Assessments

- Air Quality Complaints

- Notices of Violation and Enforcement Actions



# 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

# Key Questions

- Are there additional factors and data sources that should be considered in identifying priority communities?
- How should we define the geographic boundary of a community?

# Strategies for Reducing Emissions and Exposure

# Strategies for Reducing Exposure and Emissions

- Develop list of existing and available measures to reduce emissions from mobile and stationary source for Action Plans to draw on
- Existing CARB and air district planning efforts will provide foundational reductions
- Action Plans will identify additional community-specific reduction strategies
- Comprehensive approach to leverage existing authorities along with innovative new strategies

# Multi-Faceted Suite of Strategies

- Minimum starting point for assessment of appropriate actions
  - Regulatory actions coupled with targeted enforcement activities
  - Incentive funding to accelerate deployment of cleaner technologies
  - Approaches to alter or mitigate impacts such as alternate truck routes
  - Resources to support community education and advocacy with local government
  - Mitigation strategies such as air filtration and buffers
- Accelerated implementation of BARCT on industrial sources subject to C&T
- Identification of new statewide measures

# Resources for Outreach, Land Use, and Transportation Strategies

Provide tools and resources on best practices to support communities and air districts

## By October 2018

- Compile existing resources
- List of best practices and strategies not included in existing resources

## After October 2018

- Update existing resources
- Develop new best practices documents and model ordinances
- Tool development
- Incorporation into Technology Clearinghouse

# Key Questions

- Are there additional emission reduction and exposure/mitigation strategies we should be including?
- What are the most effective ways to address land use planning and decision-making?

# Criteria for Community Action Plans



# Proposed Action Plan 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 on Action Plans as applicable

# Proposed Air Quality Goals

- Health impacts driven by multiple pollutants in most communities
- Our understanding of cumulative health impacts is still an emerging field of research
- Considering suite of individual air quality goals:
  - Air quality standards
  - Toxics risk reduction

# Proposed Metrics to Track Progress

## Annual metrics on Action Plan elements:

- Emissions of applicable criteria pollutants and toxic air contaminants
- Rules, regulations, and strategies implemented
- Dollars invested and projects implemented
- Number of public meetings and attendance
- Number of inspections and enforcement actions taken

# Proposed Metrics to Track Progress

Multi-year metrics on exposure and co-benefits:

- Measured concentrations of applicable criteria pollutants and toxic air contaminants
- Modeled cancer and non-cancer health risk
- Local economic impacts
- Deployment of zero emission technology
- Other community benefits (education, training etc...)

# Action Plan Community Engagement

## Community partnerships

- Form a community steering committee

## Robust public process

- Regional workshops
- Community-level informational meetings
- Translated materials and interpretation services
- A designated contact person
- A dedicated website for each Action Plan
- Air district board hearings



# Key Questions

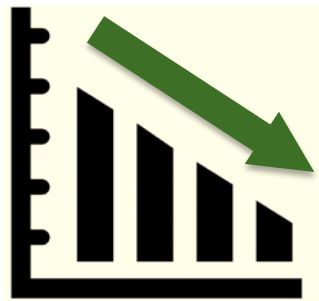
- What are the most appropriate air quality goals to address disproportionate burdens?
- What types of metrics should be included?
- What are your recommendations on the structure, makeup, and roles and responsibilities for the community steering committee?

# Criteria for Community Air Monitoring

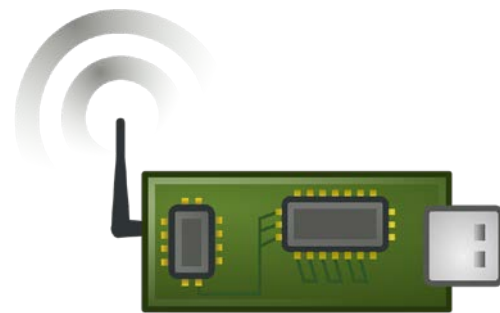
# Objectives for Community Air Monitoring



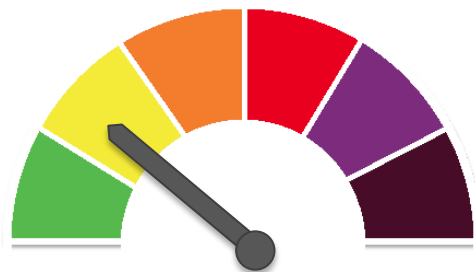
**IDENTIFY EMISSIONS  
SOURCES**



**TRACK PROGRESS**



**SCREEN FOR  
PROBLEMS**



**INFORM THE PUBLIC**



# Air Monitoring Methods



**Traditional  
Methods**



**Air  
Sensors**



**Mobile**

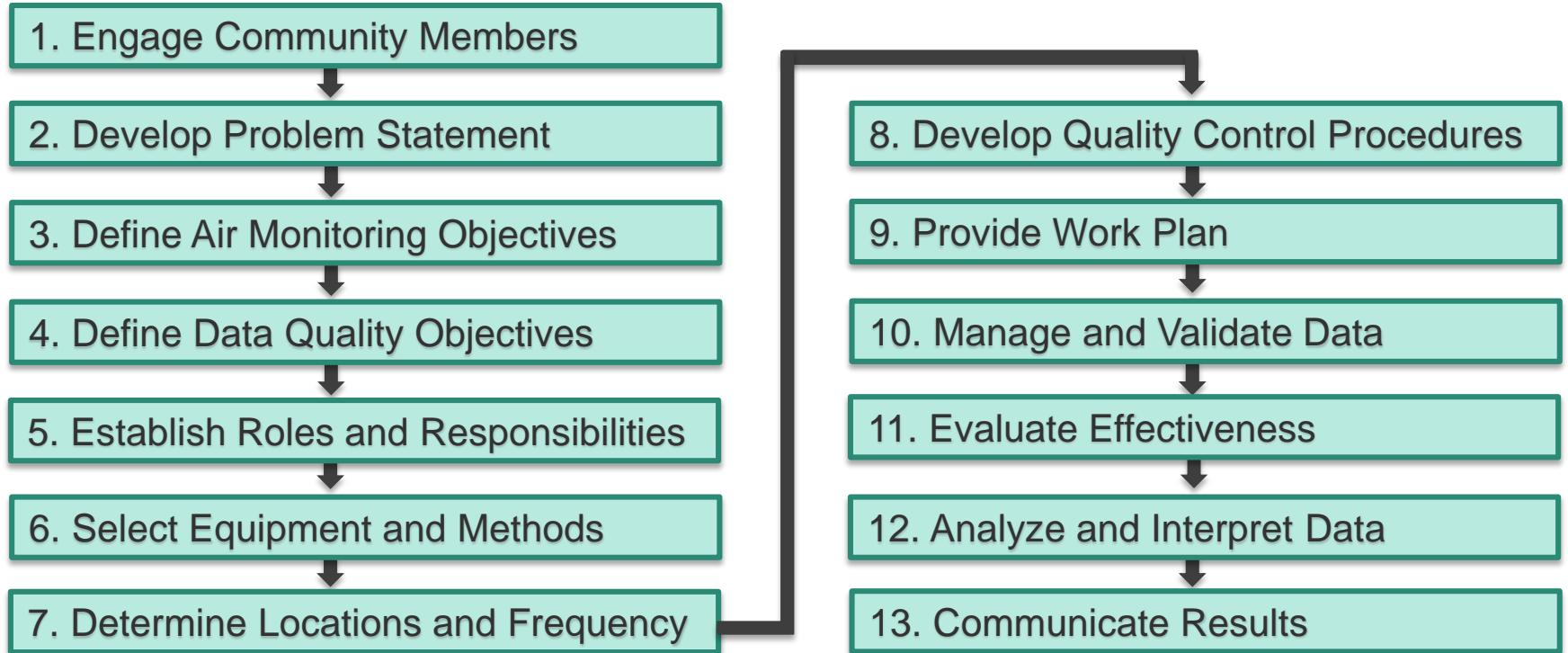


**Fence-line**



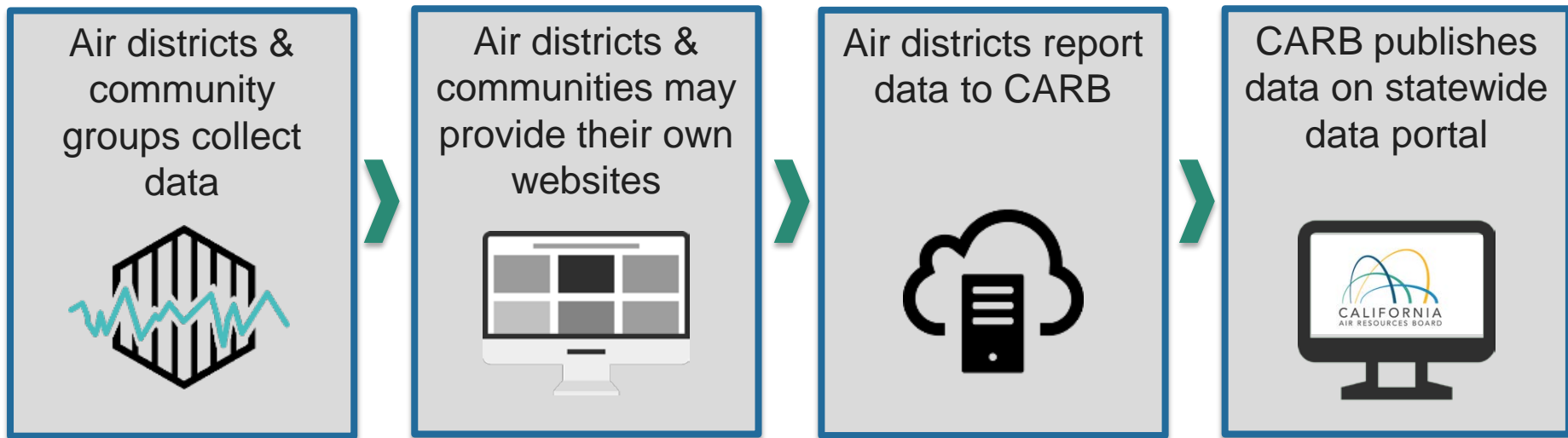
**Remote  
Sensing**

# Proposed Community Air Monitoring Plan Elements



# Data Display and Communication

- Data collected by community air monitoring campaigns must be publicly stored and accessible



# Resources for Community Air Monitoring

- Review monitoring technologies and build from success of existing community monitoring networks
- Leverage advanced air monitoring technology
- Improve existing technologies and help bring new technologies to market
- Support community science
- Provide air sensors to air districts



# Monitoring Plan Community Engagement



## Community partnerships

- Form a community steering committee

## Focus of steering committee

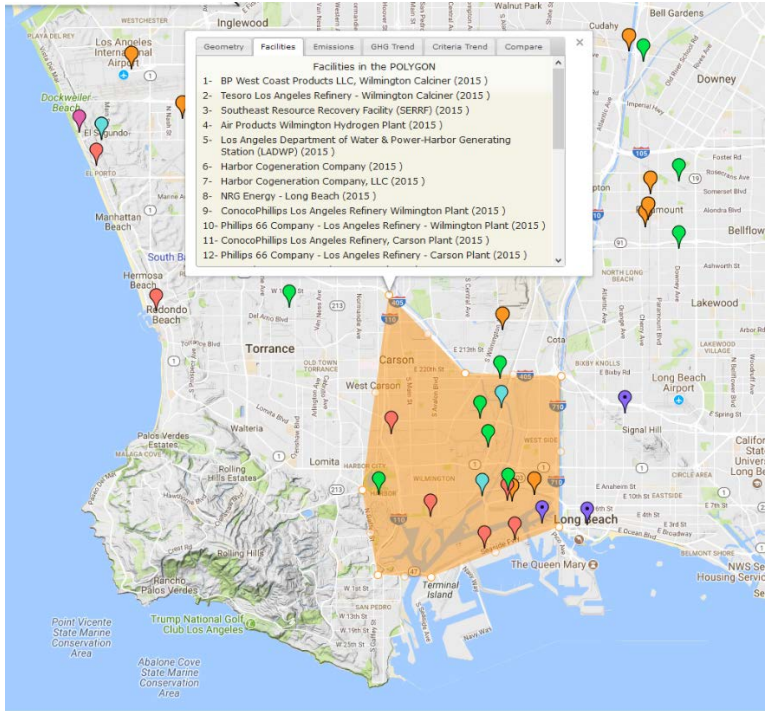
- Understand community issues
- Develop community air monitoring plans
- Determine data display and interpretation needs

# Key Questions

- What types of information and resources are needed to support community science?
- How can we most effectively support and display community monitoring data on the statewide data portal?
- What are your recommendations on the structure, makeup, and roles and responsibilities for the community steering committee?

# Additional Implementation Elements

# Enhanced Emission Reporting



- Annual reporting of emissions for larger stationary sources
- Reporting of other relevant facility-level emissions data
- Uniform, statewide reporting methodologies
- Allows for certification or verification of annual emissions
- Proposing phased reporting regulation



# Technology Clearinghouse

- Resource to help identify most stringent controls available for Action Plans as well as support technology advancement
- Proposed clearinghouse will contain:
  - Control technology determinations (BACT and T-BACT)
  - Rules and measures (stationary, mobile, and area-wide)
  - Emerging zero and near-zero control technologies
- Users will have ability to visualize data and compare controls statewide