

BAY AREA AIR QUALITY MANAGEMENT DISTRICT



Public Workshop

January 28, 2009



# Workshop Overview

- Purpose & Scope of Plan
- Progress to date
- Schedule & Milestones
- Performance Objectives
- Q & A
- Development of control strategy
- Control measure review
- Ideas for control measures?
- Q & A





## Purpose of 2009 Clean Air Plan

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- **Improve air quality**
- **Protect public health:** Regional plan, but will improve air quality in impacted communities
- **Protect our climate**
- Update 2005 Ozone Strategy
- Continue progress toward attaining standards
- Address multiple pollutants in one plan
- Coordinate with transportation & land use plans



# 2009 Clean Air Plan

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## **California Clean Air Act key requirements:**

- Report on progress, update baseline & trends
- Achieve state standards by earliest practicable date
- Reduce transport to neighboring air basins
- Develop control strategy, including “all feasible control measures”



## Broader Scope for 2009 CAP

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- Existing approach for air quality planning
  - single pollutant, address each pollutant separately
- Address multiple pollutants in one integrated plan
  - **Ozone precursors**
  - **Particulate Matter (PM)**
  - **Air Toxics**
  - **Greenhouse gases: CO<sub>2</sub>, methane, etc.**
- Many measures reduce multiple pollutants
  - maximize co-benefits
  - identify and minimize trade-offs
- Design control strategy to reduce health impacts



# Challenges

There are significant advantages, but...

- Multi-pollutant (MP) planning is more complex
- Lack of guidelines or models
- Pollutants differ in important ways:
  - sources, precursors, formation
  - range & severity of health effects
  - scale: local / regional / global
  - seasonal peaks: winter (PM) / summer (O<sub>3</sub>)
  - timeframe: short-term v. long-term
- How to evaluate control measures on MP basis?



# Progress to Date

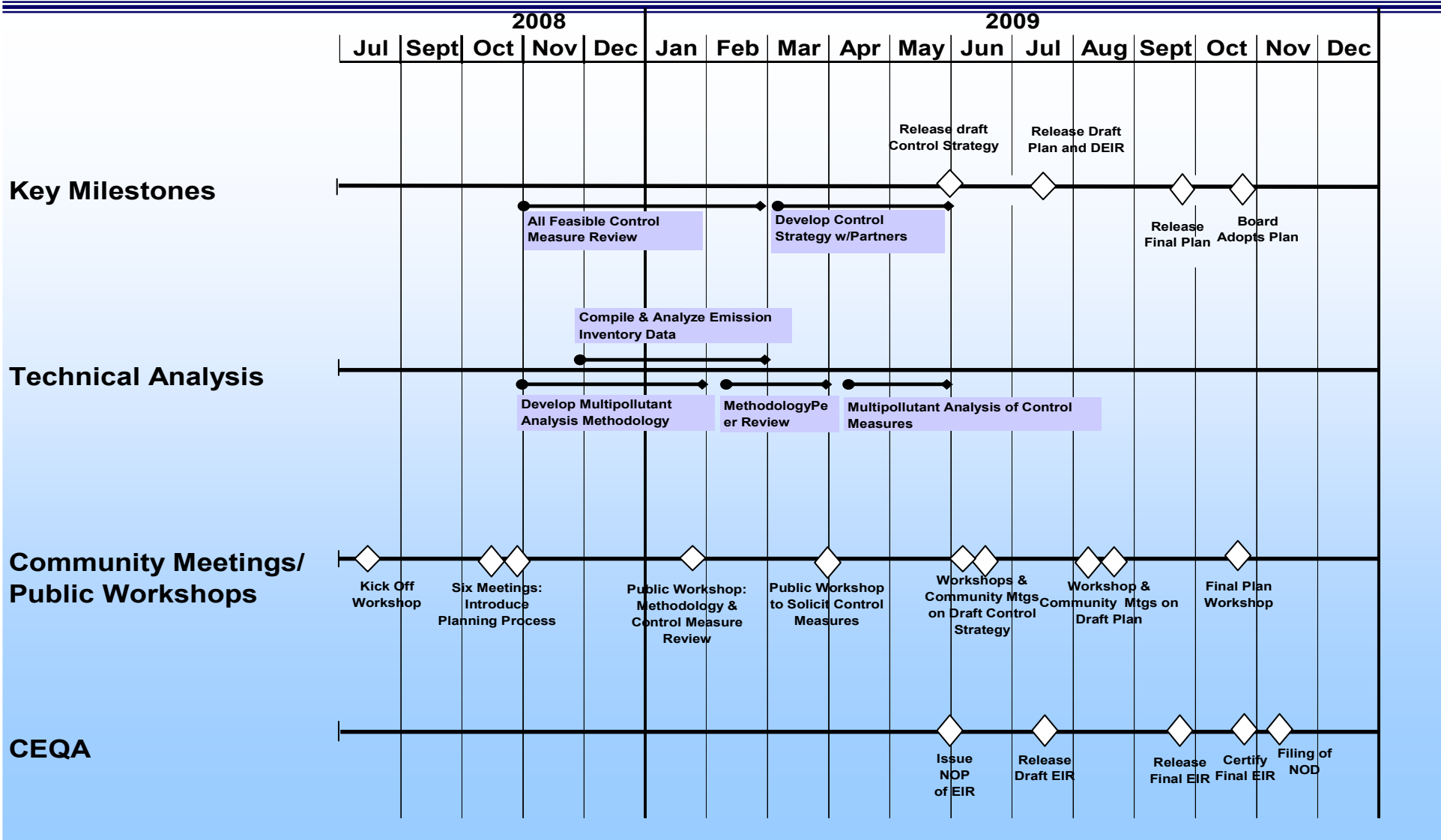
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- Kick-off workshop in July 2008
- 6 community meetings in Fall 2008
- Laying the groundwork:
  - Developed outreach plan & materials
  - Defining scope of Plan
  - Developing multi-pollutant evaluation method
  - Compiling potential control measures



# Proposed Schedule







## Proposed Future Milestones

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- Workshops to get additional input on potential control measures in March/April
- Issue preliminary control strategy in late May
- Workshops on preliminary control strategy in June
- Issue draft Plan and draft CEQA document in July/August
- Workshops on draft Plan in August/Sept
- Issue final Plan & final CEQA document in Sept/October
- Action by BAAQMD Board in Oct/Nov



# Performance Objectives

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- District is considering including performance objectives in 2009 CAP
- For ozone and PM, state & federal standards (ambient concentration) are the ultimate goals
- Other ways to track progress?
- There are no ambient concentration standards for air toxics or greenhouse gases
- How to track progress for toxics & GHGs?



# Potential Performance Objectives

- For Transportation 2035 & Projections 2009, MTC & ABAG have included the following environmental objectives:
  - Reduce GHG emissions 40% below 1990 levels by 2035
  - Reduce PM<sub>2.5</sub> by 10% below 2006 baseline
  - Reduce PM<sub>10</sub> by 45% below 2006 baseline
  - Reduce per capita VMT by 10% below 2006 baseline
- Should we include POs in 2009 CAP?
- Should objectives be expressed in terms of emission reductions, concentrations, or population exposure?



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## ***Questions / Suggestions***



# Elements of Control Strategy

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**Control Strategy:** overall plan for District actions for the 2010-2012 timeframe & beyond

- **Stationary Source Control Measures** (factories, refineries, dry cleaners, etc.) via rules & regulations
- **Transportation Control Measures (TCMs)** - reduce vehicle travel & emissions – with partner agencies
- **Mobile Source Measures** - promote use of cleaner vehicles & fuels: through incentives, grants, etc.
- May include new measures or approaches



# Scope of Control Strategy

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To complement control measures, CAP may include additional measures such as:

- Targeted enforcement of ARB regulations
- Advocacy platform
- Grants and incentives
- Enhancements to existing programs
- Public education
- Expanded partnerships



# Feasible Control Measure Criteria

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## CA Health & Safety Code Sec. 40922

- Cost-effectiveness
- Technological feasibility
- Total emission reduction potential
- Rate of reduction
- Public acceptability
- Enforceability



## Measures in 2005 Ozone Plan

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As shown on handout:

- 15 stationary source measures
- 4 mobile source measures
- 20 transportation control measures
- 20 further study measures





# The Search for Control Measures

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## California Ozone (& PM) Plans

- South Coast Air Quality Management District
- Sacramento Metropolitan Air Quality Management
- San Joaquin Valley Unified Air Pollution Control District
- Monterey Bay Unified Air Pollution Control District
- Santa Barbara County Air Pollution Control District
- San Diego County Air Pollution Control District
- Ventura County Air Pollution Control District

## Other Metro Areas

- New York City
- Houston
- Detroit
- Chicago



# Control Measure Review

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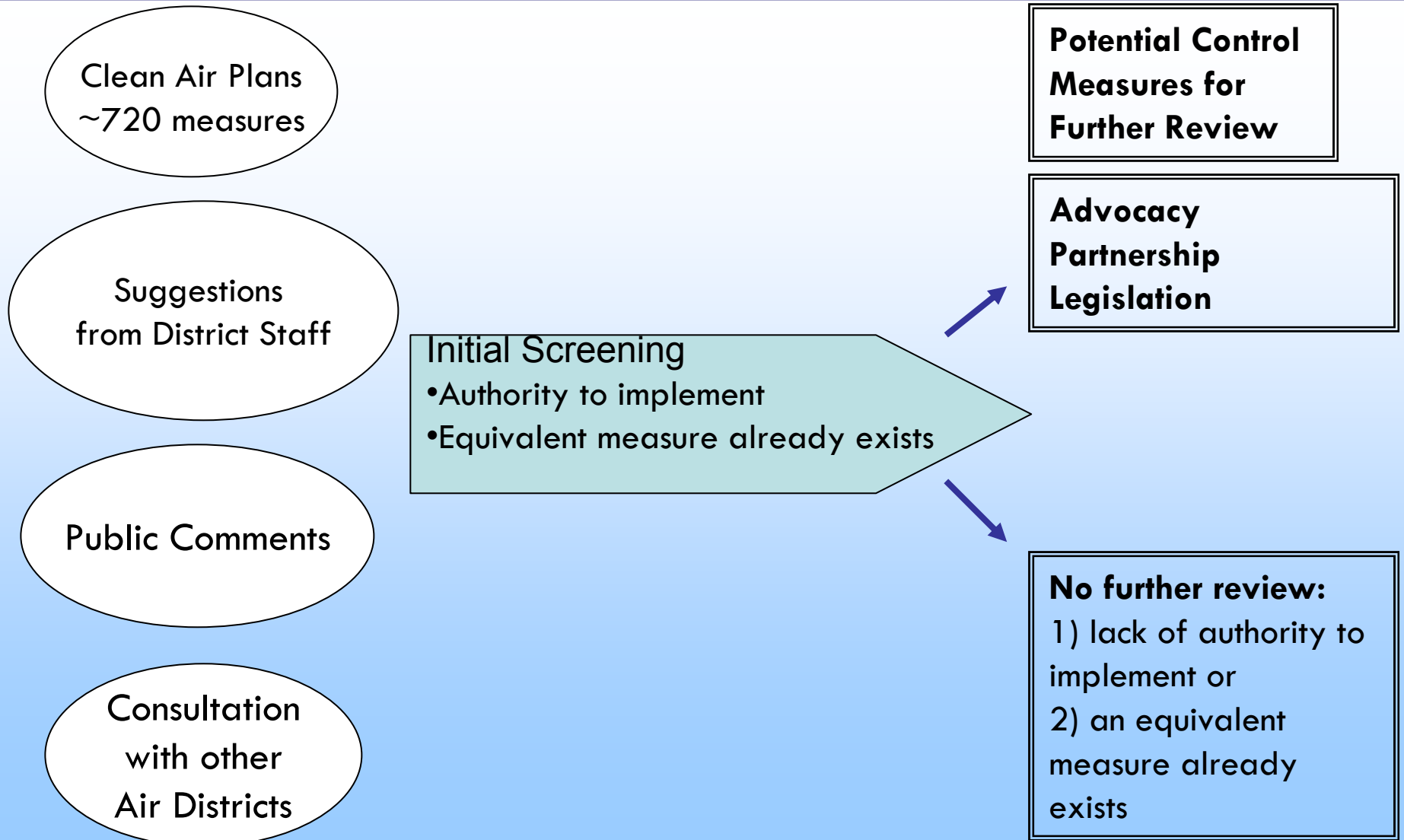
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## Steps to date:

- Added new measures to control measure database developed for 2005 plan
- Screened measures to determine authority and if we already have an equivalent measure
- Reviewed previous analysis if measure was already evaluated for 2005 Ozone Strategy
- Organizing potential measures for additional review



# Preliminary Review of Control Measures





# Control Measure Review

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## Next steps:

- Perform additional analysis in Feb – May period
- Coordinate with MTC, ABAG & JPC around TCMs, including land use, pricing, etc.
- Consult with stakeholders: communities, business, CMA's, transit agencies, non-profits, etc.
- Additional workshop(s) in March/April
- Issue Draft Control Strategy by late May/June



# How You Can Help

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We seek input re:

- Suggestions for potential control measures
- What should a control strategy to reduce multiple pollutants look like?
- Other ideas & suggestions



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## **Questions / Comments?**

**Bay Area 2009 Clean Air Plan website:**

**[http://www.baaqmd.gov/pln/plans/ozone/2009\\_strategy/index.htm](http://www.baaqmd.gov/pln/plans/ozone/2009_strategy/index.htm)**

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