Planning Healthy Places

Public Workshop / Webcast
March 17, 2016

Webcast Participants

- Please <u>check-in</u>: http://goo.gl/forms/eqT9JNCx0o

- <u>Email</u>: *PlanningHealthyPlaces @baaqmd.gov* with comments and questions

- Input from participants via webcast will be addressed at the end of the presentation

Summary

- Guidance to provide policies and tools to inform local plans

- Support regional, local efforts to promote efficient land use planning

- Support State initiatives
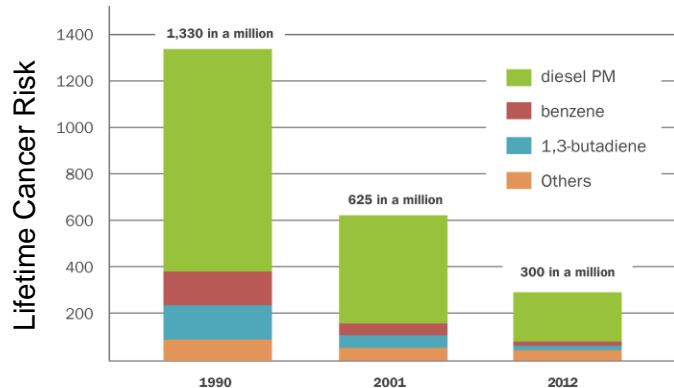
- Collaborative process

Background

Bay Area air pollution continues to decrease:

- Cancer risks from TAC's dropped by 78% between 1990 and 2012
- PM2.5 concentrations have been significantly reduced

Estimated Bay Area lifetime cancer risk from toxic air contaminants, based on air pollution measurements ⭐

- diesel PM
- benzene
- 1,3-butadiene
- Others

1,330 in a million — 1990
625 in a million — 2001
300 in a million — 2012

Lifetime Cancer Risk

Number of winter days over the current national 24-hour PM$_{2.5}$ standard (35 µg/m³), November 15–February 15 ⭐

Number of Days

'99-'00, '00-'01, '01-'02, '02-'03, '03-'04, '04-'05, '05-'06, '06-'07, '07-'08, '08-'09, '09-'10, '10-'11, '11-'12

⭐ Improving Air Quality and Health in Bay Area Communities, BAAQMD, April 2014
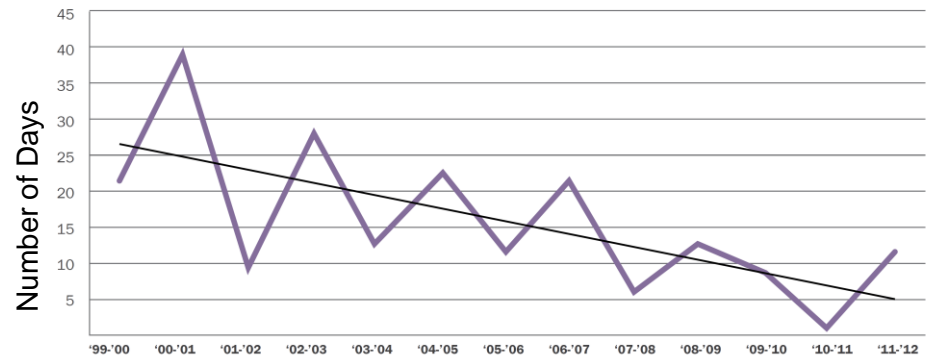
Health Impacts

Disproportionately impacted areas persist, higher levels of fine particulate matter (PM) & toxic air contaminants (TACs) near freeways and other sources

Health Impacts:
- Increased premature death
- Asthma development in children
- Increased non-asthma respiratory symptoms
- Decreased birth weight

"The takeaway is that we need to begin to develop policies that protect people from these exposures, through improved air filtration, improved community design…and not putting children's playgrounds and bike paths near highways." –Doug Brugge, Professor of Public Health, Tufts University School of Medicine
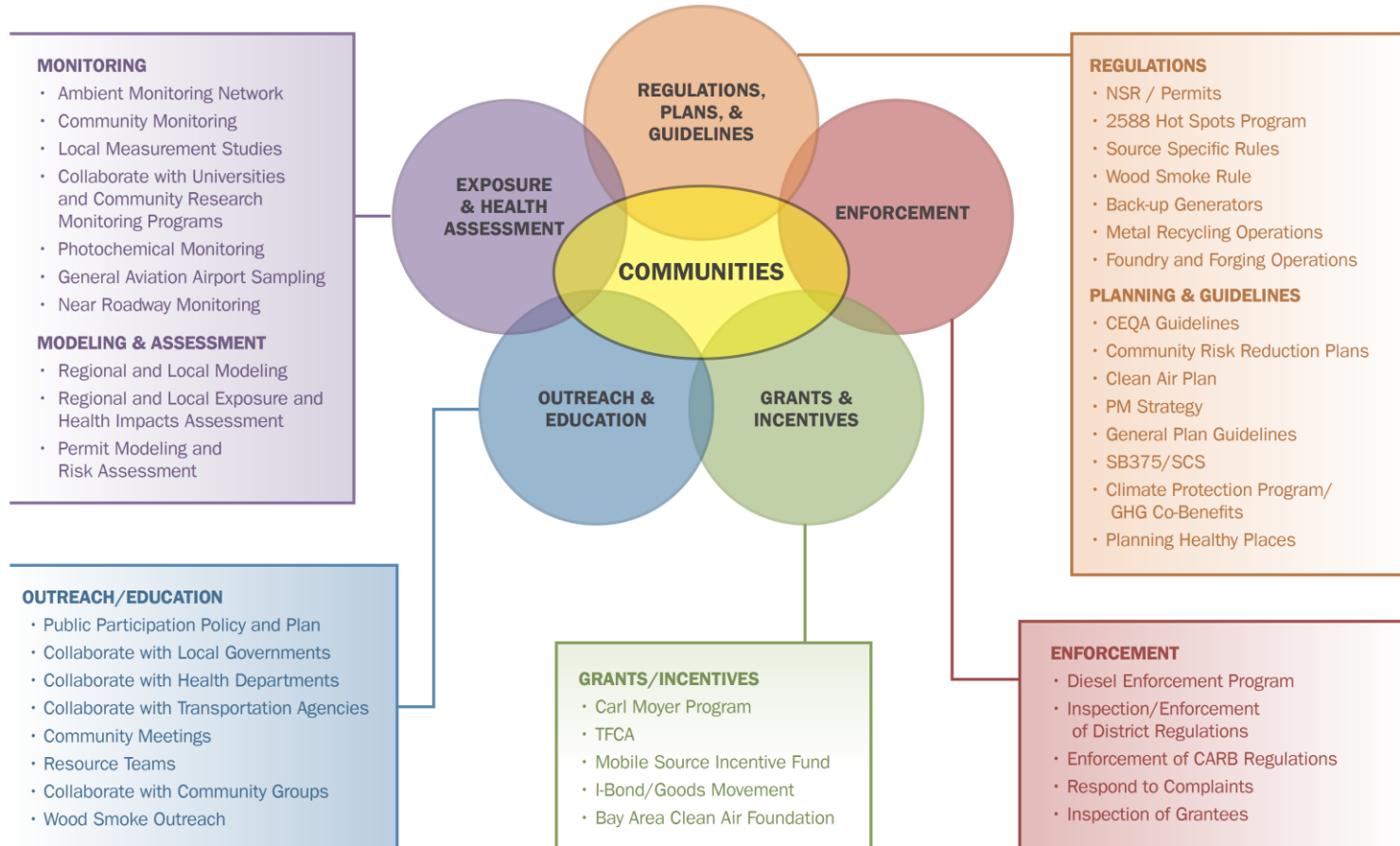
Healthy Infill

- Infill, TOD is vital to reduce vehicle use, and air pollution and GHGs

- Air District seeks to support infill development and reduce transportation emissions, while reducing local exposure to air pollution and protecting sensitive populations from potential health risks

- Seek to encourage that "healthy infill" is addressed early in planning process, in local plans

Air District Efforts to Reduce Air Pollution

The Clean Air Communities Initiative integrates consideration of impacted communities into many Air District programs

MONITORING
- Ambient Monitoring Network
- Community Monitoring
- Local Measurement Studies
- Collaborate with Universities and Community Research Monitoring Programs
- Photochemical Monitoring
- General Aviation Airport Sampling
- Near Roadway Monitoring

MODELING & ASSESSMENT
- Regional and Local Modeling
- Regional and Local Exposure and Health Impacts Assessment
- Permit Modeling and Risk Assessment

OUTREACH/EDUCATION
- Public Participation Policy and Plan
- Collaborate with Local Governments
- Collaborate with Health Departments
- Collaborate with Transportation Agencies
- Community Meetings
- Resource Teams
- Collaborate with Community Groups
- Wood Smoke Outreach

GRANTS/INCENTIVES
- Carl Moyer Program
- TFCA
- Mobile Source Incentive Fund
- I-Bond/Goods Movement
- Bay Area Clean Air Foundation

REGULATIONS
- NSR / Permits
- 2588 Hot Spots Program
- Source Specific Rules
- Wood Smoke Rule
- Back-up Generators
- Metal Recycling Operations
- Foundry and Forging Operations

PLANNING & GUIDELINES
- CEQA Guidelines
- Community Risk Reduction Plans
- Clean Air Plan
- PM Strategy
- General Plan Guidelines
- SB375/SCS
- Climate Protection Program/ GHG Co-Benefits
- Planning Healthy Places

ENFORCEMENT
- Diesel Enforcement Program
- Inspection/Enforcement of District Regulations
- Enforcement of CARB Regulations
- Respond to Complaints
- Inspection of Grantees

Bay Area Air Quality Management District
*Public Workshop / Webcast – March 17, 2016*

Planning Healthy Places

- Guidance document for local governments

- Encourage local governments to address and minimize potential local air pollution early in the planning process

- Provide tools and information, including:

  – Detailed maps of local sources of air pollution

  – "Best practices" to minimize exposure

  – Strategies to reduce emissions

  – Examples of local governments addressing local air quality

- Incorporate in local plans and ordinances

- Promote infill development while protecting public health

Maps

- Cumulative analysis of all sources of mobile + stationary air pollution

- Show areas with elevated levels of TACs, fine PM

- Interactive, web-based

- Incorporates San Francisco Article 38 maps
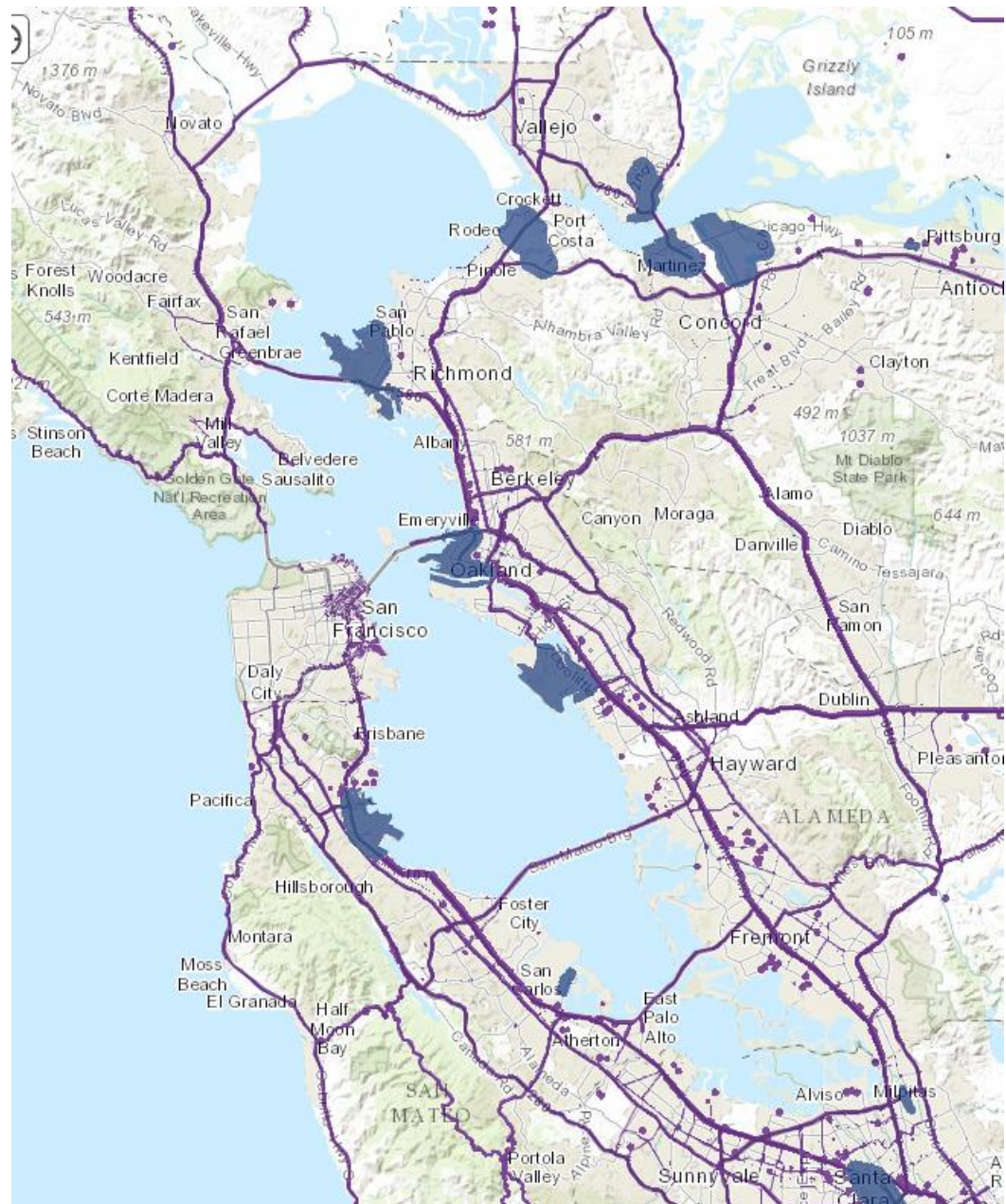
Maps

- <u>Purple areas</u>: Implement best practices to reduce exposure and emissions

- <u>Blue areas</u>: Conduct air quality analysis to assess air pollutant levels and extent to which measures can reduce potential health risks
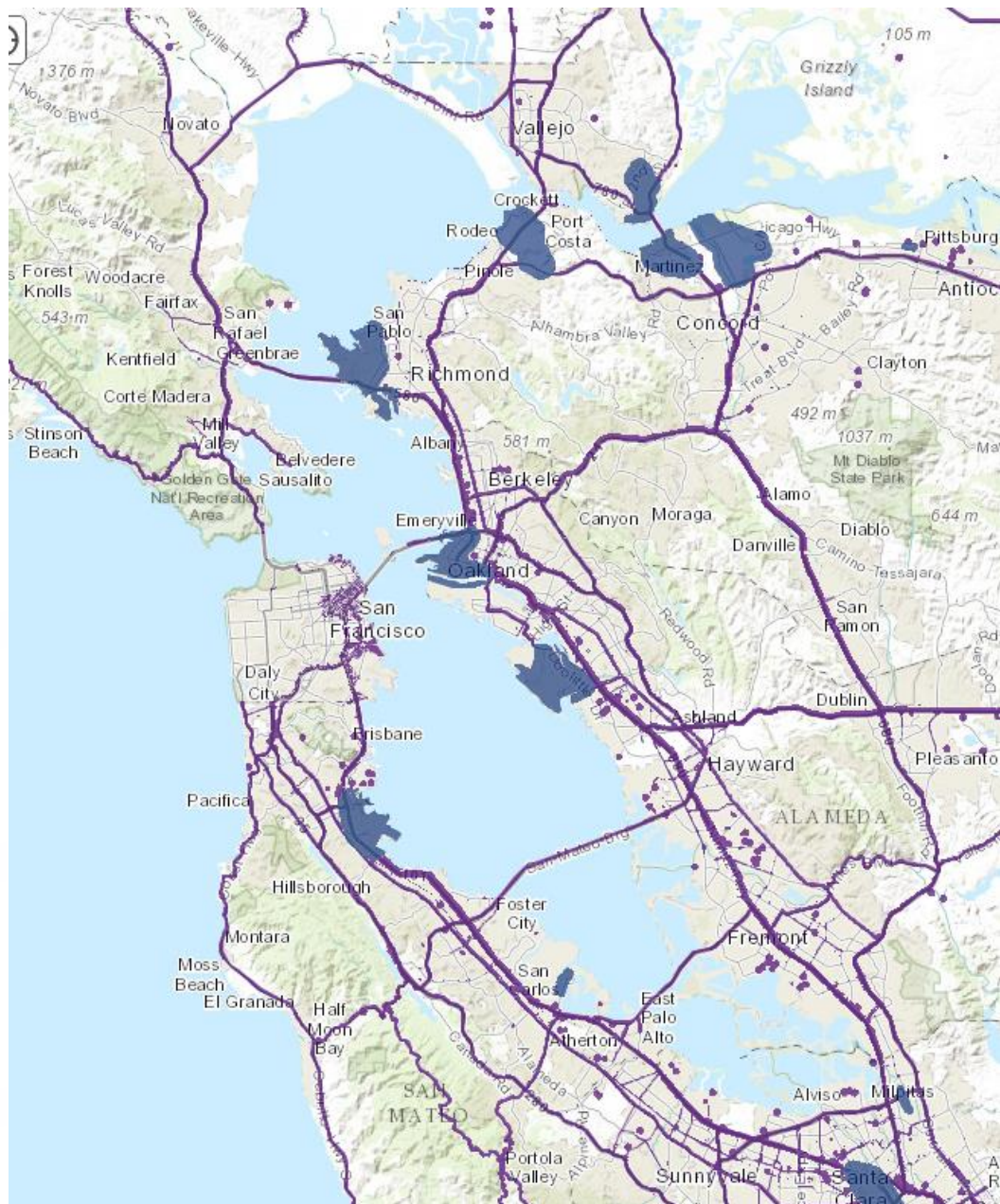
Best Practices to Reduce Exposure

- Feasible, relatively low cost, and effective at reducing exposure to air pollution, thereby minimizing potential adverse health effects

- Best Practices:

  - Air filtration
  - Dense tree plantings
  - Alternative truck routes

  - Building & site design
  - Project phasing
  - Health protective distances, as feasible

Filter air pollutants
Shade to reduce energy use
Reduce air temperature

Air quality buffer
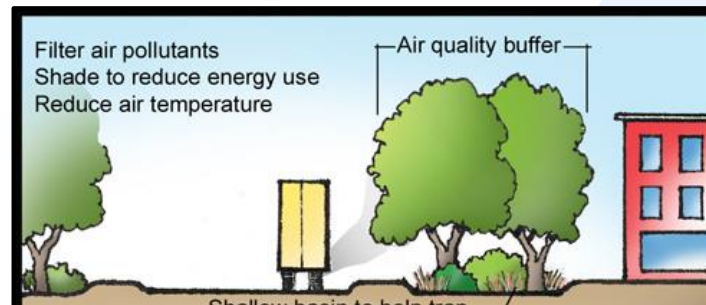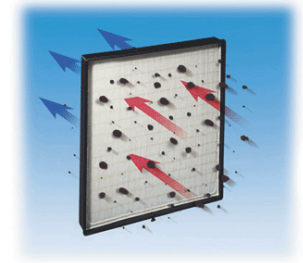
Best Practices to Reduce Emissions

- Local actions can complement regional and State programs to reduce air pollution

- Best Practices:

  - Retrofit generators
  - Electrify loading docks
  - Transportation demand management strategies

  - Promote EV plug-in stations
  - Limit idling times

Case Studies

- City of San Francisco

  – *Article 38 Ordinance (requires air filtration)*

  – *Clean Construction Ordinance*

  – *Community Risk Reduction Plan*

- City of Oakland

  – *Standard Conditions of Approval*

- Cities of San Jose, Richmond, Hayward and Santa Clara

  – *General Plan policies related to air quality*

  – *Examples: promote replacement of non-EPA certified fireplaces & woodstoves; promote measures such as air filtration, proper siting criteria, and more stringent building performance standards to protect residents*

Links to Regional and State Initiatives

- Support Plan Bay Area
  - Inform policy narrative
  - Inform funding programs, other regional PBA implementation mechanisms
  - Aid community outreach on PBA
  - Support city, county plans to implement PBA

- Support State initiatives
  - SB 375, Sustainable Communities Strategy
  - Air Resources Board *Air Quality and Land Use Handbook*
  - Air Resources Board *Near-Roadway Mitigation Technical Advisory*
  - Office of Planning & Research *General Plan Guidelines*

Outreach Process

- Conducted targeted stakeholder meetings

  - ➢ *Planning directors, state agencies, (non-profit & for-profit) developers, community and environmental advocates*

- Concept reflects feedback from multiple stakeholder groups

  - ➢ *Simple & predictable*

  - ➢ *"Best Practices" approach*

  - ➢ *Regionally consistent*

Feedback

We would like your feedback:

- ➢ Does this approach make sense?

- ➢ Any issues or concerns?

- ➢ Does this strike the right balance: being health protective, while promoting much needed infill development?

Webcast Participants

Email: PlanningHealthyPlaces@baaqmd.gov

Next Steps

- Incorporate comments and feedback

  ➢ Comment deadline: April 1, 2016

  ➢ Feedback: PlanningHealthyPlaces@baaqmd.gov or jwinkel@baaqmd.gov

- Post final version of Planning Healthy Places and maps on webpage

- Implementation

  ➢ Assistance to local governments, stakeholders

  ➢ On-going outreach

  ➢ Regular updates to maps

Thank you

Planning Healthy Places

www.baaqmd.gov/PlanningHealthyPlaces

PlanningHealthyPlaces@baaqmd.gov

Contact: Jackie Winkel jwinkel@baaqmd.gov