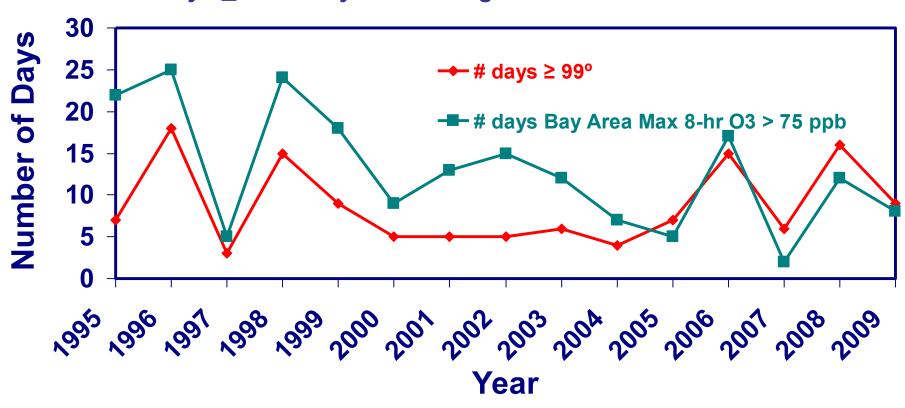


Bay Area Air Quality Management District



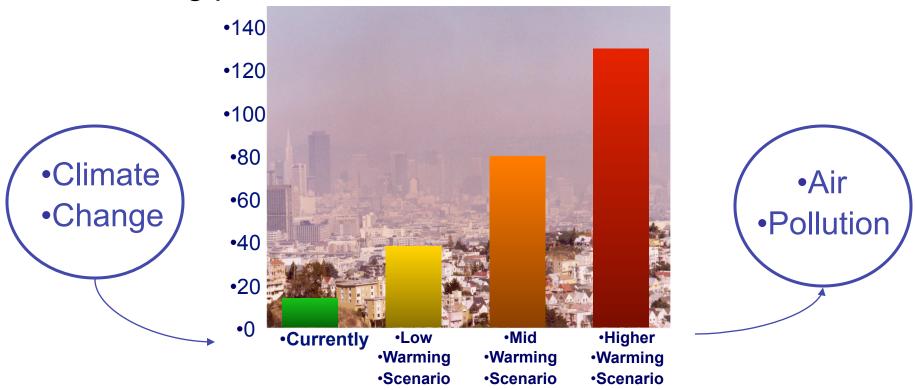
Ozone and Temperature Trends

Days ≥ 99° & Days Exceeding the National Ozone Standard



What If We Don't Act?

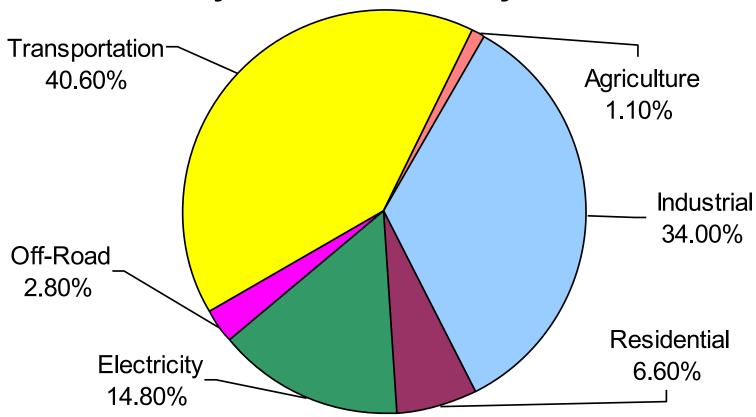
Higher temperatures will erode air quality improvements, harming public health.



[•]Graphic represents number of Extreme Heat Days in san Francisco resulting from three distinct global warming scenarios. Source: CEC 2006 Report "Our Changing Climate"

Sources of GHG Emissions

2007 Greenhouse Gas Emissions By Source for SF Bay Area



Air Pollution & Transportation

Mobile Sources
Are Largest
Contributor to
Air Pollution

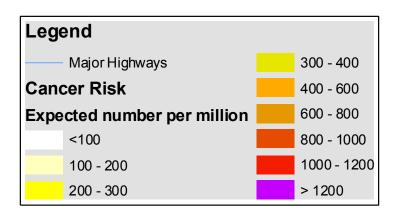


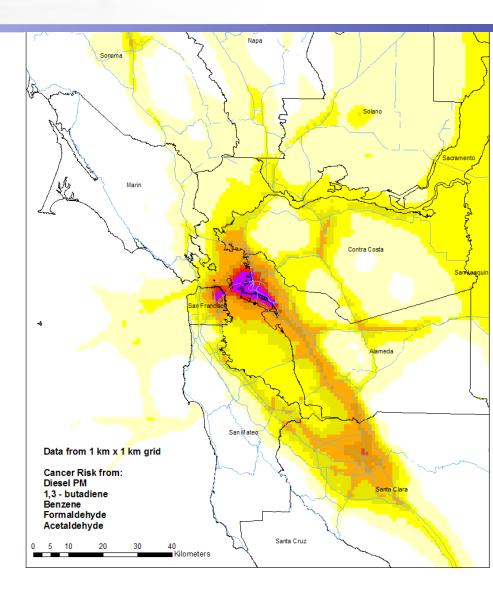
Pollutant	Emissions Inventory % from Transportation
NOx	87%
ROG	56%
TAC (86% DPM)	43%
PM _{2.5}	46%
GHG	41%

Modeling of Toxic Risk

High Risk Aligned with Roadways

- Expected cancer incidents per million people—70 year exposure
- Modeled concentrations weighted by health risk of each compound







Public Health Impacts of Vehicle Emissions

- Health studies have consistently shown that living near highways and busy roadways has serious health consequences
 - Children who live near a busy highway are more likely to develop asthma and wheezing.
 - Exposures to traffic-related pollution, especially fine PM, significantly increases the risk of heart attacks and premature death.
 - Pregnant women exposed to high levels of pollution from cars and trucks are more likely to experience problems with their baby's development, such as low birth weight.
 - Pre-term and early childhood exposures to carcinogens are ten times more important than previously estimated
 - Local land use decisions play an important role in determining exposure to air pollutants

Local Community Risks and Hazards

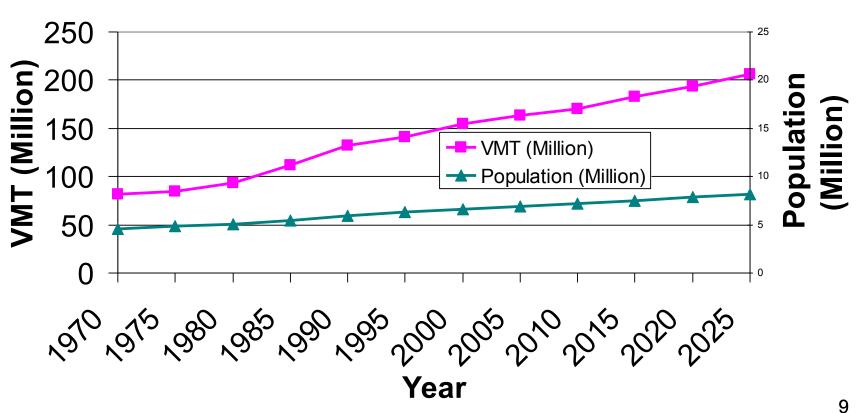
High emissions, concentrations of toxics, PM disproportionately impact vulnerable populations

The challenge:

- •Reduce impacts from land use, transportation decisions
- Promote infill, while protecting residents
- Address impacts of locating new "receptors" near existing sources (eg, freeways)
- •Think about:
 - -cancer risk
 - -fine particulate concentrations
 - -cumulative impacts

VMT Challenge

Bay Area VMT and Population Trend



The General Plan: An Opportunity for Change

- Address air quality throughout the Plan:
 - Housing Circulation Land Use
 - -Sustainability? Air Quality? Climate and Energy?
- Move toward mandatory measures
 - "Will adopt," "shall require" instead of "will encourage," "will continue to support," "may consider adopting"
- Emission reductions from new AND existing development

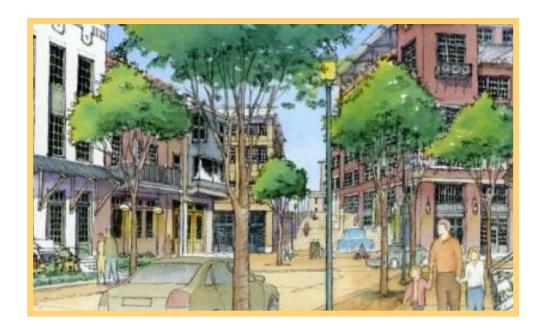




The General Plan: An Opportunity for Change

Link the General Plan to:

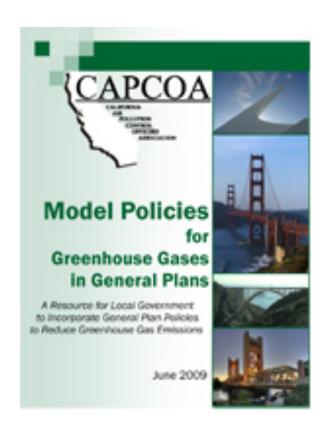
- Community Risk Reduction Plan
- Climate Action Plan



Resources for GHG Mitigation

California Air Districts Provide Resources

- CEQA & Climate Change
- Model Policies for GHGs in General Plans
- Quantifying GHG Mitigation Measures
 - 96 quantified measures
 - equations, assumptions, sources





Contact

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