ARB Policies and Actions for Environmental Justice

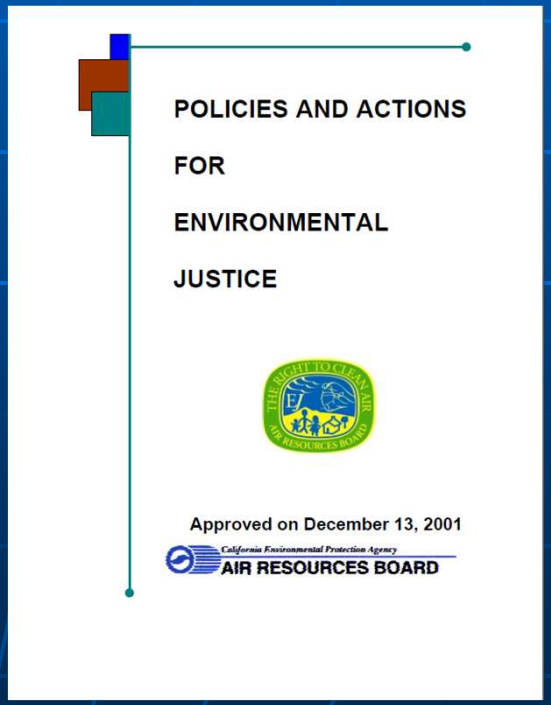
A Ten Year Retrospective

Board Presentation
November 17, 2011

California Environmental Protection Agency
Air Resources Board

Overview

- Board adopted Environmental Justice Policies and Actions in 2001
- Today's presentation highlights implementation



ARB Environmental Justice Policies

I. Incorporate environmental justice (EJ) into all ARB programs
II. Strengthen community outreach
III. Meet air quality standards and reduce toxic air pollutants
IV. Strengthen enforcement in communities
V. Assess and reduce cumulative emissions, exposure and risk
VI. Engage local planning agencies
VII. Conduct community research

EJ Incorporated into All ARB Programs

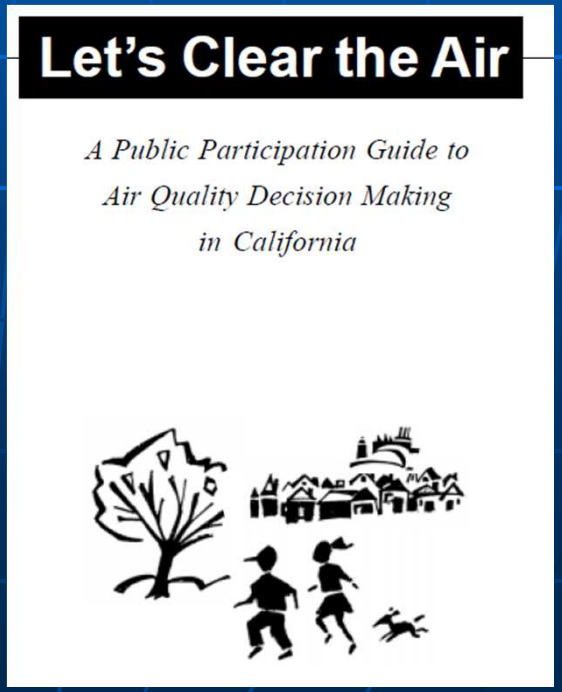
- Regulatory development
- Incentive programs and bond funding
- Enforcement
- Research

Community Outreach Strengthened

- Community workshops
- Expanded access for non-English speakers
- ARB/CAPCOA complaint resolution protocol
- Low income assistance for Smog Check

Public Participation Guide

- Provides information on how to be involved in decision-making
- Explains roles of state and local agencies
  - Regulations
  - Permitting
  - Enforcement
  - Resolving complaints



REPASO DE
La etiqueta necesario ilustra el impacto ambiental de nuevos vehículos
Todos los nuevos vehículos deben de mostrarla que ilustra la puntuación de polución y efecto invernadero
Elegir un carro más respetuoso al medio ambiente acaba de haserse más fácil. Una nueva regulación de California require que todos los nuevos vehículos exhibe una etiqueta que demuestre la potencial de smog y las emisiones de clima-cambiantes de los vehículos. La etiqueta clasificará las emisiones del vehículo contra los del resto de vehículos en el mismo año y modelo.
Cada etiqueta tendrá dos puntaciones usando una clasificación de 1-10. Se ilustrará las emisiones clima-cambiantes del vehículo, la otra sus contribuciones de smog. Por comparando estos números, ahora los consumidores pueden seleccionar con confianza carros que cubren sus necesidades de transporte mientras reducir las emisiones dañosas.
California Environmental Protection Agency
Air Resources Board
Home
Reducing Air Pollution
Air Quality
Business Assistance
Laws & Regulations
Health
Monday, October 10, 2011
UP LINKS
Reducing Air Pollution - ARB Programs
Research Activities
Health Effects of Air Pollution
PROGRAM LINKS
Ambient Air Quality Standards
Air Toxics Program
Asthma and Air Pollution
Background
Children's Health Research
Community Health
Environmental Justice
Fact Sheets
Health Outcome Data
Health Updates
Indoor Air Quality
Aire Limpio para las Comunidades de California
Noviembre 2000
California Environmental Protection Agency
Air Resources Board
fue llevado a cabo bajo la dirección de un equipo de científ
del Sur de California. Los científicos estudiaron a 5,500 niñ
en el Sur de California que viven en comunidades con distin
contaminación del aire. Los científicos siguieron a los niños
comunidades y después compararon su salud respiratoria c
de contaminación del aire en sus comunidades.
Vamos Aclarando El Ambiente
Un Manual de Participación Pública para Llevar a Cabo Decisiones sobre la Calidad del Aire Ambiental en California
California Environmental Protection Agency
Air Resources Board

EJ Policies in Action

- Diesel Program
- Neighborhood Air Toxics Reductions
- Climate Change Program

Diesel Program

Diesel Risk Reduction Plan

- Diesel Risk
  - One million diesel engines (typical day)
  - 70-80% of all air cancer risk
- Reduction Plan
  - Reduce diesel PM emissions, exposures and risk 85% by 2020
  - Reduce NO_X to meet SIP targets
  - Almost every type of diesel engine subject to controls

Emissions Reduction Plan for Ports and Goods Movement – 2005

Tools to Reduce Diesel Impacts in EJ Communities

Community outreach

Assessments and research

Regulations

Enforceable agreements

Port/industry initiatives

Targeted incentives

Enhanced enforcement

Prioritize Diesel Rules to Get Fastest Reductions in EJ Communities

- Port and railyard assessments
- Design actions to reduce local risk

Regulations and Agreements for Cleaner Freight Operations

- ✓Port and railyard trucks
- ✓Statewide trucks and buses
- ✓Truck/trailer efficiency
- ✓Truck idling and refrigeration units
- ✓Harbor craft
- ✓Cargo handling equipment
- ✓Locomotive/railyard agreements
- ✓Ship shore power
- ✓Low sulfur diesel fuel

Community Priority: Diesel Truck Emissions

- Truck traffic through neighborhood
- Idling at distribution centers, railyards and ports

Community Enforcement: EJ Strike Force

15,000 Trucks

2,700 Locomotives

300 Ships

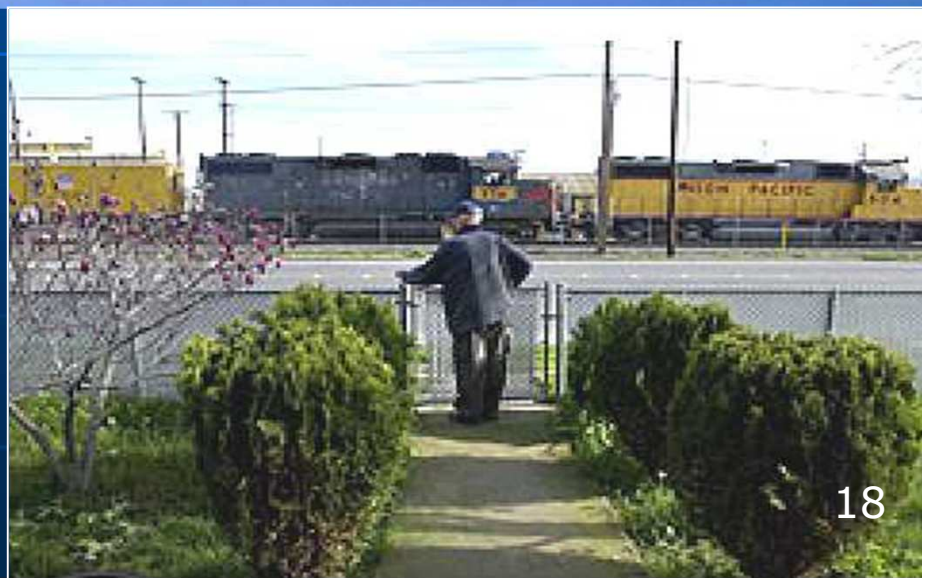
Incentives Speed Progress

- Prop 1B – $460,000,000 at ports, railyards, freeways, warehouses and border
- 50% of Carl Moyer funding dedicated to EJ communities

Goods Movement – Today

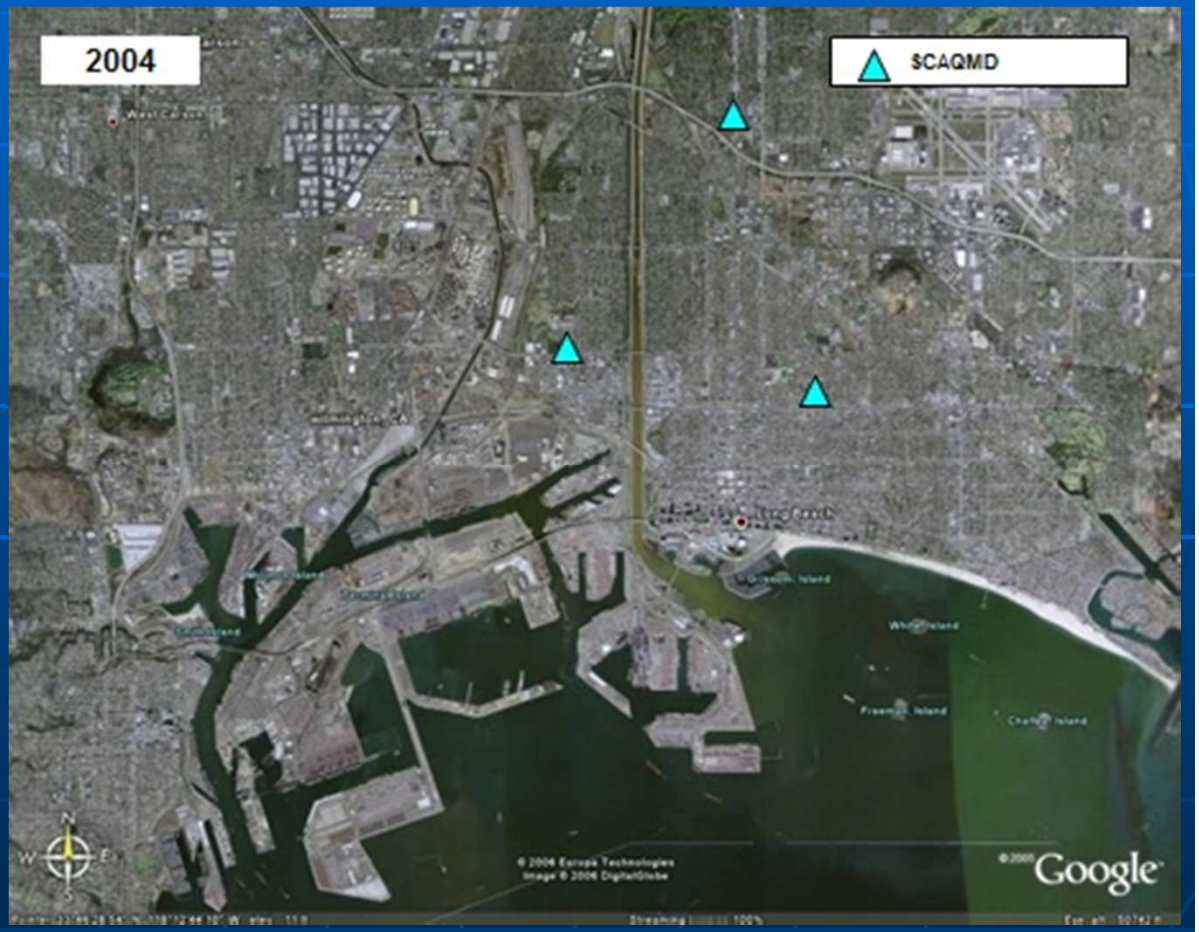
Since 2005:

50% reduction
in diesel soot and health risk
at the largest ports and railyards



Harbor Communities Monitoring Study

- Residents participated in study design
- Measured 50% improvement



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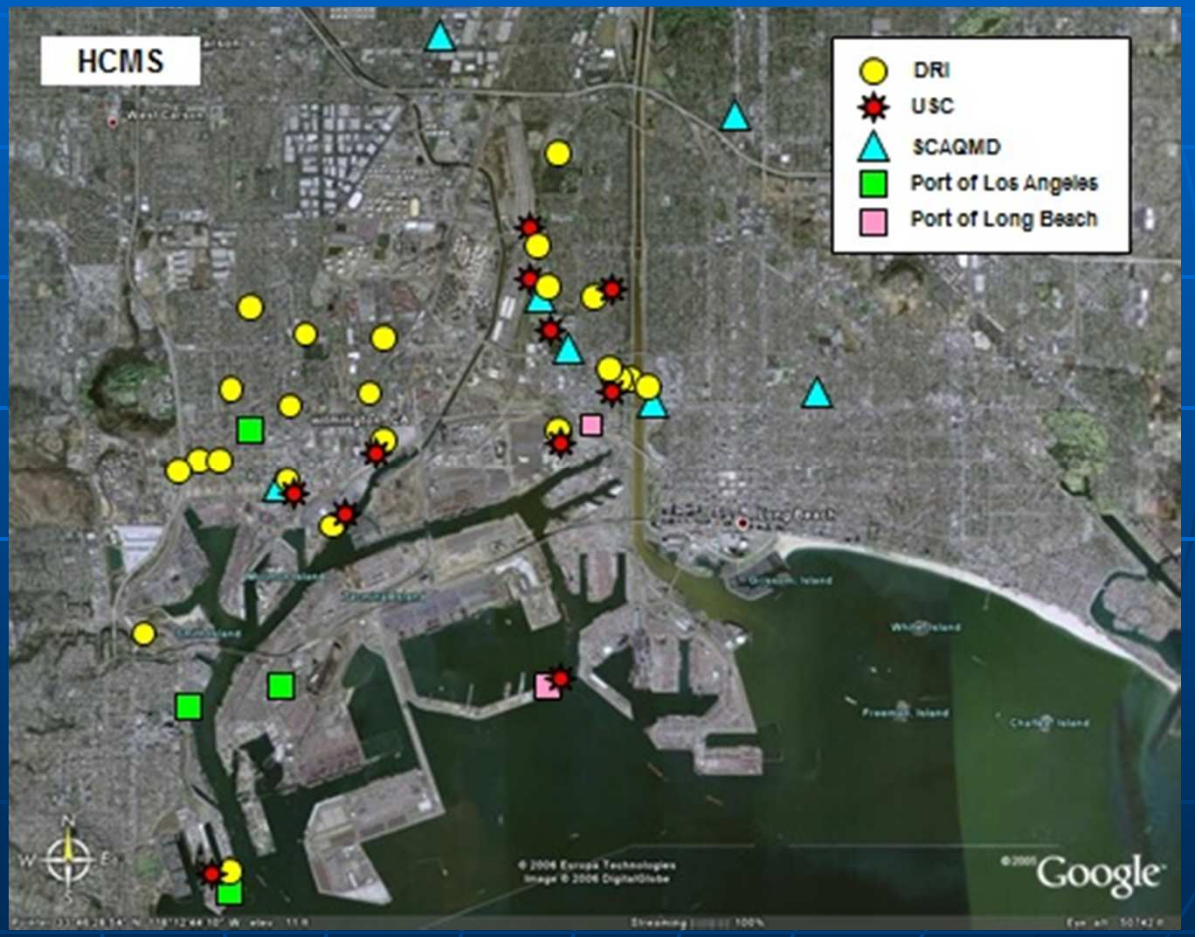


Goods Movement – New Reductions

- No "drayoffs" at ports (late 2011)
- Transition of port/rail truck fleets (2013)
- PM filters for other trucks (2012+)
- Wider clean fuel zone for ships (2012)
- Ships plug into electric grid (2012+)
- More clean yard and regional locomotives (2012+)

Reducing Diesel Pollution from Other Sources

- Cleaner School Buses
  - 8,473 buses retrofit
  - 955 buses replaced
  - Pre-1977 buses retired by Jan. 1, 2012

Neighborhood Air Toxics Reductions

Neighborhood Air Toxics

- Community Concerns
  - Cumulative impact of local pollution sources
  - Proximity to home and schools
- Risk Reduction
  - Community assessments
  - Enhanced regulations and enforcement
  - Land use guidance

Barrio Logan Assessment
Chrome Platers

- Residents concerned about multiple toxics
- Found high levels of chromium near source
  - At home next to facility, 200-fold higher
  - Across the street, up to 8-fold higher
- ARB strengthened chromium regulation
  - All communities benefit

Enhanced Enforcement

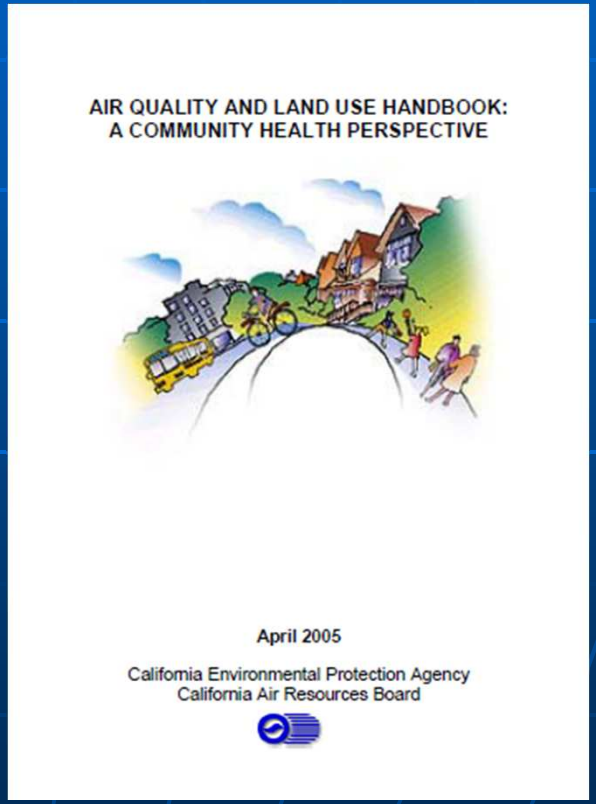
- Enforcement is key for maintaining health benefits to communities
- Large-scale effort: thousands of small facilities across California
- Districts are mainstay of enforcement

Boyle Heights Assessment
PM and Toxics near Roadways

- Community contains several busy freeways
- Found high levels of PM and toxics near roadways
  - UCLA/USC research project and others found similar results
  - Adverse health effects found near roadways
- Diesel regulations lowering near-source levels of toxics and PM2.5

Land Use Guidance to Reduce Near-source Impacts

- Provides recommendations on appropriate distance from pollution sources
- One consideration along with housing and transportation needs



Climate Change Program

California Global Warming Solutions Act of 2006

- AB 32 identified ARB as lead agency for climate change mitigation
  - Reduce California greenhouse gas emissions to 1990 levels by 2020
  - Established Environmental Justice Advisory Committee

Climate Change Program
Protecting Communities

- Ensure progress on EJ while meeting climate change goals
- Concurrent reduction of criteria pollutants and air toxics
  - Biorefinery siting guidance
  - Adaptive management of cap-and-trade regulation
  - Criteria pollutant and air toxics reductions for the largest industrial sources

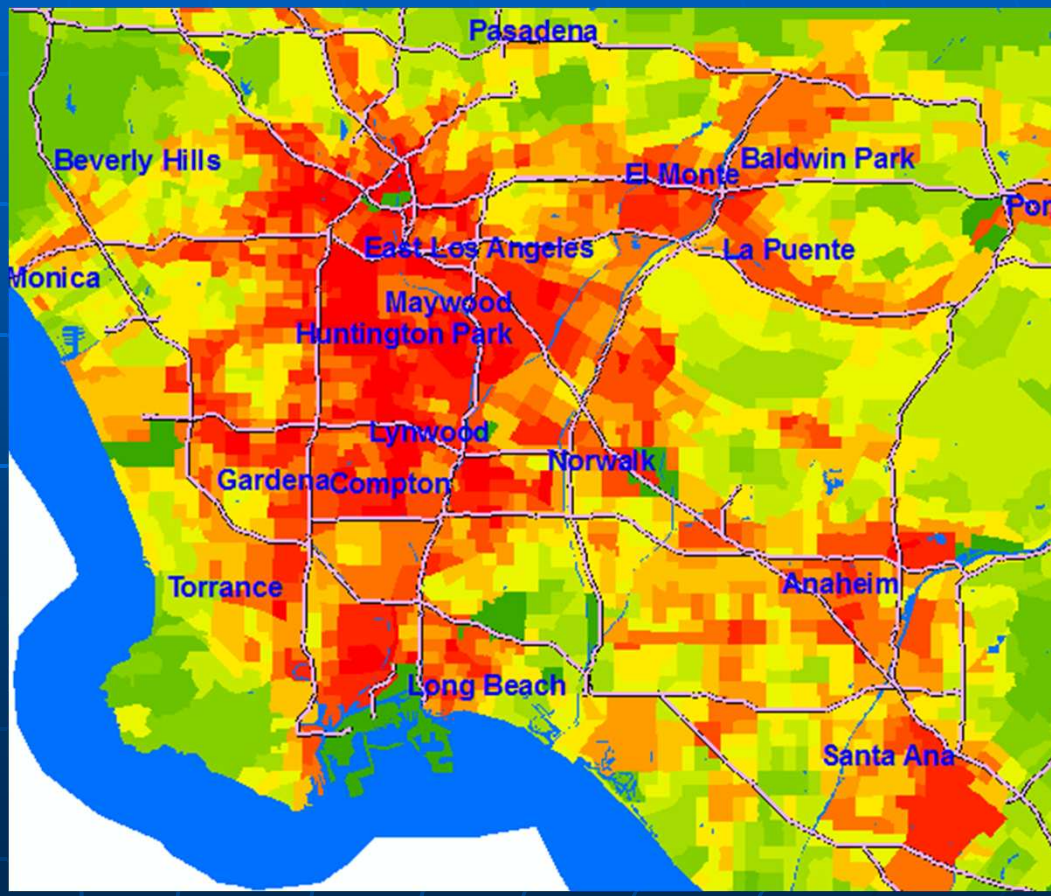
Climate Change Program
Future Activities

- Seek opportunities to reduce greenhouse gas, criteria pollutant, and air toxic emissions
- Enforce regulations
- Monitor and address community impacts of cap-and-trade regulation
- Continue to seek public input on all aspects of climate change program

Research

EJ Tools under Development

- EJ Screening Method
  - SoCal and SF Bay Area complete
  - SJV being added
- Cal/EPA
  - OEHHA assessing cumulative multi-media impacts
- Community input



Research to Inform EJ Actions

- Test new vehicle technologies and fuels
  - Verify toxics reductions
- Assess communities
  - EV-based pollution monitor
- Test high-efficiency filtration
  - Homes of asthmatic children
  - Schools and school buses

Summary

- Environmental justice now an integral part of all ARB programs
- Goal is equal benefits for all