



South Coast AQMD Smog Check Technology Forum and Roundtable Discussion



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Outline

- Why AQMD Is Interested?
- How Is AQMD Proceeding?
- Next Steps...

Goals for the Forum and Roundtable

Identify and Discuss Potential Improvements/
Enhancements to the Smog Check Program
to Achieve Additional Emission Reductions.

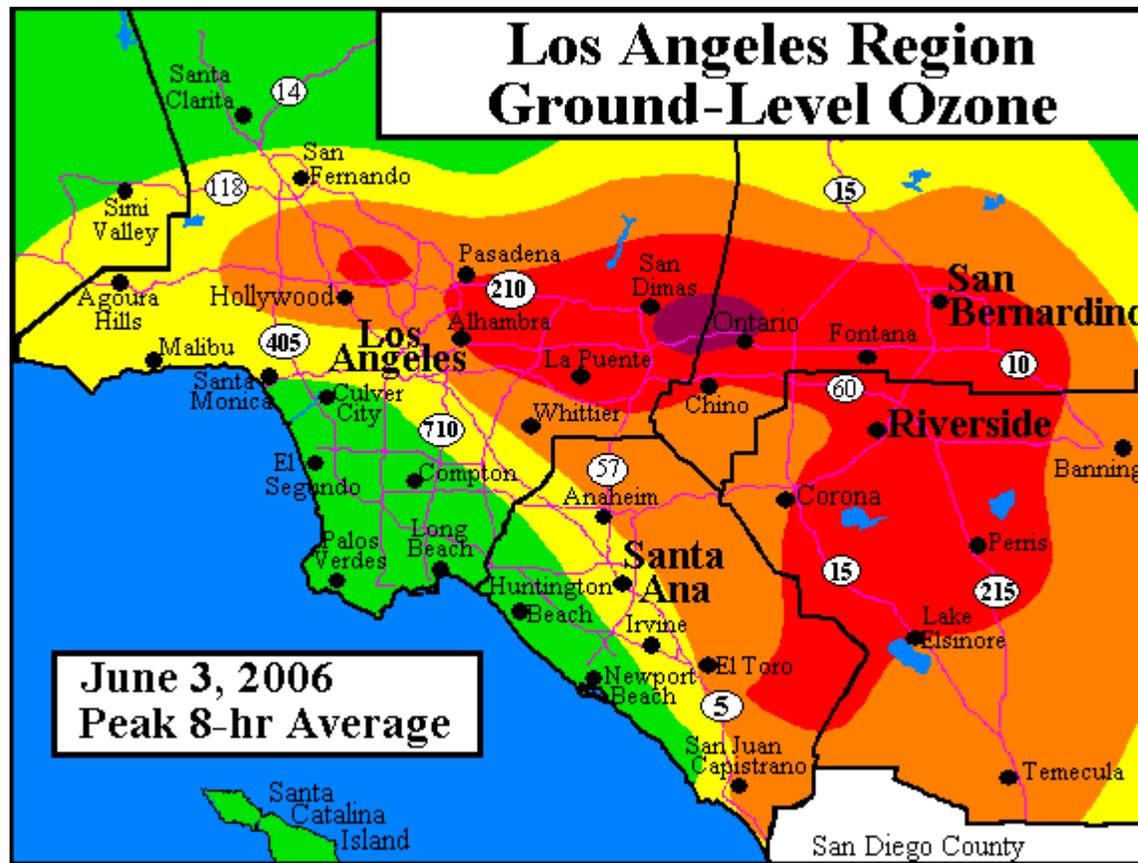
Identify strategies and approaches of better
quantification and verification of smog check
emission benefits.

Discuss and assess relationship between ASM
testing and other tools to measure in-use
emissions.

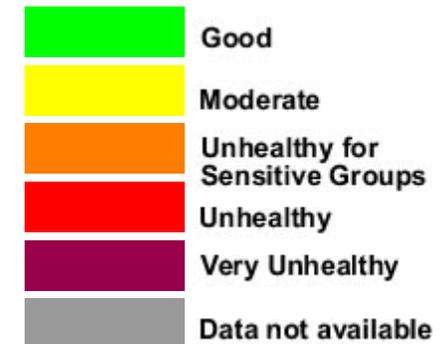
Initiate dialogue and establish roles

Why is AQMD Interested?

SCAQMD has the Worst Air Quality in the Nation



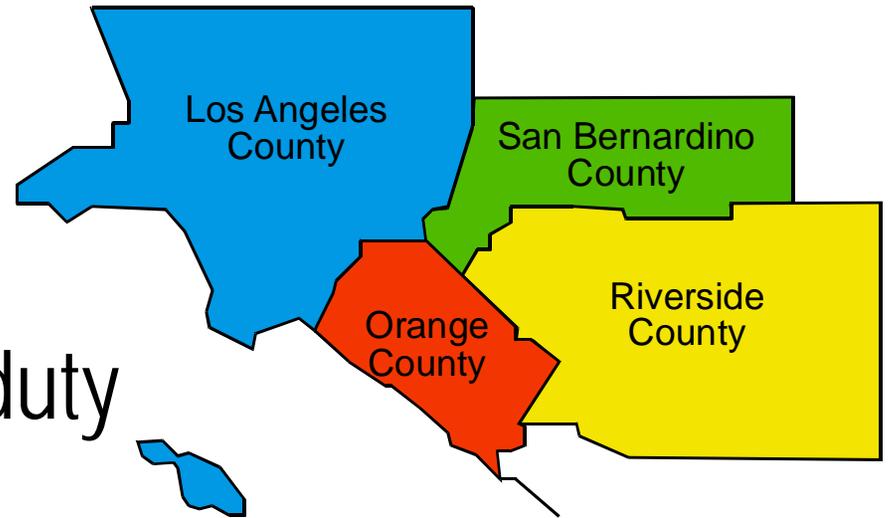
Los Angeles Region
June 3, 2006



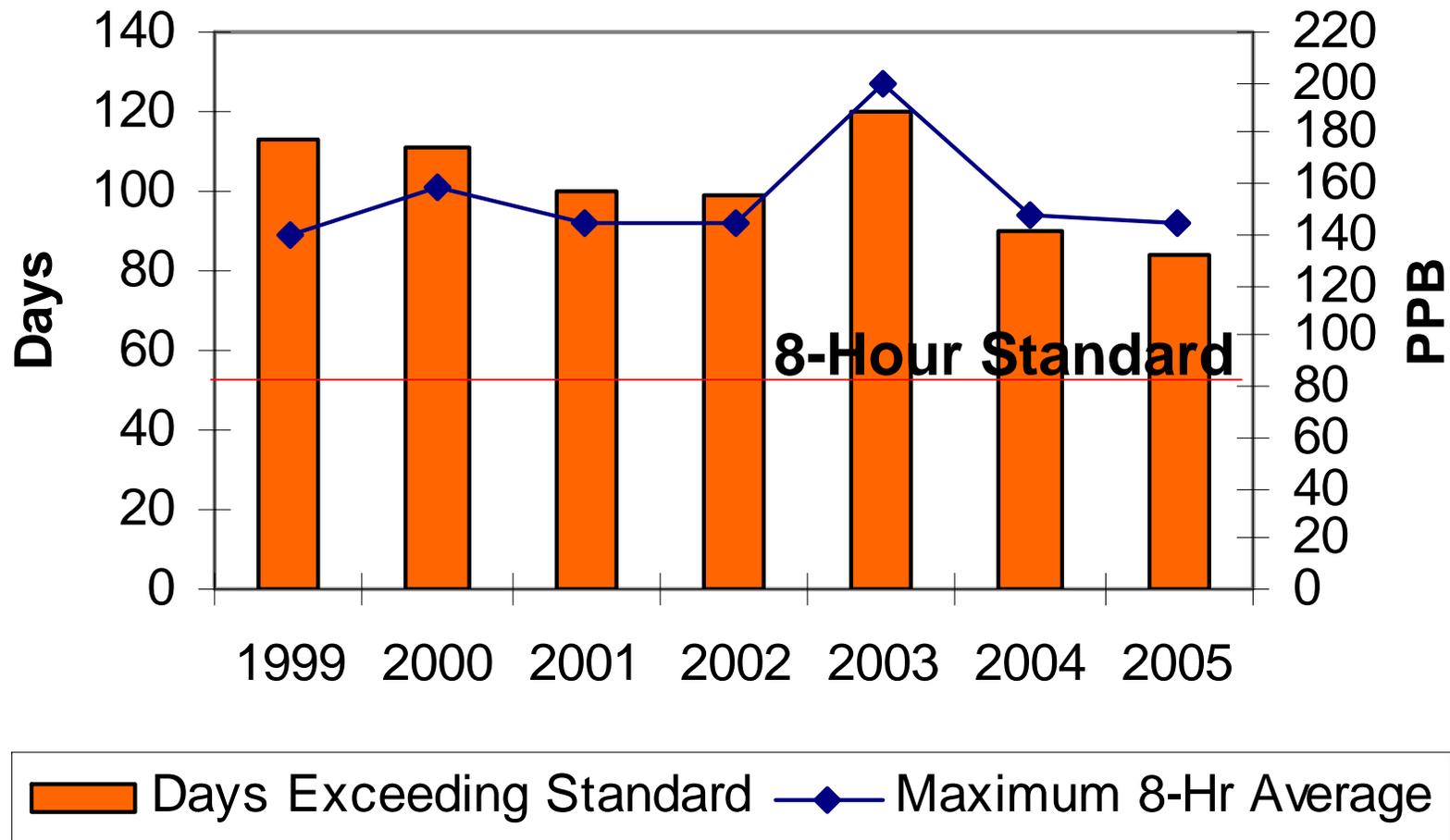
AQMD Background Setting

South Coast Basin:

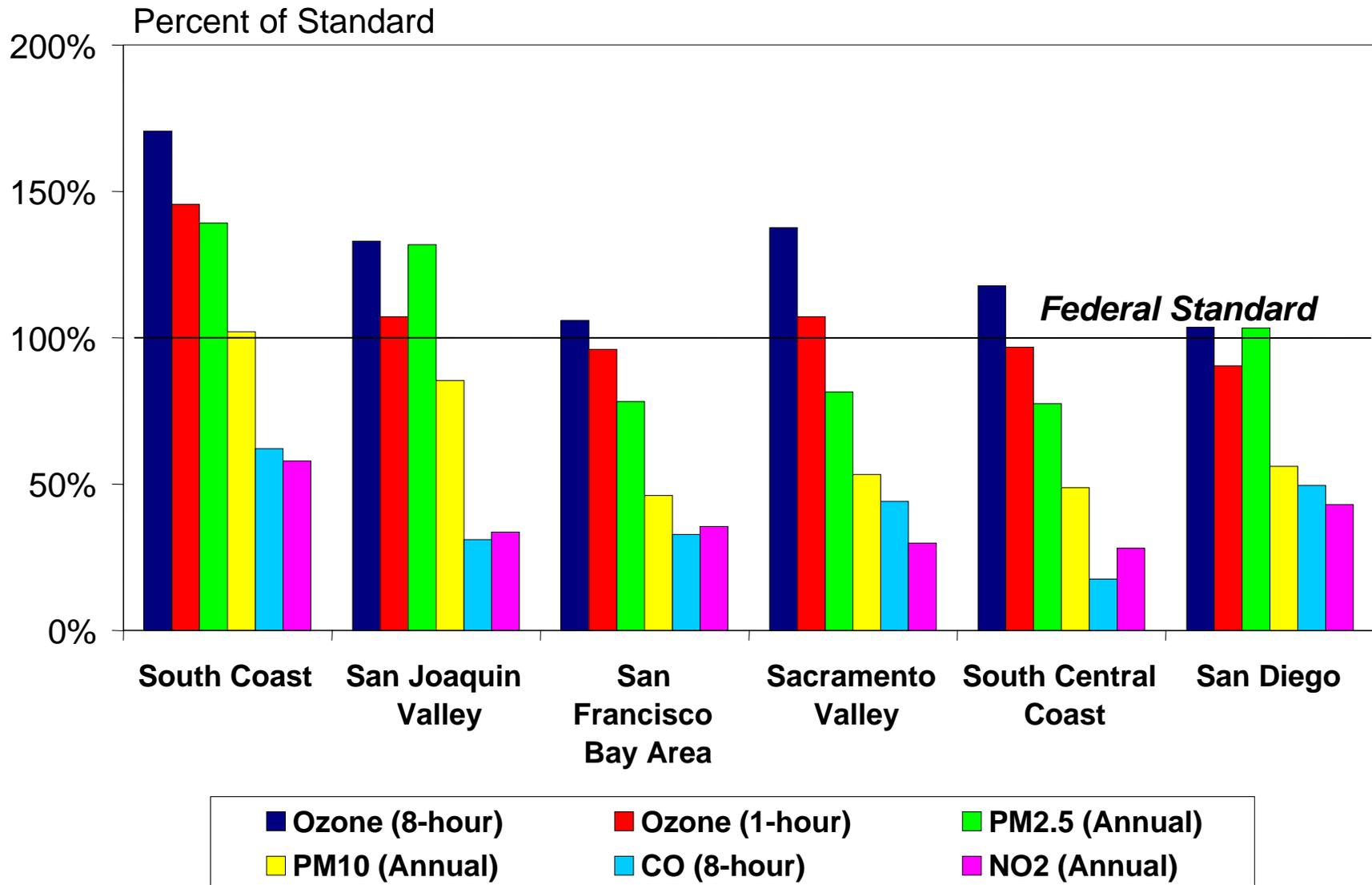
- 4-county region
- 11,000 sq. miles
- 16+ million residents
- 11+ million light/medium duty vehicles



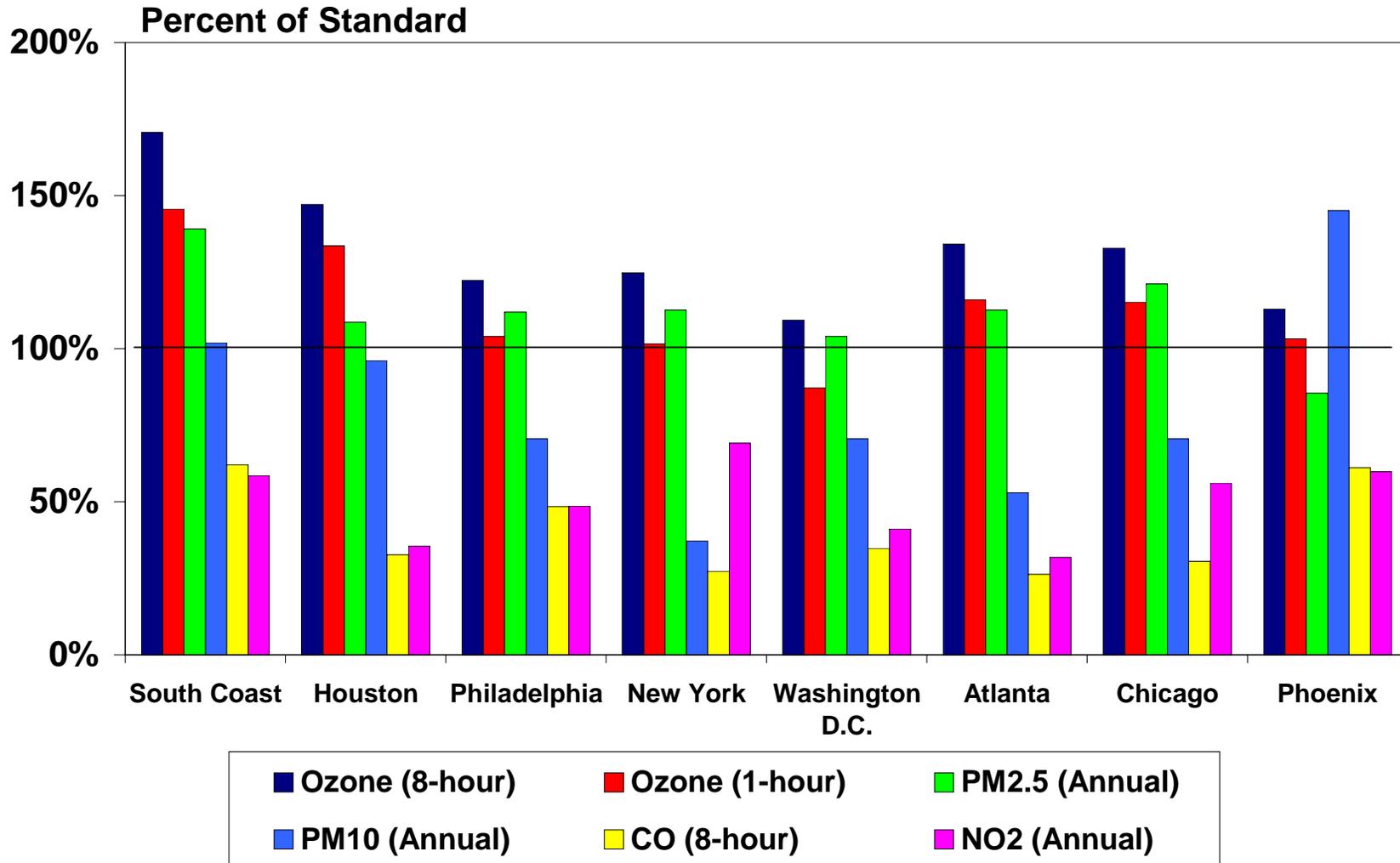
Trends of Basin 8-Hour Ozone



2005 South Coast Air Basin Quality Compared to Other California Air Basins



2005 South Coast Air Basin Quality Compared to Other U.S. Cities



10 Most Particulate-Polluted Counties in US

(annual average PM_{2.5})

1. **Riverside, CA**
2. **San Bernardino, CA**
3. **Los Angeles, CA**
4. Kern, CA
5. Tulare, CA
6. Allegheny, PA
7. Fresno, CA
8. Wayne, MI
9. **Orange, CA**
10. Kings, CA

Recent CARB Assessment of PM Health Effects



SCAB Cases/Year due to PM2.5 *

Premature Deaths	5,400
Hospitalizations	2,400
Asthma & Lower Respiratory Symptoms	140,000
Lost Work Days	980,000
Minor Restricted Activity Days	5,000,000

•1999-2000 Air Quality Data

Source: California Air Resources Board

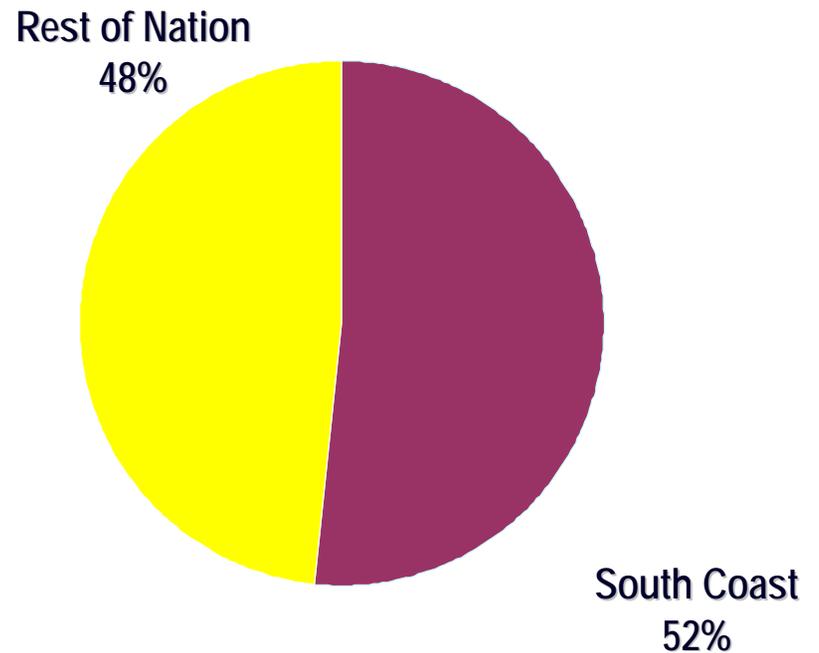
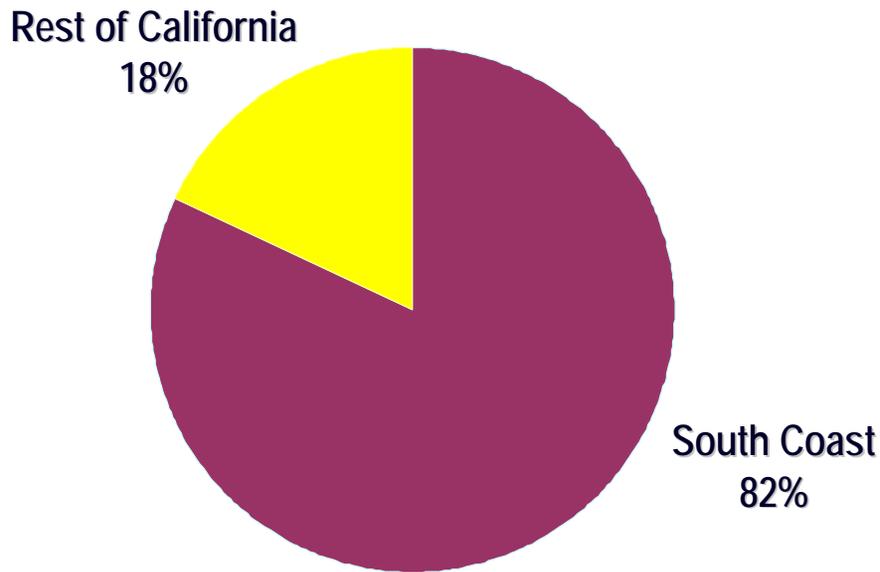
Public Health Issues

- Air pollution linked to asthma, increased cancer risk, and children's health
 - Children's Health Study showed chronic low lung function due to air pollution
 - Mobile sources contribute to 89% of average cancer risk from air toxics in South Coast Air Basin
- Recent findings indicate State has second highest toxic air concentration



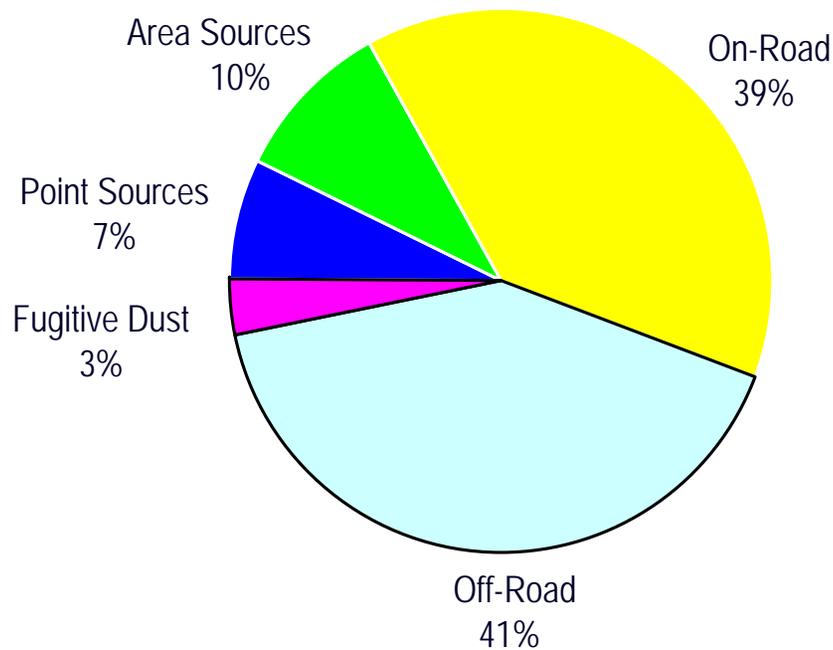
PM2.5 Disproportionate Exposure South Coast Air Basin

Population-Weighted Exposure Above NAAQS Based on
2000-2002 AIRS Data



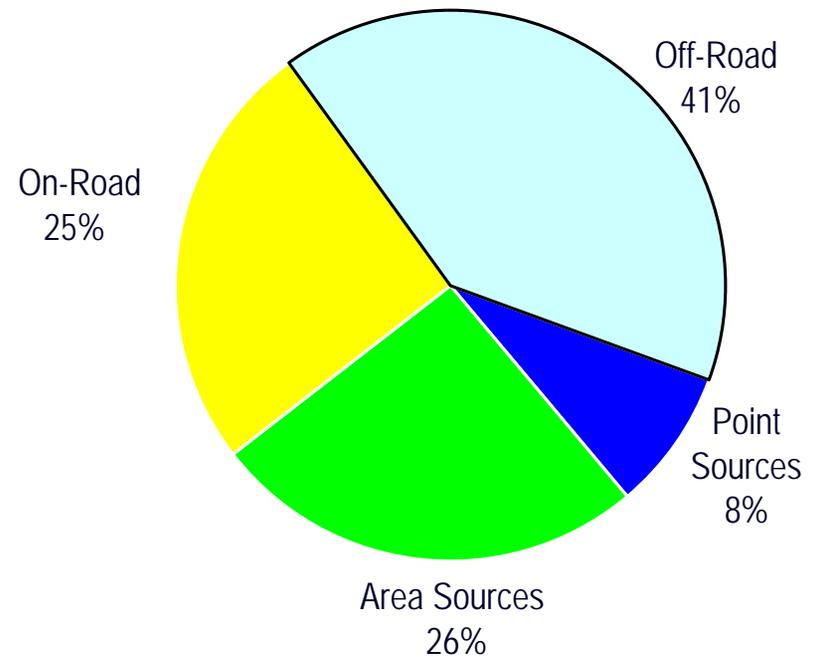
Emissions by Major Category

PM2.5, 2014



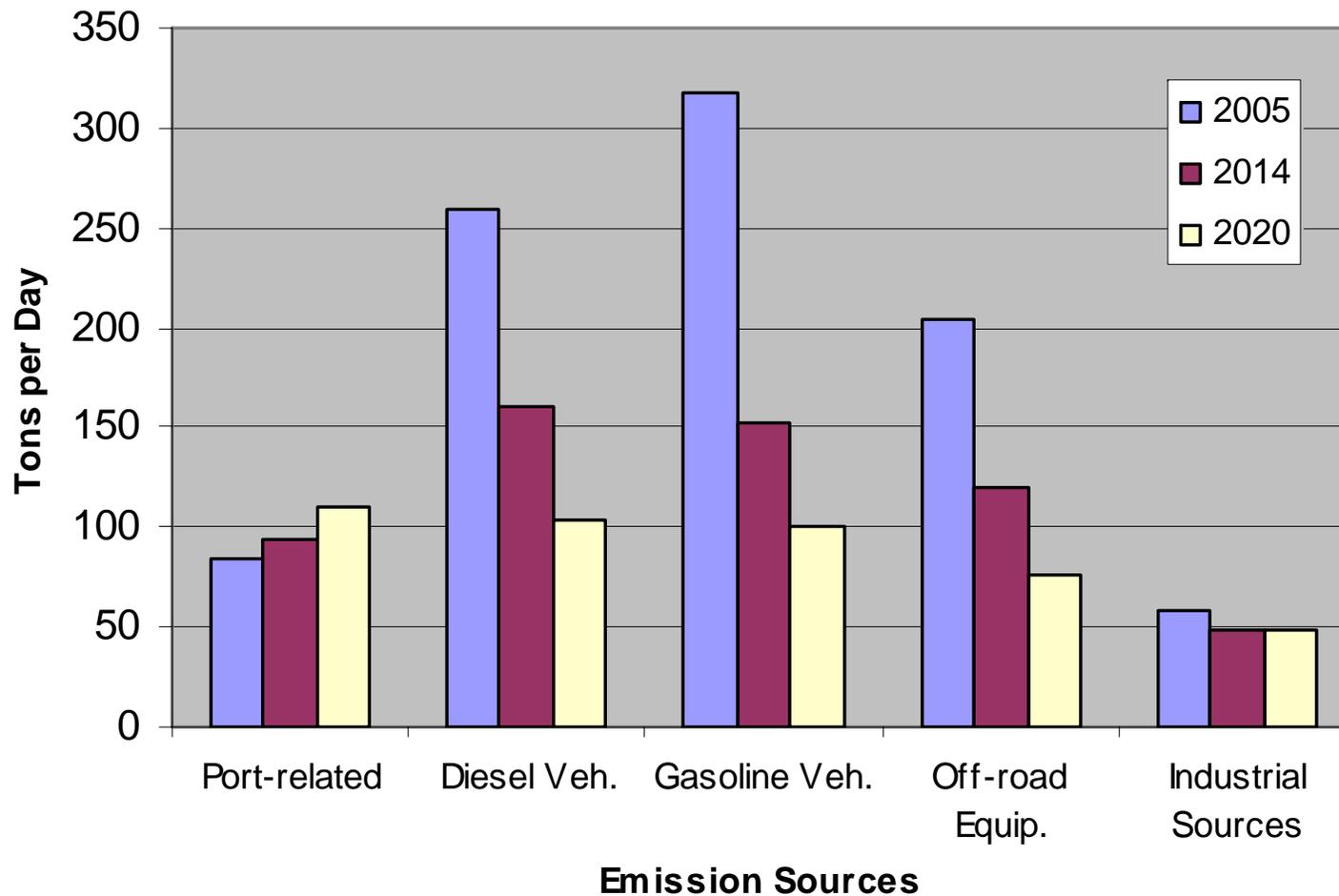
(NO_x, SO_x, PM2.5)

8-Hr Ozone, 2023



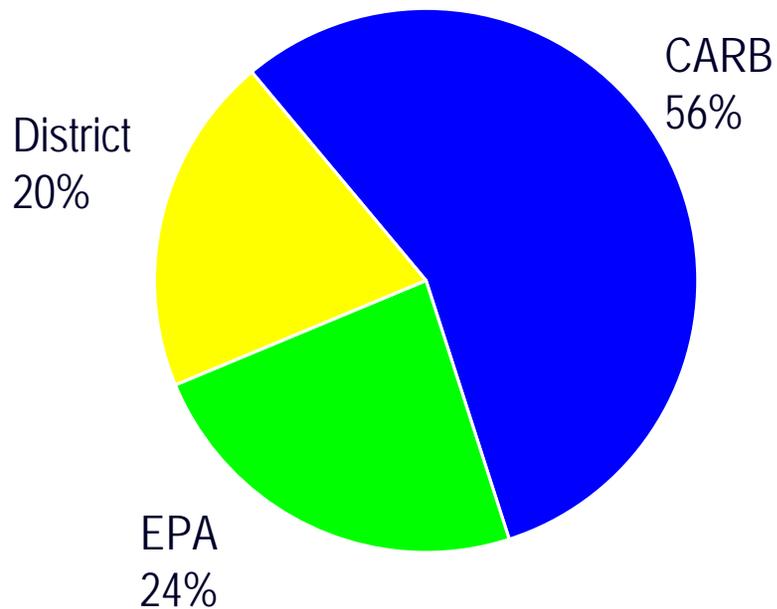
(VOC, NO_x)

NOx Emissions In South Coast Air Basin from a Variety of Sources



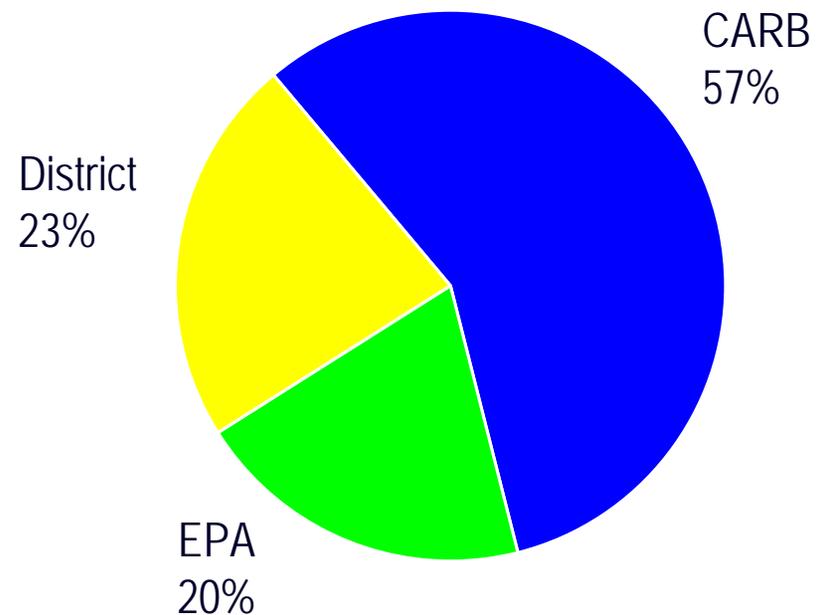
Primary Emissions Responsibility by Agency

PM2.5, 2014



(NO_x, SO_x, PM2.5)

8-Hr Ozone, 2023



(VOC, NO_x)

Goods Movement Growth 2001-2020

- 300 % increase in cargo through the ports
- 170% increase in truck travel
- 150% increase in rail cargo



Revised Reduction Targets (tons per day)

	2007	2014	2023
NOx	---	203 (31%)	389 (77%)
VOC	---	60 (11%)	116 (22%)
NOx-IM	73	75	48
VOC-IM	76	60	43

How is the AQMD Proceeding?

2007 AQMP SIP Submittal

- State of California Smog Check Improvement Commitments
- SCAQMD AQMD Commitments
 - CM #2007SCONRD-02 (Phase III OBD)
 - CM #2007MOB-05 (Light Duty High Emitter ID Via Remote Sensing)
 - CM #2007MOB-06 (Medium Duty High Emitter ID Via Remote Sensing)

Summary

- District to submit combined PM2.5 & ozone plan
- Plans demonstrate attainment
- Documents released February 2007
- Public Workshops March 13-15, 2007
- Draft Socio-Econ assessment early April
- Regional Public Hearings mid April
- May 4th Governing Board

Next Steps...