



# Technology Demonstrations Update



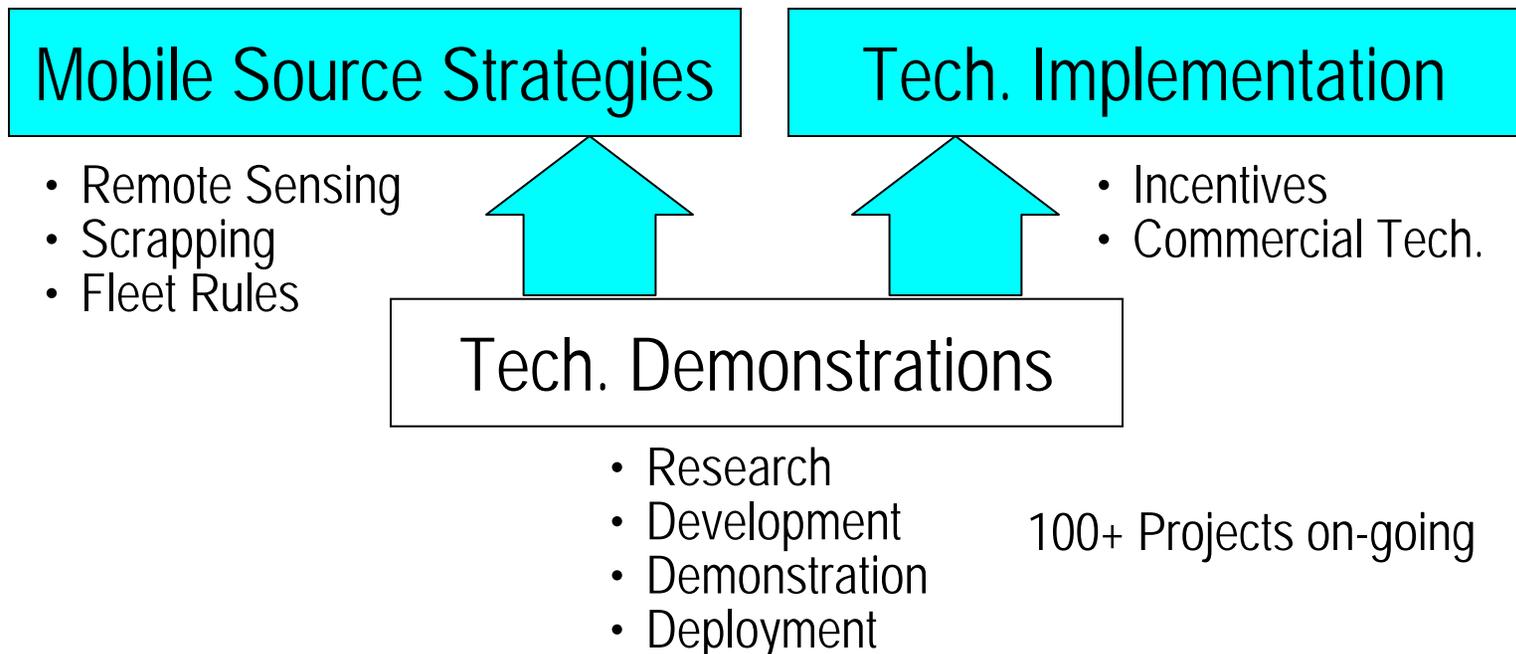
September 19, 2006

Matt Miyasato, Ph.D.

Technology Demonstrations Manager

# Technology Advancement Office

- Established in 1988
- Co-Funds Projects to Develop, Demonstrate, and Commercialize Clean Air Technologies
- Program Organization:



# Advisory Groups

- Technology Advancement Advisory Group
  - Established in 1997
- Clean Fuels Advisory Group
  - Created as part of reauthorization of Clean Fuels Fund SB-98 (1999)

## Technology Advancement Office

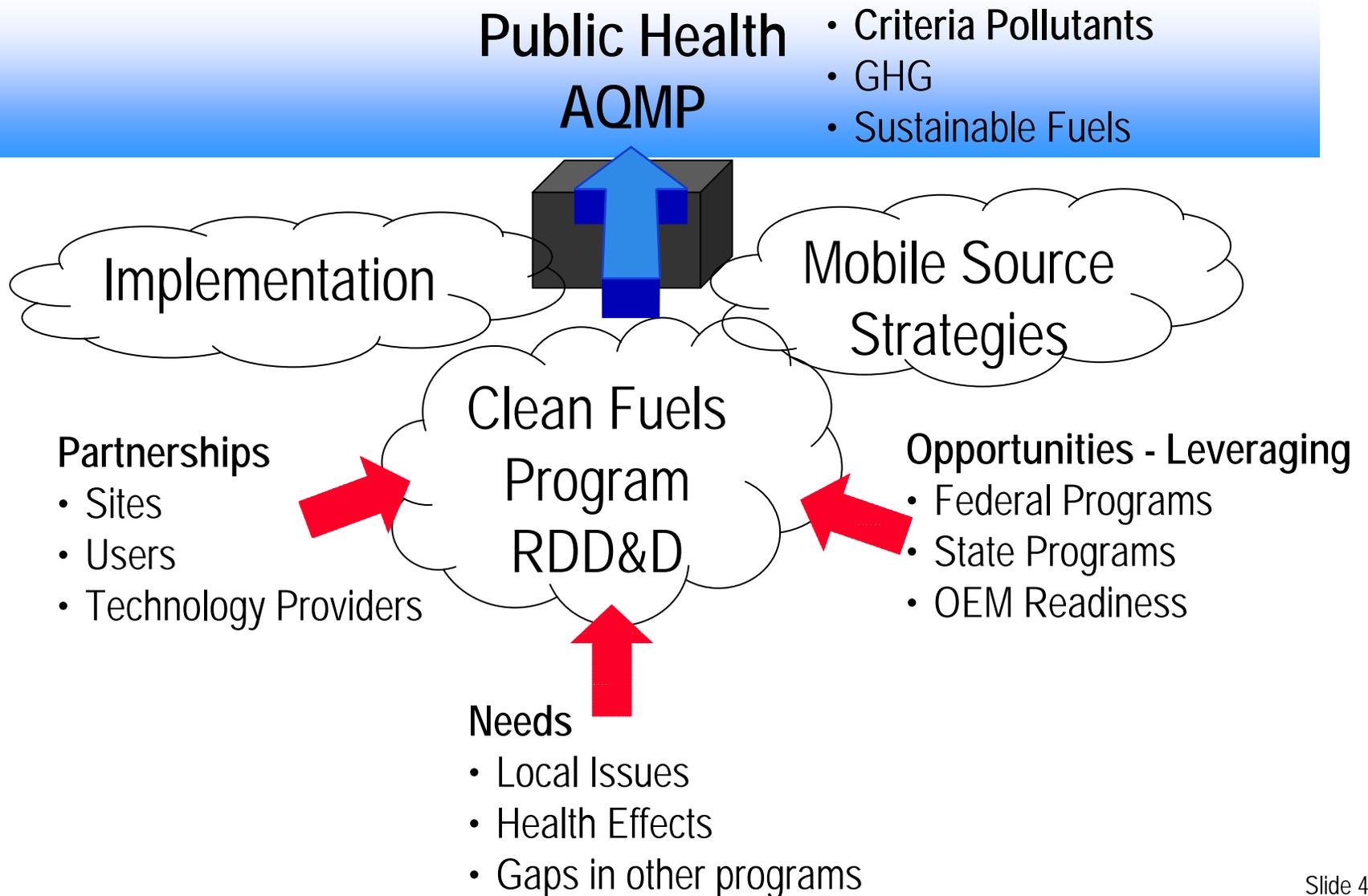
Clean Fuels Program  
2005 Annual Report and 2006 Plan Update



South Coast Air Quality Management District

March 2006

# Clean Fuels Program RDD&D



# Advanced Technologies

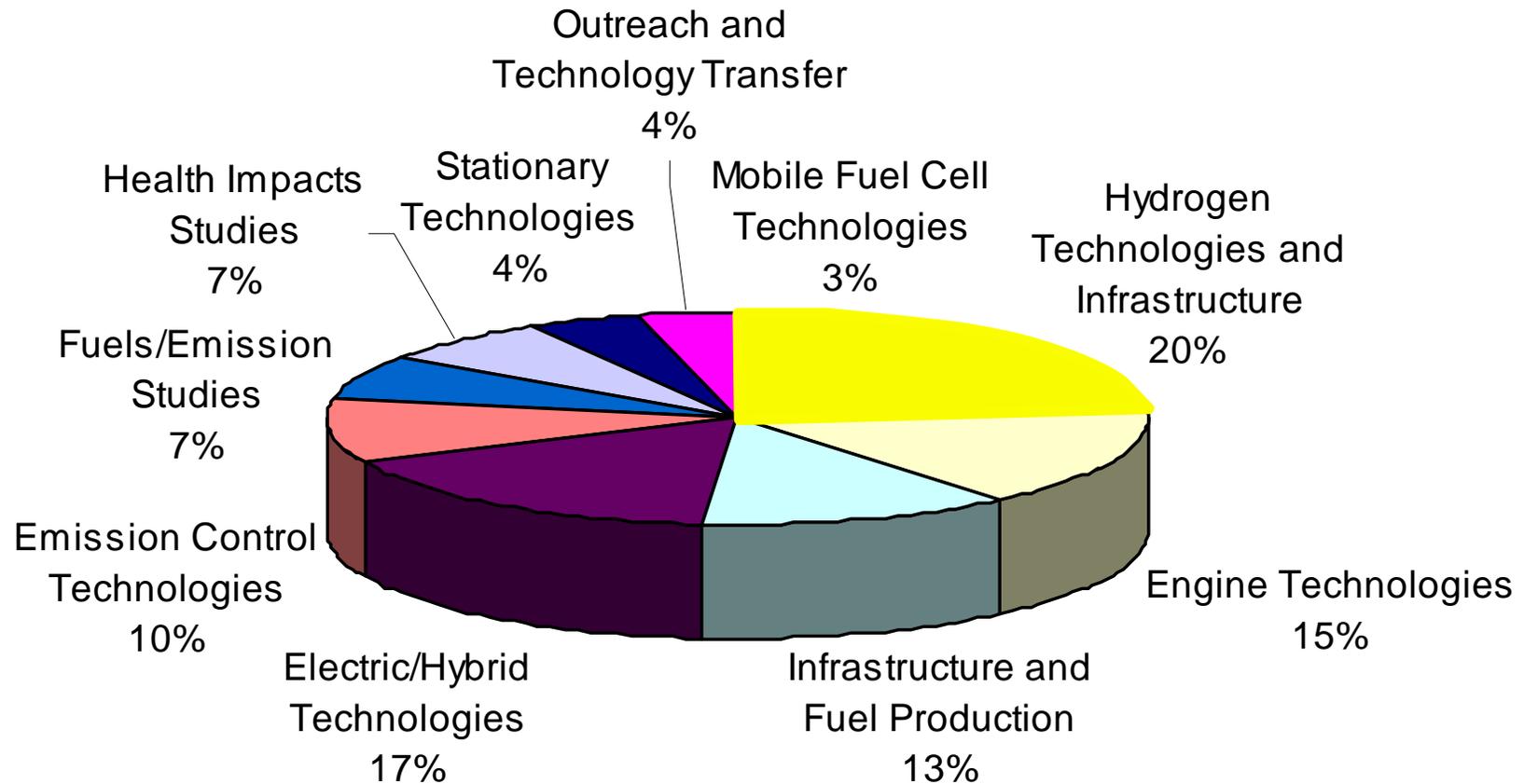
Near-Term

- Aftertreatment
- Emulsified Diesel
- HD Natural Gas Engines
- Natural Gas Fueling Infrastructure
- Advanced Diesel Engines
- Hybrid Vehicles (Plug-in & Hydraulic)
- Gas to Liquid Fuel
- Renewables
- H2 Technologies & Refueling
- Fuel Cell Vehicles



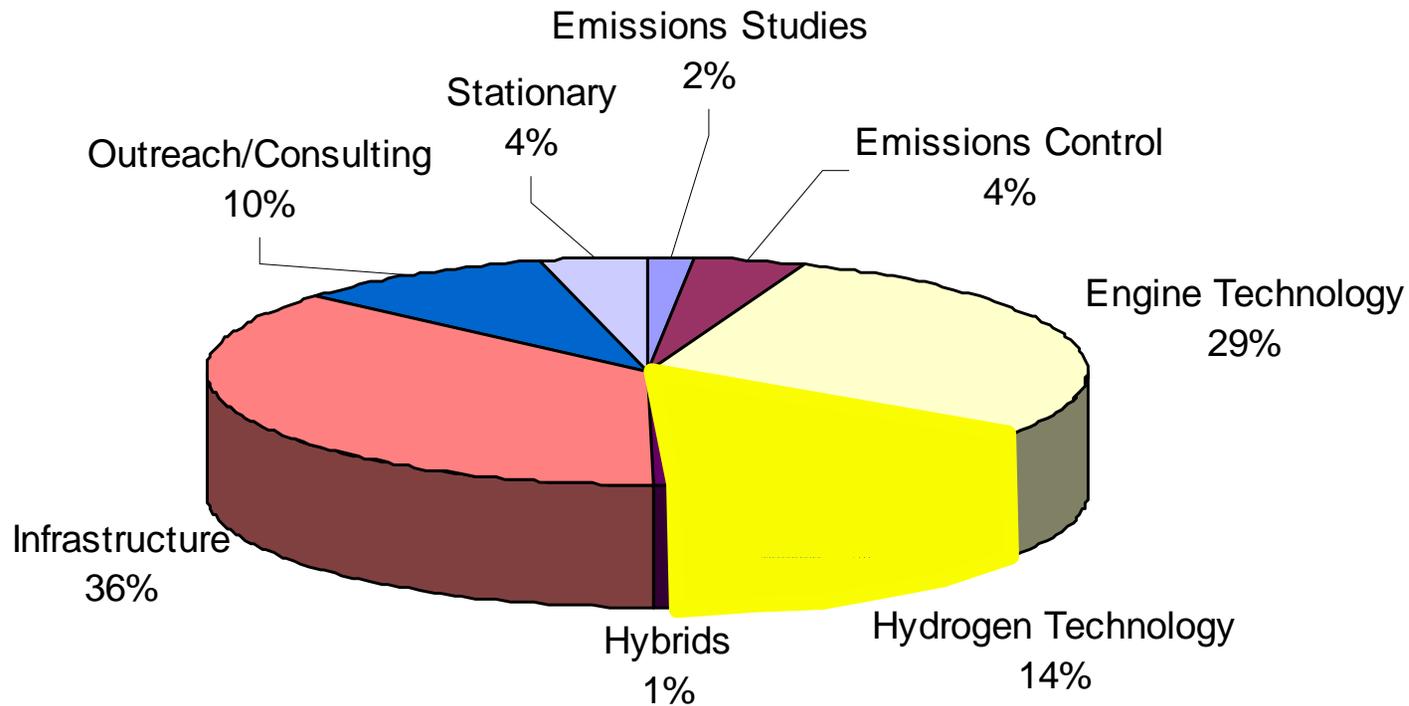
Longer-Term

# 2006 Plan Update



*75% Toward Nearer-Term Projects, 25% for Longer-Term*

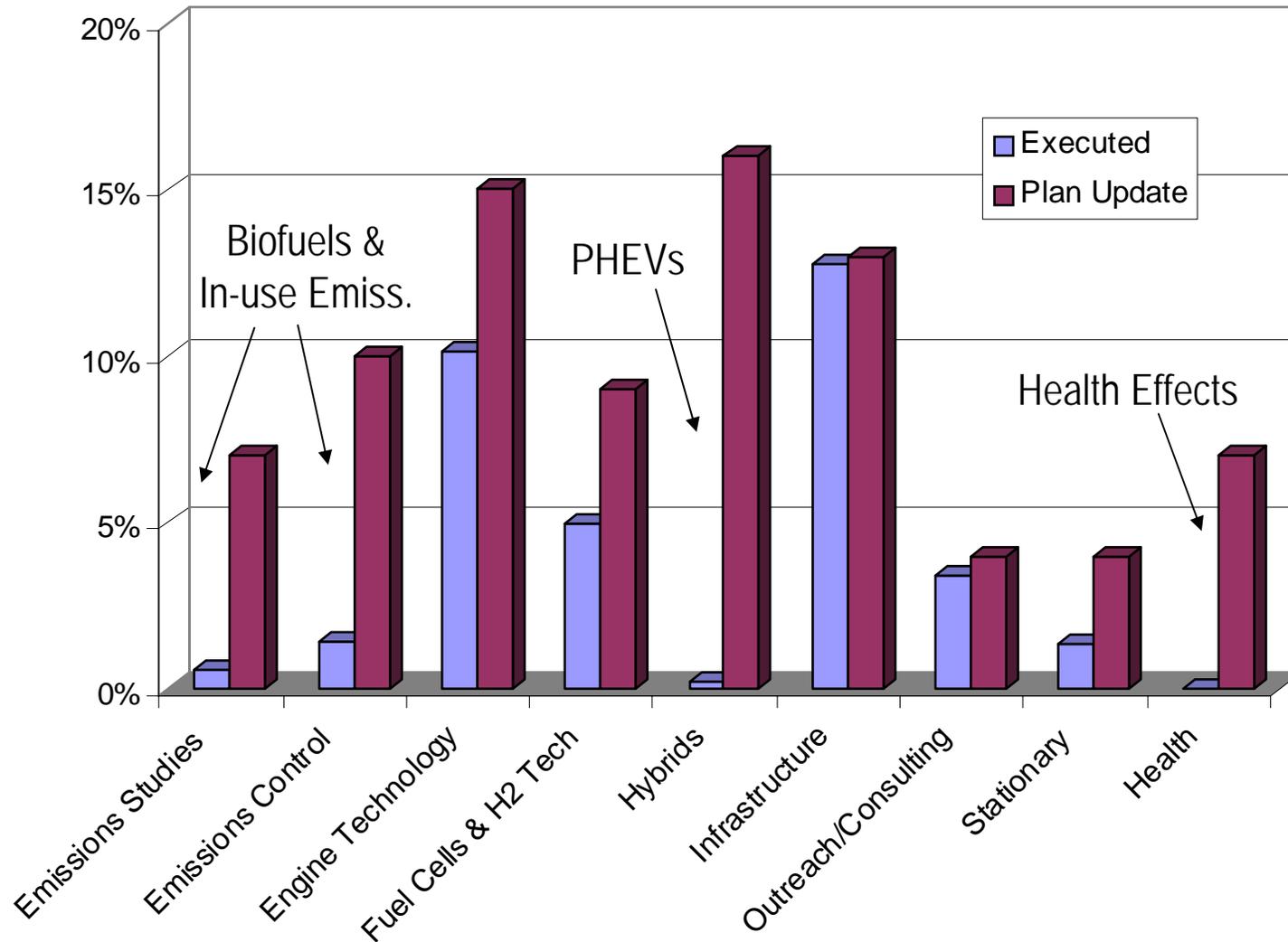
# Contracts Executed in 2006



\$3.5M

*86% Toward Nearer-Term Projects, 14% for Longer-Term*

# Comparison of Plan to Contracts



*Cleaning the air that we breathe...*

Welcome to  
*South Coast Air Quality Management District*

- About the Technology
- Advancement Office
- Best Available Control Technology
- Certified Equipment & Low VOC Products ▶
- Equipment Exchange ▶
- Fleet Rules ▶
- Implementation ▶
- Research Development & Demonstration ▶
- Other Activities
- Overview
- Projects
- Reports
- Technology Forums

- Ethanol – June 15
- Plug-in Hybrid Electric Vehicles – July 12
- In-Use Emissions – September 20
- Biodiesel – October
- Container Movement – November
- Ozone – to be determined

<http://www.aqmd.gov/tao/ConferencesWorkshops/techforum.htm>

# Urgency

- Mobile sources contribute to 89% of average cancer risk from air toxics
- California has 2<sup>nd</sup> highest air toxics concentration (behind NY)
- 6,500 premature deaths due to air pollution (statewide)

# Urgency

