

# Looking Ahead: MOVES2006

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The word "MOVES" is displayed in a stylized, metallic, three-dimensional font with a brushed metal texture and a slight glow effect, set against a dark, gradient background.

## MOVES2006

- Next major implementation of MOVES
- A draft replacement for MOBILE6
  - Not intended for use in 8-hr Ozone SIPs
- Planned for release in early 2006
- To be finalized as MOVES2007

## Same capabilities as MOVES2004

- Estimate energy consumption
- Estimate CH<sub>4</sub>, N<sub>2</sub>O
- Estimate basic emission processes
  - Well-to-Pump
  - Starts
  - Exhaust
  - Extended Idle
- Investigate effects of fuel/technology changes.

## Adds New Pollutants

- **Criteria Pollutants:**
  - HC (with speciation)
  - CO
  - NO<sub>x</sub>
  - PM (with speciation)
- **Toxics:**
  - 6 major mobile source toxics +
  - Additional hazardous air pollutants

## Adds New Emission Processes

- **Evaporative emissions**
- **Crankcase emissions**
- **Tire wear**
- **Brake wear**

## Adds New Control Strategies

- Turning off regulations (no CAAA, etc.)
- Inspection/Maintenance programs

# Mesoscale & Microscale Modeling

- We initially planned to add capability to input, calculate & output emissions by link.
- Not sure this capability would be used.
- Looking for feedback—
  - Would users make use of g/link capability?
  - If not, how could MOVES best serve SIP/Conformity uses?
- Microscale modeling by supplying Core Model inputs

# Category modifications

- **To improve performance, reducing default entity categories from MOVES2004.**
  - SourceTypes 13 → 6
    - Motorcycles, Passenger Cars, Light Trucks, Buses, Single Unit Trucks, Combination Trucks
  - RoadTypes 13 → 5
    - Off-network, Rural Limited Access, Urban Limited Access, Rural Other, Urban Other
  - Days 7 → 1
    - Weekday/Weekend distinctions could be input by user if desired.



## Updated Fleet & Activity Data

- 1990 Base Year estimates
- Updated 1999 estimates
- New in-use data

## Emission analysis from a variety of sources

- Chassis tests
- On-Road Portable Emissions Measurement System (PEMS) test programs
- Remote Sensing measurements
- Inspection & Maintenance measurements
- Engine Tests