

Transportation Conformity

Lowest Costs Ways to Meet Federal Air Quality Requirements So Roads Can be Built

House Transportation Planning Subcommittee

Chris Klaus

North Central Texas Council of Governments

September 28, 2016



SIGNIFICANCE OF TRANSPORTATION CONFORMITY

Billions of dollars in funding for a safe, efficient, and reliable multimodal transportation system...

...Is based on a successful transportation conformity determination in nonattainment areas...

...which relies on local and State emission reduction solutions.

SUCCESSFUL TRANSPORTATION

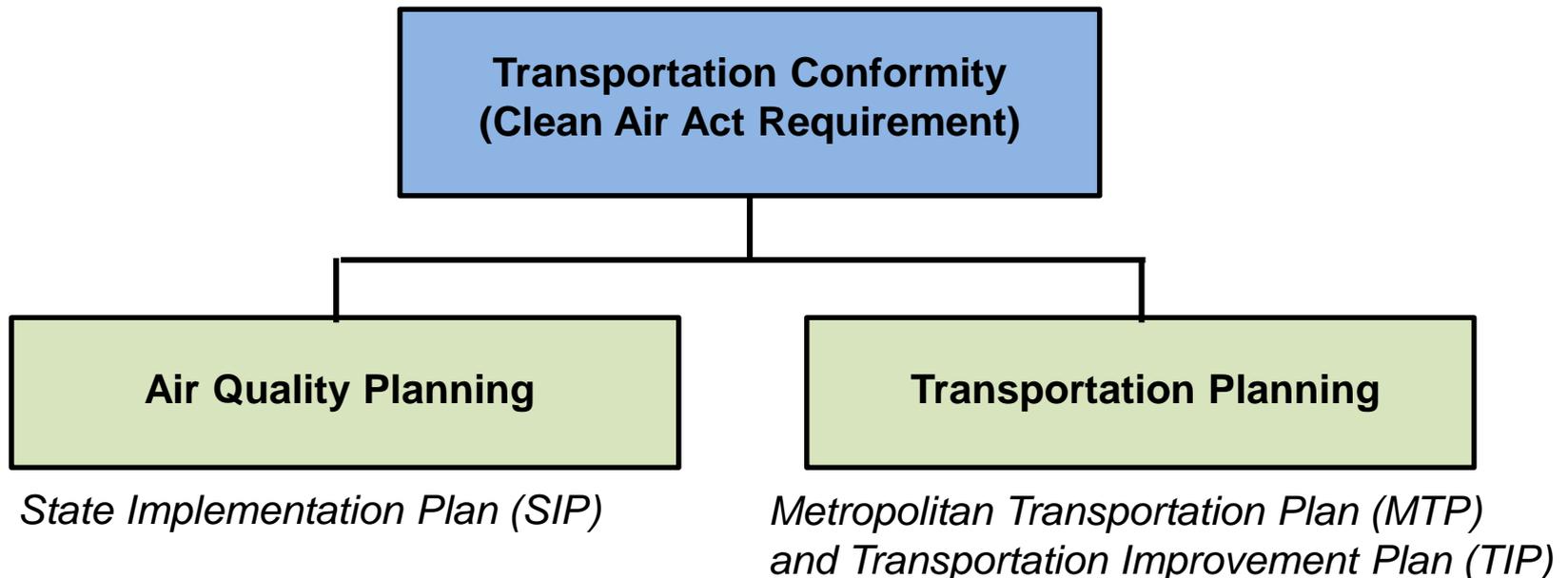
Priorities

Conformity is essential in nonattainment areas

Dallas-Fort Worth, Houston

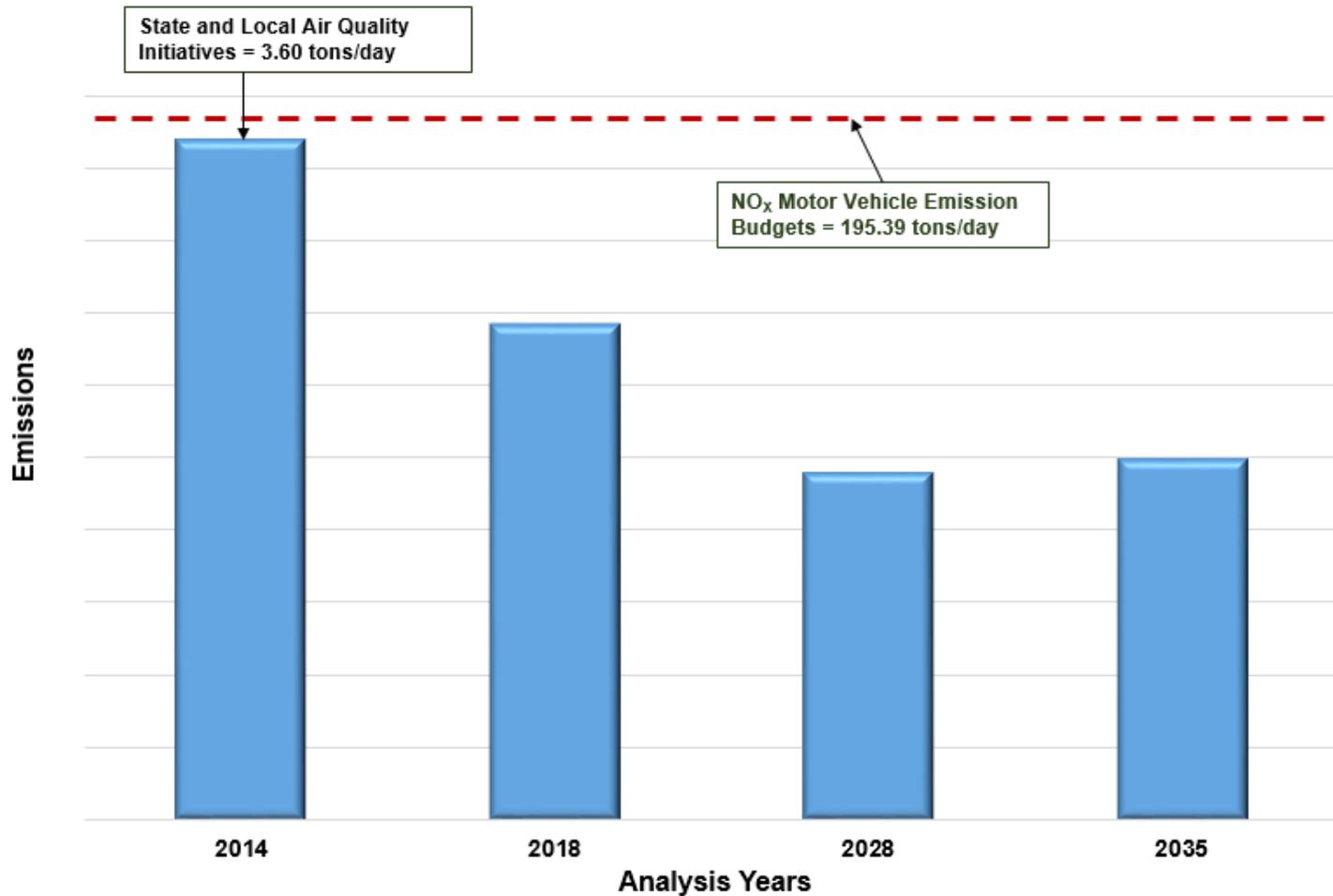
El Paso, San Antonio (Future)

Metropolitan Transportation Plan approval relies on successful USDOT conformity determination



TRANSPORTATION CONFORMITY

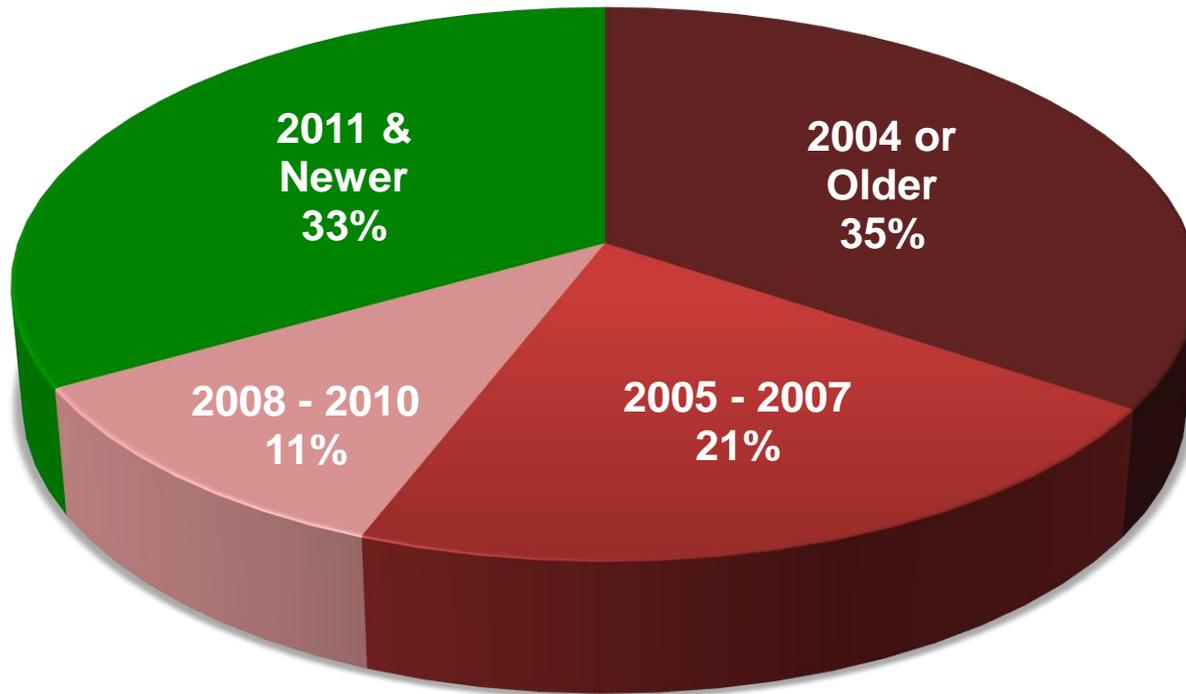
DFW Region NO_x Scenario



Emission limits (Motor Vehicle Emission Budgets) for conformity are predetermined, utilizing outdated assumptions

ACCELERATE FLEET TURNOVER

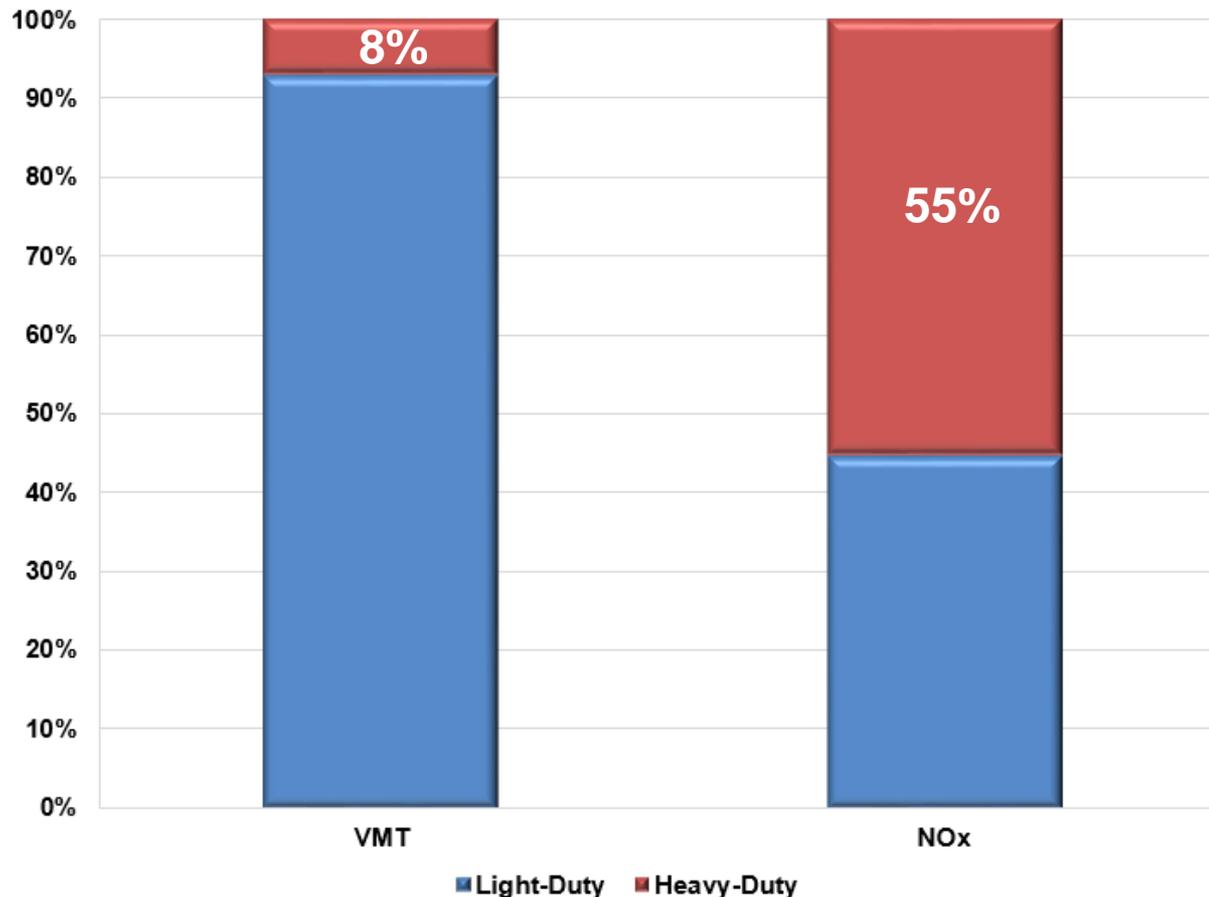
Age Distribution of Registered Heavy-Duty Vehicles



67% of Heavy-Duty Vehicles Pre-Date Current Engine Emissions Standards

35% are 2004 or Older, with NO_x Emissions Rates 20x higher than new engines

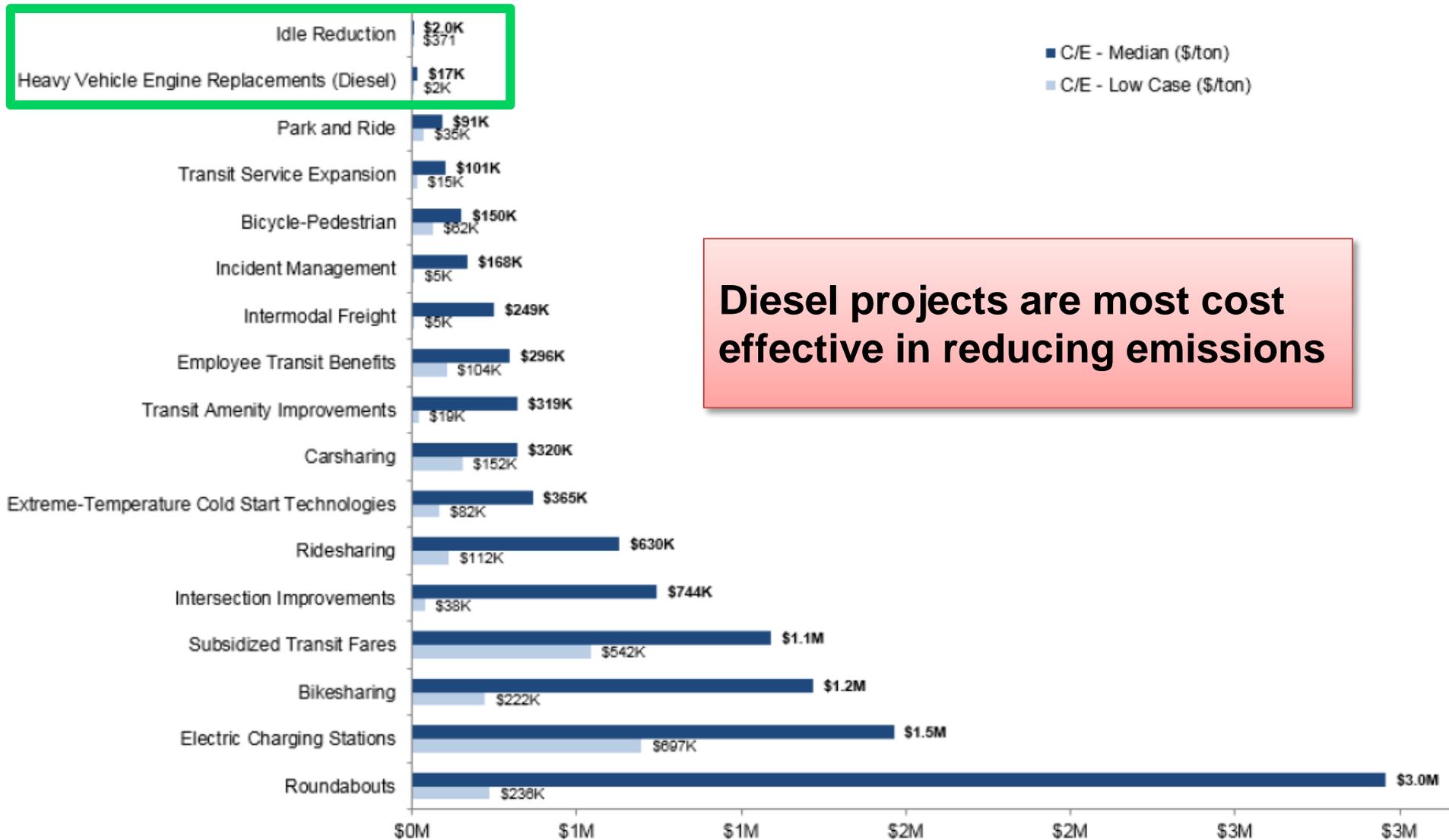
Vehicle Miles of Travel and NO_x Heavy-Duty vs. Light-Duty Vehicles



Approximately 8% of heavy-duty vehicles account for 55% of emissions

PROGRAM COST EFFECTIVENESS¹

Cost per Ton NO_x Reduced



Diesel projects are most cost effective in reducing emissions

¹ Source: FHWA-Cost Effectiveness Tables Summary. http://www.fhwa.dot.gov/environment/air_quality/cmaq/reference/cost_effectiveness_tables/costeffectiveness.pdf, page 13.

FURTHER INFORMATION

Chris Klaus
Senior Program Manager
cklaus@nctcog.org
817-695-9286

**Additional information on Dallas-Fort Worth Transportation
Conformity: <http://www.nctcog.org/trans/air/conformity/>**