

WELCOME!

**NHTSA, EPA and CARB Workshop on
Technology Effectiveness Modeling Methodologies
for the Midterm Evaluation Draft Technical
Assessment Report Analysis for CAFE Standards and
GHG Standards**

March 1, 2016



Agenda

10:00 - 10:15 Welcome and Opening Remarks by NHTSA, EPA, and CARB

- Jim Tamm, Chief, Fuel Economy Division, NHTSA
- Mike Olechiw, Director, Light-duty Vehicles and Small Engines Center, EPA
- Mike McCarthy, Vehicle Program Specialist, California ARB

10:15 – 12:00 Modeling Methodology for NHTSA CAFE Analysis

- ▶ CAFE Model Overview and Role of Technology Effectiveness
 - Kevin Green, Chief, CAFE Program Office, Volpe Center
- ▶ ANL Autonomie Overview
- ▶ Control Development and Model Validation
- ▶ Estimating Technologies' Effectiveness with Full Vehicle Simulation
 - Aymeric Rousseau, Manager, Systems Modeling & Control Group, ANL

Agenda

12:00 - 1:00 **Lunch Break**

1:00 – 2:00 **Modeling Methodology for NHTSA CAFE Analysis**

- ▶ Vehicle Powertrain Sizing Algorithms and Validation
- ▶ Vehicle Simulation Results Quality Check Process
 - Aymeric Rousseau, Manager, Systems Modeling & Control Group, ANL

- ▶ Vehicle Simulation Results Usage in the CAFE Model
 - Ryan Keefe, Research Analyst, CAFE Program Office, Volpe Center

Agenda

2:00 – 3:30 Modeling Methodology for EPA GHG Analysis

- ▶ Model Overview and the Role of Technology Effectiveness
 - Kevin Bolon Assessment and Standards Division, EPA
- ▶ ALPHA Effectiveness Modeling
 - Daniel Barba, Director, National Center for Advanced Technology, EPA
 - Kevin Newman, ALPHA Team Leader, NCAT, EPA
- ▶ OMEGA Modeling of Potential Compliance Pathways
 - Kevin Bolon, Assessment and Standards Division, EPA

3:30 – 4:00 Q&A, Wrap-up

