



NHTSA Agency Activities

PRESENTED BY

Ronald L. Medford

SAE Government/Industry Meeting

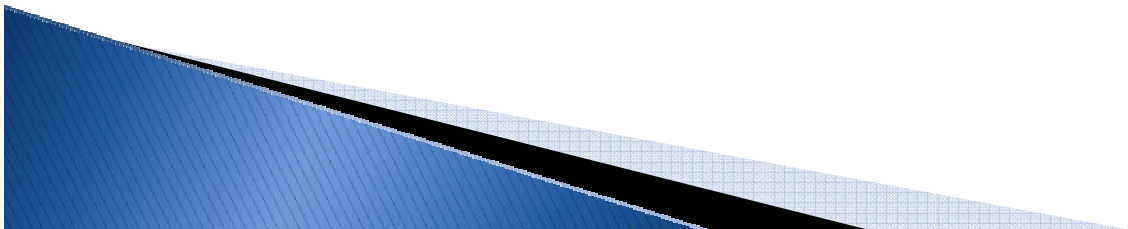
February 4th, 2009

NHTSA Major Accomplishments

- ▶ The fatality rate per 100million VMT decreased from 1.53 in 2000 to 1.36 in 2007
 - Over 10,000 lives saved
- ▶ Seat belt use increased from 71% in 2000 to 83% in 2008
 - Primary seat belt laws in 26 states, DC, and Puerto Rico
 - 2,800 lives saved annually
- ▶ Major Rulemaking Highlights
 - FMVSS 126 – ESC
 - FMVSS 214 – Side Impact Protection
- ▶ NCAP Upgrades
 - Safercar.gov
 - Child Restraint Ease of Use Ratings

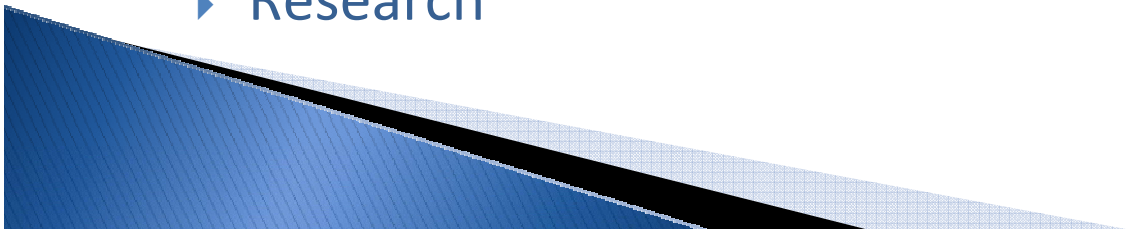
NHTSA Challenges

- ▶ Impairment
 - Alcohol
 - Distraction
- ▶ Vehicle
 - Motorcycles
 - Rollover
 - Heavy Truck
- ▶ Congressional Mandates
- ▶ Advanced Technologies and Research

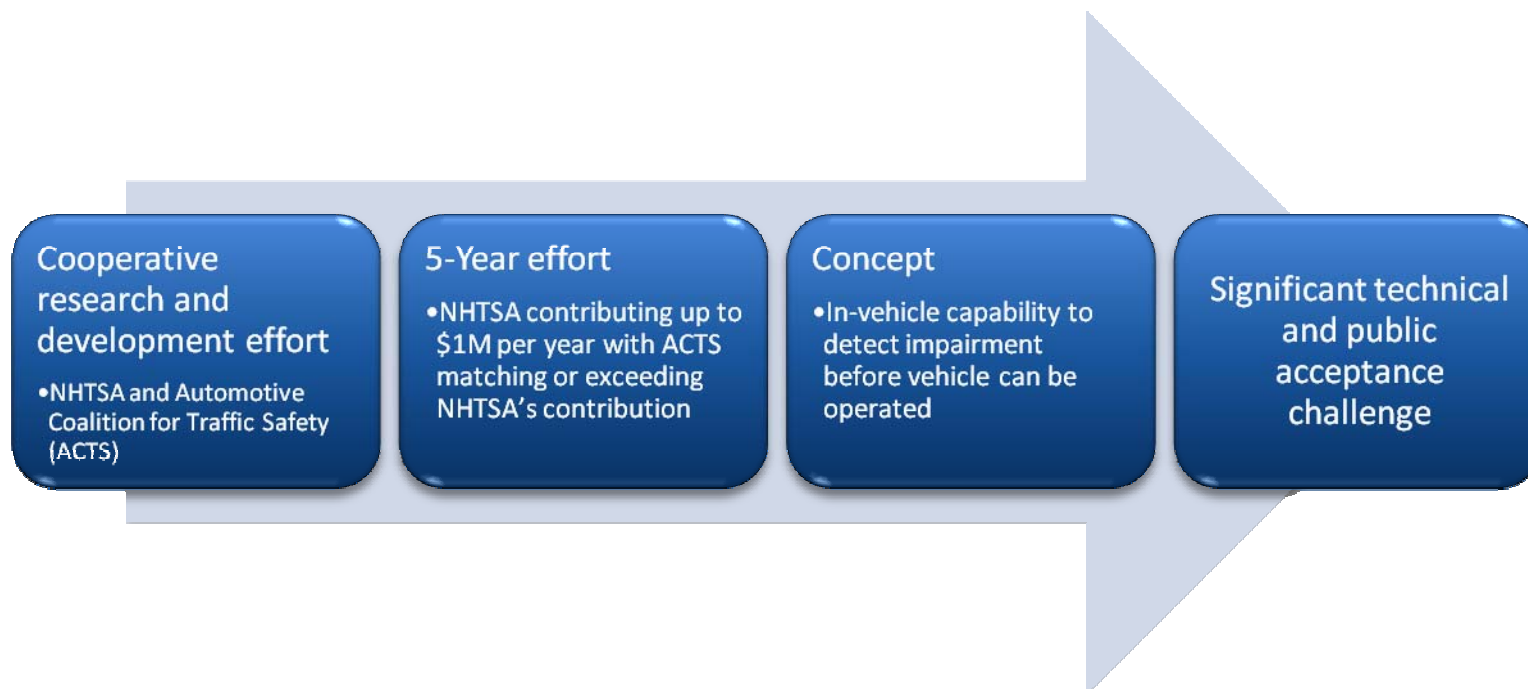


Impaired Driving

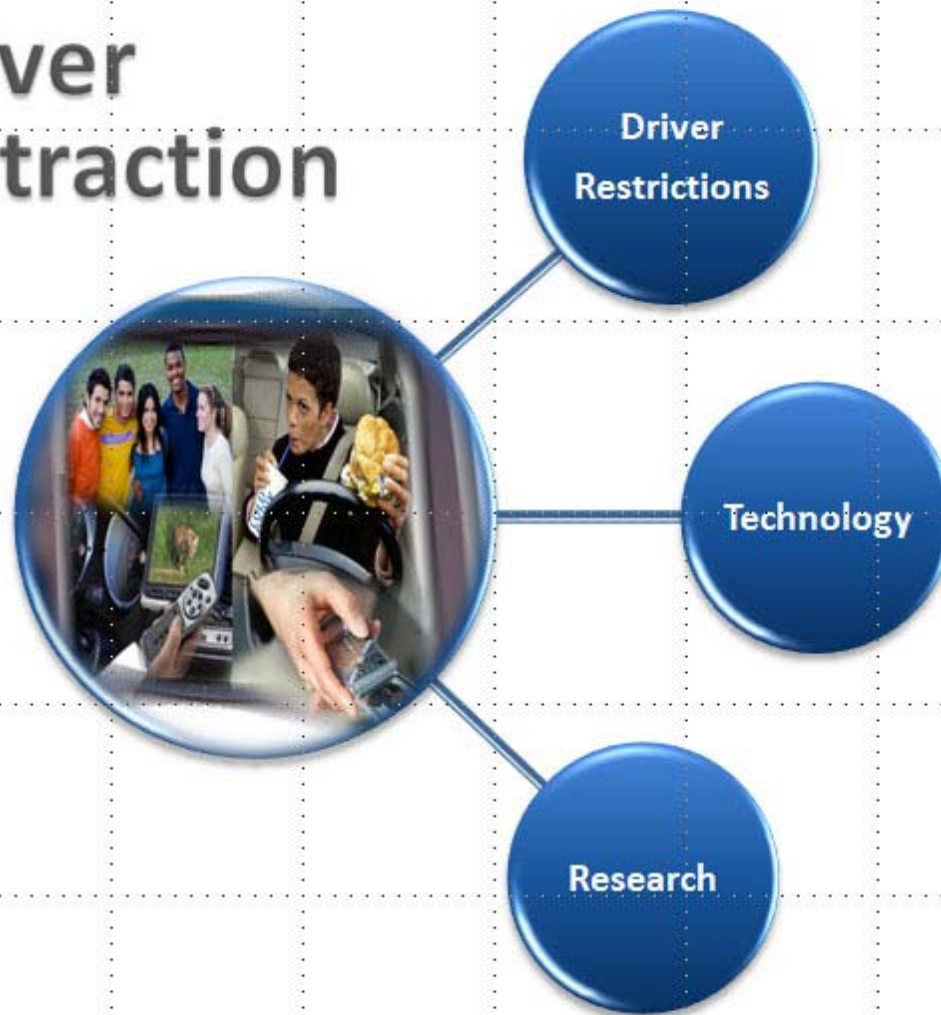
- ▶ Develop and implement state programs to reduce impaired driving through High Visibility Enforcement (HVE), support for prosecutors & DWI courts, and expanded use of technology, such as ignition interlocks
- ▶ Collaborate with state and national agencies and organizations to prevent driving while impaired by drugs or alcohol and underage drinking
- ▶ Research



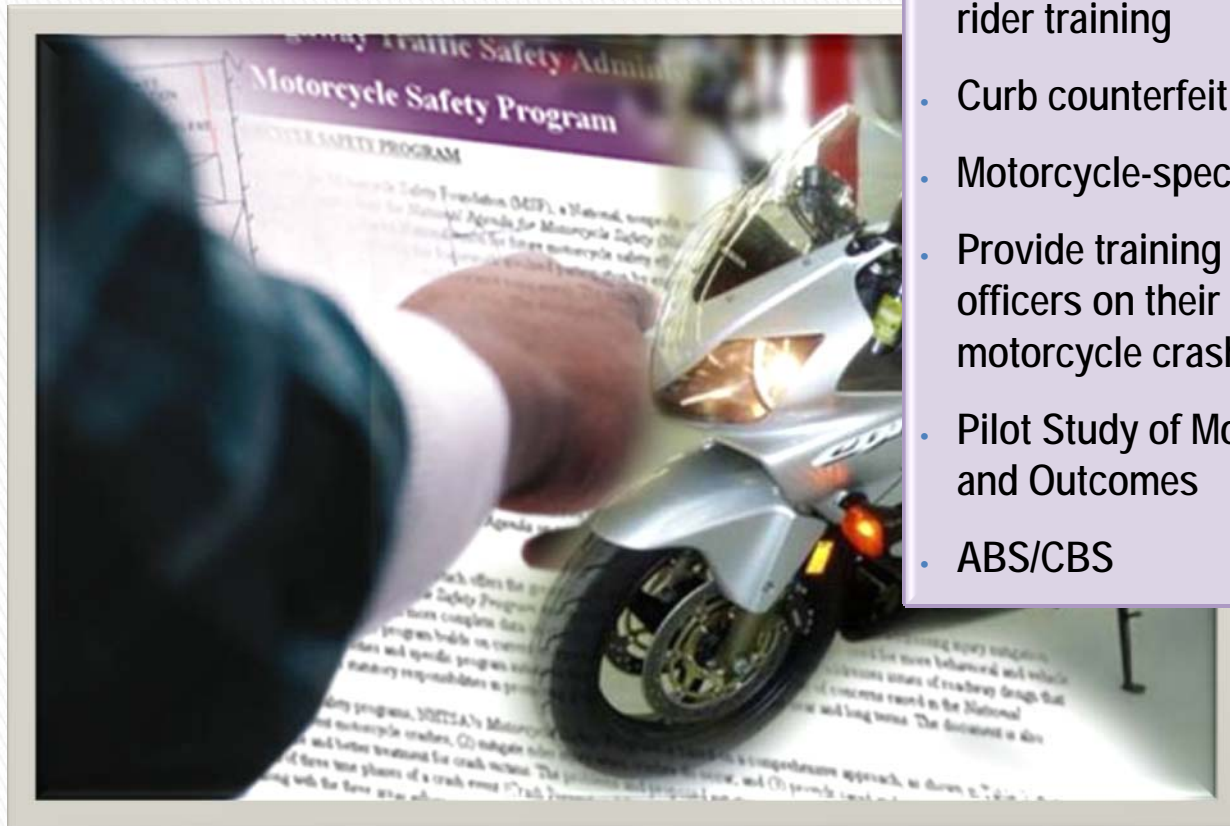
Development of Advanced Alcohol Sensing Technology



Driver Distraction



DOT Motorcycle Action Plan



- New national standards for entry-level rider training
- Curb counterfeit helmet labeling
- Motorcycle-specific road improvements
- Provide training to law enforcement officers on their role in reducing motorcycle crashes
- Pilot Study of Motorcycle Crash Causes and Outcomes
- ABS/CBS

Rollover Activities



Safety Belts



Electronic Stability Control



NCAP Rollover Prevention



Ejection Mitigation



Roof Strength

Heavy Truck Activities

▶ ESC/RSC

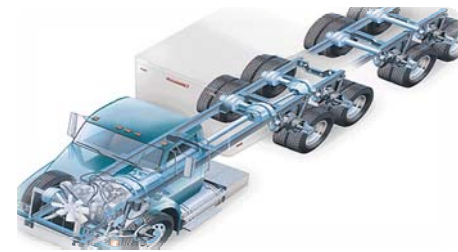
- NHTSA is currently researching benefits of
 - Yaw stability systems
 - Roll stability systems
 - Yaw + roll stability systems

▶ Heavy Truck Tires

- Upgrade to FMVSS 119
 - Upgrade endurance test
 - Add new high speed test

▶ Heavy Truck Tractor Stopping Distance

- Upgrade to FMVSS 121
 - Substantial reductions in stopping distance are achievable with current technology
- Estimate 20 to 30 percent reduction in stopping distance



Congressional Mandates

► Kids Transportation Safety Act

- Improve Rear Visibility
- Power Window Safety
- Prevent Motor Vehicle Roll Away
- Not in Traffic Surveillance – Recently Released!
 - Fatalities in Non-traffic Crashes – 1,159 (221 in Backovers)
 - Crashes that take place in driveways, parking lots, etc.
 - Fatalities in Non-crash Incidents – 588
 - Hyperthermia, Hypothermia, Trunk Entrapment, Power Window Strangulations, etc.
- Consumer Information Program

- www.nhtsa.dot.gov

Click on Traffic Safety, then Child Passenger Safety






CAFE

- **EISA mandates significant increases in the average fuel economy for light passenger vehicles, as well as other new fuel economy initiatives**
 - At least 35MPG standard for combined cars and light trucks by March 30th
- **Per President's January 26 memo--**
 - Issue MY 2011 car and light truck CAFE standards by April 1, 2009
 - Initiate data gathering and analysis necessary to develop and propose CAFE standards for MYs 2012-2016
- **Issue final rule for new rating program for tire rolling resistance by December 2009**



Roof Crush

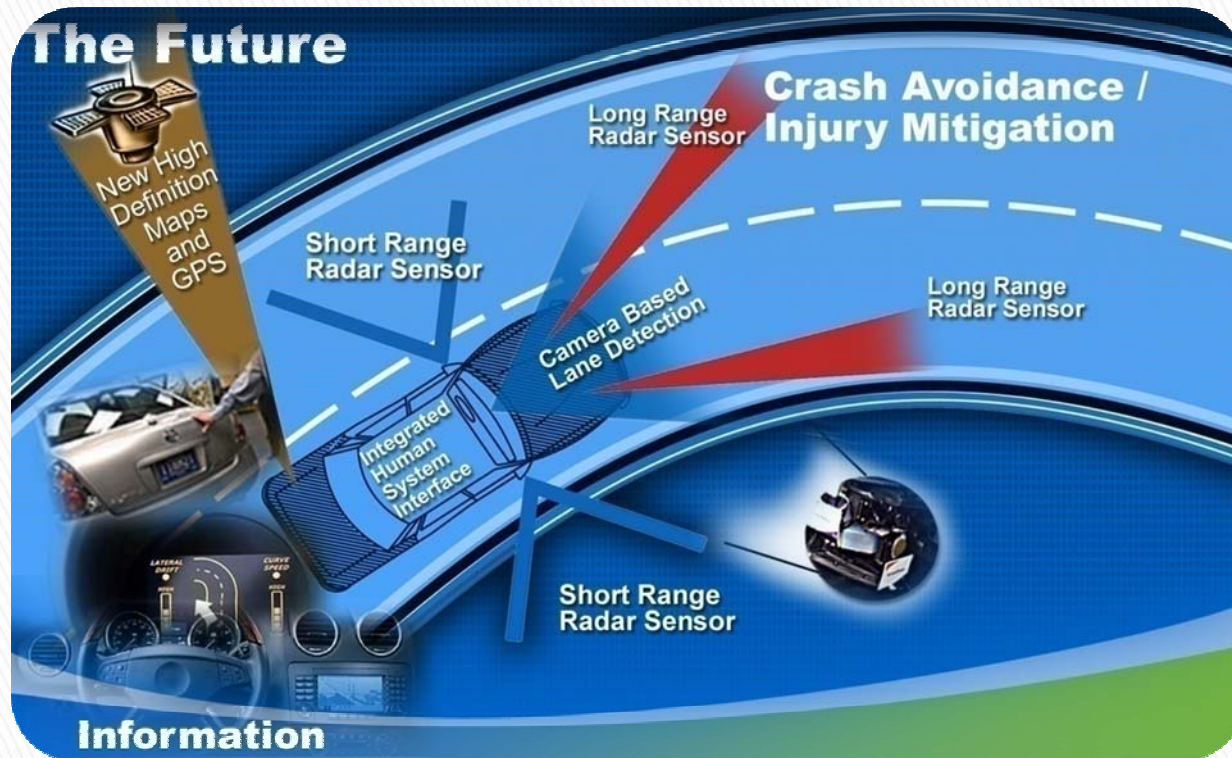
- SAFETEA-LU requires a rulemaking improving roof crush strength of motor vehicles for driver and passenger sides
- Original deadline for publication was July 1, 2008
- Informed the Congress on December 15 that because of the numerous comments received, the final rule would be issued on April 30, 2009.



Ejection Mitigation

- Final Rule due October 2009

Advanced Technology and Research



Crash Prevention

What can Advanced Technologies do to Help Prevent Crashes?

Augment driver performance

- Adaptive cruise control
- Brake assist
- Drowsy-driver monitoring
- Night Vision
- Warnings of specific types of impending crash; such as forward crash, lane/road departure, intersection, etc.

Take control of the vehicle

- Intervene when driver action would be insufficient to prevent a crash (ESC and Rollover prevention)
- Alcohol detection

Augment other vehicle systems

- DSRC - vehicle to vehicle communications

NHTSA's Role

- ▶ Continue to encourage the refinement and integration of advanced technologies
- ▶ Evaluate technology effectiveness
- ▶ Help ensure minimum performance
- ▶ Encourage the market (e.g. NCAP) where appropriate
- ▶ Regulate where appropriate

