

# 24th ESV Government Status Report

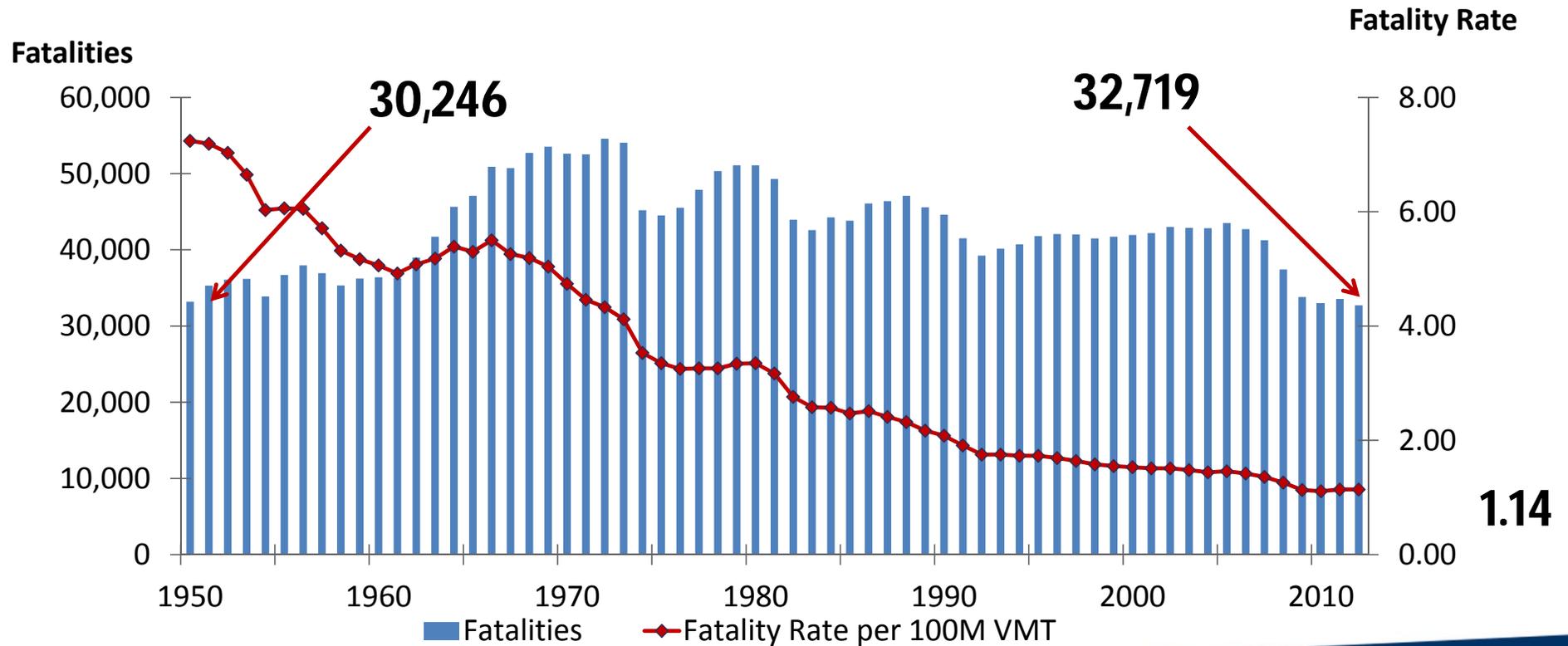


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The 24th International Technical Conference  
on the Enhanced Safety of Vehicles  
June 8-11, 2015 Gothenburg, Sweden

# U.S. Fatalities and Fatality Rate, by Year



Motor vehicle crashes cost nearly \$871 billion



# Many Recent Advances in Safety ~ US Market

## ▣ Standards recently just taking full effect or soon to take effect

- Upgraded Side Impact Standard
- Electronic Stability Control
- Improved Roof Crush Resistance
- Ejection Mitigation
- Improved Rear Visibility
- Motorcoach Seat Belts

## ▣ Enhancements to Consumer Information

- Driving improved performance without regulation
- New tests, rating protocol, and new advanced technologies

# Evolving Strategy

## ❑ Crashworthiness still Important

- Advanced dummies, new restraints, and new fuels to name a few

## ❑ Opportunities for new technologies to help

- Driver behavior very much part of the issue

## ❑ Convergence of Crash Avoidance Systems

- Crash Warning and Mitigation Systems
- Vehicle-to-vehicle communications
- Self-driving vehicles (eg limited and full)

# Key Crashworthiness Research Programs

## ▣ Crash Safety

- New Test Dummies and Crash Modes: Agency Decision 2015
- Seat Belt Reminders and Interlocks: Results in 2016
- Adaptive and Rear Seat Restraints: Results in 2016
- Research to complete rulemakings related to children 2016

## ▣ New Fuels

- Batteries: Research supporting the GTR
- Hydrogen: Research to implement the GTR

## ▣ Improving Understanding

- CIREN
- Human Body Modeling

# Key Crash Avoidance Research Programs

## ▣ Vehicle-to-Vehicle Communications

- Complete Research in 2015: Proposal in 2016

## ▣ Vehicle Automation

- Automatic Emergency Braking: Test Procedures ~ 2015
- Human Factors and Operational Concepts; Results ~ 2015

## ▣ Impairment

- Distraction Guidelines for Portable Devices: Proposal ~ 2015
- Alcohol Detection Technology: Research Vehicle ~ 2015