



# Automated Vehicles: FAV Policy Overview

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NHTSA's Vehicle Research and Test Center*

TIA Panel Session:  
Autonomy at Scale: The Policy, Technology and  
Business of Autonomous Vehicles

*November 29, 2016*



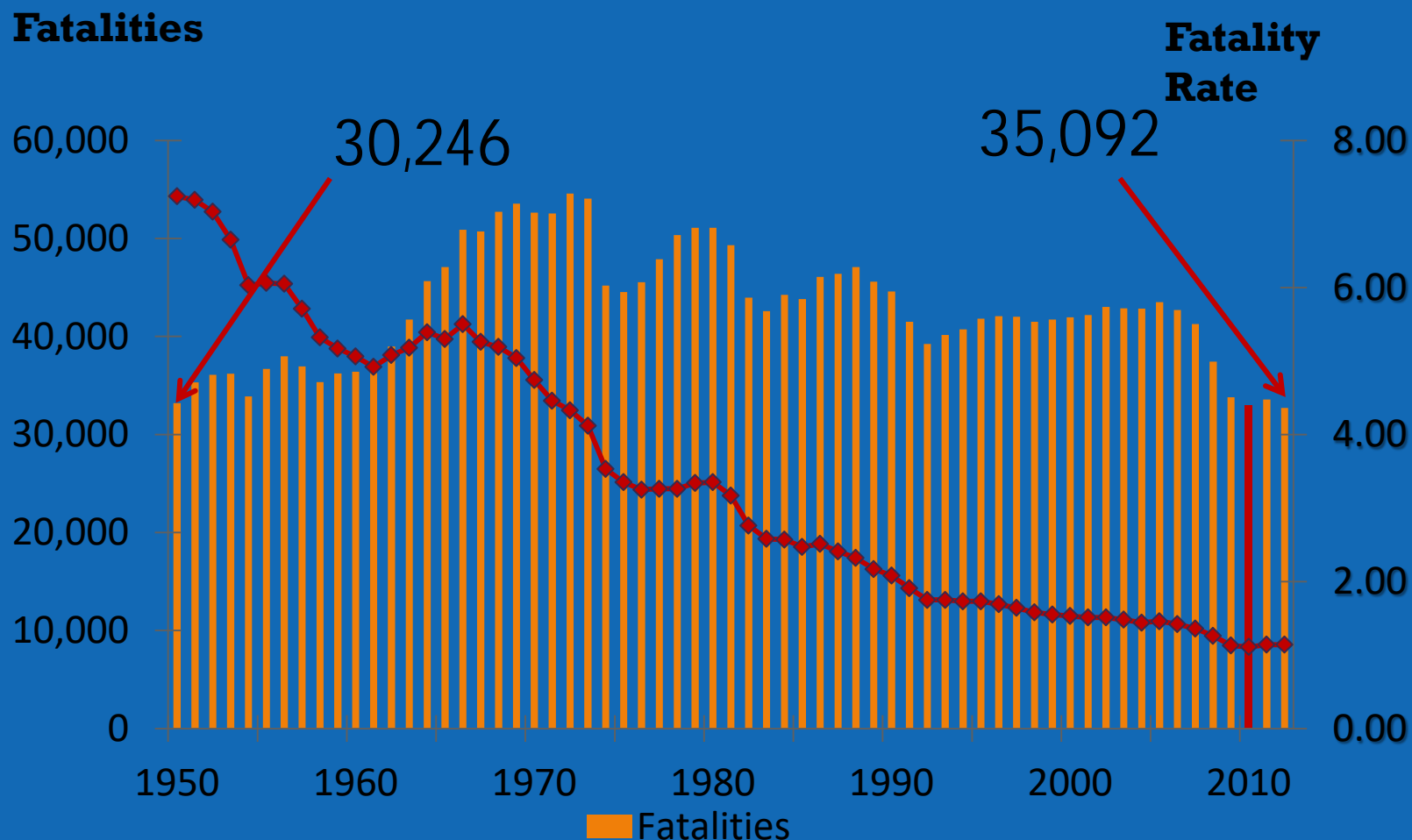
National Highway Traffic Safety  
Administration's (NHTSA's) mission is:

to save lives, prevent injuries, and reduce  
economic costs due to road traffic crashes  
through education, research, safety  
standards, and enforcement activity.

<http://www.nhtsa.gov/>



# Fatalities and Fatality Rate, by Year



Motor vehicle crashes cost nearly \$836 billion



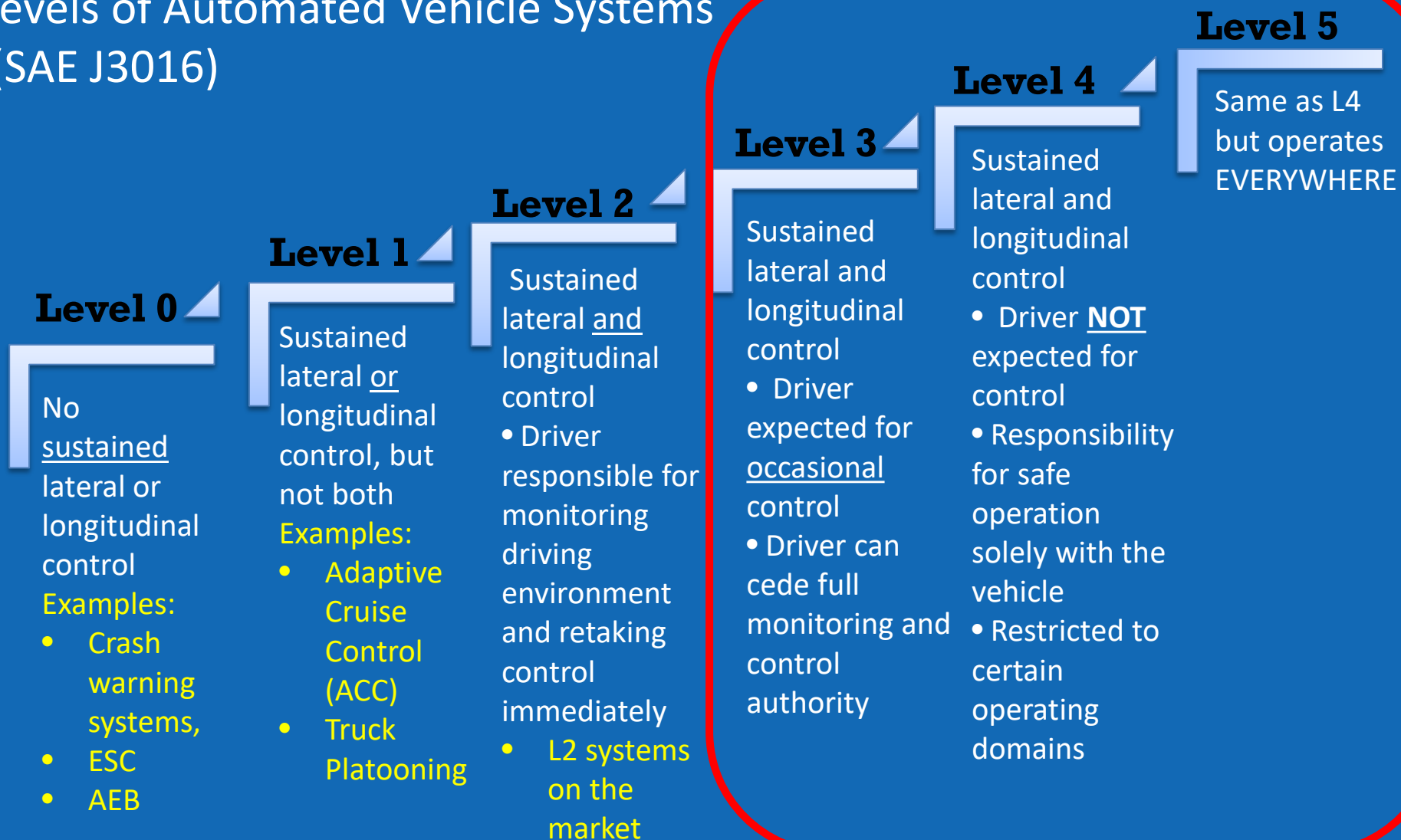
## Advanced Driver Assist Systems: What's Motivating Implementation?

- 94% of police-reported crashes involve driver error
- Data indicates safety benefits for driver assistance systems, i.e. “smart” technologies
- Government perspective
  - Vehicle crashes continue to be a leading cause of fatalities and injuries — new technologies have potential to greatly improve safety
- Industry:
  - Integration of functions, cost reduction, and tech savvy drivers will make it attractive for OEMs to say “yes” to advanced technologies



# Automated Vehicles

## Levels of Automated Vehicle Systems (SAE J3016)



- *Federal Automated Vehicles (FAV) Policy*
  - Released September 2016

[www.transportation.gov/av](http://www.transportation.gov/av)





## **FAV Policy - Main Sections**

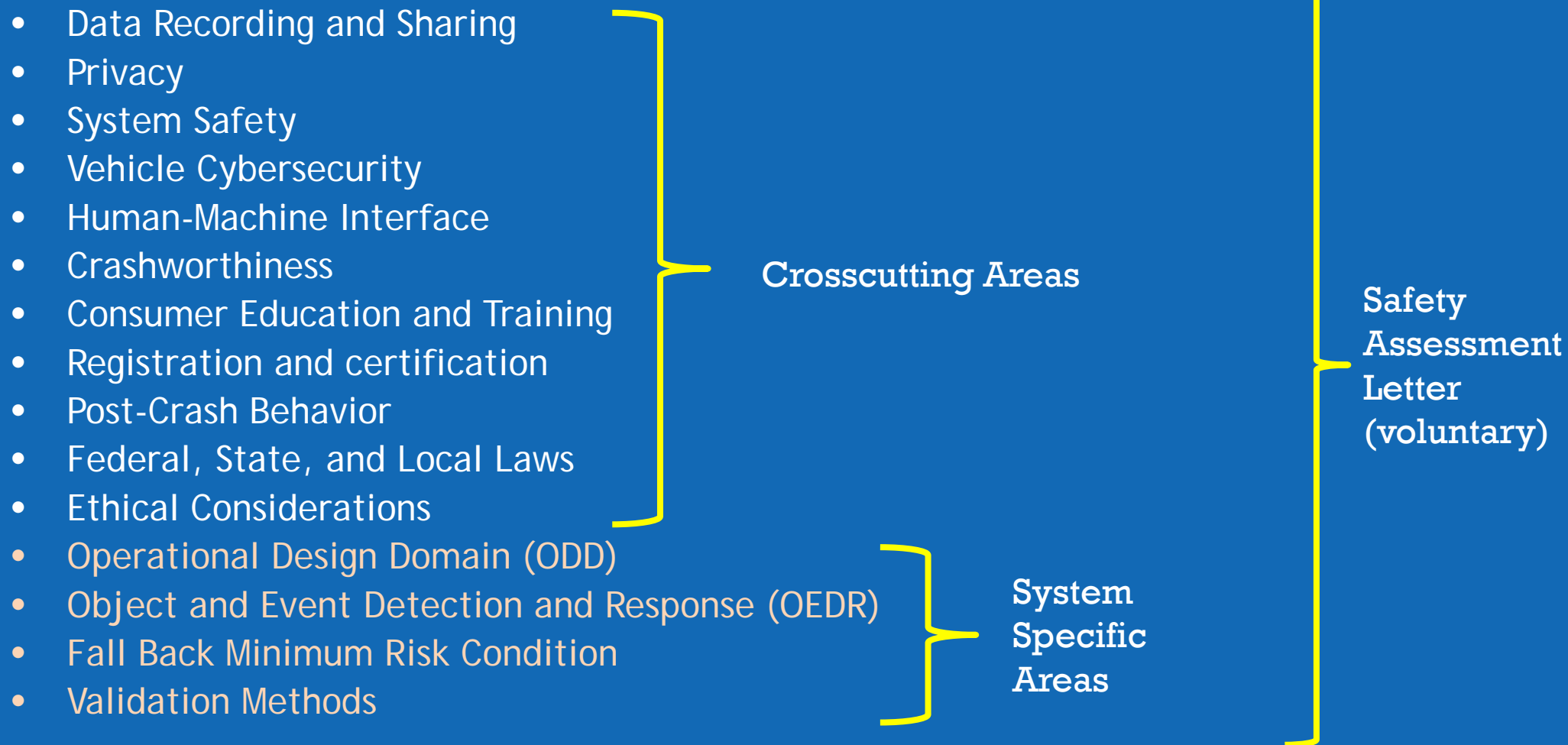
- Vehicle Performance Guidance for Automated Vehicles
- Model State Policy
- NHTSA's Current Regulatory Tools
- New Tools and Authorities

## **Levels of Automation**

- Adopts SAE International definitions (SAE J3016)



# FAV Policy: Vehicle Guidance - 15 Safety Areas





- FAV Policy Document is a first step, significant additional public input and work tasks ahead!
- Many next steps envisioned, including:
  - Request for Comments
  - Public meetings/other stakeholder engagement
  - Work plans for certain areas in vehicle guidance and state model policy sections
  - Education
  - Notice and Comment on potential changes to regulatory tools and authorities



## **FAV – Next Steps Implementation Underway:**

- Request for comments (RFC)
  - Comment period closed Nov. 22, Docket No. NHTSA-2016-0090
- Public meeting November 10, 2016, Washington DC
  - Morning session – Public comment on the four sections of the Policy
  - Afternoon session – Public comment on the Safety Assessment Letter
- Additional public meetings/stakeholder engagement planned



# Thanks for your Attention!

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