

# Automated Vehicles and the Future of Mobility

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Information Technology and Innovation Foundation

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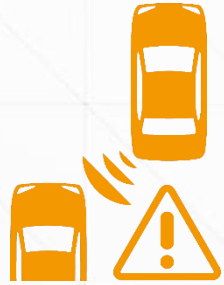
Director of Safety & Technology Policy

Alliance of Automobile Manufacturers, Inc.



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# Advanced Driver Assist Systems (ADAS)



Blind Spot  
Monitoring



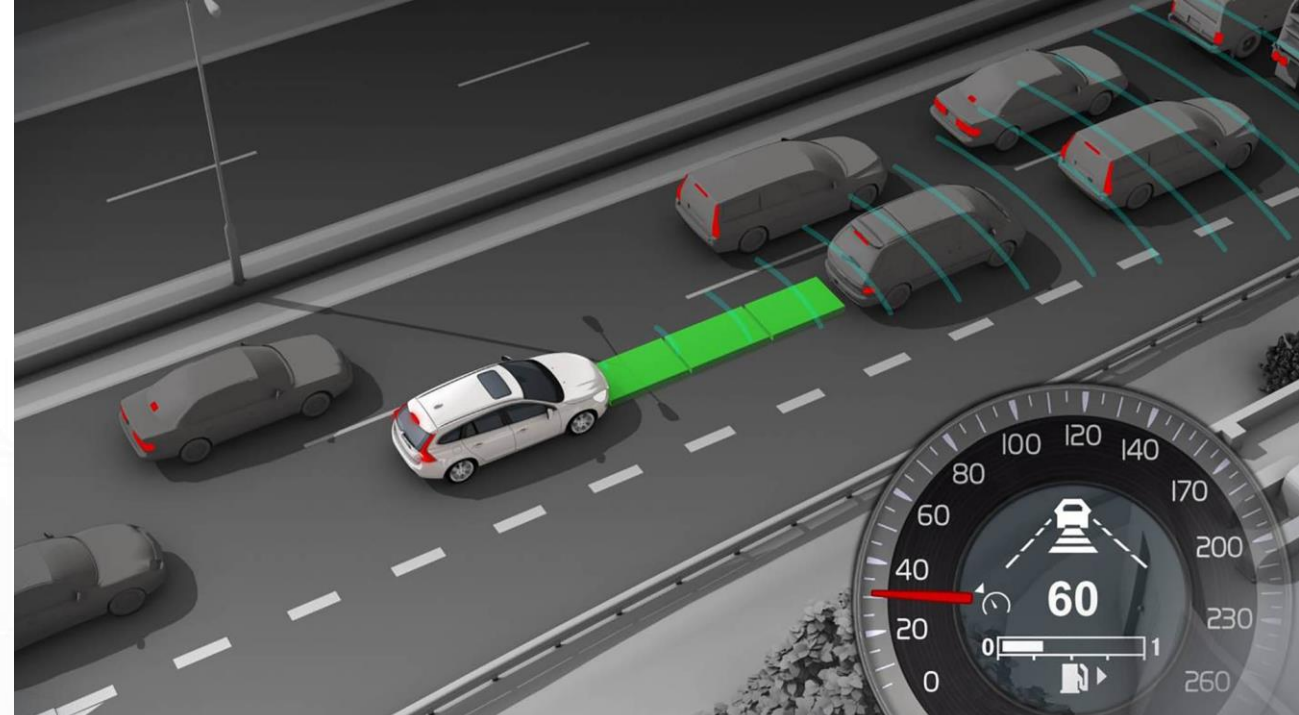
Lane Keeping  
Assistance



Adaptive  
Cruise Control



Parking Assist



# **FOUR TRENDS:**

- 1. Increasing automation and connectivity**
- 2. New entrants and partnerships**
- 3. Ride sharing and advanced mobility services**
- 4. Increasing vehicle safety**



# 1. Increasing automation and connectivity



# SAE Levels of Driving Automation

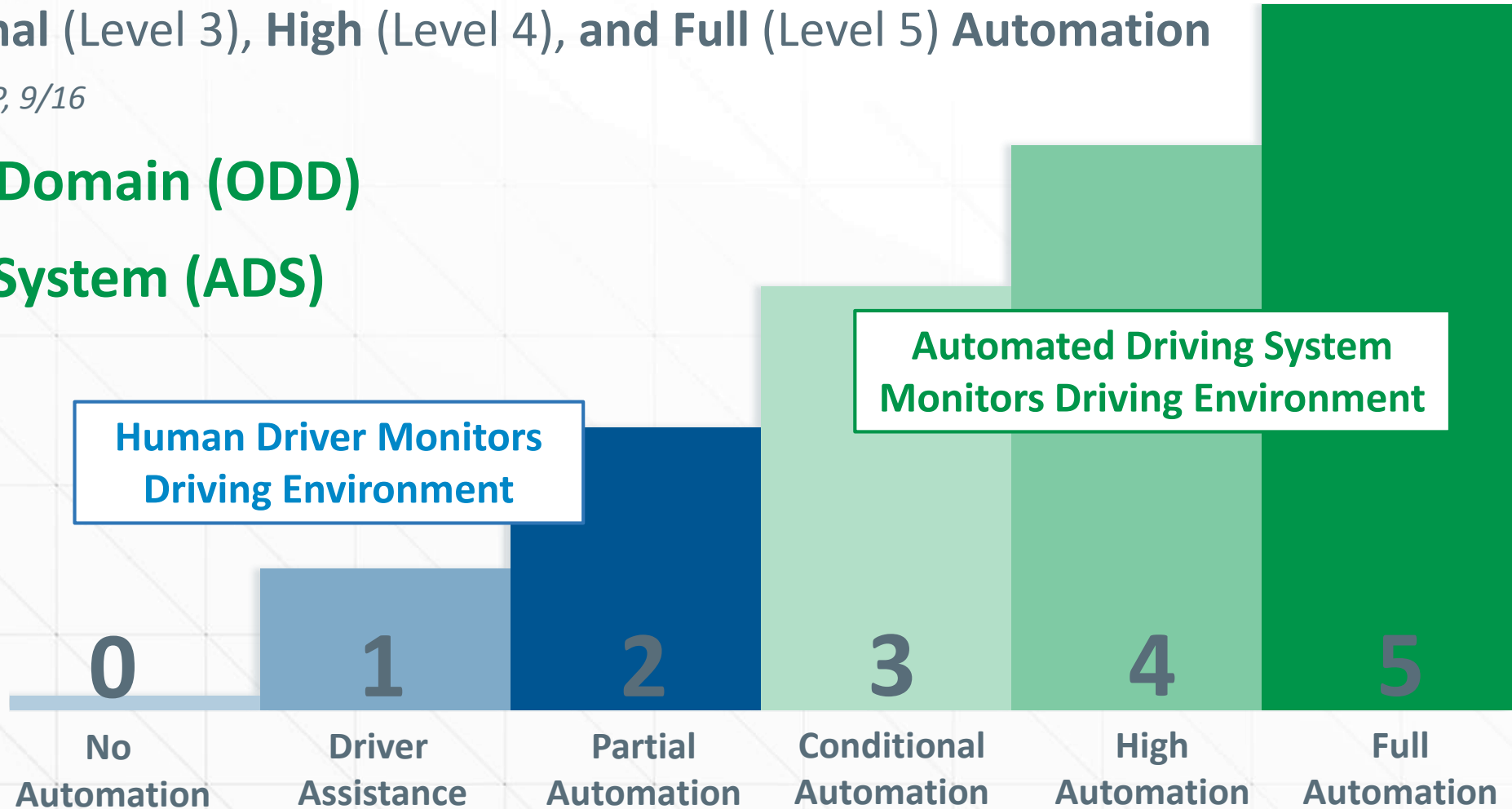
**Highly Automated Vehicles (HAVs):** These are systems that rely on the automation system (not on a human) to monitor the driving environment. Vehicles that contain systems referred to as **Conditional (Level 3), High (Level 4), and Full (Level 5) Automation** in SAE J3016. —NHTSA FAVP, 9/16

**Operational Design Domain (ODD)**

**Automated Driving System (ADS)**



Levels of Driving Automation



## 2. New entrants and partnerships



### **3. Ride sharing and advanced mobility services**

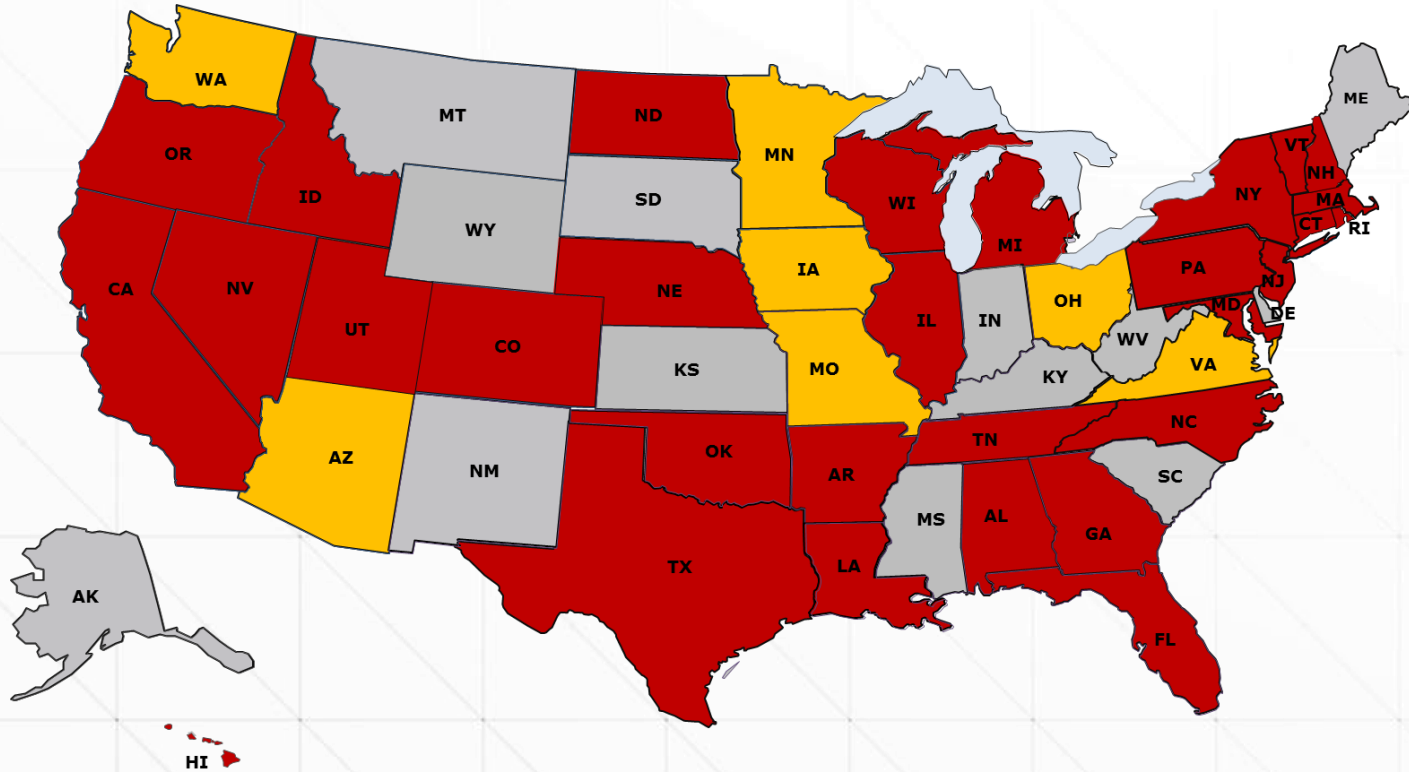


## 4. Increasing vehicle safety





# Policy Recommendation



**Confirmed**      **Possible**

... In 2017 the Auto Alliance has tracked 70 bills in 30 states regarding autonomous vehicles

Federal Automated Vehicles Policy  
*Accelerating the Next Revolution  
In Roadway Safety*  
September 2016

U.S. Department of Transportation  
NHTSA  
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION



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