

613,501

Lives Saved by Vehicle Safety Technologies and Associated Federal Motor Vehicle Safety Standards, 1960-2012 (DOT HS 812 069 - Published in Jan, 2015)



Most Recent US Fatality Data (2013-2015)

	2013	2014	2015	% change (14-15)
Passenger Vehicle Occupants	21,132	21,050	22,241	+6.6%
Large Truck and Bus Occupants	691	656	667	+1.7%
Motorcyclists	4,668	4,594	4,976	+8.3%
Pedestrians	4,735	4,910	5,376	+9.5%
Pedalcyclists	743	729	818	+12.2%
Total*	32,719	32,744	35,092	+7.2%

9,874 passenger vehicle occupants unrestrained 10,265 killed in drunk driving crashes



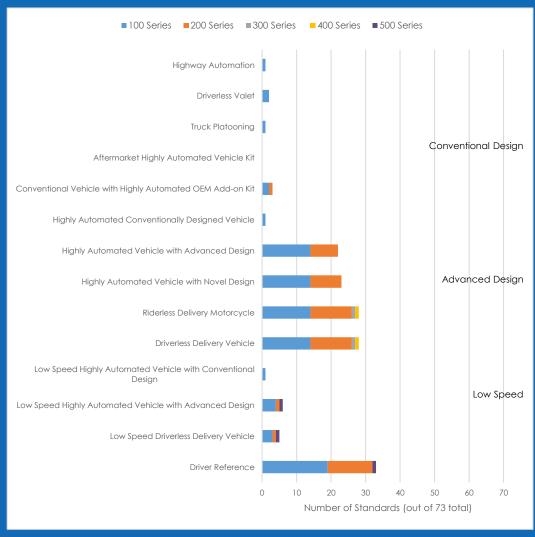


January 2016 USDOT/NHTSA Announcement:

- Accelerate Vehicle Safety Innovations:
 - Focus on:
 - Vehicle Guidance
 - Model State Policy
 - Current regulatory tools
 - Identify potential new tools and authorities



Do Current Regulations Need to Change?



Review of Federal Motor Vehicle Safety Standards for automated vehicles, http://ntl.bts.gov/lib/57000/57000/57076/Review FMVSS AV Scan.pdf





Public Input:

- Public Meetings
 - April 8 (USDOT, Washington, DC)
 - April 27 (Stanford, CA)
 - Participation
 - In-person attendance
 - Technical remarks by attendees
 - Written comments
- Many additional stakeholder meetings
- Agency sought input on several topic areas





Result:

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

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- 60-day public comment period
 - Request for Comments (RFC) published on Sept 23, 2016
 - Docket No. NHTSA-2016-0090 (Document No. 2016-22993)
 - Comment period closes November 22, 2016



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

- Data Recording and Sharing
- Privacy
- System Safety
- Vehicle Cybersecurity
- Human-Machine Interface
- Crashworthiness
- Consumer Education and Training
- Registration and certification
- Post-Crash Behavior
- Federal, State, and Local Laws
- Ethical Considerations
- Operational Design Domain (ODD)
- Object and Event Detection and Response (OEDR)
- Fall Back Minimum Risk Condition
- Validation Methods

Crosscutting Areas

System Specific Areas





FAV Policy - Safety Assessment Letter

- Outlines how manufacturers/other entities meet the 15 safety areas
- Additional letters if hardware or software changes materially change one or more of the 15 areas
- Letter is voluntary
 - HAVs (SAE L3-L5)
 - L2





FAV - Next Steps

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





For More Information

USDOT Public Website for FAV Guidance:

www.transportation.gov/av