



U.S. Department of Transportation

**Federal Motor Carrier Safety Administration**

# **Automated Driving Systems (ADS) Policy Development for Commercial Vehicle Operations**

**2020 Transportation Research Board 99<sup>th</sup> Annual Meeting  
Federal Motor Carrier Safety Administration  
Analysis, Research, and Technology Forum  
January 14, 2020**

# DOT's AV 3.0

- On October 4, 2018, the Department published “*Preparing for the Future of Transportation: Automated Vehicles 3.0*,” (AV 3.0).
- Builds upon “*Automated Driving Systems 2.0: A Vision for Safety*” (AV 2.0).
- Expands the scope to all on-road transportation systems.
- Continues the commitment to making the regulatory process more nimble to help match the pace of private sector innovation.

<https://www.transportation.gov/av/3>



U.S. Department of Transportation

*Automated Vehicles 3.0*

# **PREPARING FOR THE FUTURE OF TRANSPORTATION**



# DOT's AV 3.0 (*continued*)

AV 3.0 is structured around three key areas:

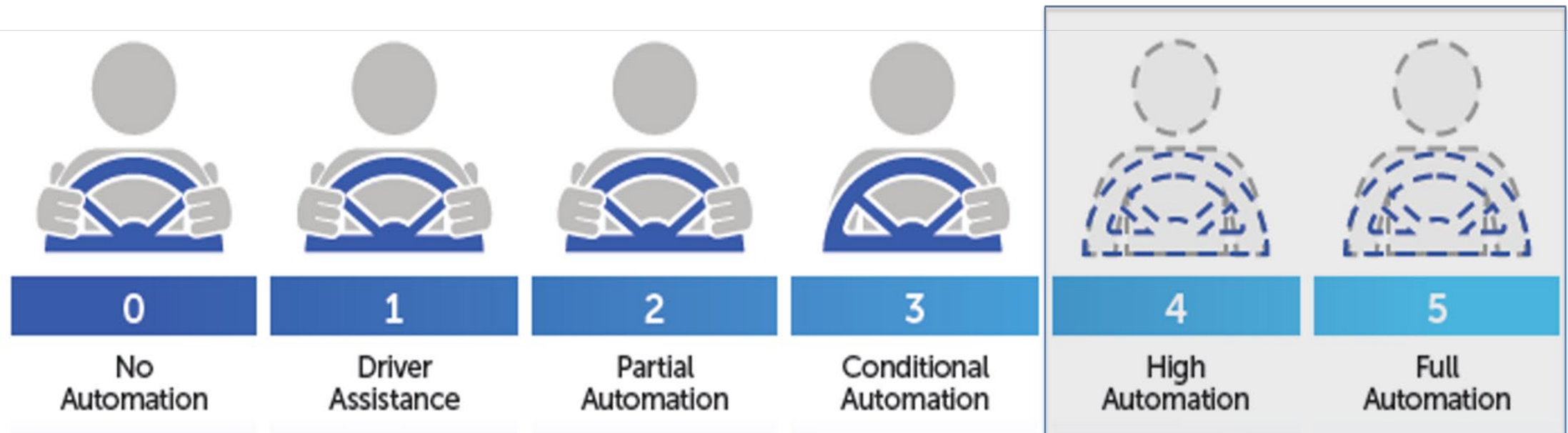
1. Advancing multi-modal safety;
2. Reducing policy uncertainty; and
3. Outlining a process for working with the Department of Transportation.

# Operating ADS-Equipped CMVs under Existing Regulations

“In general, subject to the development and deployment of safe ADS technologies, the Department’s policy is that going forward FMCSA regulations will no longer assume that the CMV driver is always a human or that a human is necessarily present onboard a commercial vehicle during its operation.”

# Levels of Automation of Greatest Interest: No Driver at the Controls

- **SAE Level 4, High Driving Automation:** The vehicle is capable of performing all driving functions under certain conditions. The driver may have the option to control the vehicle.
- **SAE Level 5, Full Driving Automation:** The vehicle is capable of performing all driving functions under all conditions.





# FMCSA's Advance Notice of Proposed Rulemaking (ANPRM)

## Safe Integration of Automated Driving Systems—Equipped Commercial Motor Vehicles (*RIN 2126-AC17*)

**Published:** May 28, 2019.

**Summary:** FMCSA requests public comment about Federal Motor Carrier Safety Regulations (FMCSRs) that may need to be updated, modified, or eliminated to facilitate the safe introduction of automated driving systems (ADS) equipped commercial motor vehicles (CMVs) onto our Nation's roadways.

# ANPRM – Looking at the FMCSRs



## CODE OF FEDERAL REGULATIONS

### **Title 49**

#### Transportation

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Parts 300 to 399

Revised as of October 1, 2017

Containing a codification of documents  
of general applicability and future effect

As of October 1, 2017

Published by the Office of the Federal Register  
National Archives and Records Administration  
as a Special Edition of the Federal Register

- Licensing and Driver Qualifications (Parts 383 & 391)
- Safe Driving (Part 392)
- Parts and Accessories (Part 393)
- Hours of Service (Part 395)
- Inspection, Repair and Maintenance (Part 396)
- Hazardous Materials (Part 397)



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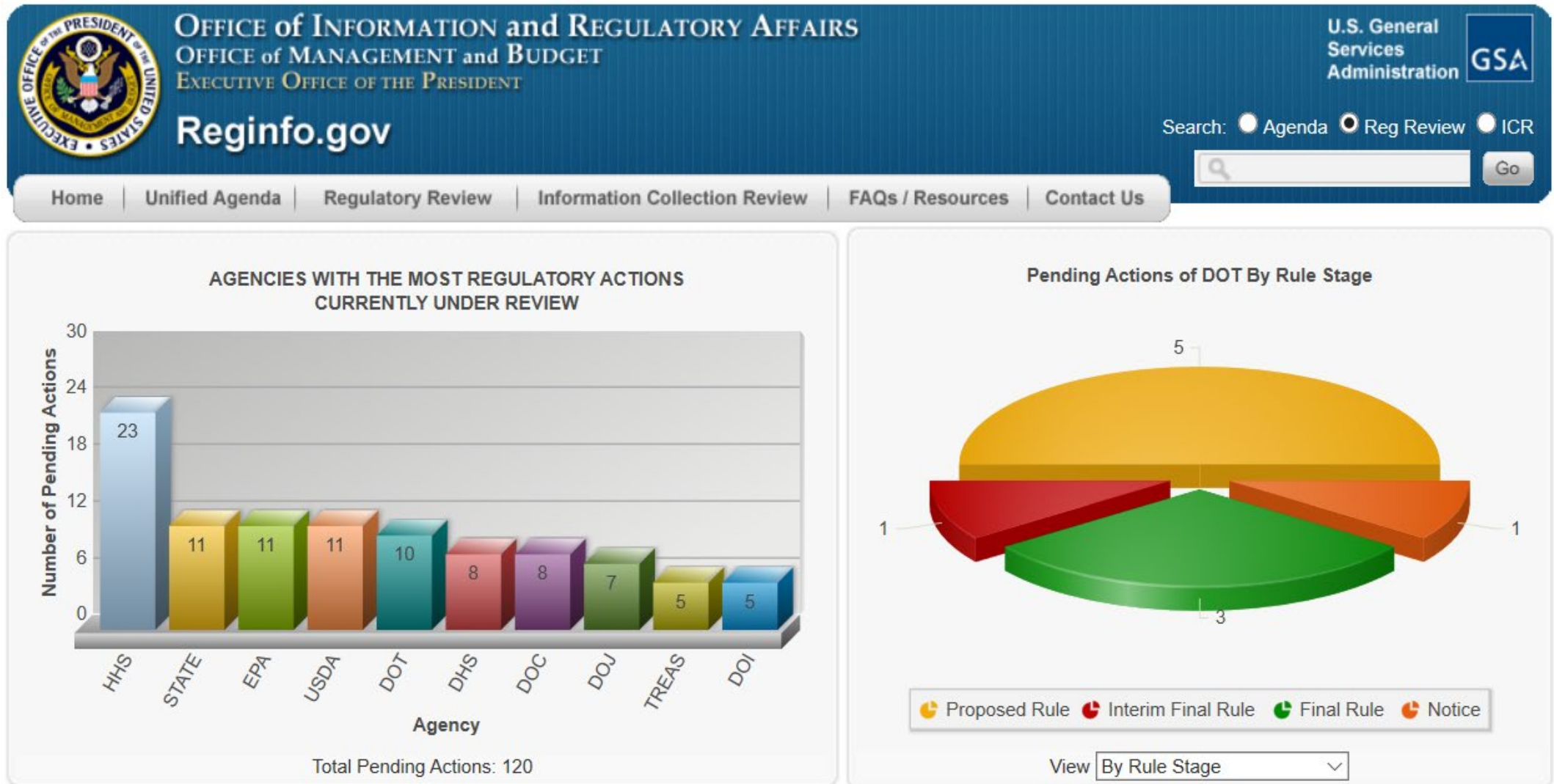
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#### Automated Driving Systems (ADS) for Commercial Motor Vehi...

**Agency:** Federal Motor Carrier Safety Administration (FMCSA)

**Summary:** Automated Driving Systems (ADS) for Commercial Motor Vehicles (CMVs); Request for Comments Concerning Federal Motor Carrier Safety Regulations (FMCSRs) Which May Be a Barrier to the Safe Testing and Deployment of ADS-Equipped CMVs on Public Roads

# https://www.reginfo.gov



<http://www.dot.gov/regulations/report-on-significant-rulemakings>

The screenshot shows the United States Department of Transportation website. The header includes the DOT logo, the text 'United States Department of Transportation', a search bar, and navigation links for 'About DOT', 'Our Activities', and 'Areas of Focus'. The main content area is titled 'RULEMAKING REPORT' and features a left sidebar with a navigation menu. The menu items are: 'Regulations', 'Rulemaking Process', 'Reports on Rulemakings and Enforcement' (which is expanded to show 'Report on DOT Significant Rulemakings', 'Reports on Effects of DOT Rulemakings', and 'Regulatory Enforcement and Compliance Data'), 'Special Programs and Policies', 'Plain Language', and 'Pilot Project on e-Rulemaking'. The main content area displays the breadcrumb 'Home > Regulations', the title 'Report on DOT Significant Rulemakings', and an 'Overview' section. The overview text states: 'The Significant Rulemakings Report provides a summary and the status for all significant rulemakings that DOT currently has pending or has issued recently. We update the Report at the beginning of each month. The information in the Report is not intended to commit DOT to specific conclusions or actions. For example, after further analysis, DOT may decide the effects of the rule would be different or it may decide to terminate the rulemaking.' Below this is a section titled 'Access to the Report'. The right sidebar contains a 'Contact Us' section with the name 'Adonna Valpando', her title 'Office of the General Counsel', address '1200 New Jersey Avenue, SE, Washington, DC 20590', email 'Adonna.Valpando@dot.gov', phone '1 (202) 366-4723', and business hours '9:00am-5:00pm ET, M-F'. There is also a 'Tags' section with the tag 'Rulemaking' and a 'Share' section with social media icons and a 'Submit Feedback' button.

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Plain Language

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# Report on DOT Significant Rulemakings

## Overview

The Significant Rulemakings Report provides a summary and the status for all significant rulemakings that DOT currently has pending or has issued recently. We update the Report at the beginning of each month. The information in the Report is not intended to commit DOT to specific conclusions or actions. For example, after further analysis, DOT may decide the effects of the rule would be different or it may decide to terminate the rulemaking.

## Access to the Report

### Contact Us

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# Questions

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