



# NHTSA

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

## Automated Driving System Safety Overview of NHTSA Activities

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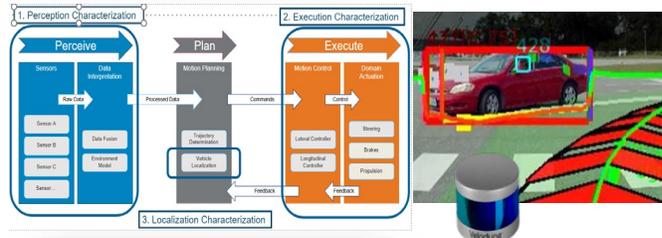
January 18, 2023

# NHTSA Automated Driving System Research



## System Safety Performance

Test track, simulation, & on-road methods development; Testable cases; Safety metrics and measures



## Subsystems Testing and Functional Safety

Sensor capabilities/limitations; Perception, localization, and maneuver execution



## Crashworthiness

Alternative seating configurations, Advanced test dummies; Unoccupied vehicle compatibility



## Human Factors

Human Machine Interfaces; Driver Monitoring Systems; Accessibility of ADS for all; Teleoperations

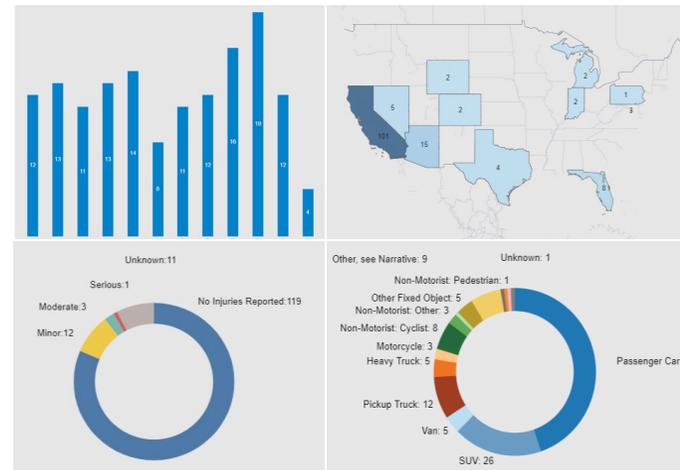
# Standing General Order – Public Road Crash Notifications involving L2+ Driving Automation

- Issued June 2021
- Data Release – Initial June 2022
  - Summary Reports
  - Dashboards
  - Data Files
  - FAQs
  - Data Limitations
- As of mid-December 2022
  - 227 reported ADS-equipped vehicle crashes
  - 763 reported Level 2 ADAS-equipped vehicle crashes

## Summary Report: Standing General Order on Crash Reporting for Automated Driving Systems

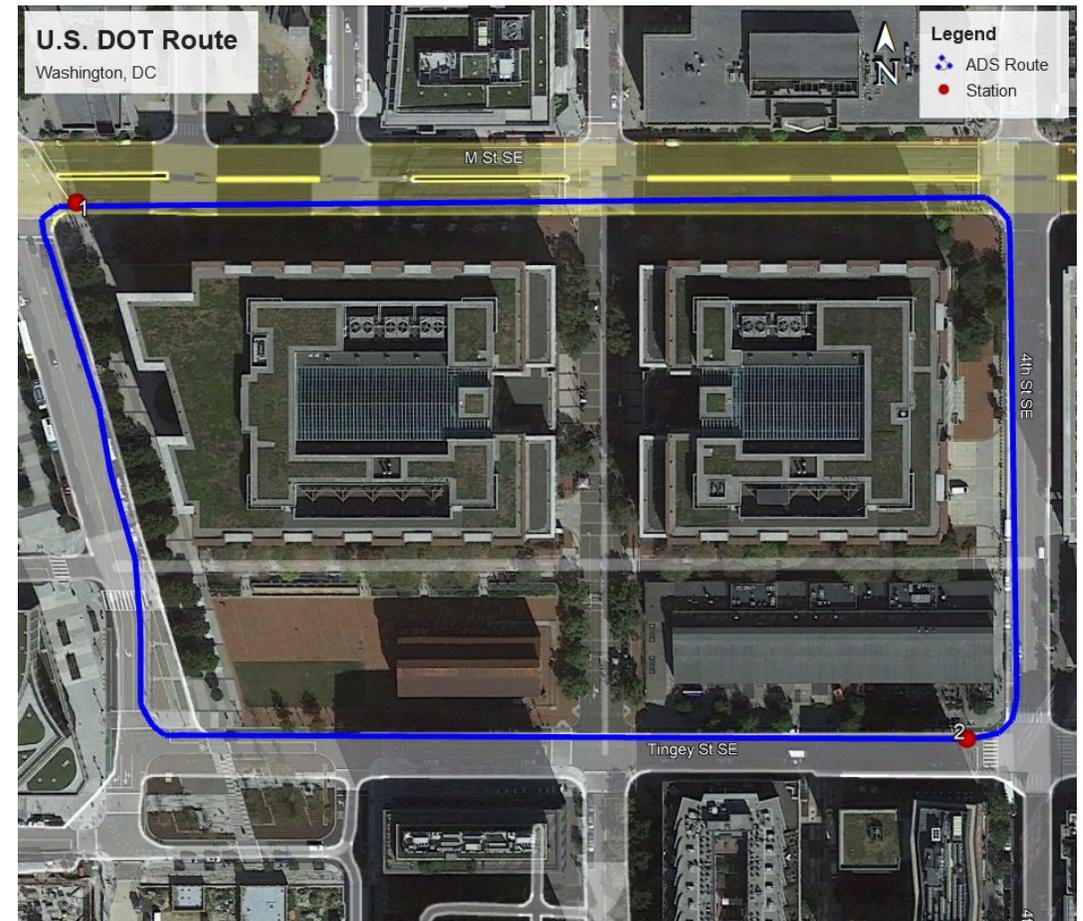
### Introduction

In June 2021, the National Highway Traffic Safety Administration (NHTSA) issued a Standing General Order (the General Order) requiring specific manufacturers and operators (reporting



# Import Exemption Program

- Temporary importation permission (49 U.S.C. § 30114(a) and 49 CFR Part 591) for:
  - Research
  - Investigations
  - Demonstrations
  - Training
  - Competitive racing events
  - Show
  - Display
- Since October 2016
  - 264 ADS-equipped vehicles
  - 150+ different sites
  - 23 states
- Currently
  - 157 vehicles with on-road permissions
- Applications
  - 80-100 per year



# ADS-Related Rulemaking Activities

## September 2022 Significant Rulemaking Report:

<https://www.transportation.gov/regulations/september-2022-significant-rulemaking-report>

National Highway Traffic Safety Administration

### 78. Occupant Protection for Automated Driving Systems

**Popular Title:** Occupant Protection for ADS

**RIN 2127-AM06**

**Stage:** Completed Action

**Abstract:** This action addresses the crashworthiness regulations that may be necessary to facilitate the certification of new vehicle designs equipped without driver controls.

#### Dates for Final Rule:

Action	Publication Date	FR Cite
NPRM	03/30/2020	85 FR 17624
NPRM Comment Period End	05/29/2020	
Final Rule	03/30/2022	87 FR 18560
Final Rule Effective	09/26/2022	

## Exemptions



# NHTSA ADS International Activities

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## United Nations Economic Commission for Europe

- WP 1 – Road Traffic Safety
- WP 29 – Vehicle Regulations
  - Working Party on Automated/Autonomous and Connected Vehicles (GRVA) and various sub-groups



- EU-US-Japan Trilateral Automation in Road Transport Work Group



## NHTSA Research Days

NHTSA Safety Research Portfolio Public Meeting: Fall 2022 -  
<https://www.nhtsa.gov/events/research-public-meeting-2022>

Docket No. NHTSA-2022-0091



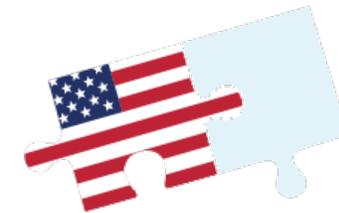
<https://rosap.ntl.bts.gov/>



27<sup>th</sup> ESV 2023  
 YOKOHAMA, JAPAN

Yokohama, Japan, April 3-6, 2023

[www-esv.nhtsa.dot.gov](http://www-esv.nhtsa.dot.gov)



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**January 25, 2023, 10 am-4 pm,**

[careereco.com](http://careereco.com)



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