

Submitted by the representative of the United States

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Agenda item 2.3

NHTSA Research Overview: Automation, ADAS, and Human Factors

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Automated Driving Systems

Core Research Areas:

1. Support Regulatory Decision on the Removal of Potential Barriers
2. System Safety Performance
3. Functional Safety of ADS Subsystems
4. Crashworthiness

Advanced Driver Assistance Systems (ADAS)

Core Research Areas:

1. Development of Objective Test Procedure and Performance Guidance
2. Evaluation of System Reliability, Unintended Consequences, and Safety Benefits
3. Crash Avoidance Component Technology and Enabling Systems Research
4. Addressing Regulatory Barriers for Emerging Driver Assistance Systems

Human Factors

Core Research Areas:

1. Human-Machine Interfaces (HMI) and Accessibility
2. Driver Readiness
3. Driver Adaptation to Advanced Technologies
4. Human Factors Performance Measures, Test Methods, and Analysis Methods