

A Path Toward Consistent Automated Vehicle Policy

Advancements in connected and automated vehicles (AVs) present significant opportunities for improving safety, mobility, and sustainability. It is imperative that we have the right regulatory framework that will foster innovation and investment in this life-saving technology. Global Automakers welcomes NHTSA demonstrating federal leadership through its “Operational Guidelines” and “Model State Policy” for automated vehicles. Global Automakers is committed to working with federal and state policymakers to ensure a consistent national framework for AV technologies that promotes innovation and allows manufacturers to design, produce, and sell the same vehicles across all 50 states.

NHTSA Has Shown Federal Leadership with its AV Guidance

The National Highway Traffic Safety Administration (NHTSA) is the expert federal agency that regulates the safe design and performance of motor vehicles. NHTSA has taken proactive steps to address automation and ensure public safety.

- **A “Nimble and Flexible” Approach:** NHTSA’s AV Guidance recognizes that the pace of technology makes traditional regulation outdated and unable to keep up.
- **Promote Consistent Policy:** NHTSA’s Model State Policy presents a clear distinction between federal and state responsibilities, and creates a consistent national framework for testing and operation of autonomous vehicles.
- **Conduct Research:** NHTSA continues to evaluate issues related to driver behavior, AV performance, and the testing and evaluation of automated systems.
- **Put Safety First:** NHTSA has affirmed its authority to address the safety of AV systems, and can recall or prohibit the sale of vehicles when deemed to be an unreasonable risk to safety.

State Policymakers Can Support Testing and Deployment of AVs

States should not pass laws impacting the design or performance of AVs, which is a federal responsibility. However, states can focus on other efforts to encourage innovation and investment in these new technologies.

- **Eliminate Barriers to Innovation:** States should review their existing laws to ensure that there are no unnecessary barriers to the testing and deployment of AVs on their roads.
- **Promote AV Testing:** AV systems will need to be tested under a variety of real-world conditions. Policymakers should work with regulators and industry partners to identify practical approaches to encourage testing.
- **Get Involved:** Vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) technology using Dedicated Short Range Communications (DSRC) in the 5.9 GHz spectrum band is the next step in automobile safety. State policymakers should reach out to the Federal Communications Commission to ensure that the “Safety Spectrum” is preserved.

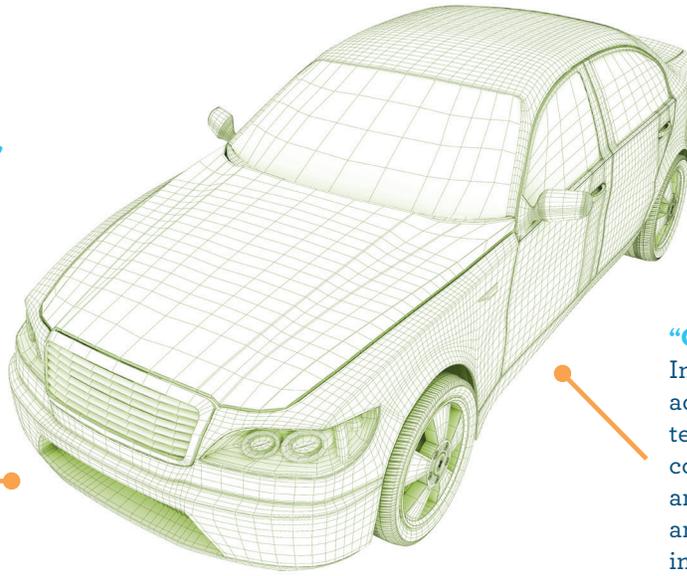
According to the National Highway Traffic Safety Administration, 94% of crashes are associated with human error. Automated vehicles have the potential to prevent or mitigate almost 19 out of every 20 crashes.

The Future of Cars is Already Here

Automated vehicle technologies that are foundational to the development of more highly automated self-driving systems are already on the road today.

“Braking and Acceleration”

Sensor-based technologies such as **Adaptive Cruise Control** and **Automatic Emergency Braking** can adjust vehicle speed and apply brakes to avoid potential collisions.



“Keeping in Lane”

Lane Change Assist, **Lane Keeping Assist**, and **Blind Spot Monitoring** can all help keep the vehicle in lane and navigate through traffic.

“Connected Automation”

Increased connectivity and advanced communications technologies allow cars to communicate with each other and surrounding infrastructure, and provide the driver with information to help avoid crashes, improve traffic flow, and increase efficiency.

The Paths to Full Automation:

Increasingly advanced automated features provide the foundation for a wide range of semi-autonomous and fully-autonomous vehicles.



Driver Assistance Systems

Automated features such as Automatic Emergency Braking and Lane Keeping Assist can help the driver in certain critical situations by either automatically applying the brakes to avoid or lessen the severity of an imminent collision, or providing corrective steering measures to keep the vehicle in its travel lane. Even with these systems, the driver remains in control at all times.



Advanced Automation

With advanced automation, the driver may relinquish control of the vehicle in certain driving conditions, but must monitor the performance of the automated systems. These features provide greater assistance to the driver by simultaneously performing the steering, braking, and acceleration. The role of the driver can vary depending on the level of automation, but drivers should be available to resume control.



Highly Automated

The concept of a “driverless” or self-driving car will become closer to reality with advances in artificial intelligence and advanced automation systems. Such vehicles will have the ability to navigate the roadway environment without the need for control or monitoring by a human driver.

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About Global Automakers | The Association of Global Automakers represents international motor vehicle manufacturers, original equipment suppliers, and other automotive-related trade associations. We work with industry leaders, legislators, and regulators to create the kind of public policy that improves vehicle safety, encourages technological innovation, and protects our planet. Our goal is to foster a competitive environment in which more vehicles are designed and built to enhance Americans' quality of life. Learn more at www.globalautomakers.org and follow us at [@globalautomkr](https://twitter.com/globalautomkr) and facebook.com/GlobalAutomakers.

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