America Loses Too Many Lives On Our Roads

In 2019, more than 36,000 people died on U.S. roads in vehicular crashes. That's nearly 100 people every day.

- One of the leading causes of death for children and teens
- 1 person dies every 50 minutes from drunk driving
- More than 2,800 lives are lost each year to distracted driving
- Nearly 14% of crashes involve a truck, with 1 in 3 long-haul truck drivers experiencing a serious crash in their career

NHTSA estimates over 90% of motor vehicle crashes are caused by human error:

- Speeding & reckless driving
- Alcohol
- Fatigue
- Distracted driving

Autonomous vehicles offer an opportunity to dramatically improve public safety on U.S. roads and highways.

Safety Is the AV Industry's Top Priority

The AV industry thinks comprehensively and holistically about how best to develop and test this technology. Every simulation, every test on a public road, every rider survey helps the technology to get better and better.

AVs will be safer than other vehicles because:

- AVs don't speed
- AVs are programmed to be "model drivers"
  - Avoid passing vehicles on the right
  - Avoid blocking an intersection
  - Stay out of other drivers' blind spots
  - Cautious with unpredictable movements of cyclists and pedestrian
- AV technology is building toward an ability to predict errors and drive better than humans
- Zero-occupant delivery vehicles reduce the number of people on the road

AV companies submit voluntary safety reports to NHTSA, providing detailed information about the technology and the steps they are taking to maximize safety. Specific safety considerations include:

- Rigorous simulated and real-world testing of all software, hardware, sensors and vehicles
- Compliance with all federal, state and local laws
- Testing under the supervision of trained human safety drivers and ensuring vehicles can always come to a safe stop
- Technology that provides 360-degree views of dynamic and static objects around each vehicle, including other vehicles, pedestrians, cyclists and road infrastructure

On-Road Testing is Crucial to AV Development

The safe and successful development of AVs relies on testing in a wide variety of scenarios, including both computer simulation and real-world testing. The AV industry develops the technology using a combination of computer simulations, closed track testing and public roads. All types of testing are critical to the technology's advancement, but there is no substitute for the data and validation that comes from real-world testing.