



Safety in the Age of Connected Mobility

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AAA Club Alliance

Automated Vehicles: Overview



When? Where? How?

- 5, 10, 20 years or longer

Why?

- Safety
- Societal
- Congestion

Challenges

Consumer Understanding/Acceptance

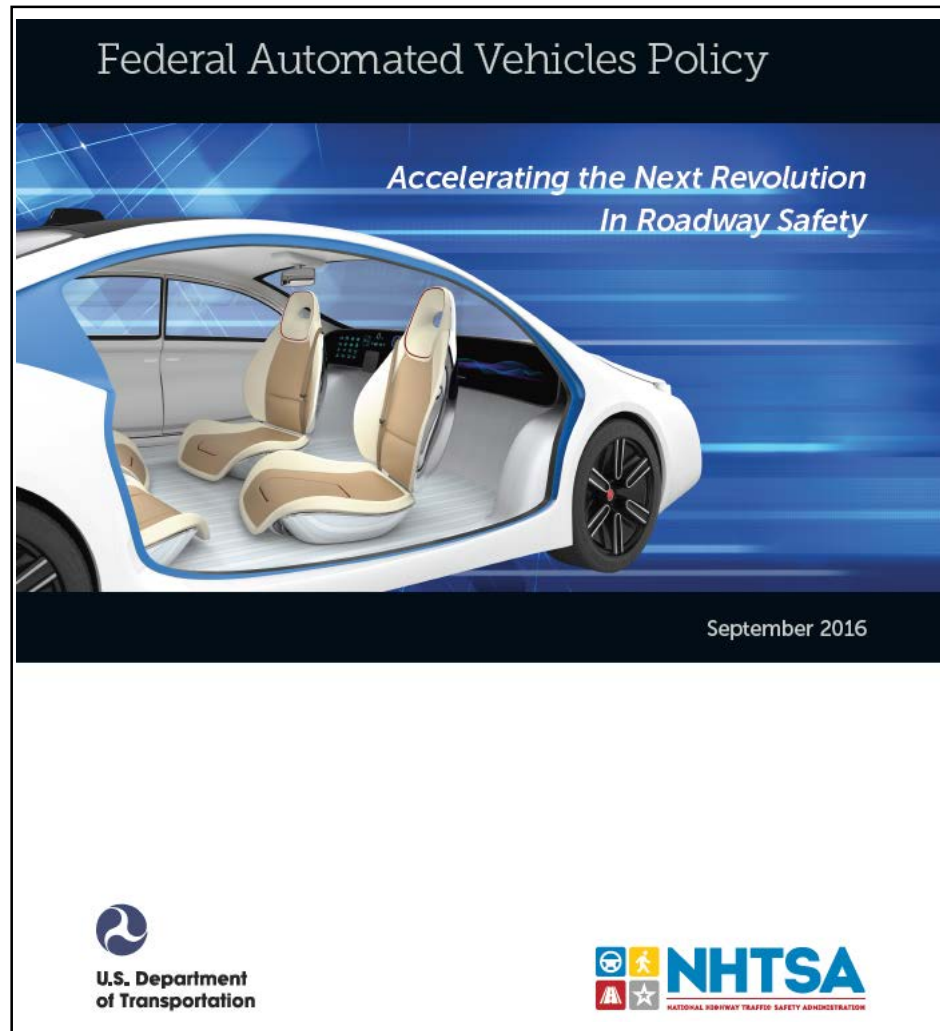


Automated Vehicles: Challenges

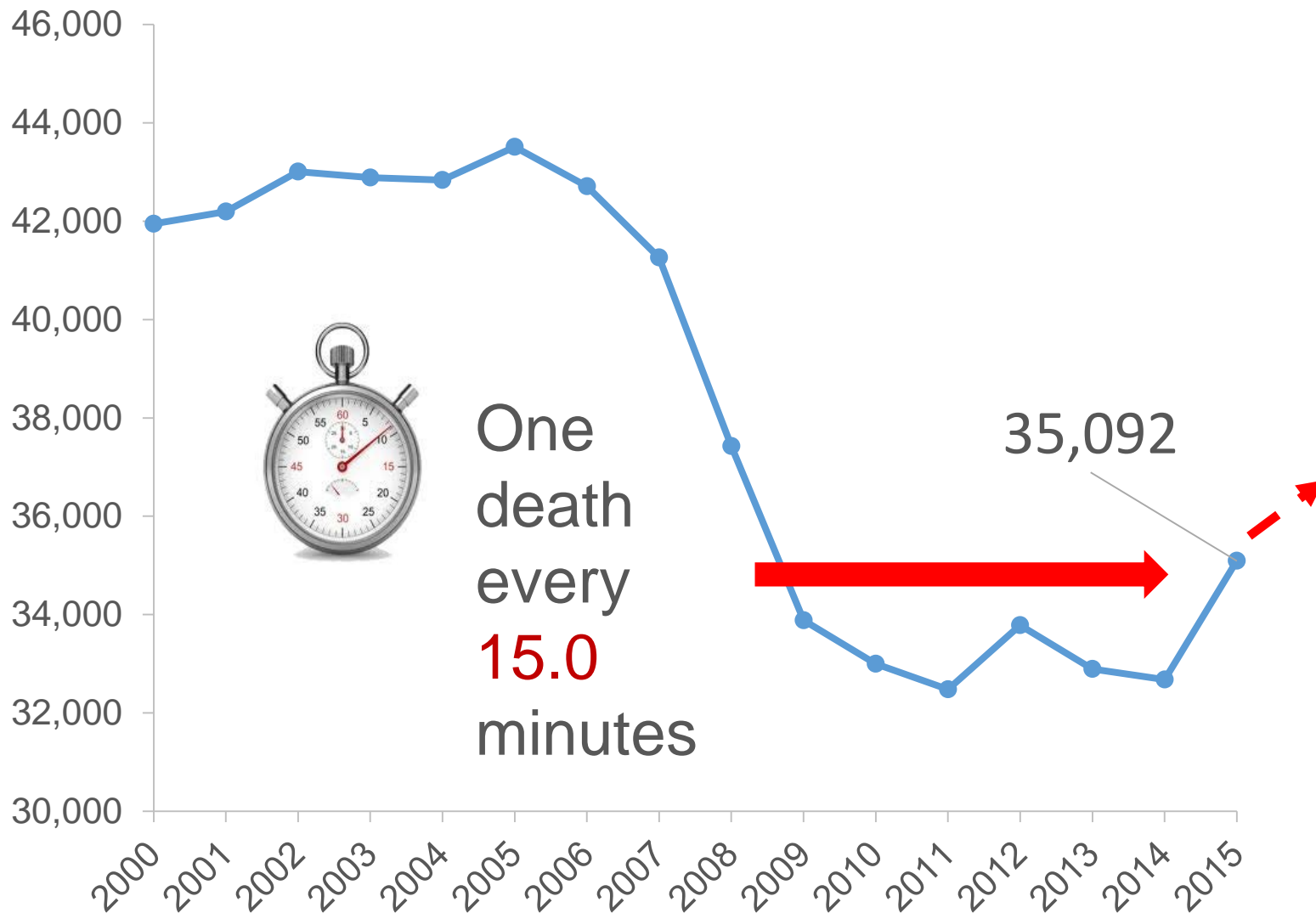


- **Policy**
- Insurance
- Privacy
- Cybersecurity
- Consumer Understanding
 - Level 4 & 5 vs. Levels 1-2

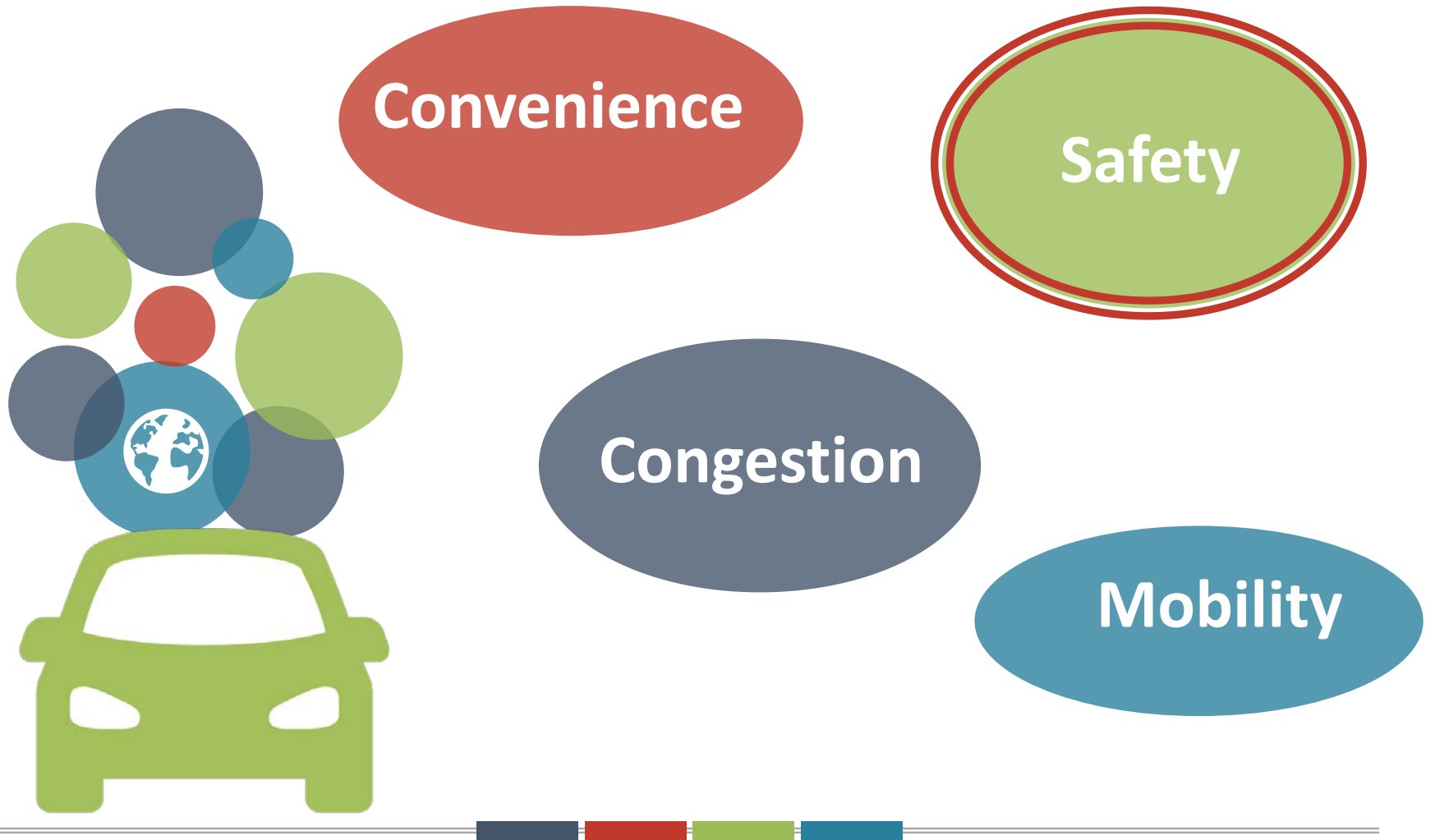
Policy Landscape



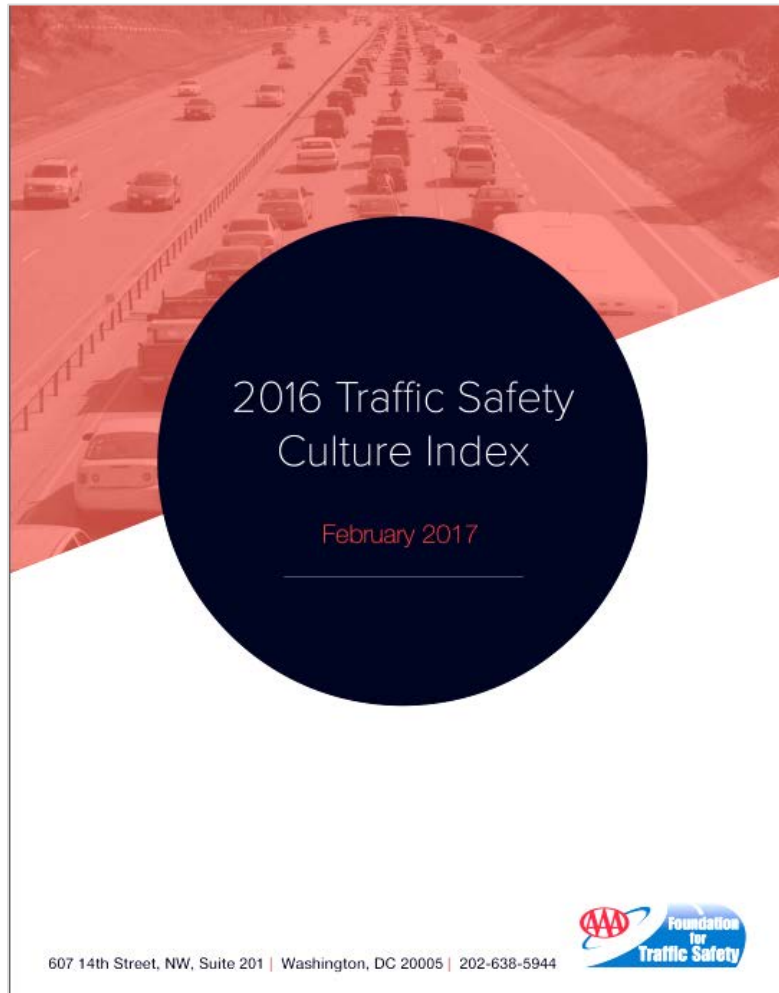
Motor Vehicle Fatalities 2000-2015



Automated Vehicles: Potential Benefits



Traffic Safety Culture Index

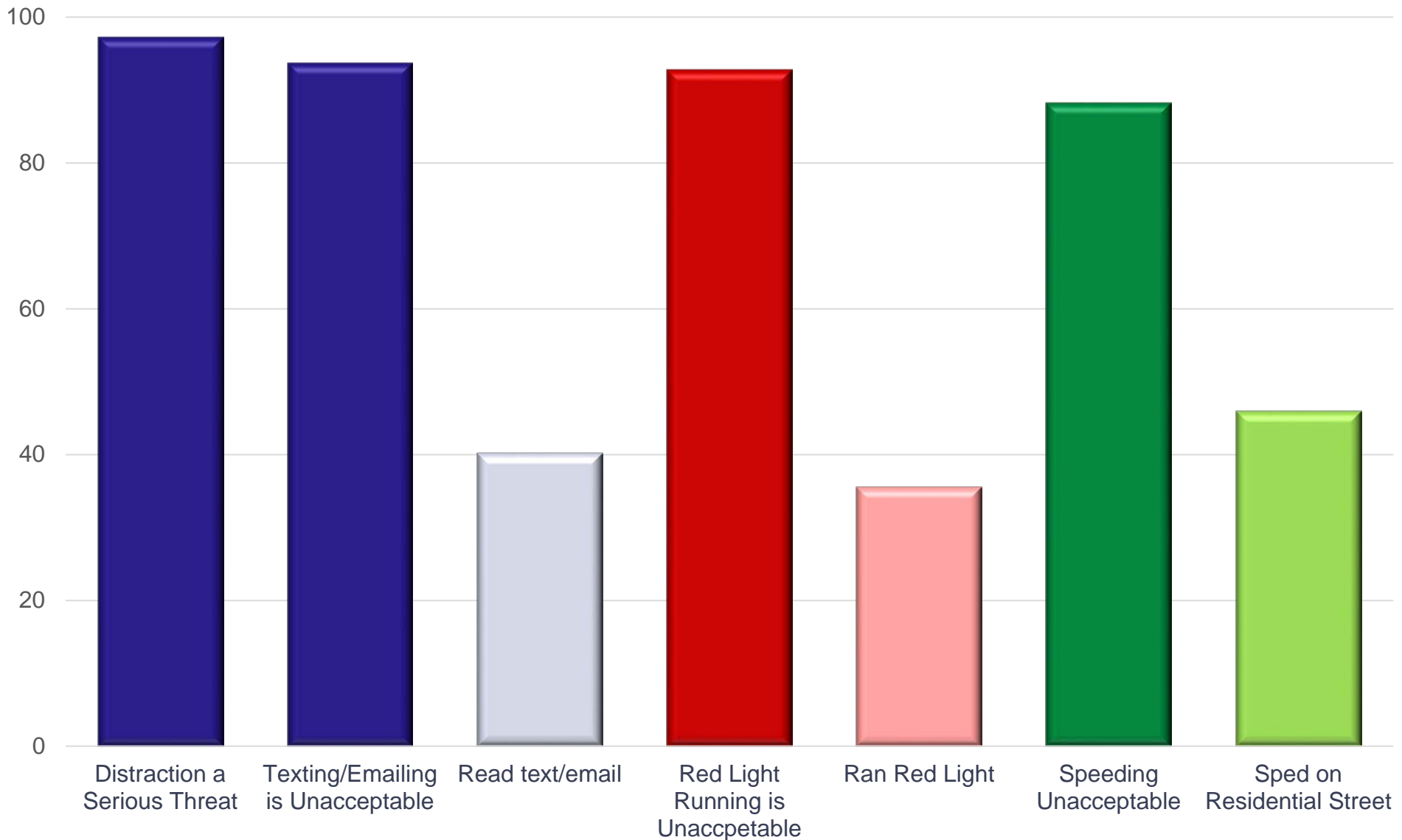


- Culture of **complacency**
- Prevailing attitude:
“*Do as I say, not as I do.*”
- **Speed & convenience** valued over safety





Safety Culture: “Do as I say, not as I do.”



Source: AAA Foundation for Traffic Safety, 2017

Automated Vehicles & the Consumer



public & government affairs

Autonomous Vehicles: Coming to a Highway Near You



FROM OUR CEO

What Happens to Safety the Day Your Car Begins Driving You?

AAA has been at the forefront of the nation's love affair with the automobile for more than a century. From those early days of noisy motorized contraptions competing with horses to today's sleek

While we are just beginning to understand the myriad opportunities and challenges of autonomous vehicle technologies and their implications for motorists, the potential safety impacts of driverless vehicles should not be underestimated. Each year, roughly 35,000 people

the state level with Departments of Transportation across our service area to advocate for and help advance the technology that some analysts believe will be on the road sooner than many of us can imagine.

While there are sure to be bumps in the road to technology, and many of the safety, licensing, and liability laws and

61% of U.S. drivers want at least one of the semi-autonomous features on their next vehicle.

Adaptive Cruise Control

Automated Emergency Braking

Autonomous Parking Technology

Lane Departure Warning/Lane

market leaders.

After working on automated

vehicle finished by 2020. Ge

more than 1.7 million mil

production

NewsR

Automated Vehicles: AAA Testing



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AAA Warns of Misconceptions Regarding Automatic Systems

Auto club says consumers need to be better educated on distinctions between system types



FORTUNE

AAA Says Not All Automatic Braking Systems Are Designed to Prevent Car Crashes

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Always look when you change lanes

Despite massive improvements in car safety, drivers need to keep their eyes on the road.

A new AAA report finds that car safety options that are supposed to work most of the time, but drivers need to be aware of some of their limitations they have.

"AAA's tests found that these systems are a great asset to a car," AAA managing director of automotive engineering said in a report.

The car owners' group tested blind spot monitoring systems. Blind spot monitoring systems use radar to warn drivers in case they're not visible or go unnoticed in side mirrors. Lane departure cameras to warn drivers when they are drifting out of their lanes.

New Cross Traffic Alert Systems Often Fail, Warns AAA

by Paul A. Eisenstein on Dec.10, 2015

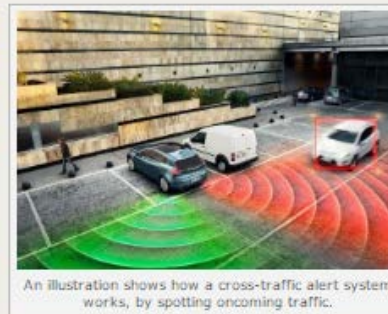
A major new safety technology frequently fails to work as promised, according to a new study by the AAA, leading to parking lot crashes and injuries to pedestrians and bicyclists.

The problem is complicated by the fact that more than three quarters of U.S. drivers "park incorrectly," the road service and safety organization reported. That further enhances the risk of accidents in parking lots, according to the AAA study.



We'll Keep You Alerted!

"Recognizing that American parking habits differ from much of the world, automakers are increasingly adding technology to vehicles that is designed to address rear visibility concerns," said John Nielsen, AAA's managing director of Automotive Engineering and Repair. "However, AAA's testing of these systems reveals significant shortcomings when used in real-world conditions and Americans should rely more on driving skills than technology."



An illustration shows how a cross-traffic alert system works, by spotting oncoming traffic.

The root of the problem is the way Americans typically park in shopping center and mall lots, 76% pulling forward, rather than backing into spots. That practice leaves pedestrians and bicyclists more vulnerable, while increasing the risk of a driver backing out into traffic.

However, parking tests show that such suspicions are likely misplaced. AAA found the self-parking systems parked 10 percent faster than human drivers and

Do you trust your car to self-park?



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that parallel parks itself without you touching the steering wheel. AAA shows that 72 percent of those asked would not even though it's now available in several models, mostly



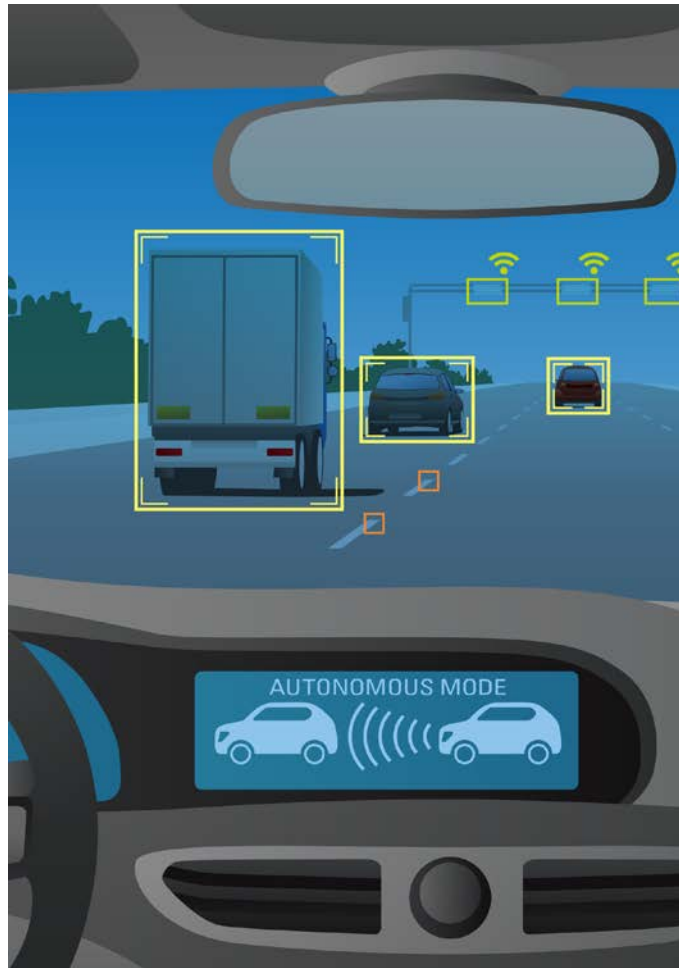
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**SHORTEST
NOTIFICATION**
from
vehicle

**SHORTEST
NOTIFICATION**
4 feet from
approaching vehicle



Automated Vehicles: Consumer Opinion



75%
of U.S. Drivers
report feeling **"AFRAID"**
to ride in a self-driving
vehicle.



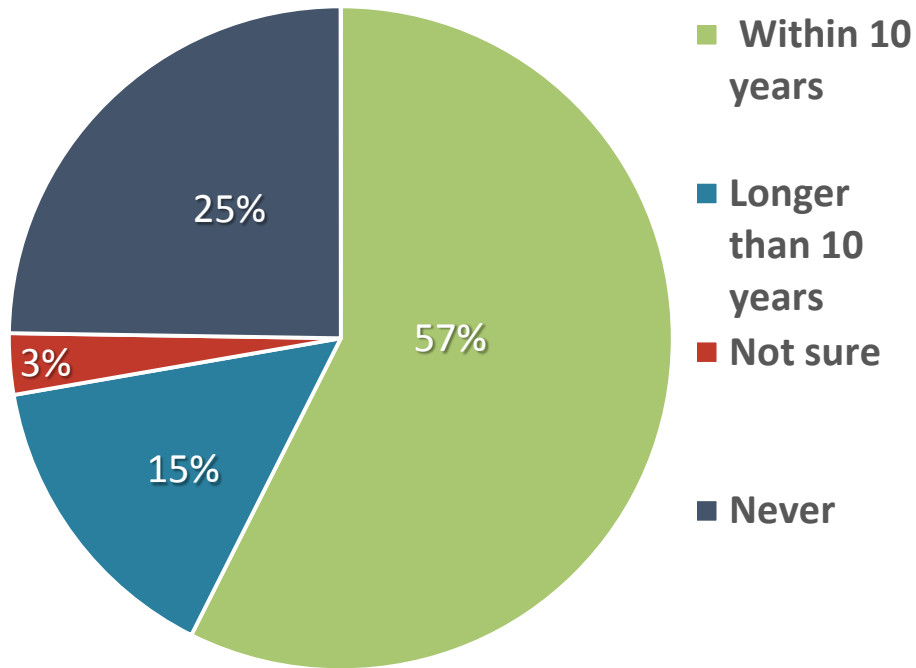
NewsRoom.AAA.com



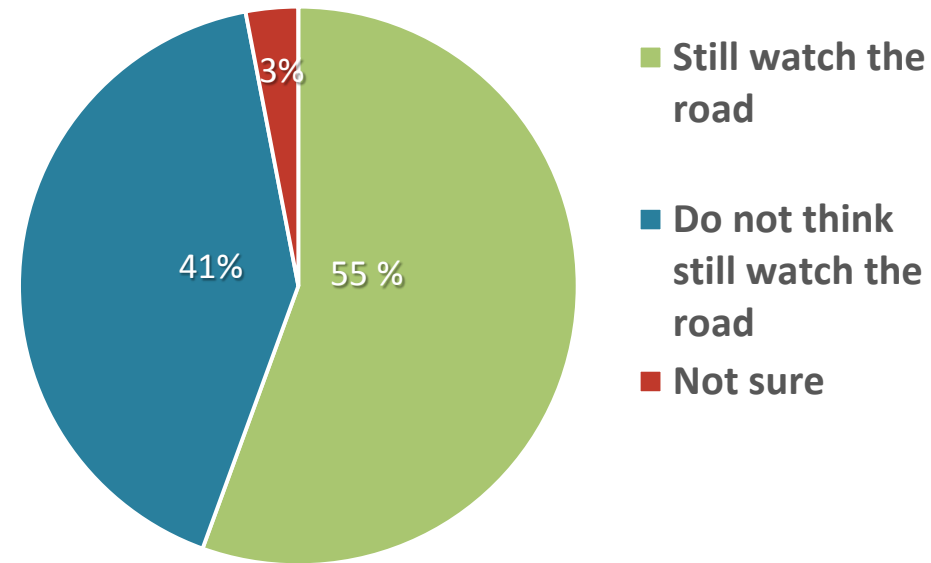
Automated Vehicles: Connecticut Opinion



HOW SOON CAN YOU IMAGINE ROUTINELY RIDING
IN A FULLY AUTONOMOUS OR SELF-DRIVING
VEHICLE?

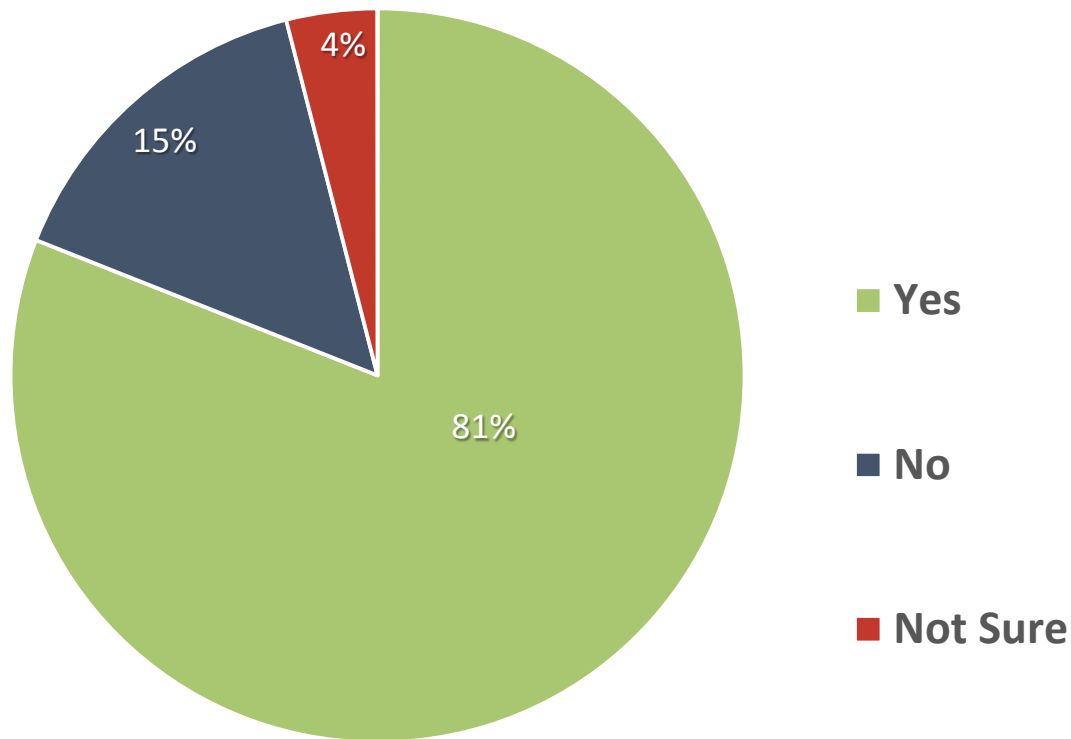


DO YOU THINK YOU WOULD WATCH THE ROAD
THE SAME WAY YOU WOULD AS IF YOU WERE IN A
VEHICLE WHERE YOU HAVE COMPLETE CONTROL
OF DRIVING ?



Automated Vehicles: Connecticut Opinion

DO YOU THINK LOCAL AND STATE GOVERNMENTS SHOULD INFORM THE PUBLIC WHEN AND WHERE AUTONOMOUS VEHICLES WILL BE TESTED ON ROADS IN THEIR AREA?



Policy Considerations – Testing

Human Driver?

Vehicle Specifications

- Identification
- Human/Remote Take-over
- Safety Certification

Consumer Education

Data

- Collection
- Transparency
- Incident Reports





Automated Vehicles: The Road Forward



- Keep safety a priority
- Respect motorists' rights
- Consumer education & acceptance
- Harmonization & standardization
- Ongoing research
- Continued investment





QUESTIONS?

