NHTSA
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Today's Safety Technologies:
Moving Toward Driverless Vehicles

An estimated 94% of all vehicle crashes involve human error.

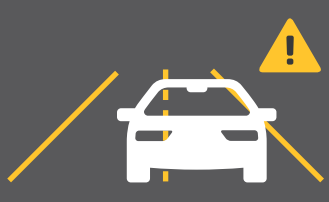
Safety technologies — features designed to help you avoid a crash by warning you or automatically taking preventative action — promise to advance vehicle safety like never before, leading the way for driverless vehicles and possibly making crashes a thing of the past.

But what are these safety technologies and how do they protect you?

TODAY

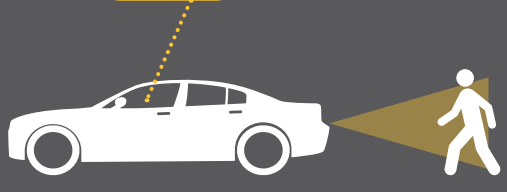
FORWARD COLLISION WARNING

Detects if a crash is imminent and alerts the driver.



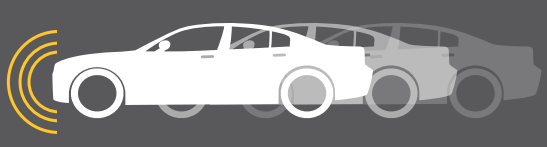
LANE DEPARTURE WARNING

Alerts drivers if they are **about to drift out of their lane.**



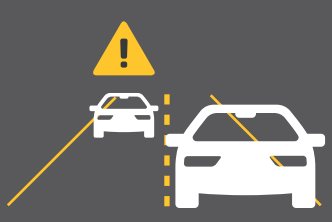
REARVIEW VIDEO SYSTEMS

Expand the field of vision so drivers can **see obstacles and prevent backover incidents** (standard in all vehicles by May 2018).



AUTOMATIC EMERGENCY BRAKING

Helps **prevent crashes or reduce their severity** by applying the brakes (standard in most vehicles by 2022).



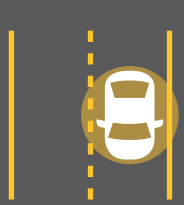
BLIND SPOT DETECTION

Warns the driver if there are **vehicles in adjacent lanes** that the driver may not see.

TOMORROW

ADAPTIVE CRUISE CONTROL

Reduces the speed of a vehicle if traffic ahead is slowing.

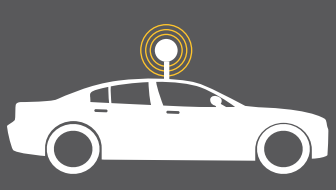


LANE CENTERING

Steers the vehicle to keep it in the **center of the lane.**

PEDESTRIAN AVOIDANCE

Provides a warning to drivers and automatically applies the brakes to **avoid hitting a pedestrian.**



AUTONOMOUS VEHICLE

Offers the potential for the vehicle to drive itself **without active driver control.**

So what does this mean for you?

We're still years away from widespread adoption of semi-autonomous and fully autonomous vehicles, but the rapid pace of innovation means it'll be here before we know it. Many drivers now look for these safety technologies when purchasing a vehicle, and those who already have these technologies overwhelmingly trust them to keep them safe.

NHTSA, your official government vehicle safety authority, is spurring innovation with research, rigorous testing and new safety guidelines to ensure that these vehicles achieve their lifesaving potential and save more lives in the future.

Go to NHTSA's website safercar.gov for more information.