

## Behind the Wheel at Work



*Behind the Wheel at Work* is a quarterly eNewsletter bringing you the latest news from the NIOSH Center for Motor Vehicle Safety.

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### Automated Vehicles: Part 2

Last year we provided an overview of what you need to know about automated vehicle technology in the workplace. This year, we're talking about safety management as it relates to automated vehicles. Questions about this topic? Tweet us [@NIOSH\\_MVSafety](#). Catch up on [previous issues](#) of our newsletter.

#### NIOSH CMVS Tweets

Employers can use data to drive motor vehicle safety program decisions. Learn more about this action and others to... <https://t.co/n0rKujlbu5>

#### In this issue

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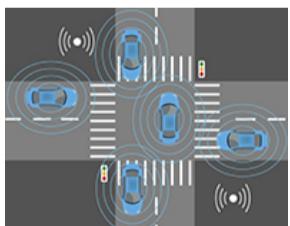
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## Automation and Fleet Safety



In our [September 2018 issue](#), we talked about vehicle automation in general terms, describing the levels of automation as defined by the Society of Automotive Engineers and the potential for highly-automated vehicles to greatly reduce crashes and injuries. Building on that, we'll focus here on what automation means for the safety of company fleets, now and in the future.

[ADAS in the Workplace](#)

Things to know

Things to ask your safety management team

Resources

Vehicles on the market today are the safest ever. Not only are they more "crashworthy," but they are equipped with a variety of advanced driver-assistance systems (ADAS) that have already been proven effective to reduce crashes and injuries. ADAS-equipped vehicles can have significant safety benefits for company fleets, but fleet managers and safety professionals need to be sure that their policies are updated so they can take full advantage of these life-saving technologies.

The bottom line: Companies need to update their fleet safety management policies to get the full benefits of vehicles equipped with advanced driver-assistance systems.

## Safety Tip



This icon isn't to inform you that there's a coffee shop at the next exit – it tracks your driving performance and lets you know when you may be tired. Learn more about [Drowsiness Alert](#) from our friends at MyCarDoesWhat.org.

## Choosing the Safest Vehicles for Your Employees



If you're an employer who buys or leases vehicles for your workers to use on business, you'll need to consider two levels of safety: how well the vehicle protects its occupants in the event of a crash (its "crashworthiness"), and which individual safety features are most effective in preventing a crash.

First, let's consider how well vehicles protect their occupants if there is a crash. The United States has two organizations that assign overall safety ratings based on combined results from crash tests:

- The National Highway Traffic Safety Administration (NHTSA) gives each vehicle 1 to 5 stars: [safercar.gov](#). This webpage also has up-to-date information on vehicle recalls.
- The Insurance Institute for Highway Safety (IIHS) designates a vehicle that best protects its occupants as a Top Safety Pick or Top Safety Pick+: <https://www.iihs.org/ratings>. The IIHS webpage also has resources that employees can share with their families, including recommendations for the safest cars for teen drivers: <https://www.iihs.org/ratings/safe-vehicles-for-teens>.

Next, businesses and consumers alike can choose from a range of automated safety features available on new cars today, often referred to as advanced driver assistance systems (ADAS). As we noted in a [previous issue](#), levels of automation range from 0 (no automation) to 5 (full automation). ADAS function at automation levels 0, 1, and 2; examples are automatic emergency braking, cross traffic alert, lane keeping assist, and adaptive cruise control. Employers face two kinds of challenges in selecting vehicles with ADAS:

- **Knowing which ADAS have been shown to be effective:** The IIHS analyzes crash and injury claims for all years, makes, and models of vehicles, comparing vehicles with and without each type of ADAS. This [IIHS fact sheet](#) summarizes the evidence supporting the benefits of ADAS. Keep in mind that some newer features aren't shown because there aren't enough cases to analyze.
- **Making sure that your employees understand how the different kinds of ADAS work:** 40% of those who responded to a survey by the University of Iowa said that at some point, their vehicle had behaved in a way they didn't understand. This result led to the creation of [mycardoeswhat.org](#) in partnership with the National Safety Council. This interactive site explains how each type of ADAS works, using strategies tailored to fit people of different ages and learning styles.

The bottom line: Resources are available to help employers and consumers select the safest possible vehicles, and to help drivers understand how automated vehicle safety features work.

## ALERT: Takata Airbag Recall



There are over 40 million vehicles in the U.S. under recall due to a [defective Takata airbag](#). The National Highway Traffic Safety Administration (NHTSA) estimates that there will be 65-70 million vehicles under recall by December 2019. As these vehicles span 19 manufacturers, Takata airbags may be in some of your fleet vehicles or in your employees' personal vehicles. The airbags, which have the potential to explode and eject sharp metal fragments if the vehicle is involved in a crash, have caused serious injury and death. This defect is associated with long-term exposure to high heat and humidity.

## What can employers do?

Employers can raise awareness about this ongoing recall and protect their employees from this hazard. Company initiatives have included parking lot sweeps using a free app to identify at-risk vehicles, mailers sent to employee homes, and paid leave to employees to take their vehicle in for necessary repairs.

At a minimum, encourage your employees and fleet managers to:

- [Search vehicle identification numbers \(VINs\) to see if they are under recall](#)
- Contact your local vehicle dealer to get the vehicle repaired for free
- [Sign up for NHTSA's recall notification system](#)

**The bottom line: Check if your fleet's airbags have a recall, and encourage employees to check their personal vehicles too.**

## Traffic Safety Culture GIF



What is traffic safety culture? It involves shared values and beliefs among drivers and employers that influence their traffic safety decisions. Use NIOSH's [new GIF](#) to promote this concept.



Questions? Comments? Email [kur4@cdc.gov](mailto:kur4@cdc.gov).



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