

foot level.

to reality?

## Trucker Reality By OOFI • Feb 09, 2022 Smart Brevity® count: 3 mins... 768 words

Academia and regulators look at the trucking industry from the 30,000

• However, this bulletin examines the "realities of trucking" through the windshield, six feet up from the pavement, from the driver's

seat.

1 big thing: How close are autonomous trucks



**Reality Check:** While AV technology is impressive, it's far from ready. For starters:

What they're saying: TuSimple claims that their product will be

commercially available by the end of 2023.

 The trip took place in a controlled environment. Both the Arizona DOT and law enforcement collaborated with TuSimple for the drive.

ahead of the driverless truck. • "An oversight vehicle capable of putting the autonomous truck in a

minimal risk condition" was close behind.

TuSimple utilized a survey vehicle "to look for anomalies" 5 miles

safety measures. TuSimple traversed the route thousands of times to collect enough data before they were ready for an autonomous run.

Law enforcement was about half a mile behind the truck for extra

seeing a "deluge of accidents from these [autonomous] vehicles." • By the numbers: There are 9.1 self-driving car accidents per million

miles traveled verses 4.1 per million miles among regular vehicles.

International President of the Transport Workers Union stated that we are

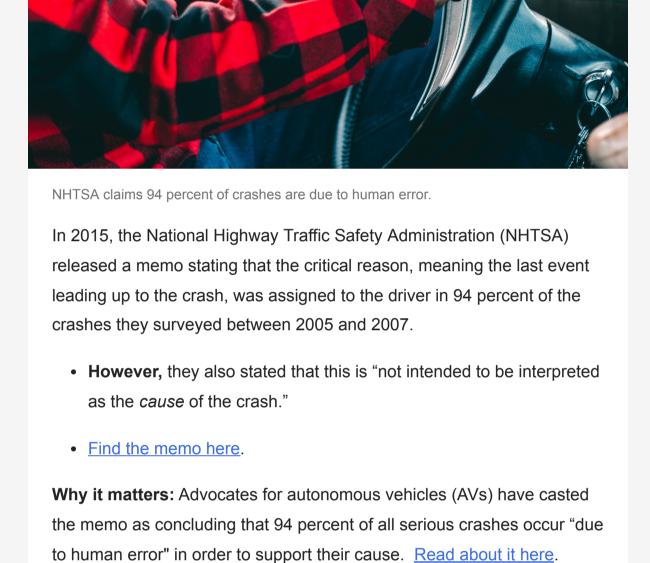
At a recent hearing in the U.S. House of Representatives, the

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**The bottom line:** Don't believe the hype.

on human drivers is wrong

Reality check 1: The statistic blaming crashes



NHTSA's own website states, "Automated vehicles' potential to save

lives and reduce injuries is rooted in one critical and tragic fact: 94%

of serious crashes are due to human error." **Reality Check:** Since humans are driving the vehicle, the last action

before a crash is going to be taken by a human.

requested NHTSA to remove it from their website.

reducing traffic deaths in the United States."

Homendy wrote, "Stop with the 94%!"

about it, so who cares?"

dangers of driverless cars here.

Measure the distance from the car to obstacles.

intervention.[1]

new risks.

Go deeper.

Chemical Engineering (2013)

ADDITIONAL

LIDAR UNITS

easy way out. Other factors must be considered, such as road design, speed limits, weather conditions, and mechanical issues to name a few.

The "critical reason" has nothing to do with what caused the crash.

The cause for any one crash is complex. Blaming humans is the

Reality Check 2: The challenges of AVs Figure 1: How a Self-Driving Car Works

The bottom line: This figure is so egregious that Jennifer Homendy, the

head of the U.S. National Transportation Safety Board (NTSB), officially

• "Simply put: It's not true. Crashes are more complex than that and

we need to understand all those factors to stand a chance at

"This leads the public to believe there's nothing anyone can do

LIDAR Constantly spinning, it uses **CAMERAS** laser beams to generate a Use parallax from multiple images to find 360-degree image of the the distance to various objects. Cameras car's surroundings. also detect traffic lights and signs, and help recognize moving objects like pedestrians RADAR SENSORS

Despite the claims that AVs are safer than human drivers, AVs have a

The big picture: News articles and case studies have presented real-

While automated driving systems (ADS) have the potential to

AAA researchers found in 2020 that vehicles with active driver

improve safety under certain conditions, they also pose to create

assistance systems experienced an issue every eight miles. They also

world situations in which automation has failed thereby requiring human

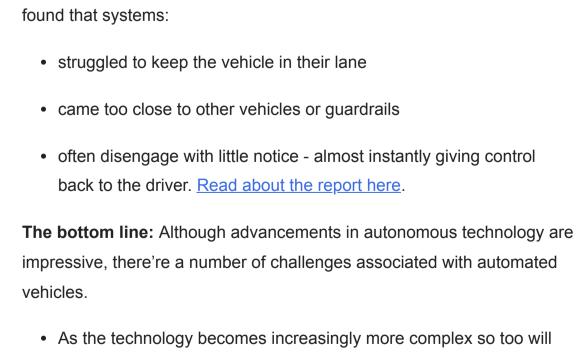
higher rate of accidents than human-driven cars. Read about the

and bicyclists.

C MAIN COMPUTER

(LOCATED IN TRUNK)

Analyzes data from the sensors, and compares its stored maps to assess current conditions.



the number of ways in which they can fail.

The OOIDA Foundation, the research and educational arm of OOIDA, thanks you for all that you do!

[1] Tomas o. Lackman and Karl Soderlund, "Situations Saved by the

Human Operator when Automation Failed," The Italian Association of

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