

# Using 5G technology to help prevent road accidents and save lives

## The challenge

In Sacramento, California, leaders are actively exploring technology and artificial intelligence solutions to anticipate traffic dangers and prevent serious and fatal accidents. Earlier solutions couldn't predict collisions accurately: A car's position on the road could only be measured within meters. 5G's high speed and low latency could permit sensors in cars and roads to track vehicle speed, bearing and angle within centimeters.

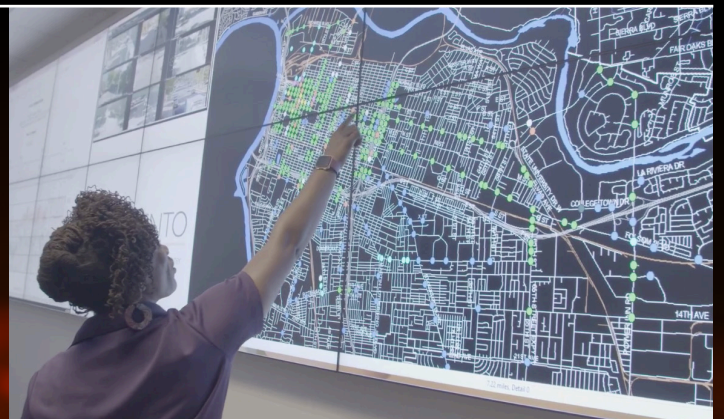
**9th** Rank of Sacramento for auto risks in U.S. cities<sup>1</sup>



## The tech

5G solutions connecting vehicles, roads and AI could someday pinpoint potential road hazards, including oncoming cars and pedestrians, and warn drivers within seconds—saving lives. Future advancements in 5G could make it possible to collect and analyze enormous amounts of data on roadway activity, including details on close calls and unreported accidents. Eventually, these insights may make future street designs safer.

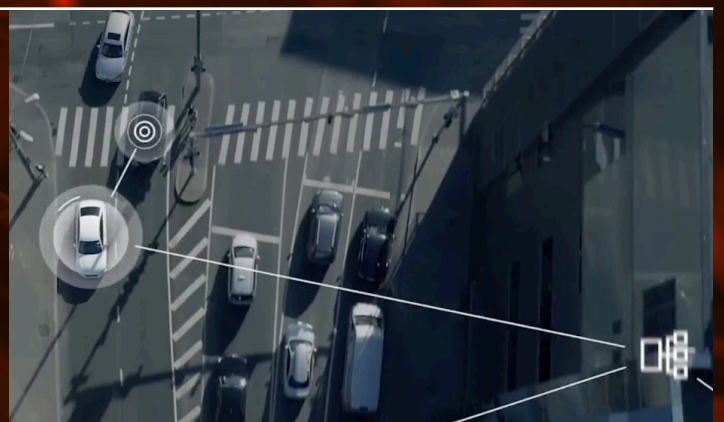
**77M** Number of connected worldwide cars by 2025<sup>2</sup>



## The takeaway

The arrival of 5G communications networks could make it possible for everyday objects such as cars to become much smarter and relay detailed information to intelligent systems—both in vehicles and in a central location—to reduce accidents and deaths.

**2027** Year Sacramento aims to reach zero traffic deaths<sup>3</sup>



For more information, reach out to your Verizon Wireless business specialist or visit [verizon.com/5g/business](https://www.verizon.com/5g/business)

<sup>1</sup> "The 25 Most Dangerous Cities for Drivers [+ Car Theft Rates]," CarInsuranceCompanies.com, 2019 <sup>2</sup> "How 5G & IoT technologies are driving the connected smart vehicle industry," *Business Insider*, March 10, 2020 <sup>3</sup> "Sacramento aims to achieve zero traffic deaths by 2027," KCRA-TV, February 8, 2018