

# Connected and Automated Vehicles



By 2050, Wisconsin's transportation landscape will likely look very different. While some early connected and automated vehicle (CAV) technology has already arrived, WisDOT continues to explore what introducing CAVs to Wisconsin's roadways will mean for infrastructure, policy, administrative requirements, enforcement, and communities.

**Connected vehicles (CVs)** communicate with other vehicles and transportation infrastructure



**Automated vehicles (AVs)** operate with varying levels of human involvement

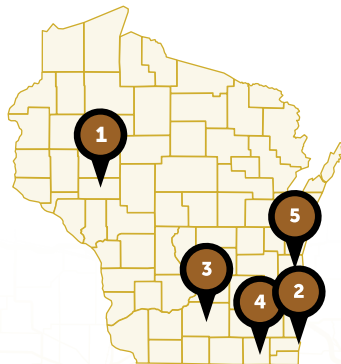
**Connected and automated vehicles (CAVs) utilize AV and CV technologies**

## WISCONSIN CAV RESEARCH

A number of Wisconsin organizations and companies are involved in CAV research including the University of Wisconsin-Madison, UW-Milwaukee, MGA Research Corporation, Traffic & Parking Control Co. Inc., the city of Madison, and WisDOT.

### TEST FACILITY LOCATIONS

- 1 Eau Claire**  
Chippewa Valley Regional Airport
- 2 Racine**  
• UW-Madison Extension Racine County  
• Gateway Technical College  
• City of Racine
- 3 Madison**  
• UW-Madison  
• City of Madison
- 4 Burlington**  
MGA Research
- 5 Elkhart Lake**  
Road America



## WAVE ADVISORY COMMITTEE

In 2020, WisDOT created the Wisconsin Automated Vehicle External (WAVE) Advisory Committee. Consisting of representatives from the private sector, nonprofit groups, various associations, academia, and other government agencies, the committee's goal is to gather stakeholder input and advice on CAV-related planning priorities, implementation policies, and impacts on the state's transportation system.

## KEY FACTS



There is a high degree of uncertainty with CAV technologies. They are expected to **achieve anywhere from 10 percent to 90 percent market penetration nationally by 2050**



With the introduction of CAVs, data will enable **real-time adjustments to traffic situations**

AVs may change **parking demand**, which could affect roadway design and land use patterns



CAVs may platoon close together in the future, **changing traffic models and roadway planning**

