

Connected Vehicles

Just as people communicate with each other every day on their phones, tablets, and other devices, connected vehicles “talk” to one another too, exchanging important information that can help prevent crashes and keep traffic moving. They can even communicate with traffic signals and other roadside equipment.



Benefits



Safety

Connected vehicles make the roads safer for everyone by warning drivers of potential hazards. For example, a driver may receive a warning that a car in the lane ahead is slamming on its brakes, or that a dangerous curve is coming up. According to the U.S. Department of Transportation, such warnings have the potential to prevent or reduce the impact of millions of crashes every year.



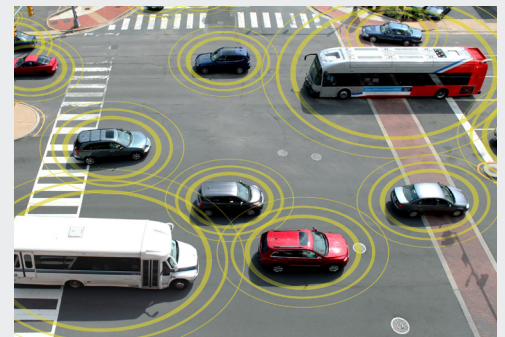
Mobility

One of the biggest benefits of connected vehicles is improved mobility. As vehicles, roadside sensors, and mobile devices collect and transmit data to the RTMC, transportation managers can use the data to keep traffic flowing smoothly. Traffic signals can even communicate with buses and other transit vehicles to give them priority when they are behind schedule.



Environment

Connected vehicles can also reduce the transportation system’s impact on the environment. Connected vehicle technology can give travelers the information they need to make environmentally friendly choices—for example, by taking transit when the roads are congested. By reducing the amount of time cars are stuck in traffic, connected vehicles can even decrease greenhouse gas emissions.



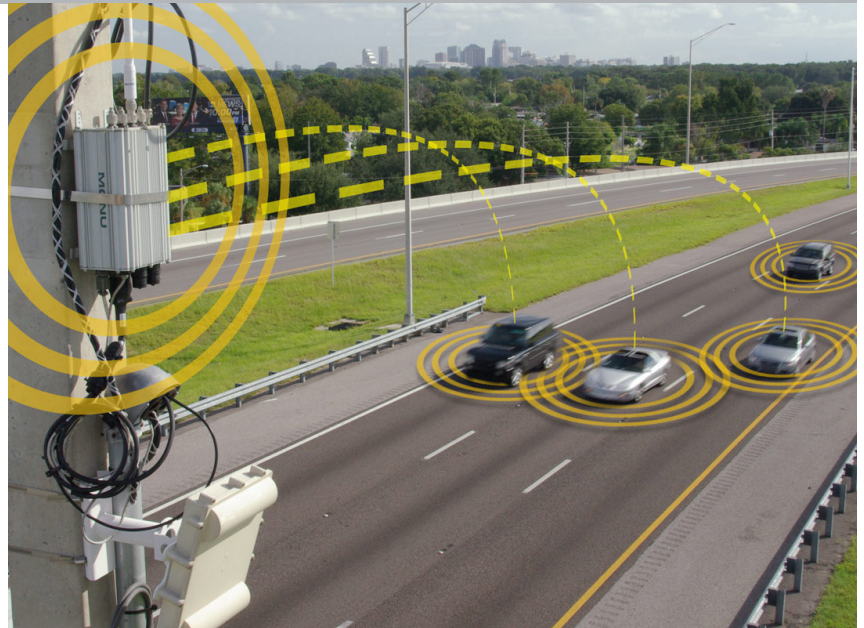
For roadside assistance,
call *FHP (*347) from your
mobile phone.

For more information, visit
CFLsmartroads.com



Connected Vehicles: Privacy and Security

Connected vehicles need to be able to communicate securely so that safety messages are reliable and drivers' privacy is protected. FDOT takes privacy and security very seriously, which is why it has implemented a statewide Security Credential Management System (SCMS) platform. The SCMS is a certificate-based system that verifies that all communications come from a trusted source. Additionally, all collected data is anonymized to ensure privacy.



ATTAIN Central Florida

ATTAIN Central Florida comprises several programs that are deploying connected vehicles and many other smart transportation technologies to improve reliability, reduce congestion, increase mobility, and enhance safety on roads throughout the region. For example, PedSafe is an innovative collision avoidance system utilizing connected vehicle technology to help reduce vehicular conflicts with bicyclists and pedestrians in crosswalks.

For more information, visit ATTAINCFL.com.



Central Florida Automated Vehicle Partnership

The U.S. Department of Transportation has designated Central Florida as a proving ground for automated vehicles. The Central Florida Automated Vehicle Partnership is leading the effort to make the region a hub for research and development of connected and automated vehicle technology. Members include FDOT District Five, FDOT District One, Florida's Turnpike Enterprise, Florida Polytechnic University, Florida A&M University-Florida State University College of Engineering, LYNX, City of Orlando, University of Central Florida, Central Florida Expressway Authority, and NASA-Kennedy Space Center.

For more information, visit CentralFloridaAVPG.com.

For roadside assistance,
call *FHP (*347) from your
mobile phone.

For more information, visit
CFLsmartroads.com

