



Preview the Future of Transportation-Connected Vehicles!



Watch a New Animated Video to See Connected Vehicles in Action.

Photo Source: USDOT

Connected vehicles are the future of transportation. Thus, the U.S. Department of Transportation (USDOT) has developed an animated video to illustrate the concept of connected vehicles and help the public understand its potential benefits.

What Are Connected Vehicles?

Connected vehicles wirelessly communicate with each other, roadside infrastructure, and even our personal mobile devices, sharing valuable information that could save lives, reduce congestion, and lessen the impact of transportation on our environment. The USDOT's new video shows connected vehicles in action, moving through several scenarios that highlight the technology's benefits in safety, mobility, environment, road weather, and emergency response.

Watch the Video to Learn More

Connected vehicles will be on our roads sooner than you think. The technology will transform our transportation system as we know it and unleash tremendous benefits for generations to come.

Take a look at the future of transportation. Access the video at: www.its.dot.gov/animation/

You can also visit the Intelligent Transportation System Joint Program Office website to find out more about connected vehicles at: www.its.dot.gov.



U.S. Department of Transportation



Photo Source: USDOT

How Will Connected Vehicles Help?

The video illustrates how anonymous data from connected vehicles will be collected and used as the basis for a myriad of applications. The following are examples of the applications being developed by the USDOT:

- EMERGENCY ELECTRONIC BRAKE LIGHT WARNING** – Notifies the driver when an out-of-sight vehicle, several cars ahead, is braking.
- ROAD WEATHER MOTORIST WARNING** – Issues alerts and advisories to travelers about deteriorating road and weather conditions on specific roadway segments.
- ECO-APPROACH AND DEPARTURE AT SIGNALIZED INTERSECTIONS** – Provides information to drivers about traffic signal timing, allowing drivers to adapt their speed so they pass the signal on green or decrease speed to a stop in the most eco-friendly way possible.
- INCIDENT ZONE WARNING** – Alerts drivers to incidents ahead, warning them to slow down and change lanes; also, alerts first responders at the scene about approaching vehicles that pose a danger to them.
- QUEUE WARNING** – Monitors traffic data to detect stretches of slow-moving traffic and warn motorists to reduce speeds to avoid potential rear-end collisions.
- CONNECTION PROTECTION** – Gives passengers real-time transit information so they can more accurately predict whether they will make their next connection. If multiple people on a delayed bus will miss their next connection, transportation providers can adjust bus departures to enable the passengers to make their next connection.
- MOBILE ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM** – Sends an “automated pedestrian call” from the smart phone of a pedestrian with disabilities to the traffic controller, holding the walk signal until the pedestrian has cleared the crosswalk. Also, alerts drivers of the presence of a pedestrian with disabilities at the crosswalk.

