

Improving Safety with V2X Technology

Utah Department of Transportation

SCENARIO

The Utah Department of Transportation (UDOT) has long believed in the potential of digital technologies like vehicle-to-everything (V2X) solutions to radically improve transportation safety and help the state achieve its “Zero Fatalities” mission on its roadways.

V2X technology enables vehicles to communicate in real time with each other, roadside infrastructure, and other travelers like pedestrians and bicyclists. Users of V2X solutions leverage data collected, analyzed, and processed in the cloud to better understand roadway activities in real time, so they can deploy responders to incidents within seconds and transmit safety alerts directly into connected vehicles, preventing crashes altogether.

SOLUTION

UDOT partnered with Panasonic to build a connected vehicle ecosystem on the Cirrus by Panasonic™ V2X platform, equipped its fleet vehicles with V2X onboard units, and installed hundreds of V2X roadside units along state roadways to enable vehicle-to-everything communications. A cloud-based system collects, analyzes, and processes all of this communication data for roadway operators to view via an easy-to-use dashboard.

RESULT

By deploying V2X technology throughout Utah, UDOT has enhanced situational awareness of the state’s roadways. Traffic operators can now view the location of traffic incidents in real time, monitor weather conditions on the road, and more. This decision-guiding information empowers UDOT to reduce emergency response times, improve congestion, and make progress toward the state’s Zero Fatalities goal.

