MnDOT Connected and Automated Vehicle Traveler Alert System Pilot

PROJECT BACKGROUND

The Connected and Automated Vehicle (CAV) Traveler Alert System (TAS) will operate a mobile application and electronic message sign service to alert the traveling public to the presence of Minnesota Department of Transportation (MnDOT) work vehicles in their path of travel. The service will operate through June 2022 to gather information on the effectiveness of the alerts to reduce crashes between passenger vehicles and MnDOT work vehicles, snowplows and maintenance vehicles. The primary objective of the TAS is to make travel safer for MnDOT staff and the traveling public.

WHO: MnDOT is leading the pilot and has selected Iteris as the pilot service provider through the CAV Challenge Request for Proposal (RFP) process.

WHAT: The TAS alerts travelers to the presence of a snowplow or maintenance vehicle in their path of travel through:

Electronic Message Sign Alerts: The TAS issues a request to display an alert message on an electronic message sign when a MnDOT work vehicle passes the sign or is stopped downstream from the sign.

Mobile Applications: The TAS issues an audible alert to travelers through a mobile app (Apple and Android) loaded on a traveler's smartphone when their vehicle is approaching a MnDOT work vehicle in their path of travel. The alert is issued twice to maximize the traveler's comprehension of the alert.

The alerts are intended to make the traveler aware, adjust their speed or route, and navigate around the work vehicle safely.