

2018-20 National Strategic Winter Maintenance Plan
Adopted January 2018

Strategic Issue: 4 – Connected vehicles in winter maintenance		
Description of the selected strategies	Winter maintenance fleets have been utilizing connected vehicle technology for some time. How to utilize their mobile observations and what are the implications and applications of CV technology in winter maintenance. <ul style="list-style-type: none"> - Case studies - NCHRP 20-7 Synthesis on applications - Domestic Scan - ... 	
Champion	Steve Cook, STSM&O Liaison, Michigan DOT Kyle Lester, Region 4, Colorado DOT	
Cooperation with other organizations	<ul style="list-style-type: none"> - STSM&O Committee - States utilizing CV technologies: Iowa, Colorado, Wyoming, ... - Clear Roads (?) - Aurora (?) 	
Outputs		Schedule
Technical reports or summary document	<ul style="list-style-type: none"> - Case studies from states who have best practices - Summary document of findings 	AASHTO Spring Meeting 2020
Articles for Publication		
AASHTO Conferences or other events	Present findings at TRB committee meetings (<i>which ones ?</i>)	
Other events	Webinar	
Session at AASHTO Annual Meeting		
Remarks	FHWA EDC-4 Weather Savvy Roads	

Strategic Initiative Activity

July 2018

Activity Update:

FHWA EDC-4 Weather Savvy Roads Program has provided outreach/awareness/training to several state DOTs to advance the state-of-practice regarding the connected vehicles in winter maintenance operations. Also, AASHTO Committee on Transportation System Operations has a new subcommittee on Technology and a Working Group within this subcommittee focused Connected and Automated Vehicles. The Working Group will focus on the technology that supports Transportation System Operations through policy, standards, sharing best practices and deployment guidance. As TSMO advances nationally, more state DOTs are deploying technologies that support CV in winter maintenance like AVL in snow plow trucks, automated systems that provide advanced warning of winter events, better material usage through software programs like MDSS, better transparency to the public by showing snow plow activities on agency websites and sharing technology best practices that support CV initiatives.

Future Work:

Audi and Panasonic have been working with CO DOT (Road X program). Kyle has insight.

Iowa DOT working with HERE CAV in work zone and moving to include inclement weather.

TRB research need statement deals with CAV in winter maintenance – needs time to percolate.

APWA has a subcommittee looking at CAV to see how it might impact cities and the infrastructure that needs to provide. There might be opportunity for private entities to instrument the roadways to collect data from vehicles.

February 2019

There have been several workshops associated with EDC5 that ties into this initiative analog with EDC4 weather savvy roads.

Further discussion with Steve Cook, CTSO Liaison, has brought up the discussion that the community may benefit from combining this Strategic Initiative with the CAV initiative #4. This will be discussed at the SICOP meeting in Grand Rapids.