

2018-20 National Strategic Winter Maintenance Plan
Adopted January 2018

Strategic Issue: 3 - Effective use of Automated Vehicle Location technologies for internal and external applications		
Description of the selected strategies	<p>Winter maintenance fleets have been instrumented for many years with Automated Vehicle Location (AVL) and GPS technologies. These data have been utilized for fleet management and most recently as a tool for traveller information. There are many other uses for this data that</p> <ul style="list-style-type: none"> - Case studies of best practice - Domestic Scan - NCHRP 20-7 synthesis of applications - ... 	
Champion	<p>Tina Greenfield, TRB Winter Maintenance, Iowa DOT Gabe Guevara, FHWA Liaison, USDOT – FHWA – RWM</p>	
Cooperation with other organizations	<ul style="list-style-type: none"> - CTSO committee - TRB Committees (?) 	
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 Winter Maintenance committee meetings	
Other events		
Session at AASHTO Annual Meeting		
Remarks	<p>Clear Roads project 16-01: Utilization of AVL/GPS Technology: Case Studies</p> <p>Clear Roads project 14-01: Synthesis on GPS/AVL Equipment Used for Winter Maintenance</p>	

Strategic Initiative Activity

July 2018

Activity Update (TG & GG):

- As part of EDC-4/WSR, FHWA has hosted several IMO peer exchanges around the country (Colorado, Connecticut, Rhode Island, Minnesota, and is planning another in Iowa soon.) AVL, of course, is an integral part of deploying IMO technologies in fleet vehicles.
- Interest in the Pikalert System adoption is gaining traction. Wyoming DOT is using Pikalert as part of their CV Pilot Deployment; Alaska is doing a limited deployment; Colorado is considering adoption and participated in the IMO/Pikalert summit last November at the NCAR facility in Boulder. Nevada is considering a fleet-wide deployment of AVL/Pikalert based on the lessons learned from their IMO implementation. Also, many AVL lessons have been learned from the states that have deployed MDSS.
- The applicable Standards that affect communicating from fleet vehicles are being revised and/or updated including NTCIP 1204, SAE J2945/3; Clear Roads is also developing communication protocols and an equipment interoperability test-bed as part of their Plug-and-Play initiative.

Future Work:

Who as what and what for? A contact list of opportunities for utilizing the technology

Build a matrix of projects and resources. There are Clear Roads projects 16-01 & 14-04, 16-03. A resource list of 1-pagers that describes what they are doing. We could form a template of information: contact, specs, or link to RPFs, what is being collected/purpose, to be completed and made available for states to utilize. Ohio did a project with a survey. 24 responses. Take a look at this study and see if there is something we can R&D from them. James to send Rick a link to the report.

There is a lot going on in cities with AVL that could be captured. The Caltrans workshop was a good level-set of whos doing what.

February 2019

Iowa DOT hosted a peer exchange with 9 other agencies to talk about AVS in the IMO framework. There are outputs that can be shared and Tina would be the contact person. Roemer, FHWA, can provide a list of states using AVL technologies.

May 2019

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.

Updated May 2019