

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Synthesis of Technical Requirements and Considerations for an Automated Snowplow Route Optimization*

OBJECTIVES: Improve the capacity of DOTs and other transportation agencies to undertake and implement automated snowplow route optimization programs by:

- Documenting technical requirements/considerations for route optimization
- Providing standardized contract language for each technical requirement
- Creating a complementary, non-technical, decision-support document explaining why each requirement is important and how it impacts route optimization contract deliverables

PERIOD COVERED: January 1 – March 31, 2021

PARTICIPATING AGENCIES: Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

PROJECT MANAGER:
Debbie Sinclair / Tom Peters

SP&R PROJECT NO:
MnDOT Contract No.
1034820

PROJECT IS:
 Planning
 Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(353)

PRINCIPAL INVESTIGATOR:
Jonathan Dowds, Univ. of Vermont

ANNUAL BUDGET: \$73,514

PROJECT EXPENDITURES TO DATE: \$48,386

WORK COMPLETED:

- Held TAC Meeting – 02/06/21
- Completed Task 2 (Survey of Practice & Vendor Outreach) – Final technical memo delivered 01/29/21
- Completed Task 3 (Interviews) – Final technical memo delivered 03/28/21
- Initiated Task 4 (Technical Requirements and Guidance Document)

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Delivery of draft Technical Requirements and Guidance Documents (Task 5)
- Delivery of Vendor comments on Technical Requirements and Guidance Documents (Task 5)

STATUS AND COMPLETION DATE:

The project is on track to be completed on budget and by the revised project end date of 10/31/2021. Due to staff availability changes related to parental leave, the Project PI will work with the Program Manager to review the delivery schedule for Task 4 and Task 5.