

**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: July 1st, 2020 – September 30th, 2020

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, UVM

ANNUAL BUDGET: \$73,514

PROJECT EXPENDITURES TO DATE: \$31,319

WORK COMPLETED:

- Held project TAC Meeting 8/10
- Finalized the Literature review draft deliverable (Task 1)
- Designed and launched the Survey of Practice (Task 2) and initiated Vendor Outreach (Task 2)
- Initiated development of the semi-structured interview template (Task 3)

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Complete Task 2 (Survey of Practice and Vendor Outreach)
- Complete Task 3 (Interviews)
- Initiate Task 4 (Technical Requirements and Guidance Document)

STATUS AND COMPLETION DATE:

The project is on track to be completed on budget. Due to staff availability changes related to COV-19, the Project PI is submitting an Amendment Request for a 6 month no-cost extension. The amendment from has been review and approved by the Program Manager.