

State Planning and Research Program Quarterly Report

PROJECT TITLE: Updating the Impact of Capital Projects Decision Support Tool

OBJECTIVES:

- (1) Update the default values in the existing tool and expand the types of projects included in the tool.
- (2) Upgrade the tool to an interactive, web-based, dashboard-style application.

PERIOD COVERED: July 1 to September 30, 2024

PARTICIPATING AGENCIES: Minnesota Department of Transportation, Clear Roads Technical Advisory Committee, and the University of Vermont.

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.
1054112

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(479)

PRINCIPAL INVESTIGATOR: James Sullivan, UVM Transportation Research Center

ANNUAL BUDGET: \$58,354 (Year 1 of 2)
PROJECT BUDGET: \$148,018

PROJECT EXPENDITURES TO DATE: \$39,500

WORK COMPLETED LAST QUARTER:

- Completed Task 1: Identified the new data sources for AVL data and the capital projects to be used to supplement the project types in the existing tool; finished receiving survey responses
- Continued Task 2:
 - Began calculating increases in vehicle-hours of travel per pass, service time, and salt use, as well as the potential need for additional trucks or different types of equipment from the new capital projects.
 - Updated default user data from the survey responses
- Continued Task 3: Began development of the draft decision-support tool for testing

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Continue Task 2:
 - Calculate increases in vehicle-hours of travel per pass, service time, and salt use, as well as the potential need for additional trucks or different types of equipment from the new capital projects.
- Continue Task 3: Continue development of the draft decision-support tool for testing

STATUS AND COMPLETION DATE: Project is on track to be completed as originally planned, on December 31, 2025.