

**State Planning and Research Program  
Quarterly Report**

**PROJECT TITLE:** *Integrating Advanced Technologies into Winter Operations Decisions*

**OBJECTIVES:** Provide systems-level guidance on the many new technologies available to evaluate road conditions in an integrated blueprint. Topics include emerging technologies, performance monitoring and overall investment recommendations.

**PERIOD COVERED:** January 1 to March 31, 2020

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

**PROJECT MANAGER:**  
Debbie Sinclair / Tom Peters

**LEAD AGENCY:** MnDOT

**PRINCIPAL INVESTIGATOR:**  
Mark Gallagher, SRF

**SP&R PROJECT NO:**  
MnDOT Contract No.  
1028784

Federal Project Number:  
TPF-5(535)

**PROJECT IS:**

Planning  
 Research & Development

**ANNUAL BUDGET:** \$45,155  
Total Project Budget: \$90,311.41

**PROJECT EXPENDITURES TO DATE:** \$56,724.84

**WORK COMPLETED:**

- Conducted follow-up interviews
- Submitted follow-up interviews technical memo
- Began recommendations technical memo

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

- Submit recommendations technical memo
- Begin data analytics tool summary technical memo

**STATUS AND COMPLETION DATE:**

Project completion date amended to June 30, 2020 to accommodate unexpected staff medical leave during Q4 2018 and Q1 2019.

Original project completion date was January 31, 2020.

Task 3 (Survey) has exceeded budget due to staff availability issues resulting from medical leave, and solicitation of additional responses based on feedback from the TAC. Overall budget is not expected to be affected.