

## State Planning and Research Program Quarterly Report

**PROJECT TITLE:** *Snow Removal Performance Metrics*

**OBJECTIVES:** • The goal of this research is to “*identify effective performance metrics for snow and ice maintenance operations*”.

**PERIOD COVERED:**

July 1, 2015– Sept. 30, 2015

**PARTICIPATING AGENCIES:**

Washington State University – Prime  
The Narwhal Group – Subcontractor  
Monte Vista Associates LLC - Subcontractor

**PROJECT MANAGER:** Tom Peters

**SP&R PROJECT NO:**  
TPF-5(218)

**PROJECT IS:**

**LEAD AGENCY:** Mn/DOT

Contract No. 06910

Planning  
 Research & Development

**PRINCIPAL INVESTIGATOR:**

Xianming Shi, Ph.D., P.E.

**ANNUAL BUDGET:**

\$74,640

**PROJECT EXPENDITURES TO DATE:**

\$27,832

**WORK COMPLETED:**

*Project Management*

Project management activities during the quarter were focused on budget and timeline maintenance as well as management of subcontracts. A teleconference was conducted in July 2015 to discuss Task 1 results and how to best approach Task 2.

Task 1. Literature review (90% completed)

The WSU team conducted a comprehensive literature review and prepared a draft literature review for the project panel to review. During the last quarter, a revised literature review document was submitted to the project panel again, with all the previous review comments addressed.

Task 2. Survey (60% completed)

The WSU team prepared a draft survey instrument for the panel to review. During the last quarter, a revised survey instrument was submitted to the project panel again, with the review comments addressed. The approved survey was then implemented online and distributed out to the snow/ice control community to gather information.

Task 3. Analysis and Matrix Development (0% completed)

Task 4. Recommendations (0% completed)

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

[Work in the coming quarter will consist of project management as well as the completion of Task 2 and start of Task 3.](#)

**STATUS AND COMPLETION DATE:**

On time and about one month behind schedule. Completion date – July 31, 2016

Work Tasks	Milestone Dates	CY2015									CY2016			
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Project Commencement	May. 1, 2015	✿												
Project Management	QPRs			◊			◊			◊			◊	
Task 1. Literature Search	May. 2015	★												
Task 2. Survey	July/Aug/Sept. 2015			✿	★	★								
Task 3. Analysis and Matrix Development	Nov. 2015 & Jan. 2016								✿		★			
Task 4. Recommendations	Feb. - Apr. 2016										✿	★	★	