# State Planning and Research Program
## Quarterly Report

**PROJECT TITLE**: Develop Test Bed Software to Quality Plug & Play Technology

**OBJECTIVES**: Develop a software suite that will be used to validate and certify candidate Spreader Controllers and AVL Equipment for compliance with the current Clear Roads Universal In-Cab Performance Specification and Communications Protocol

**PERIOD COVERED**: January 2019 to March 2019

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

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| **PROJECT MANAGER**: <br> Lisa Jansen / Tom Peters <br><br> **LEAD AGENCY**: Mn/DOT <br><br> **PRINCIPAL INVESTIGATOR**: <br> Sean Mulligan, Parsons | **SP&R PROJECT NO**: <br> MnDOT Contract No. 132007 <br><br> Federal Project Number: <br> TPF-5(218) | PROJECT IS: <br><br> _____ Planning <br> __X__ Research & Development |

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| **ANNUAL BUDGET**: $108,160.67 | **PROJECT EXPENDITURES TO DATE**: $ 75,883.21 |

**WORK COMPLETED:**
- Task 1 – Needs Assessment
- Task 2 – Software Suite Development
- Task 4 – Guides and Instructions
- Task 5 – Disaster Recovery Plan

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER**:
- Task 3 – Pilot Test
- Task 6 – Continued Support

**STATUS AND COMPLETION DATE**:

During the quarter, additional effort was unsuccessfully made to engage additional members of the vendor community. Gabriel Gueavara from FHWA reached out and indicated the pilot would conclude March 31st, and requested vendors participate. Additional participation has not increased since then. At this point, we consider the pilot period over. Parsons will still respond to questions and provide support and maintenance under the agreement, but believe it is the time to now move forward towards project completion. Parsons staff continue to interact and work with Bosch Rexroth development staff to investigate potential errors and resolve them. Two defects were discovered during this process and have been resolved. Additional details will be forthcoming in the whitepaper on the project, to be submitted 2019-04.

Current Schedule for Next Quarter
- 2019-04 – Submit Task 3 Whitepaper
- 2019-05 – Continued Support
- 2019-06 – Continued Support