TRANSPORTATION POOLED FUND PROGRAM **QUARTERLY PROGRESS REPORT**

Lead Agency (FHWA or State DOT): _____IOWA DOT

INSTRUCTIONS: Project Managers and/or research project inversequarter during which the projects are active. Project task that is defined in the proposal; a per the current status, including accomplishments during this period.	lease provide a rcentage compl	a project schedule status letion of each task; a col	s of the research activities tied to ncise discussion (2 or 3 sentences) of	
Transportation Pooled Fund Program Project # TPF-5(483)		Transportation Pooled Fund Program - Report Period:		
		Quarter 1 (January 1 – March 31)		
		X Quarter 2 (April 1 – June 30)		
		Quarter 3 (July 1 – September 30) Quarter 4 (October 4 – December 31)		
		Quarter + (October + - December 31)		
Project Title: Implementation of New Traffic Signal Actuation Concepts using Enhanced Detector				
Project Manager:	Phone:	E-mai	il:	
Chris Poole			.poole@iowadot.us	
Project Investigator:	Phone: E-mai		il:	
Chris Day	515-294-3015 cmday@iastate.edu			
Lead Agency Project ID:		ct ID (i.e., contract #):		
	Addendum 7		02/01/2022	
Original Project End Date: 02/28/2026	Project End Date:		Number of Extensions:	
X On schedule ☐ On revised schedu	le 🗆 /	Ahead of schedule	☐ Behind schedule	
Overall Project Statistics:				
Total Project Budget	Total Cost to Date for Project		Total Percentage of Work Completed	
\$595,032.00	\$19,990		%1	
Quarterly Project Statistics:	•			
Total Project Expenses This Quarter		ount of Funds ed This Quarter	Percentage of Work Completed This Quarter	

%

\$13,839

Project Description: The objective of this research is to develop field-tested methods of integrating vehicle trajectory data into actuated signal control that can be directly implemented in traffic signal controllers. This research will identify the practical requirements and limitations of establishing trajectory-assisted actuated signal control, including requirements for acquisition, storage, and communication of vehicle trajectory data. The findings will be developed into a resource toolkit that will permit implementation and further development of the methods conceived during the course of the research.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

The team produced a literature review working paper which is being finalized at the time of writing. This working paper will be circulated to the project panel in July of 2022.

In addition, in anticipation of upcoming tasks, the research team has worked to identify sources of trajectory data from different detection systems to evaluate its readiness for providing trajectory-based actuated control. At the time of writing, the first datasets to support an evaluation were in the process of being collected.

Anticipated work next quarter: In the third quarter of 2022, the research team will commence work on Task 3 (Sensor Evaluation) and Task 4 (Establish Algorithm Environment).

Significant Results: There are no significant results to report at this stage of the project.