TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: <u>June 30, 2019</u>				
Lead Agency (FHWA or State DOT): _	_Indiar	na DOT		
INSTRUCTIONS: Project Managers and/or research project invest quarter during which the projects are active. Project task that is defined in the proposal; a perothe current status, including accomplishments aduring this period.	lease provide a centage compl	a project schedule statu etion of each task; a coi	s of the research activities tied to ncise discussion (2 or 3 sentences) of	
Transportation Pooled Fund Program Proje			Pooled Fund Program - Report Period:	
(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)		□Quarter 1 (January 1 – March 31)		
<u>TPF 5-387</u>		XQuarter 2 (April 1 – June 30)		
		☐Quarter 3 (July 1 –	September 30)	
		□Quarter 4 (October 1 – December 31)		
Project Title:	\i - Ot	- (IIAO) Validation Occ	-4	
Development of an Integrated Unmanned Annual Name of Project Manager(s):	Phone Number:		ter E-Mail	
Tommy E. Nantung	(765) 463-1521 ext. 248		tnantung@indot.in.gov	
Lead Agency Project ID:	Other Project	ct ID (i.e., contract #):	Project Start Date: 9/1/2013	
Original Project End Date: 9/1/2018	Current Proj 8/31/2021	ect End Date:	Number of Extensions: None	
Project schedule status:				
X On schedule ☐ On revised schedu	le 🗆 /	Ahead of schedule	☐ Behind schedule	
Overall Project Statistics:				
Total Project Budget	Total Cost to Date for Project		Percentage of Work Completed to Date**	
\$575,000		\$38,586	25%	
Quarterly Project Statistics:				
Total Project Expenses		ount of Funds	Total Percentage of	
and Percentage This Quarter	Expende	ed This Quarter	Time Used to Date**	

^{\$17,725 3.0% 36% *}Additional partners have joined S-BRITE and others have renewed participation, hence total project budget has increased.

^{**}Since end date has been extended, project percentages have been updated (estimates)

Project Description:

This study proposes to develop the basic standards, protocols, and testing requirements that a given UAS must meet and demonstrate for a particular application.

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

- Progress has been made in the initial development of evaluation criteria for UAS based on the kick-off meeting held in January of 2019. One of the concepts includes the development of a self-contained obstacle course that could be standardized for use. Such a standardized test has the advantage of ensuring that UAS meet the same base requirements, regardless of the state in which the inspection takes place.
- The research team is in the process of constructing concrete deck specimens with defects to evaluate the
 feasibility of creating such specimens for use in evaluating the capability of various UAS to detect and quatify
 such damage.
- The preliminary testing protocols for testing the capability of UAS began.
- Efforts are underway to develop the pilot and sensing evaluation criteria.

Anticipated work next quarter:

- Continue with the development of testing protocols
- Schedule Project Panel meeting for some time in the 3rd Quarter.

1. None to date

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the Agreement, along with recommended solutions to those problems).

While the project is back on schedule, the structural engineering student who recently joint the project has decided to pursue an MBA and will no longer be part of the project. This is the second student to leave the project which obviously has a negative impact on the project. Dr. Connor is seeking a new student at this time.

Potential Implementation:	
None to date	