CIAMTIS
U.S. DOT Region 3 University Transportation Center

UTC Project Information	
Project Title	Unmanned Aerial Vehicles for Inspection of Tack Coats and Ancillary Highway Structures
University	West Virginia University, George Mason University, Virginia Tech
Principal Investigator	PI: Fei Dai, West Virginia University Co-PI: David Lattanzi, George Mason University Co-PI: Linbing Wang, Virginia Tech Co-PI: Matthew Hebdon, Virginia Tech Co-PI: John Zaniewski, West Virginia University
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Funding Source(s) and Amounts Provided (by each agency or organization)	WVU Fed: $69,971 WVU Match: $69,971 GMU Fed: $69,112 GMU Match: $69,112 VTI Fed: $139,336 VTI Match: $139,336
Total Project Cost	$556,838
Agency ID or Contract Number	69A3551847103
Start and End Dates	1/20/20 to 1/20/2022
Brief Description of Research Project	This project will investigate the feasibility of using unmanned aerial vehicles (UAVs) to accelerate and improve the inspection of tack coats and ancillary structures. The research team will take a data-driven approach: identifying the key assessment needs and data products to support DOT inspection workflows, and to implement these criteria to dictate the development of the necessary algorithms and UAV hardware. The objective of this project is to investigate whether and how UAVs can be applied to enhance the current practice of inspection for tack coats during asphalt pavement renovation and for ancillary highway structures.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links ■ Reports ■ Project Website	