

Request for Research Funding for FY 2022-2023

SPR Subpart B Project: TEO-23-02

Requesting Office	District 5 District Traffic Operations Office	Priority	2 of 22
Proposed Title	Evaluation of the Deployment of Arterial Service Patrol Program in Central Florida		
Justification	Based on a recently completed FDOT project, a new service patrol program for arterials will be deployed in the Orlando area. The proposed project aims to evaluate the performance of the deployment by examining measures such as number of incidents served, the reduction in incident clearance time, the duration for which the service patrol vehicles are utilized. The study will also look potentially look at travel times and speeds on the serviced arterials to determine mobility benefits of the service.		
Impact	The study will objectively quantify the benefits of a newly deployed service patrol program for arterials. This will be critical for further enhancing the system and for deploying similar program in the rest of the state.		
Affected Offices	District 5 TSM&O		
Existing Work	<p>There are several projects that have examined the benefits of a service patrol program for freeways but there are none in the context of arterials. Deployments of service patrol programs for arterials are also rare.</p> <p>This work would be a follow-up to a recently completed FDOT Research Center project which evaluated the potential effectiveness of an arterial road ranger program and developed a pilot deployment plan. This work is important to validate the findings of the initial study using a pilot field deployment.</p>		
Keywords Used In Existing Work Search	Arterial Service Patrol, Evaluation,		
Related Contracts	None.		
Funding Request	\$128K	Anticipated Duration	16 months
Project Manager	Jeremy Dilmore Shawn Kinney (Co-PM)	Contracting Method	Direct contract with UF (Dr. Srinivasan)
Equipment	N/A	Comments* (understanding leases are preferred, include the proposed use of the equipment, whether lease options are feasible, whether work to be done with equipment could instead be procured through service expenditure, etc.)	
Urgency	1	Congestion on arterials is not going away. The sooner a solution to non-recurring congestion on arterials can be found, the better the transportation system will operate.	
Implementability	1	Districts have existing contracts for freeway road rangers which could be extended to include arterial road ranger service.	
Project Benefits (Succinct, complete explanation) This is the first time a newly deployed service patrol program on an arterial system will be objectively evaluated using several performance metrics using data collected from the field. This will help fine tune the existing deployment while also providing insights for expanding this program at other places in the state.			
Project Benefits (Select all that apply and explain)	Quantifiable Benefits (units, dollars, etc...if applicable)	Methodology or Data Sources Used to Determine Quantifiable Benefits. If not applicable, please give justification of project benefits	
<input type="radio"/> Materials Enhancement			

○ Materials Savings		
○ Time Savings	Minutes	By clearing incidents quickly, we prevent large reductions in speeds in arterials over extended periods of time and this reduces wasted travel times. Secondary crashes can also be reduced which further provides travel time savings
○ Lives Saved/Injuries Prevented	Numbers	By clearing incidents quickly, we are able to provide assistance to the affected victims faster possibly reducing the severity of their injury. Also, secondary crashes can be reduced.
○ Other (Explain)		

*Comments should explain and support urgency, financial benefit, and implementability scores