

Request for Research Funding for FY 2024-2025**Project Number** (Research Center Use Only): SMO-25-06

Requesting Office	SMO	Priority	6 of 15
Proposed Title	Costs of FDOT and Contractor Maintenance Procedures for Bridges and Pavements.		
Justification	<p>One measure of the importance of research is the cost savings potential. The Request for Research Funding Form specifically requests quantifiable project benefits information. The goal of most FDOT materials research is to improve the durability of concrete to increase its service life. If an improvement process is estimated to increase the service life of a structure by 10%, determination of the monetary benefit would require knowing the itemized initial construction costs and the service lifetime maintenance costs, including any additional costs incurred by the contractor to fix construction defects. A reasonable estimate of the savings could be made with this information. The goal of this research is to compile all the information needed to calculate the potential cost savings that can be achieved by implementing various concrete durability improvement procedures discovered through FDOT research.</p> <p>FDOT Compass: Technology – provides a means to determine the cost-effectiveness of implementing research that improves the durability of FDOT concrete.</p>		
Impact	Gives FDOT the data needed to determine the cost-effectiveness of FDOT research. Without this research, the value of durability improvement stemming from FDOT research cannot be properly assessed.		
Affected Offices/ Districts	State Materials Office District Maintenance Offices		
Existing Work	No existing research was found.		
Keywords Used In Existing Work Search (Cannot leave blank)	Cost-effective, concrete, research, saving		
Related Contracts (Give contract numbers)	N/A		
Funding Request	\$150,000	Anticipated Duration	15 months
Project Manager	PM: David Cerlanek Co-PM: Concrete Materials Engineer	Contracting Method	Direct contract with UF
Equipment	N/A		
Urgency	1	Necessary to estimate cost-effectiveness of FDOT-sponsored research.	
Implementability	1	No barriers to implementation.	

Project Benefits (Succinct, complete explanation)		Provides a means to determine the cost-effectiveness of implementing research (quantifying the project benefits) that improves the durability of FDOT concrete.
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
○ Materials Enhancement	N/A	
○ Financial Impact		Provides a means to determine the financial impact.
○ Time Savings	N/A	
○ Lives Saved/Injuries Prevented	N/A	
○ Other (Explain)		Provides a means to quantify research project benefits, which is information requested by the Research Center to assess the value of the research.

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