



ACCELERATED BRIDGE CONSTRUCTION
UNIVERSITY TRANSPORTATION CENTER

UTC Project Information	
Project Title	Developing ABC Success Index to Support Contractors During Pre-Project Planning
University	Florida International University
Principal Investigator	Dr. Mohamed ElZomor
PI Contact Information	melzomor@fiu.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	Accelerated Bridge Construction – University Transportation Center (ABC-UTC)
Total Project Cost	\$84,013
Agency ID or Contract Number	FIU-2016-4-1 (CYCLE 4, 2016)
Start and End Dates	April 1 st , 2021 to August 31, 2022
Brief Description of Research Project	The goal of this research is primarily geared towards supporting ABC projects through twofold: attracting contractors to adopt ABC projects and informing project stakeholders about ABC success indicators during the pre-project planning phase. Given the novelty of ABC method, providing knowledge of ABC success indicators during pre-project planning phase will have a significant impact on ABC project success. This is particularly true since planning efforts conducted during the early stages of a construction project, known as pre-project planning, which encompasses tasks from project scope, definition, alignment, funding source/s, initiation to the beginning of detailed design, has a significant effect on project success than efforts undertaken after project kickoff. Therefore, this study reinforces the success of ABC projects during the early planning phase by pre-informing contractors about the success indicators, which can be developed into a tool elicited from analyzing successes of previous ABC projects.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	The primary outputs for the project will be “Guide to being Used to Anticipate Success Rates for ABC Projects” and “an Interactive index that provides a prodigious impact to educate as well as attract prospective ABC stakeholders including contractors, junior engineers, FHWA, DOTs, etc.”. Those deliverables will be shared on websites, conferences, webinars to ensure their applicability and usability in the industry. The guide and matrix will summarize existing challenges, discuss incentive clauses, identify risks, showcase success criteria and best practices based on previous ABC projects in similar locations, SWOT

	<p>analyses related to Cost, Schedule; Contract Delivery Methods, Claims; and Quality Control and Assurances. The anticipated output would be the guide and interactive index to successful ABC projects for contractors/owners to consider during the planning phase of the ABC project.</p> <p>Couple of reasons to why this research has not been previously implemented, are the limited number of ABC projects and their accessibility as well as the limitation of preparing an Interactive index that provides guidance to ABC project teams.</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>The findings of the study foster the development of a streamlined procedure for effective adoption of ABC, which support (1) educating contractors to adopt ABC projects successfully; and (2) encouraging ABC stakeholders to understand and realize the required steps to achieve success in ABC projects during pre-project planning phase. One example of how the index will benefit and support ABC contractors' successes, is to prioritize safety through guiding contractors to avoid the traditional requests of compressing schedules and pressuring construction since this may compromise not only safety but also quality. Furthermore, the interactive index will alert ABC contractors about expected challenges as well as share previous ABC successes around the nation, which in turn would provide more confidence through showcasing quantitative comparative exemplar successes in ABC projects and thus increase bidding competition for ABC projects.</p>
<p>Web Links</p> <ul style="list-style-type: none"> • Reports • Project website 	