



**Project Requirements Form USDOT
CREATE UTC Contract Number 69A3552348330
Center Lead: Texas State University; Texas A&M University**



**Project Requirements Form USDOT
CREATE UTC Contract Number 69A3552348330
Center Lead: Texas State University; Texas A&M University**

Outputs: The findings of this study will be described in detail in journal and conference publications at the Transportation Research Board annual meeting. In addition, a workshop for interested federal, state, and local organizations involved in designing coastal and riverine bridge scour protection (e.g., TxDOT, USACE, TX General Land Office, Local MPOs, etc.) will be held on our campus to transfer the knowledge on applicable technology directly to responsible design agencies for implementation.

Outcomes/Impacts: The data collected as a part of this project will aid in evaluating the feasibility of a low-cost “hybrid” approach – bio-cementation in combination with geosynthetics – to mitigate scour in bridges on the coastline as well as on inland low-volume roads. Low-cost, hybrid bridge scour protection options can help prevent failure of critical transportation infrastructure. In that sense, the durability and service life of existing inland infrastructure is improved. The proposed research benefits local communities by: (i) maintaining critical transportation network connections (inland) and evacuation routes (coastal) and (ii) providing additional means to prevent complete bridge washouts and bridge failures during flood events.

Final Research Report: URL to final Report will be provided upon completion.