



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

partnerships with material suppliers, surface treatment producers, designers from engineering firms, and state transportation agencies. A current relationship is established with a US-based ICCP anode producer with a patented MMO coating technology. The current work involves collaboration with this organization.

Training and workshops will be produced and delivered to help educate specialty consultants and contractors in the methods. The PIs have experience developing codes (ACI, AASHTO-LRFD, and MBE) and standards (ASTM) and will produce reports, and peer-reviewed technical papers to support codification. As a part of the final report, design and construction specification language will be developed. The PIs will present findings to relevant AASHTO and ACI committees to help push the research into practice. The researchers will also work with state transportation agencies to identify proof-of-application demonstration projects.

Outcomes/Impacts: This research project aims to enhance concrete infrastructure rehabilitation by developing an innovative approach that integrates structural strengthening and cathodic protection using MMO-coated TiABs. By exploring the feasibility and optimizing the performance of this dual-purpose material, the project seeks to enhance the durability, safety, and longevity of aging concrete structures. The anticipated outcomes include a validated MMO-coated TiAB technology, an integrated rehabilitation methodology, and significant improvements in infrastructure safety, reliability, durability, and sustainability. This novel research has the potential to transform the field of infrastructure preservation, offering an economic and efficient solution to address the complex challenges of aging concrete, ultimately contributing to a more resilient and sustainable transportation network.

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