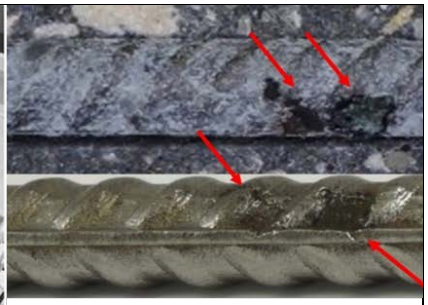
TriDurLE

National Center for Transportation
Infrastructure Durability & Life-Extension

UTC Project Information – National UTC TriDurLE	
Project Title	Corrosion propagation monitoring using galvanostatic pulse on reinforced concrete legacy samples
University	Florida Atlantic University
Principal Investigator	Francisco J. Presuel-Moreno
PI Contact Information	Department of Ocean and Mechanical Engineering Florida Atlantic University, SeaTech, 101 North Beach Road, Dania Beach FL 33004
Funding Source(s) and Amount Provided (by each agency or organization)	USDOT= 50,158 FAU match = $7,289 FDOT =$43,000
Total Project Cost	$100,447
Agency ID or Contract Number	
Start and End Dates	
Brief Description of Research Project	The corrosion propagation stage of carbon steel rebar in high performance concrete might last longer than the typically five years usually attributed for carbon steel rebar in concrete with type I/II Portland cement as the only cementitious material. Monitoring the corrosion rate for a longer period within the propagation stage is relevant. Legacy samples are available at FAU in which corrosion propagation will be monitored using galvanostatic pulse, on samples exposed outdoors and indoors
Describe Implementation of Research Outcomes (or why not implemented)	The findings likely would not translate to immediate implementation. The proposed period for monitoring will provide information as to how corrosion current evolves within the monitored period. However, it might not provide information about the corrosion current long-term evolution.

	  Single rebar specimens
Impacts/Benefits of Implementation (actual, not anticipated)	
Web links • Reports • Project website	