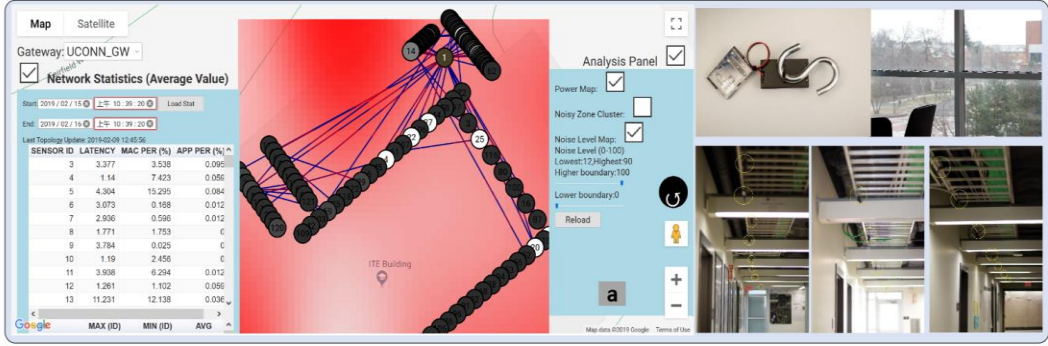


UTC Project Information – Project 4.3

Project Title	Towards Quantitative Cybersecurity Risk Assessment in Transportation Infrastructure
University	University of Connecticut
Principal Investigator	Dr. Song Han
PI Contact Information	Email: song.han@uconn.edu ; Phone Number: (860) 486-8771
Co-PI(s)	N/A
Co-PI Contact Information	N/A
Funding Source(s) and Amounts Provided (by each agency or organization)	U.S. DOT UTC-TIDC Total amount: \$252,300
Total Project Cost	\$252,300
Agency ID or Contract Number	N/A
Start and End Dates	Oct. 1st 2018 - June 30th, 2022
Brief Description of Research Project	This research project aims to systematically and quantitatively explore the connectivity and security issues in representative transportation infrastructures, including low-power wireless network infrastructure mainly for long-term structural monitoring, and vehicle-to-everything (V2X) communication infrastructure for vehicle-to-vehicle and vehicle-to-infrastructure message passing.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	<p>The research outcomes are implemented on a real-time wireless network simulator as well as a multi-hop real-time wireless network testbed for functional validation and performance evaluation. The developed wireless devices are also integrated into a wireless bridge joint monitoring system for long-term bridge structure monitoring.</p> 
Impacts/Benefits of Implementation (actual, not anticipated)	The implementation of the proposed methodologies enables the research team to validate the functions and evaluate their performance on real hardware and in real scenarios. This paved the way for the proposed methods to be deployed in real systems in transportation industries.
Web Links	<ul style="list-style-type: none"> • Reports • Project website <p>Reports link: Please refer to the TIDC website Project website: https://cps.cse.uconn.edu/dot-tidc-project/</p>