

UTC Project Information	
Project Title	Evaluation of transportation safety against flooding in disadvantaged communities
University	San Diego State University
Principal Investigator	Hassan Tavakol
PI Contact Information	Email: htavakol@sdsu.edu , Phone: (619) 665-2344
Funding Source(s) and Amounts Provided (by each agency or organization)	Safe-D (Federal): \$45,000 In-kind match source (Non-Federal): \$30,000
Total Project Cost	\$75,000
Agency ID or Contract Number	Grant No: 69A3551747115 Project: 05-101
Start and End Dates	Start Date: 10/15/2020 End Date: 1/15/2022
Brief Description of Research Project	This project will systematically extract transportation safety information from multiple complex sources of flood monitoring data such as surface flow gages, weather stations, and remote sensing devices which can support informed planning for safety against flooding in future smart cities.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	<p>Our methods, findings and datasets will be presented in:</p> <ul style="list-style-type: none"> • Final report and data <p>Education and Workforce Development (EWD): Our EWD plans are aimed at benefiting K-12 and graduate students, as listed below. The student working on this project is a graduate student.</p> <ul style="list-style-type: none"> • Presenting at STEM Exploration Day (K-12) • Create learning module for Graduate Course • Presenting at SDSU Student Research Symposium (SRS) <p>Technology Transfer (T2): Our T2 activities are designed to engage multiple stakeholders across the US through a close collaboration with the project champion.</p> <ul style="list-style-type: none"> • Journal Article Submission • Initial Meeting with Champion to Collect Data/Feedback on Industry's Priorities • Second Meeting with Champion to Ask Feedback on the Preliminary Flowchart of Analytical Framework • Conduct Demonstration of the Near-Final Models/Findings for Champion • Safe-D Webinar

<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>Through this project, we will develop a decision support system to identify and prioritize candidate locations for future installation of roadside units for flood monitoring. The benefits of implementing such units is promoting the transportation safety through notifying the drivers of upcoming flooded segment on their route.</p>
<p>Web Links</p> <ul style="list-style-type: none">• Reports• Project website	<p>https://safed.vtti.vt.edu/projects/evaluation-of-transportation-safety-against-flooding-in-disadvantaged-communities/</p>