

Date of Last Update (edit each time): **10/09/2020**

UTC Project Information	
Project Title	Automated Shuttles and Buses for All Users
University	Texas A&M Transportation Institute (TTI)
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Funding Source(s) and Amounts Provided (by each agency or organization)	Safe-D (Federal): \$150,000 Texas Department of Transportation, Texas A&M University, City of Arlington, Texas A&M Transportation Institute (Non-Federal): \$150,000
Total Project Cost	\$300,000
Agency ID or Contract Number	Grant No: 69A3551747115 Project: 05-093
Start and End Dates	10/01/2020 – 3/31/2022
Brief Description of Research Project	Individuals using wheelchairs and those with limited or no sight face extra safety issues in the use of public transit, as well as personal vehicles, including getting to and from a bus or shuttle stop, getting on and off a vehicle, and being secure while riding in a vehicle. The demonstrations of automated shuttles and buses have included limited participation by the disabled community. This project will address that gap by introducing individuals with disabilities to an automated shuttle in Arlington and a Smart Intersection in College Station, assessing their safety perception before and after riding in the shuttle and navigating the intersection, and assessing information on their complete trip. The project will identify improvements in the vehicles, service operations, and the street system and built environment to ensure that individuals with disabilities have equal and safe access to automated shuttles and buses to improve their mobility and quality of life.
Describe Implementation of Research Outcomes (or why not implemented)	The results of this project will be of benefit and use to students, faculty and a wide spectrum of consumers including transit agencies, local communities, state departments of transportation, vehicle manufacturers, industry, the disabled community, the U.S. Department of Transportation, and other groups. Education and workforce development and technology transfer elements include the following products and activities:
Place Any Photos Here	

	<ul style="list-style-type: none"> • One class lecture, with lecture notes, PowerPoint slides, and small group activity • Delivering the lecture to classes and student groups. • Project report. • Project YouTube video. • Project briefs. • Project PowerPoint presentations. • Conference presentations. • Conference papers. • Journal articles. • Workshops. • Roundtable Forums.
Impacts/Benefits of Implementation (actual, not anticipated)	The safety improvements identified through this research will be of benefit and use to vehicle manufacturers, industry, transit agencies, local governments, state departments of transportation, and the U.S. Department of Transportation, and other groups to help ensure that individuals with disabilities have equal access to automated shuttles and buses to enhance their mobility and quality of life. The results will benefit individuals with disabilities.
Web Links <ul style="list-style-type: none"> • Reports • Project website 	https://safed.vtti.vt.edu/projects/4075-2/