CENTER FOR CONNECTED AND AUTOMATED TRANSPORTATION

Project Title	The impact of COVID-19 on user perceptions of public transit, shared mobility/micro-mobility services, and emerging vehicle types	
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Most relevant CCAT research thrusts (choose all applicable)	_____ Enabling Technology ___X__ Planning and Policy _____ Human Factors _____ Infrastructure Design and Management _____ Control and Operations _____ Models and Implementation	
Funding Request	$100,544	
Matching Funds and Source (if any)	$100,544 (Indiana DOT)	
Total Project Cost	$201,088	
Contract Number	69A3551747105	
Project start/end dates	January 29, 2021 to January 28, 2022	
Project Abstract	The objective of this project is to investigate the impact of COVID-19 on user perceptions of public transit, shared mobility services, and emerging vehicle types (electric, connected, and autonomous vehicles). As transportation systems remain at the forefront of the COVID-19 pandemic, it is critical to examine the transportation trends and behaviors of shared modes’ and emerging vehicle types’ users to best plan for transportation policies in the long-run. We propose to conduct user surveys and behavioral experiments in select communities with different levels of transit and smart mobility usage [Indianapolis (low), Salt Lake City(medium), and Chicago(heavy)] to assess user perceptions for public transit, emerging technologies such as ridesharing, electric vehicles, and micro-mobility services in the COVID era. The impacts of the pandemic on user perceptions for	

	public transit, shared mobility/micro-mobility services, and emerging vehicle types will be discussed followed by the corresponding planning/policy implications on transportation system utilization. This project will be of interest to the research community, transit operators, shared mobility and micro-mobility services operators, and other transportation professionals to help them gain a better understanding of the impacts of the pandemic on user perceptions for public transit, shared mobility, and micro-mobility services.
High-level implementation plan	The main drivers of the implementation of the research findings in Indianapolis will be INDOT, IndyGO, Indianapolis Metropolitan Planning Organization (MPO), and Indianapolis Cultural Trail, Inc. The research team will also reach out to the Shared-Use Mobility Center in Chicago, and transit operators in each of the study areas (IndyGO, Utah Transit Authority, and Metra). As part of the leadership team of ASPIRE, the PI will disseminate this projects' findings to the ASPIRE community and partner industry, government and non-profit agencies. As a Purdue Policy Research Institute (PPRI) Faculty affiliate, the PI will be contributing some content from this research for a general audience (such as the PPRI blog), providing a policy brief, and participating in PPRI events.
Project Metrics	• Number of papers presented at nationally and internationally renowned conferences • Number of papers published • Number of graduate student theses • Media stories and website hits
Web Links: [leave blank until project approval]	ccat.umtri.umich.edu https://engineering.purdue.edu/ccat https://www.purdue.edu/discoverypark/cav/nextrans/index.php