



CENTER FOR CONNECTED AND AUTOMATED TRANSPORTATION

Project Title	Behavioral Intention to Ride AVs and Impacts on Mode Choice Decisions, Energy Use and Emissions
University	Purdue University
Principal Investigator	Dr. Konstantina “Nadia” Gkritza
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Funding Request	\$65,000 (USDOT)
Funding Source(s) and Amounts Provided (by each agency or organization)	\$65,000 (INDOT/JTRP – Cost Share)
Total Project Cost	\$130,000
Agency ID or Contract Number	69A3551747105
Project start/end dates	01/01/2017-12/31/2021
Project Abstract	The potential impacts of automated vehicles (AVs) are far-reaching and complex. They include direct impacts on safety, vehicle operations, energy, environment, and personal mobility, as well as secondary impacts on travel behavior and land use. The objectives of this project are threefold using the results of stated preference survey: (i) assess the behavioral intention to ride in AVs, (ii) investigate the effect of the emergence of shared AVs on mode choice decisions in the short and long run and the corresponding effect on value of travel time savings (VTTS), and (iii) assess the energy and environmental implications due to the emergence of AVs offering single-passenger rides.
Most Relevant CCAT Research Thrusts (choose all applicable)	<input type="checkbox"/> Enabling Technology <input checked="" type="checkbox"/> Policy & Planning <input type="checkbox"/> Human Factors <input type="checkbox"/> Infrastructure Design & Management <input type="checkbox"/> Control & Operations <input type="checkbox"/> Modeling & Implementation
Impacts/Benefits of Implementation (actual, not anticipated)	A better understanding of the future demand for these new technologies can better support state agencies’ supply-related decisions, such as investments in new capacity, allocation of funding for maintenance activities, etc. Also, it can help to anticipate the physical impacts on infrastructure as well as the corresponding energy and environmental implications associated with a large diffusion of AVs.





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Impacts/Benefits of Implementation (actual, not anticipated)	
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

