Safety and Health Impacts of Mobility Alternatives Technology Transfer

Technology Transfer Activities

by

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1 Outputs

The following outputs highlight the dissemination and scholarly contributions resulting from the project, including local, national and international conference presentations.

1.1 Output #1

Dr. Michalaka presented “Safety and Health Impacts of Mobility Alternatives”, at TUDelft Faculty Lunch Colloquium in The Netherlands, Sept. 13, 2023. (International presentation)

1.2 Output #2

Dr. Michalaka presented “Potential Reduction of Fatal Crashes in South Carolina due to Automated Vehicles” to Southern District Institute of Transportation Engineers (SDITE) Annual Meeting in Wilmington, NC, April 4, 2024.

1.3 Output #3

Dr. Michalaka presented on “Safety and Health Impacts of Mobility Alternatives” at the 2024 International Conference on Transportation & Development in Atlanta, GA, on June 17, 2024. The presentation focused on 3 individual projects that fall under the overarching theme of safety and health impact of mobility alternatives. The projects were:

a. Evaluation of Transportation Network Infrastructure, Safety, and Travel Route Characteristics of Bike Share, Electric-Powered Pedal-Assist Bike Share, and Electric Scooter System Operation (STRIDE funded)
b. Assessing Transportation Infrastructure Segments for Bike Suitability (C2M2 funded)
c. Potential Reduction of Fatal Crashes in South Carolina due to Automated Vehicles (C2M2 funded)

1.4 Output #4

Dr. Michalaka presented “Safety and Health Impacts of Mobility Alternatives” at the C2M2 8th Annual Fall Conference, Columbia, SC, Aug. 22, 2024.

1.5 Output #5

Student Joshua Wetmore presented on “Connected and Automated Vehicle Technologies and Related Legislation” during the Academic Excellence Day on Friday, April 5th, 2024 at The Citadel.

2 Outcomes

Short lesson plans and one-pages were developed to effectively communicate the project findings to students and a non-engineering audience.

2.1 Outcome #1

Several students and professionals engaged with the research topics and findings.

2.2 Outcome #2

One-page project summaries were created to summarize the projects to non-engineering audience.

3 Impacts

This project focused on the technology transfer of three completed C2M2 research efforts by communicating key findings to a broad audience. Through national and international presentations, and the creation of accessible outreach materials, the project increased awareness of the potential safety benefits of automated vehicles, the public health impacts of active transportation, and the operational advantages of AI-supported truck platooning.