### ASSESSING TRANSPORTATION INFRASTRUCTURE SEGMENTS FOR BIKE SUITABILITY

# **Technology Transfer Activities**

by

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## Technology Transfer Activities

#### 1 Outputs

The following outputs highlight the dissemination and scholarly contributions resulting from the project, including peer-reviewed publications, national and international conference presentations, and direct engagement with municipal stakeholders.

#### 1.1 Output #1

Dr. Michalaka presented "Assessing Transportation Infrastructure Segments for Bike Suitability" at the C2M2 8<sup>th</sup> Annual Fall Conference in Columbia, SC on Aug. 22, 2024.

#### 1.2 Output #2

The research team presented the journal article "Assessing Bike Suitability of Transportation Infrastructure Segments" at the 104th Transportation Research Board Annual Meeting, on Jan. 7, 2025 in Washington, DC. Authors: Dimitra Michalaka, Chun-Hsing (Jun) Ho, Kewei Ren, Yuche Chen, Xiwen Hao, Kweku Brown, Nathan Huynh, William J. Davis.

#### 1.3 Output #3

Dr. Michalaka presented "Assessing Transportation Infrastructure Segments for Bike Suitability" at the International Conference on Transportation & Development 2024, Atlanta, GA, June 17, 2024

#### 2 Outcomes

The following outcomes illustrate the project's ongoing impact through the formation of strategic research collaborations and the wide dissemination of findings to professional, academic, and community audiences.

#### 2.1 Outcome #1

Several collaborations with teams across SC and NE were formed to further analyze the data collected by bikes.

#### 2.2 Outcome #2

Project findings were disseminated in local, national, and international forums connecting with transportation engineers, city planning officials, interested communities, and stakeholders through technology transfer.

#### 3 Impacts

This project provided a low-cost approach for evaluating the condition and suitability of cycling infrastructure using sensor-equipped (mainly cellphones) bicycles. The findings offer valuable insights for transportation agencies, city planners, and policymakers to identify and prioritize infrastructure improvements that enhance safety, accessibility, and equity for cyclists.