

PROJECT OVERVIEW REPORT

- 1. UTC Identifying Number 69A3551847102
- 2. Center Identifying Number CAIT-UTC-REG40
- Project Title
 Zero Speed Profiler Assessment for Pavement Smoothness and Continuous Pavement Texture Measurements
- Principal Investigator & Contact Information Michael Boxer, M.S. Project Engineer Rutgers, the State University Center for Advanced Infrastructure and Transportation 100 Brett Road Piscataway, NJ 08854
- 5. Rutgers/CAIT Project Manager Patrick Szary, Ph.D.
- 6. Customer Principal

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7. Project Description

The primary goal of this proposal is to evaluate a state of the art technology in roadway profiling called Zero Speed Profiling. Conceptually developed under NCHRP Project 10-93, "Measuring, Characterizing, and Reporting Pavement Roughness of Low-Speed and Urban Roads," this research study will evaluate the methodologies and concepts proposed in NCHRP 10-93 on New Jersey pavements and bridges. It is anticipated that with successful implementation, the Zero Speed Profiler will provide a better assessment of the current pavement profile when compared to the High Speed Profiler. A more realistic and comprehensive pavement surface assessment will result in better decisions regarding how to preserve or rehabilitate the pavement.

8. Implementation of Research Outcomes (or why not implemented)

The first Implementation task to be proposed will be presentations of research findings to the NJDOT, NJ State asphalt industry and federal agency members



(FAA and FHWA). The second Implementation task proposed will be a workshop consisting of how the Zero Speed Profiler and its respective capabilities can be beneficial to local, state, and federal agencies required to monitor highways. Lastly, based on the availability of the interested agencies, it will be recommended that the technologies be introduced through pilot projects to create a real-world scenario where the Zero Speed Profiler can be utilized and the proposed specification be evaluated thoroughly prior to full implementation.

- 9. Impacts/Benefits of Implementation (actual, not anticipated) To Be Determined
- 10. Dates and Budget

Start date: 1/1/2021 End date: 12/31/2021 UTC (CAIT) Dollars: \$85,590 Cost Sharing: \$85,025 Total Dollars: \$170,615

11. Keywords

Pavement profile, pavement texture, International Roughness Index, skid resistance

12. Web Links (Reports and Project Website)

https://cait.rutgers.edu/research/zero-speed-profiler-assessment-for-pavementsmoothness-and-continuous-pavement-texture-measurements/