**Abstract of Advanced Analytics Project**

**The Impacts of the FHWA-sponsored projects on the transportation industry, the traveling public, and any other beneficiaries**

By

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This study aims to assess the impact of completed Federal Highway Administration (FHWA)-sponsored projects on the transportation industry, the traveling public, and other relevant stakeholders. By analyzing a variety of impact measures, the research seeks to provide a comprehensive evaluation of how these projects have influenced key areas such as safety, efficiency, resilience, and environmental sustainability. Specifically, the study will examine the number and significance of pending and awarded patents resulting from these projects, as well as the extent to which products developed through these efforts have been implemented by state Departments of Transportation (DOTs) and other transportation agencies. Furthermore, the research will analyze both qualitative and quantitative data on the influence of SBIR (Small Business Innovation Research) products on improving transportation system safety, operational efficiency, and resilience to disruptions. The study will also explore the environmental impacts of these products, including their contributions to reducing emissions, energy consumption, and other ecological footprints. Additional metrics, such as cost-effectiveness, user satisfaction, and overall public safety improvements, will also be incorporated to provide a holistic understanding of the long-term benefits of FHWA-sponsored innovations. Ultimately, the study will offer valuable insights into how federal investments in transportation innovation translate into tangible benefits for the transportation sector, the environment, and the public at large.