





#### DECEMBER 2023

Project Title:

TPF-5(440) - Support for Urban Mobility Analyses - Pooled Fund Study (Continuation from TPF-5(198)/Task ID 2081)

Task Number: 3974

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Completion Date: August 29, 2023

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# TPF-5(440) - Support for Urban Mobility Analyses - Pooled Fund Study

Researchers are studying congestion reduction strategies in order to apply them in urban areas in an effort to improve mobility and reduce traffic congestion.

## WHAT IS THE NEED?

Traffic congestion is a big problem in urban areas which degrades mobility. Research is needed in order to mitigate congestion and improve mobility.

# WHAT ARE WE DOING?

All stake holders participating in this pool fund research formed a Steering Committee, which decides on the congestion reduction methods to include in the new methodology and which cities will be included in the study. Researchers will continuously refine the Traffic Congestion Index to include multi-modal operations on regional operational improvement programs (i.e., ITS service, incident detection and response, travel demand management, transportation systems management, and computerized signal control coordination). Additional urban areas will be included in this research as needed. Researchers will respond to requests for mobility data by stakeholders and will publish an annual Urban Mobility Report which describes the scope of the mobility problem and some of the potential improvement strategies users can implement to try and mitigate the congestion mobility problem.

#### WHAT IS OUR GOAL?

Our goal is to develop improved mobility strategies and implement them in order to be able to reduce traffic congestion and improve mobility on the roads.



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# WHAT IS THE BENEFIT?

The Department can potentially benefit from the outcome of this research by implementing the improved urban mobility strategies results of this research. The public may benefit from the implementation of these improved mobility strategies which have the potential to reduce traffic congestion and improve mobility on the roads.

#### WHAT IS THE PROGRESS TO DATE?

Each bulleted item below is a deliverable provided by TTI in FY2023 followed by the deliverable format and delivery date.

# Task 2: Understand Traffic Reduction Impacts on Key Performance Measures

- Comparison of Impact of Traffic Reduction on Performance Measures in Six Urban Areas (Technical Memorandum, August 2023)
- Webinar conducted on August 16, 2023 to discuss results of the analysis.

# Task 3: Develop Performance Assessment and Evaluation Analytical Tools

- FIXIT User's Guide (including a link to the webbased tool) (Technical Memorandum, August 2023)
- FIXIT Tool (web-based and provided as a link in the User's Guide) (Web-based tool, August 2023)
- Webinar conducted on August 29, 2023 to demonstrate the tool. (Delivered PPTs and Webinar Recording)
- Completed one-pager for Truck-Related Auxiliary Lanes (August 2023)

#### Task 4: Synthesis Development

- Technical memorandum conveying meeting notes and presentation materials from an internal equity expert technical workshop (Delivered August 2023)
- Equity Roadmap technical memorandum (Delivered August 2023)

#### Task 5: Support Sponsoring Agencies

- New Mexico Department of Transportation Site Visit Meeting Notes (PDF, June 2023)
- Oregon Department of Transportation Site Visit Meeting Notes (PDF, July 2023)
- Summary of Support of Urban Mobility Analysis FY2022 Deliverables by Task (this Technical Memorandum, August 2023)

#### Task 6: Support Travel to Annual Meeting

- Kickoff Meeting Slides and Notes (as PDF, November 2022)
- Annual Meeting Slides and Notes (as PDF, July 2023)
- FY24 Scope of Work outline (August 2023). Draft scope to be distributed for review after pooled fund is transitioned to MnDOT as lead agency.