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 stakeholders 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.
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?

Since 2009, this Pool Fund has produced 19 publications.

2. Freight Measures for Transportation System Resilience (August 2021)
3. Congestion Pie Chart for Different Sources of Congestion (March 2021)
4. Project Prioritization Practices and Methods (May 2020)
5. Advanced Tableau Guidance for Transportation Uses (December 2019)
9. Transportation Performance Monitoring Visualization Tools (December 2017)
10. Market Penetration of AV/CV and Associated Effects on Traffic Harmonization & Delay Reduction (June 2017)
11. Practices for Prioritizing Operational Improvements with Capacity Projects (December 2016)
15. Developing a Total Peak Period Travel Time Performance Measure: An Updated Concept Paper (May 2013)
17. Detector Life-Cycle Costs and Considerations (May 2011)
18. Developing and Applying Arterial Corridor Travel Time Index Estimation Models (August 2010)

LEARN MORE

Websites:

- https://pooledfund.org/Details/Study/664
- https://tti.tamu.edu/researcher/urban-mobility-pooled-fund-study-surpasses-two-decades-of-service-to-sponsors-nationwide/
- https://mobility.tamu.edu/project/support-for-urban-mobility-analyses/