Federal Highway Administration (FHWA) Institutional Foundation for Effective Operations: Current Program Activities

New Projects

Complete Trips Data Analysis, Acquisition, and Multimodal Measure Testing—This project is the third in a series of studies to define a multimodal system performance measure; identify and specify the data needed to calculate; and, in this third part, acquire a sample Complete Trip Dataset and test the multimodal system productivity measure.

Expected Completion: December 2025

For more information, contact Rich Taylor (rich.taylor@dot.gov, 202–366–1327).

Travel Time Reliability Product Completion—This project will complete development of several travel time reliability data and analysis tools that were begun under the second Strategic Highway Research Program (SHRP2). The products focus on travel time reliability and are aimed at assisting transportation agencies and practitioners in how to incorporate effective travel time reliability analyses into their roadway management and operations practices.

Expected completion: June 2025

For more information, contact Tracy Scriba (tracy.scriba@dot.gov, 202–366–0855).

Ongoing Projects

Urban Congestion Report (UCR) Program and Operations Dashboard—This project will produce UCR products (including quarterly measures and reports and annual Urban Congestion Trends reports) using the National Performance Management Research Data Set (NPMRDS), provide research into and options for a monthly national dashboard and supporting information, and offer related technical assistance.

Expected completion: March 2025

For more information, contact Rich Taylor (rich.taylor@dot.gov, 202–366–0855).

Influence of Operational Strategies on PM3 and Other Travel Time-Based Measures—This project will develop operational strategy evaluation approaches, including before and after evaluations, and will look for and define relationships between these outcomes and the third performance measure rule, or PM3. The project focuses on recurring congestion operational strategies for both freeway and arterial operations and will produce a primer as well as an outreach and training plan.

Expected completion: April 2024

For more information, contact Rich Taylor (rich.taylor@dot.gov, 202–366–1327)

TSMO Strategy Toolkit—This project is creating a TSMO Strategy Toolkit to help practitioners understand the range of available TSMO strategies, identify strategies that might be most useful for their situation or issue, and easily connect with existing resources to help them apply the strategies. The toolkit will include a strategy matrix, fact sheets, and tips for using the toolkit.

Expected completion: December 2024

For more information, contact Tracy Scriba (tracy.scriba@dot.gov, 202–366–0855).

National Highway Institute (NHI) Web-Based Training on TSMO 101, the Capability Maturity Model (CMM), and TSMO Benefit-Cost Analysis (BCA)—This project will develop three NHI online training courses: (1) an introductory course for transportation professionals and other stakeholders who may not be familiar with TSMO; (2) a course on the CMM that targets State and local TSMO champions who wish to better understand the CMM and conduct a self-assessment within their agency; and (3) a course to equip TSMO practitioners to conduct BCA for TSMO projects.

Expected completion: TSMO 101 and CMM: April 2024
TSMO BCA: July 2024

For more information, contact Joe Gregory (joseph.gregory@dot.gov, 202–366–0610).

The Role of Operations in Complete Streets—This project will develop a primer and brochure to help illustrate the role of operations in Complete Streets projects and initiatives. The primer and brochure will frame potential operational effects on different street users and show how operations strategies, such as parking management, traffic signal timing, real-time information, and multimodal strategies, can be leveraged to enhance Complete Streets concepts.

Expected completion: June 2024

For more information, contact Jim Hunt (jim.hunt@dot.gov, 202–680–2679).

Use of Real-Time Operations Strategies and Data for Proactive Safety Intervention—This project will synthesize the availability of real-time operational strategies and data to support dynamic safety countermeasures. Recognizing that safety analysis often relies on historical data and implementing countermeasures retroactively, this project will advance the use of short-term safety intervention based on real-time and forecasted conditions.

Expected completion: August 2024

For more information, contact Jim Hunt (jim.hunt@dot.gov, 202–680–2679).

Toolkit and Case Studies for Improving Equity in Transportation Operations—This project will develop a basic set of technical resources that transportation professionals can use to ensure that transportation operational improvements, strategies, and services are implemented with transportation equity considerations in mind. Resources will include case studies of current innovative practices and an online practitioner toolbox.

Expected completion: September 2024

For more information, contact Eddie Curtis (eddie.curtis@dot.gov, 404–780–0927).

Develop a Framework for Integrating Emerging Trends and Technologies to Advance TSMO Programs in Local Agencies—This project will develop a flexible framework to help agencies assess and integrate emerging trends and technologies in the transportation systems management and operations (TSMO) efforts of transportation stakeholders, with an emphasis on local agencies. The end product will include examples showcasing the framework and ways it could be applied.

Expected completion: December 2024

For more information, contact Joe Gregory (joseph.gregory@dot.gov, 202–366–0610).