

Performance Measures

Introduction

MAP-21 and FAST ACT requires incorporation of Performance-Based Planning and Programming (PBPP) be used in development of the Metropolitan Planning Organization (MPO) Long-Range Transportation Plans (LRTP) and Transportation Improvement Plans (TIP). The Statewide and Nonmetropolitan Transportation Planning; Metropolitan Transportation Planning; Final Rule further defined the TIP shall include, to the maximum extent practicable, a description of the anticipated effect of the TIP toward achieving the 23 CFR 490 performance measures targets identified in the metropolitan transportation plan, linking investment priorities to those performance targets (23 CFR 450.326(d)).

The Duluth-Superior Metropolitan Interstate Council will utilize its planning and programming of projects to contribute to the accomplishments of localized and statewide safety performance targets.

23 USC 150: National performance measure goals are:

- **Safety** - To achieve a significant reduction in traffic fatalities and serious injuries on all public roads
- **Infrastructure Condition** - To maintain the highway infrastructure asset system in a state of good repair
- **Congestion Reduction** - To achieve a significant reduction in congestion on the National Highway System
- **System Reliability** - To improve the efficiency of the surface transportation system
- **Freight Movement and Economic Vitality** - To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.
- **Environmental Sustainability** - To enhance the performance of the transportation system while protecting and enhancing the natural environment
- **Reduced Project Delivery Delays** - To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices
<https://www.fhwa.dot.gov/tpm/about/goals.cfm>

MAP-21/Fast Act Performance Measures as established in 49 USC 625 and 23 CFR 490 are:

- Transit
 - Rolling Stock: The percentage of revenue vehicles (by type) that exceed the useful life benchmark (ULB).
 - Equipment: The percentage of non-revenue service vehicles (by type) that exceed the ULB.
 - Facilities: The percentage of facilities (by group) that are rated less than 3.0 on the Transit Economic Requirements Model (TERM) Scale.
 - Infrastructure: The percentage of track segments (by mode) that have performance restrictions. Track segments are measured to the nearest 0.01 of a mile.
- Safety
 - Number of fatalities
 - Fatalities per 100 million vehicle miles traveled
 - Number of serious injuries
 - Serious injuries per 100 million vehicle miles traveled
 - Number of non-motorized fatalities and non-motorized serious injuries
- Infrastructure
 - Percentage of pavements of the Interstate System in Good condition
 - Percentage of pavements of the Interstate System in Poor condition
 - Percentage of pavements of the non-Interstate NHS in Good condition

- Percentage of pavements of the non-Interstate NHS in Poor condition
- Percentage of NHS bridges classified as in Good condition
- Percentage of NHS bridges classified as in Poor condition
- System Performance on NHS
 - Interstate Travel Time Reliability Measure: Percent of person-miles traveled on the Interstate that are reliable
 - Non-Interstate Travel Time Reliability Measure: Percent of person-miles traveled on the non-Interstate NHS that are reliable
- Freight Movement
 - Freight Reliability Measure: Truck Travel Time Reliability (TTTR) Index

MPO's Performance-Base Planning and Programming processes

Federal performance-based planning requirements direct metropolitan planning organizations to establish performance measures for safety, pavement, bridge, reliability, freight, CMAQ, and transit asset management and safety. The intent of these provisions is to demonstrate how federally-funded investments are helping to meet national, state and local transportation performance targets. TIP project solicitation and projects within the TIP will work to deliver efforts in meeting the adopted performance based measures. Additionally, the Long Range Transportation Plan (<http://dsmic.org/planning/long-range/>) will provide the overall long term objectives for guidance to help the MPO and Wisconsin Department of Transportation annually set performance measures and future projects to positively influence these measures. MIC performance based planning information can be found at <http://dsmic.org/study/performance-measures/>.

Discussion of current MPO Performance Measures

The MIC adopted the State of Wisconsin Highway Safety Improvement Program (HSIP) performance measure targets by resolution on February 21, 2018. The MIC will plan and program projects so the projects contribute to the accomplishment of WisDOT's calendar year 2018 HSIP targets.

Discussion of MPO's Safety Performance Measure MPO Targets or future actions to establish targets For the Wisconsin portion of the MIC area, the MIC Board passed [Resolution #18-05](#), adopting the WisDOT Highway Safety Improvement Program (HSIP) Performance Measure Targets for 2018, as follows:

of Traffic fatalities = 556.1

Rate of Fatalities = 0.917/100MVMT

of Serious injuries = 3,023.9

Rate of Serious Injuries = 4.997/100MVMT

of Non-motorized fatalities and serious injuries = 343.3

The MIC will work with WisDOT and coordinate future actions and discussion of the other performance measure targets (i.e. pavement, bridge, system performance targets) needing to be added to future TIPs or TIP Amendments, where applicable.

Discussion linkage of investments to established performance measures

Jurisdictional entities will analyze the adopted performance based measures during consideration of project development. This review will enable engineers and local planning staff opportunities to determine how different aspects of project scoping and development scenarios may positively or negatively impact performance measures locally.

Future performance measure activities and coordination

The MIC will coordinate with WisDOT to ensure consistency and review existing year HSIP Program Targets and other future considered statewide targets. Future calendar year performance targets will be coordinated and executed prior to the end of present year performance targets.