

MnDOT Transportation Systems Management and Operations (TSMO)



TSMO is a set of strategies to anticipate and manage traffic congestion, and minimize the unpredictable causes of disruption and delays, thereby maintaining roadway capacity while improving reliability and safety. Causes of disruption and delays include reoccurring congestion due to increased peak period demand and bottlenecks, or non-reoccurring congestion caused by weather, crashes, stalled vehicles, special events, and work zones. While a large part of the TSMO program is focused in the Metro area due to daily congestion, TSMO is a statewide program delivered by all districts.

Background

MnDOT has a long history using innovative strategies and programs to improve safety, reliability and reduce congestion. These include Active Traffic Management, Freeway Incident Response Safety Team (FIRST), Smart Signals, Smart Work Zones, MN511 Traveler Information, Road Weather Information Systems and more. However, through SHRP2 research it has been shown that to improve upon these programs an organization needs to deliberately improve its capabilities in six specific dimensions: business process, systems and technology, performance measurement, culture, organization and workforce, and collaboration. The MnDOT is currently finalizing a TSMO plan which includes a TSMO Strategic Plan, TSMO Implementation Plan, and TSMO Business Plan.

