What is TSMO?

Transportation Systems Management Operations (TSMO) is a set of strategies that focuses on operational improvements to maximize the efficiency and safety of existing transportation systems.

TSMO gets the most performance out of existing roadways.

Why do we use TSMO? TSMO is proven tool to manage existing transportation systems, especially in urban areas where space is at a premium.

How it works? TSMO uses data, technology and collaboration to implement a series of strategies to optimize system mobility and reliability and improve the driver experience. What TSMO Can Include:

Ramp Metering controls the frequency of vehicles entering the roadway to match road capacity.

Variable Speed Limits (VSLs) adjust based on real-time traffic, roadway incidents, work zones, and weather conditions.

Dynamic Shoulder Lanes use the shoulder for additional capacity during peak congestion or in response to incidents.

Improved Signage increases driver knowledge and awareness of current traffic conditions to keep motorists informed.

Dynamic Lane Control includes opening or closing individual traffic lanes based on current conditions using signals above each lane.

Queue Warning uses real-time displays of messages to alert drivers to slowdowns ahead.

Event Management reduces congestion by improving operation and maintenance practice like incentivizing tow companies to quickly remove disabled vehicles.

Key Benefits of TSMO: Safety, Reliability, Efficiency

TSMO reduces crashes and fatalities, optimizes travel times in critical corridors and implements strategies to optimize the capacity of the existing transportation system and alleviate congestion. Other benefits include increased fuel economy, cleaner air, and more efficient use of resources – both funding and facilities.