

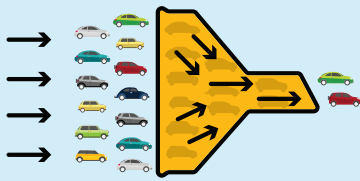
WHAT is TSMO?

An integrated approach to programmatic optimization of **planning, engineering, operations, and maintenance** in implementing new and existing multi-modal systems, services, and projects to preserve capacity and improve the security, safety, and reliability of our transportation system.

HOW does TSMO work?

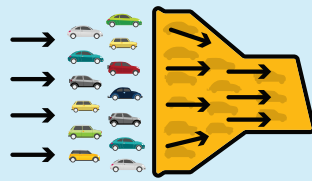
CONGESTION PROBLEM

When large volumes of vehicles try to use a road all at once, it creates traffic jams, making traffic move very slowly.



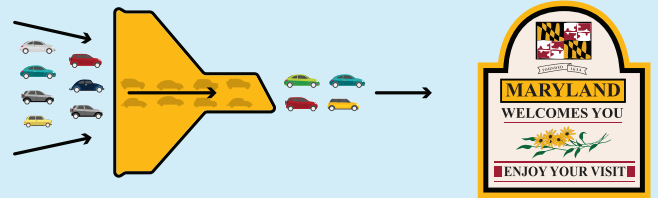
TRADITIONAL CAPACITY EXPANSION

Expanding the available capacity is one option to increase flow, but can be expensive, will take time, and isn't always feasible.



TSMO

A faster and more cost-effective alternative that uses technology to maximize existing capacity, optimizing the flow of traffic by timing it properly.



HOW is TSMO implemented?

Through the consideration and addition of any or a combination of the following as a transportation solution

TRAFFIC INCIDENT MANAGEMENT



WORK ZONE MANAGEMENT



FREEWAY/ARTERIAL MANAGEMENT



TRAFFIC SIGNAL COORDINATION



FREIGHT MANAGEMENT



TRANSIT PRIORITY/INTEGRATION



HOMELAND SECURITY PREPAREDNESS



EMERGENCY RESPONSE



ROADWAY WEATHER MANAGEMENT



ICY CONDITIONS POSSIBLE USE CAUTION

MAINTENANCE FLEET MANAGEMENT



CONNECTED AND AUTOMATED VEHICLE (CAV) TECHNOLOGY



ELECTRONIC PAYMENT/TOLL COLLECTION



TRAVELER INFORMATION



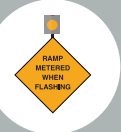
INTEGRATED CORRIDOR MANAGEMENT



TRANSPORTATION DEMAND MANAGEMENT



RAMP METERING



HARD SHOULDER RUNNING



MANAGED LANES



SMART SIGNALS



REVERSIBLE LANES



TSMO makes sense.

Compared to capacity expansion, TSMO strategies:

- Address all sources of congestion - recurring + non-recurring
- Are inexpensive and cost-effective
- Take little or no extra right-of-way
- Can be deployed in months rather than years