Traffic Incident Management

Technologies and strategies that help transportation operations staff detect, verify, and respond to traffic incidents.

TSMO
MARYLAND TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS

HOW WILL THIS HELP?

- ✓ Improves both safety and mobility by clearing the roadway as quickly as possible after an incident.

- ✓ Restores traffic flow as quickly as possible by reducing secondary incidents.

HOW DOES IT WORK?

- ✓ Armed with real-time traffic data, operations staff can manage traffic to clear the roadway as safely and quickly as possible.

- ✓ TIM strategies are used on freeways, expressways, and arterial roadways to identify nonrecurring incidents such as vehicle crashes or disabled vehicles.

- ✓ Improves information sharing between Ops Center, First responders, and the traveling public.

- ✓ Typical TIM tools include CCTV cameras and traffic sensors to identify and monitor incidents, and dynamic message signs to provide motorists with current traveler information.

CONSIDERATIONS

+ PROVIDE MEDIAN BREAKS, EMERGENCY REFUGE AREAS, AND CRASH INVESTIGATION SITES.
+ PROVIDE FREQUENT MILE MARKERS AND OTHER STRUCTURE IDENTIFIERS FOR THE MOTORIST TO SUPPORT INCIDENT DETECTION AND TIM.
+ COORDINATION WITH EMERGENCY RESPONSE AGENCIES NEEDED TO DEVELOP DETAILED RESPONSE PLANS.
+ ENGAGE IN PARTNERSHIPS THAT PROMOTE LAWS IN SUPPORT OF TIM (E.G., MOVE-IT, MOVE-OVER, HOLD HARMLESS, QUICK CLEARANCE).
+ INCORPORATE INCIDENT INFORMATION INTO PRE-TRIP (E.G., 511) AND EN-ROUTE TRAVELER INFORMATION SERVICES AND ALERTS.

TRANSPORTATION NEEDS ADDRESSED

- Capacity and Demand
- Travel Time
- Reliability
- Mobility
- Safety
- Economic Development
- Work Zones
- Environmental Impact
- Special Events

COST MAGNITUDE

CAPITAL COST ● ● ●

OPERATION AND MAINTENANCE COST ● ● ●

WHEN TO CONSIDER THIS STRATEGY

- ✓ HIGH-VOLUME ROADWAYS THAT EXPERIENCE FREQUENT INCIDENTS OR LONG INCIDENT RESPONSE AND CLEARANCE TIMES
- ✓ FREEWAY OR EXPRESSWAY CORRIDORS WITH RECURRING OR NONRECURRING CONGESTION AND LIMITED SHOULDER WIDTH

COMPLIMENTARY STRATEGIES

- ✓ DYNAMIC LANE USE CONTROL
- ✓ DYNAMIC SPEED LIMIT
- ✓ QUEUE WARNING
- ✓ INTEGRATED CORRIDOR MANAGEMENT
- ✓ TRAFFIC SURVEILLANCE
- ✓ TRAVELER INFORMATION

MDOT MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION