

Traffic Surveillance

Enables transportation system operators to monitor roadway conditions and detect incidents remotely in real time.



TRANSPORTATION NEEDS ADDRESSED

- Special Events
- Safety
- Mobility
- Reliability
- Incident Response
- Work Zones
- Unplanned Events

COST MAGNITUDE

CAPITAL COST

OPERATION AND MAINTENANCE COST

HOW WILL THIS HELP?

- Improves safety by enabling transportation professionals and first responders to respond quickly to traffic incidents or congestion.
- Real-time monitoring facilitates detection and confirmation of traffic incidents and management of responses to incidents.
- Improves mobility by giving transportation system operators the ability to respond to issues created by weather conditions, work zones, special events, or security incidents.
- It can help operators identify and respond to issues with signal timing. If real-time information on traffic conditions is shared with motorists, they can use it to make intelligent decisions about their travel route and timing.

HOW DOES IT WORK?

- The tools needed to implement traffic surveillance include closed-circuit television (CCTV) cameras and telecommunications infrastructure to connect the cameras to an operations center.

WHEN TO CONSIDER THIS STRATEGY

- MONITORING LOCATIONS OF RECURRING CONGESTION OR INCIDENTS
- MONITORING WORK ZONES
- ANY ROADWAY THAT WOULD BENEFIT FROM REAL-TIME TRAFFIC MONITORING

COMPLIMENTARY STRATEGIES

- DYNAMIC LANE REVERSAL
- DYNAMIC LANE USE CONTROL
- HARD SHOULDER RUNNING
- INTEGRATED CORRIDOR MANAGEMENT
- WORK ZONE MANAGEMENT
- HOMELAND SECURITY PREPAREDNESS
- TRAVELER INFORMATION
- SMART WORK ZONE
- INCIDENT MANAGEMENT

CONSIDERATIONS

- + DESIGN TO MAXIMIZE SIGHT LINES, SUCH AS ON OUTSIDE OF ROADWAY CURVES.
- + DESIGN AND CONSTRUCT CCTV IN LOCATIONS TO IMPROVE INCIDENT DETECTION AND VERIFICATION TIME.
- + PROVIDE A PROPER WORK SPACE AROUND ROADSIDE EQUIPMENT FOR AN OPERATOR/REPAIR TEAM TO ACCESS THE EQUIPMENT.
- + ENSURE AVAILABILITY OF COMMUNICATIONS AND POWER.