ROLES OF TMCS IN INCIDENT MANAGEMENT ON MANAGED LANES

PREPAREDNESS ACTIVITIES

ED ROBERTS
VHB
Preparedness activities are done prior to / in preparation for TIM – they establish the capability to quickly and efficiently identify, respond to and manage incidents.
- HOT lanes
- Two lanes in each direction
- Separated from the general purpose lanes by flexible “candlestick” barriers and shoulders
Technology and Communications

- Traffic Monitoring and Management
- Traveler Information
- Communications Systems (e.g. CAD) and Protocols
- Active Traffic Management
- Data Collection, Systems Management and Performance Measures
Interagency Relations and Coordination

- Stakeholder/TIM Committee
- Interagency Agreements
- Roles and responsibilities
- Communications Protocols
- Multi-disciplinary Procedures and Training
- Public/private operating agreement if appropriate
Roles may include:
- Occupancy requirements
- Toll payment
- Access compliance
- TIM

Operating/enforcement MOU:
- Dedicated/part time patrol
- Funding
- Operational protocols
Managed lanes may affect TMC resources in a variety of ways:
- Staffing levels, Operational funding, System deployment, etc.
- TMC operations can support or reduce resources needed for some managed lane operations
  - TIM, data collection, traffic management, etc.
- Managed lanes toll funding may be able to support TMC and enforcement operations
TMCs should be involved early in the managed lane design process to address issues such as:

- Monitoring and management systems
- Facilitating field maintenance
- Issues with managed lane control software
- Access and separation treatments that accommodate TIM
TMCs have operational planning experience and processes that can support good managed lane design and operations:

- ITS Strategic Plans
- ITS Regional Architectures
- Systems Engineering Process
- Operations and Maintenance Plans
- TIM programs
- Operational Performance Measures
Checklist for Planning Preparedness Activities

TMC Planning Preparedness Checklist

- **Technology and Communications**
  - Use and share technology and communications systems
  - Establish protocols related to incident communications
  - Develop data sharing agreements among agencies

- **Interagency Relations and Coordination**
  - Create interagency agreements established by the TMC

- **Managed Lane Enforcement Patrols**
  - Ensure enforcement levels and funding for such are adequate
  - Define roles, responsibilities and protocols

- **TMC Resources**
  - Share TMC resources
  - Confirm that sharing agreements are in place
  - Examine and obtain funding for managed lanes

- **TIM Operational Considerations are Incorporated into the Design of Managed Lanes**
  - ITS Field System Design and Integration
  - ITS Field System Maintenance
  - Managed Lane Control Software
  - Managed Lane Access and Separation Treatments
  - Design elements of Project Systems Engineering Documents and Processes

- **TIM Operational Considerations are Incorporated in Operational Planning Processes and Documents related to Managed Lanes**
  - ITS Strategic Plans
  - ITS Regional Architectures
  - Planning elements of Project Systems Engineering Documents and Processes
  - System Operations and Maintenance Plans
  - Local TIM programs
  - Data Collection, Fusion, Analysis and System Performance Measures
Checklist for Operators Preparedness Activities

**TMC Preparedness—Operator’s Checklist**

- **Technology and Communications**
  - Know how to use various technology and communications systems in the TMC.
  - Know what ITS resources are located on the managed lane system, where the devices are, and the design limitations of the devices.
  - Understand policies and protocols for use of different communications tools and ITS devices.

- **Managed Lane Enforcement Patrols**
  - Know which agency has primary enforcement jurisdiction.
  - Remember that enforcement patrols are a critical source of TIM information and are typically the first responders on the scene.
  - Understand the general level of motorist compliance with the managed lane operating rules—this may play a role in TIM strategies chosen during an incident.

- **Interagency Relations and Coordination**
  - Contact information for all TIM responder agencies.
  - Contact information for other transportation agencies/providers along managed lane corridor.
  - Know TIM responsibilities/jurisdiction of each partner agency.
  - Participate in interagency training exercises that are offered.

- **TMC Resources**
  - Understand protocols for the use of shared TMC resources.

- **Design of Managed Lanes**
  - Know location of access and egress points along managed lanes.
  - Have protocols, maps, and response plans for each segment handy.
THANK YOU