



MODULE 1: Transportation Systems Management & Operations (TSMO) Overview



What is TSMO?

- TSMO encompasses a broad set of **strategies that aim to optimize the safe, efficient, and reliable use of existing and planned transportation infrastructure for all modes.** TSMO is undertaken from a systems perspective, which means that these strategies are coordinated with related strategies and across multiple jurisdictions, agencies, and modes.





Why is the TSMO Approach Gaining Support?

DOTs and other public agencies must make a transformational shift in the way they conduct business moving forward. They must:

- Do more with less
- Maximize operational capacity of existing infrastructure
- Change organizational culture/mindset



TSMO is About...

1. Optimizing operational performance
2. Integrated technologies & tactics
3. Systemic & network management
4. Integrated institutional capabilities & partnerships
5. Owner-operator advocacy



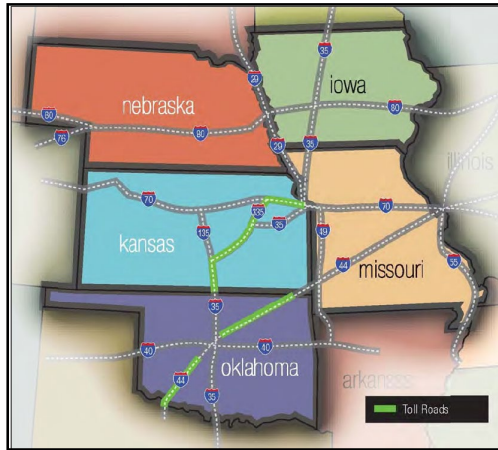
TSMO Objectives

- Increase Safety
- Improve Reliability
- Manage traffic flow
- Anticipate & respond to events
- Influence travel demand
- Improve traveler information (and use)
- Enhance public mobility
- Enhance freight mobility
- Save Money



Planning for TSMO Occurs in Multiple Contexts

Multistate

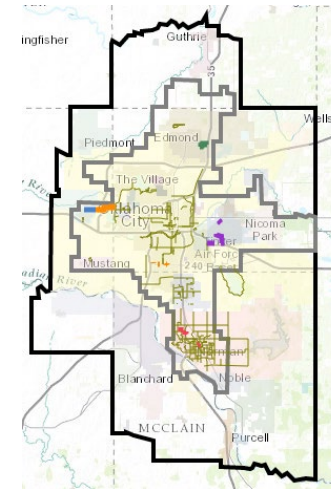


Courtesy: ITS Heartland

Statewide

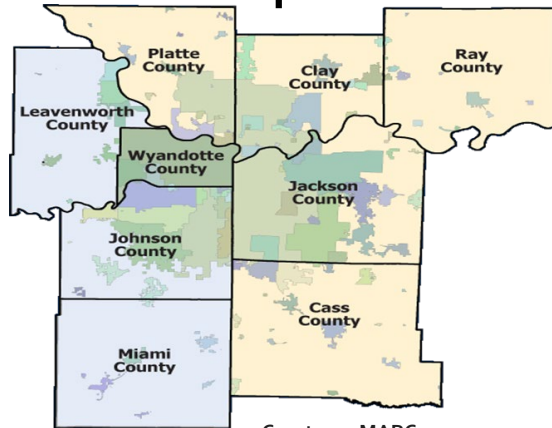


Subarea



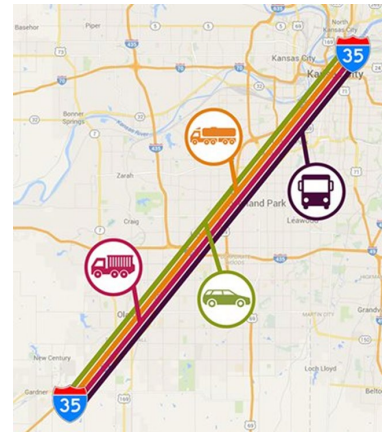
Courtesy: ACOG

Metropolitan



Courtesy: MARC

Corridor



Courtesy: MARC





TSMO Program Areas & Strategies

- Traffic incident management
- Traffic signal coordination
- Transit signal priority
- Freight management
- Work zone management
- Special event management
- Road weather management
- Congestion pricing
- Managed lanes
- Active Traffic Management
- Ridesharing programs
- Parking management
- Electronic toll collection
- Traveler information
- Coordination of highway, rail, transit, bicycle, and pedestrian operations
- ...and more

