



TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS PLAN UPDATE

What's TSMO?

Transportation Systems Management and Operations (TSMO) comprises integrated strategies to optimize the performance of existing infrastructure through the implementation of multimodal and intermodal, cross-jurisdictional systems, services, and projects designed to preserve capacity and improve security, safety, and reliability of the transportation system.

Challenges to Iowa's Transportation System

\$465 MILLION was the cost of congestion to urban Iowans in 2017	9.4 MILLION GALLONS of extra fuel burned	<ul style="list-style-type: none">• Traffic fatalities• Outdated systems & processes• Changing workforce• Maintaining mobility• Growing the economy• Tech disruption• Increasingly distracted drivers• Aging infrastructure
\$336 PER MOTORIST of cost (car repairs, extra fuel consumption, etc.) due to deteriorated roads		

- Pre-2013** | Informal TSMO activities
- 2013** | Initial Iowa DOT TSMO Assessment
- 2016** | First official TSMO Plan published
- 2017** | Traveler info Service Layer Plan published
- 2018** | TIM, ITS, Communication, Work Zone Mgmt. Service Layer Plans published
- 2019** | Emergency Mgmt. & Cooperative Automated Transportation (CAT) Service Layer Plans published
- 2020** | TMC Service Layer Plan published
- 2022** | TSMO Plan Update

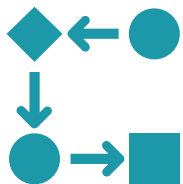
TSMO Solutions

The projects, services, and activities listed below promote TSMO throughout Iowa. They are organized by Capability Maturity Model (CMM) dimensions.



Collaboration

- Integrate TSMO into Multi-Disciplinary Safety Team (MDST) Meetings
- Enhance Multi-Disciplinary/Multiagency TSMO Training and Capacity Building
- Integrate TSMO into MPO & RPA Plans
- Enhance Joint Traffic Ops Performance Agreements
- Enhance TSMO Communication with Local Orgs
- Establish TSMO Policy Stakeholder Group with External Partners
- Develop and Maintain Open Contracts Clearinghouse



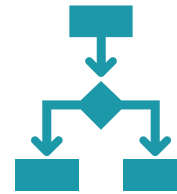
Culture

- Add Access Management to TSMO Processes
- Add Maintenance Operations to TSMO Processes
- Share TSMO & ITS Benefits Within/Beyond Iowa DOT
- Integrate TSMO into Existing Conferences & Meetings in Iowa



Performance Measurement

- Develop Ops-Oriented Resiliency Index
- Develop B/C Estimates for Key TSMO Applications
- Increase Frequency of Performance Reporting



Business Processes

- Integrate TSMO into DOT Iowa Policies & Guidance
- Integrate TSMO Deployment Planning & 5-Year TIP
- Develop District-Level TSMO Plans
- Ensure Adequate Access to Funding for TSMO Projects through Existing/New Budget Categories
- Streamline TSMO Procurement Processes
- Establish Innovative Funding Team



Organization & Staffing

- Increase Direct Iowa DOT Staffing in TMC
- Develop a TSMO Training Rotation Program
- Conduct System Ops Division Staffing Assessment
- Enhance GIS Capabilities & Resources to Support Ops



Systems & Technology

- Improve Traveler Info for Transit & Ride Share
- Improve Connectivity/Interoperability between State & Locally Managed Systems
- Establish ITS Configuration Control Board
- Establish Systems Engineering Guidelines & Repository
- Develop Approaches to Better Leverage Ops Data
- Implement Integrated Corridor Management Concepts
- Expand Statewide Video Sharing Strategy