

## ITSHeartland.org

### **REGIONAL OPERATIONS** FORUMS



### **Transportation Systems Management & Operations**

(TSMO) is a cross-cutting approach to optimize existing transportation infrastructure through better integration, coordination, and systematic implementation of key operational strategies.

The Federal Highway Administration has provided TSMO training across the country using Regional Operations Forums – generally three-day sessions with multiple departments of transportation. Searching for options that could share TSMO techniques with alternate delivery methods, a Strategic Highway Research Program 2 (SHRP2) project was awarded to the ITS Heartland chapter of ITS America.



## **CURRENT TSMO ACTIVITIES:**

### Nebraska TSMO

- aging in TSMO education and training
- nning to develop a Statewide TSMO Plan

### Kansas TSMO

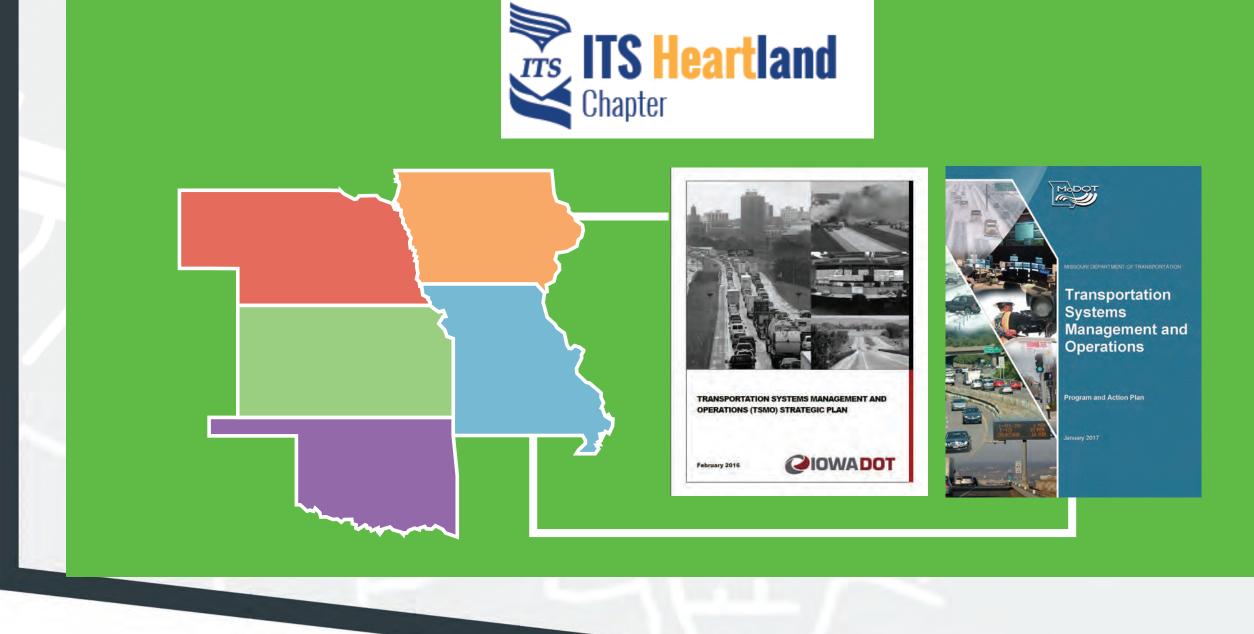
- luating how TSMO can help accomplish the
- king organizational changes to incorporate TSMO into project

### Oklahoma TSMO

- Held First TSMO Program Planning Workshop
- ternal TSMO Committee established

### lowa TSMO

- Developed a Statewide TSMO Plan in 2016
- Added Automated Transportation to TSMO Plan
- mbarking on a new agency education plan for Traffic Operations Missouri TSMO
- Completed three TSMO Action Plans
- eceived management approval of Action Plans
- Beginning TSMO Implementation Phase



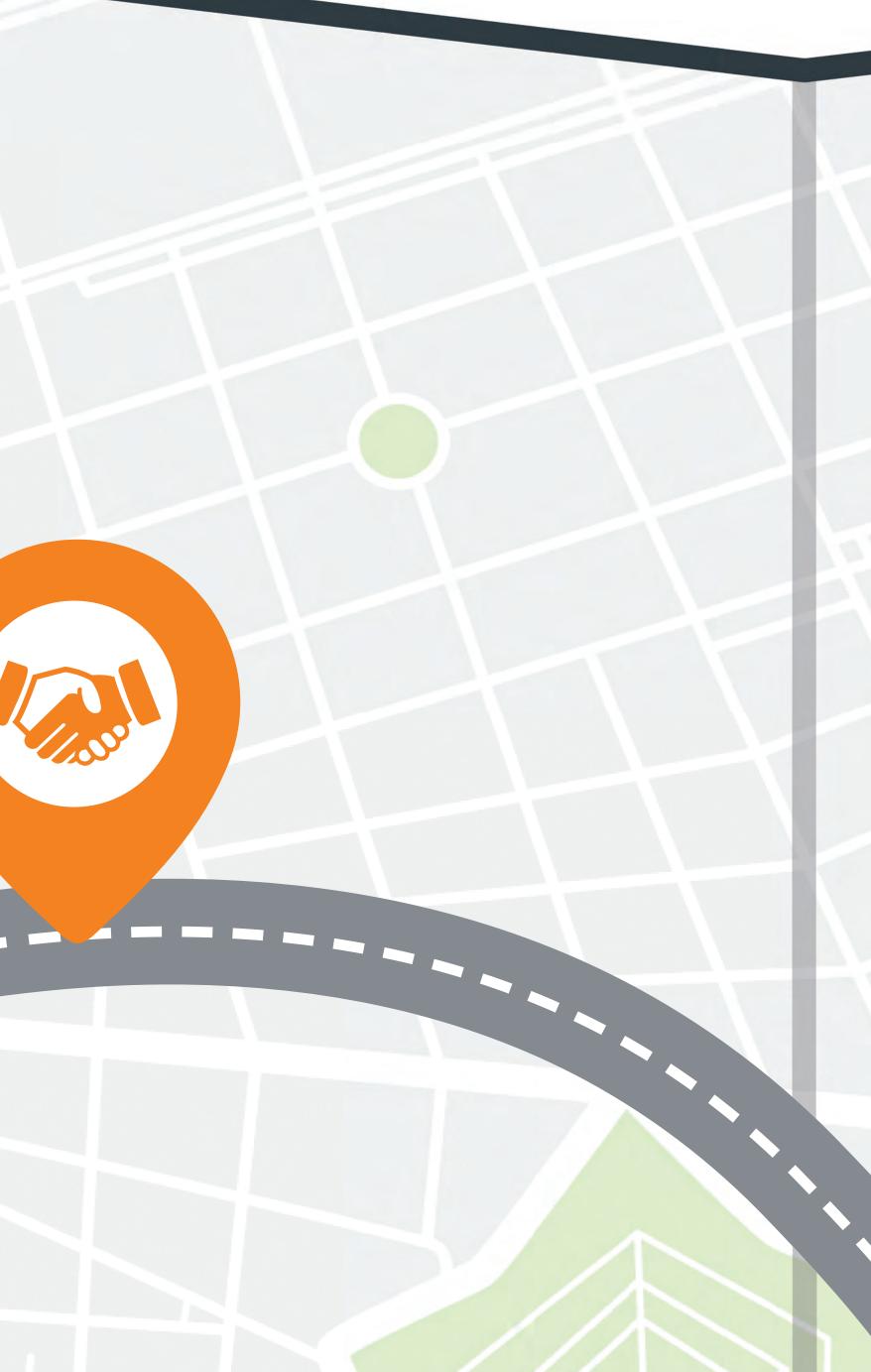


### TSMO PROGRAM MANAGEMENT

ITS Heartland is actively advancing TSMO in the five member states as well as sharing the project with other organizations across the nation. The multi-year SHRP2 L36 project, with Kansas DOT as the lead state and administrator, created a TSMO Steering Committee with representatives from the five state DOTs. A consulting firm, HDR, was then selected to facilitate a training program with a set of webinars and in-person training sessions to introduce TSMO strategies.

The webinars and other sessions are archived at www.ITSHeartland org and are available for anyone to view and use to share TSMO techniques. The goal is to make this valuable information available in a more convenient, readily available format for a wider audience of transportation operation managers and decision makers.

# TS Heartland's TSMO University: **A NEW ROADMAP TO TSMO AWARENESS**







## TSMO TRAINING PROGRAM

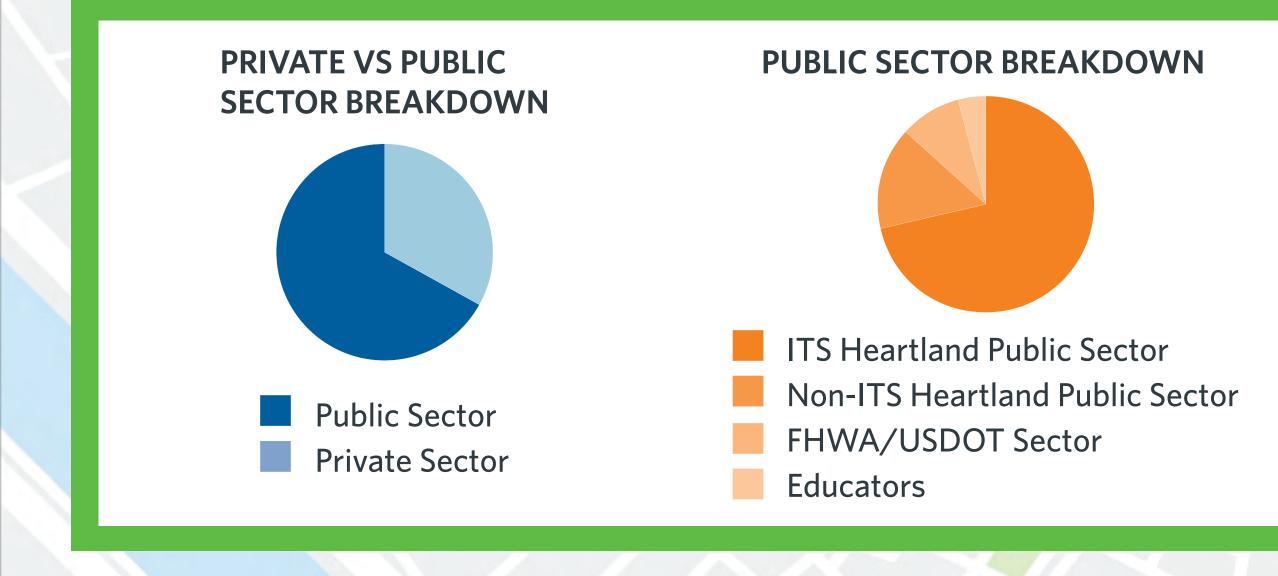
The ITS Heartland TSMO training program used live webinars and in-person training sessions. All of the presentations were captured and are archived at www.ITSHeartland.org. Topics include:

- TSMO to Improve Safety
- TSMO Strategies
- Benefits of TSMO
- Communicating TSMO
- TSMO to Improve Reliability
- Work Zone TSMO
- Freight Operations
- Traffic Incident Management
- Emerging Technology
- Creating a TSMO Organization & Culture
- Creating a TSMO Program Plan
- TSMO Discussion Points



## **RESULTS TO DATE**

nce the start of the ITS Heartland TSMO project, we have reached over 1,000 people in webinars, live trainings, archived session viewings and other outreach efforts. The webinars and live training rents have been 1/3 from the private sector and 2/3 from the publi ector (generally departments of transportation and metropolitan ng organizations). The program has reached out beyond the ITS Heartland region with almost 20% of participants from other parts of the country.







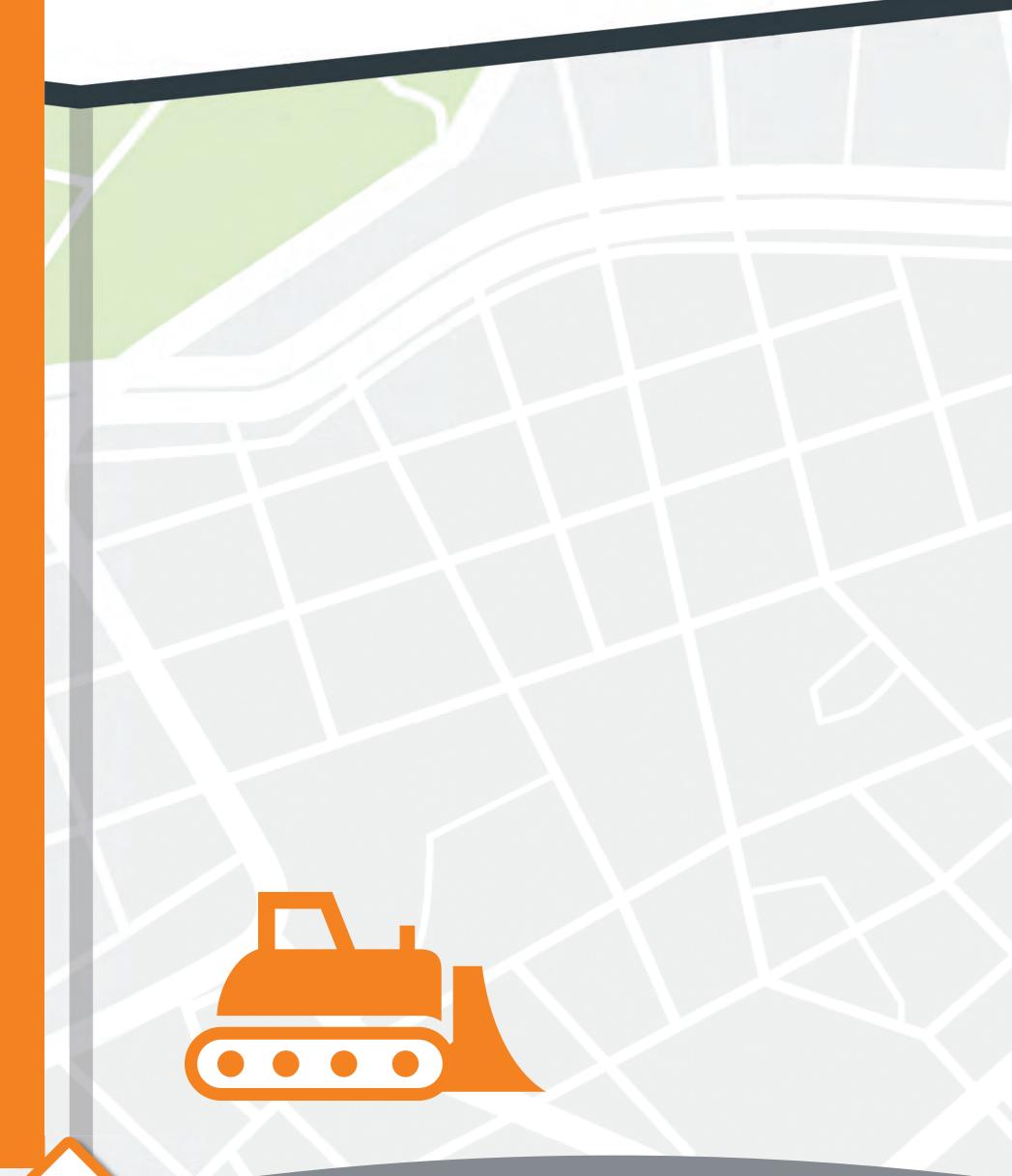
NEBRASKA **DEPARTMENT OF TRANSPORTATION** 





**TSMO TRAINING FOR VARIED AUDIENCES** uring Phase 2 of the training project, the Steering Committee identified the need for more focused training modules for the various audiences learning about TSMO - Agency Executives to Transportation Designers and Operations staff to Field Level personnel.

After the specific training modules were created, **Train the Trainer sessions** were presented to help TSMO champions in each of the five ITS Heartland states effectively share the benefits and echniques that can address many transportation challenges.





## FOCUSED TRAINING: **Designers and Operations** Personnel

Design Engineers, Operations Personnel, TMC Staff, Planning Personnel, MPO Staff, Traffic Engineers, Public Works Engineers, City Planners, Consultants, District Engineers, Bureau Chiefs, etc.



## **FOCUSED TRAINING:** Field Personnel and Contractors

Maintenance Supervisors, Maintenance Operators, Construction Engineers, Construction Technicians, Inspectors, Traffic Signal Technicians, Contractor Foreman, Contractor Field Engineer, Traffic Control Subcontractors, Law Enforcement, Fire, Towing Companies, etc.









### **TSMO DEFINITION**

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 oordinated with related strategies and across multiple jurisdictions, agencies, and modes.

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### **PROJECT AWARDS**

The ITS Heartland TSMO University training program was recognized in 2019 with three national awards:

- 1. National Operations Center of Excellence Improving Agency TSMO Capabilities Award
- **2. ITE Education Council** Innovation in Education Award
- 3. ITE TSMO Council Best Project/Organization Award



### **FOCUSED TRAINING:** Agency Executives

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ublic agency leaders including DOT Directors, State ransportation Engineers, Division Heads, Public Works Directors, Highway Commissioners, Political Leaders, MPO Directors, etc.

