

TSMO Steering Committee June 2022 Meeting

1 hour



June 6, 2022

Agenda

- TSMO Kahoot!
- TSMO Staffing and Workforce Development Plan
 - Training Modules
 - TSMO Positions
- TSMO Planning and Financial Resources Processes and Procedures
- TSMO Stakeholder Coordination Plan
- TSMO Performance Management Program
- TSMO Video

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<https://nvtsmo.com/>

TSMO Staffing and Workforce Development Plan

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Staffing and Workforce Development Plan

Training Module 101 – Orientation



Transportation Systems Management and Operations Training

Orientation

TSMO Training Module 101



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○ Module 1


Transportation Systems Management and Operations

- ▶ Section 00 / Purpose of the Training
- ▶ Section 01 / Introduction to TSMO
- ▶ Section 02 / CMM Framework
- ▶ Section 03 / Business Case for TSMO
- ▶ Section 04 / Final Assessment

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Transportation Systems Management and Operations Training



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Staffing and Workforce Development Plan

Training Module 102 – NDOT TSMO Program



The cover slide for NDOT TSMO Training Module 102 features the Nevada DOT logo (SAFE AND CONNECTED) and the NDOT STATEWIDE TSMO PROGRAM logo at the top. On the left, there is a graphic of overlapping blue and purple diamonds. The main text reads "Transportation Systems Management and Operations Training" and "NDOT TSMO". Below this, it says "TSMO Training Module 102". The ATKINS logo is at the bottom left, with the text "Member of the SNC-Lavalin Group". A blue button with the text "BEGIN >>" is at the bottom right.

NEVADA DOT
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NDOT STATEWIDE TSMO PROGRAM

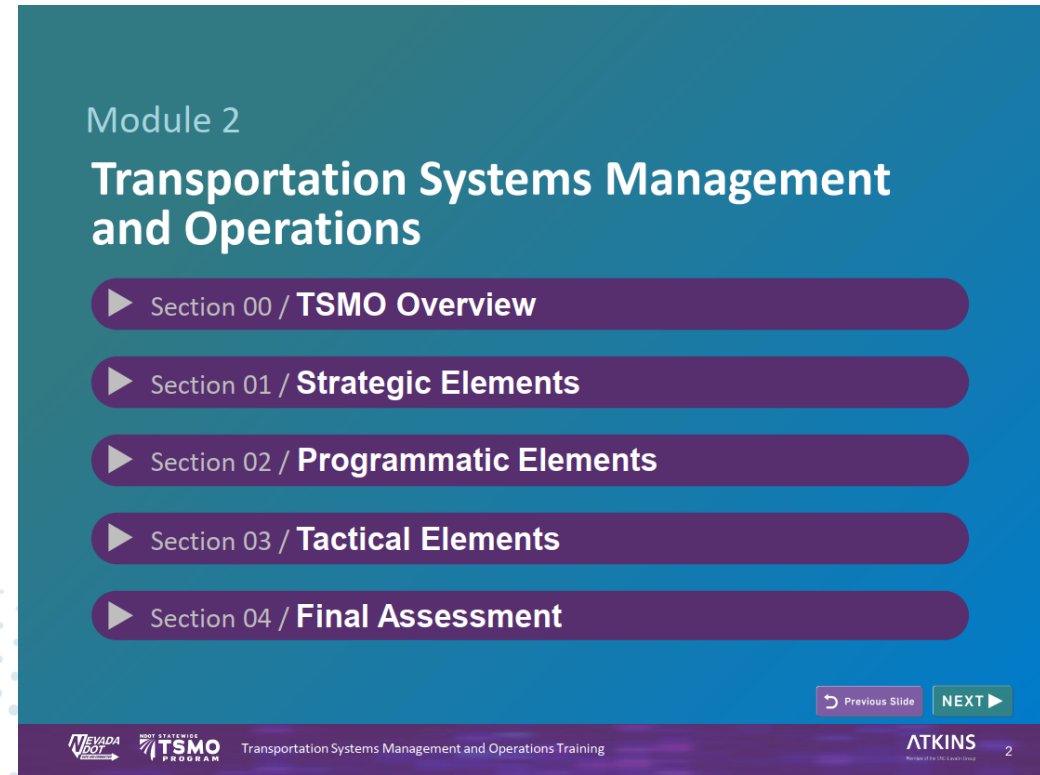
Transportation Systems Management and Operations Training

NDOT TSMO

TSMO Training Module 102

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This slide serves as a navigation menu for Module 2. It has a dark blue background with white text. The title "Module 2" is at the top left, followed by "Transportation Systems Management and Operations". Below this is a list of five sections, each with a right-pointing arrow icon and a dark blue background: "Section 00 / TSMO Overview", "Section 01 / Strategic Elements", "Section 02 / Programmatic Elements", "Section 03 / Tactical Elements", and "Section 04 / Final Assessment". At the bottom right, there are two buttons: "Previous Slide" and "NEXT". The footer contains the Nevada DOT logo, the TSMO PROGRAM logo, the text "Transportation Systems Management and Operations Training", the ATKINS logo, and the number "2".

Module 2

Transportation Systems Management and Operations

- ▶ Section 00 / **TSMO Overview**
- ▶ Section 01 / **Strategic Elements**
- ▶ Section 02 / **Programmatic Elements**
- ▶ Section 03 / **Tactical Elements**
- ▶ Section 04 / **Final Assessment**

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Transportation Systems Management and Operations Training

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Staffing and Workforce Development Plan

Training Module 201 – The Business Case for TSMO



Transportation Systems Management and Operations Training

The Business Case for TSMO

TSMO Training Module 201

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Module 201

Transportation Systems Management and Operations

- ▶ Section 01 / **Business Case for TSMO**
- ▶ Section 02 / **TSMO Business Case for Divisions**
- ▶ Section 03 / **Final Assessment**

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Staffing and Workforce Development Plan

Training Module 202 – Stakeholder Engagement and Coordination Plan

- Existing Interagency Agreements
- Identification of TSMO Partners
- Two-year Plan Including step by step process on when and how to involve internal and external stakeholders

Staffing and Workforce Development Plan

Training Module 203 – IPT and Evaluation Tool



Transportation Systems Management and Operations Training

Investment Prioritization Tool (IPT) and TSMO Evaluation Tool

TSMO Training Module 203

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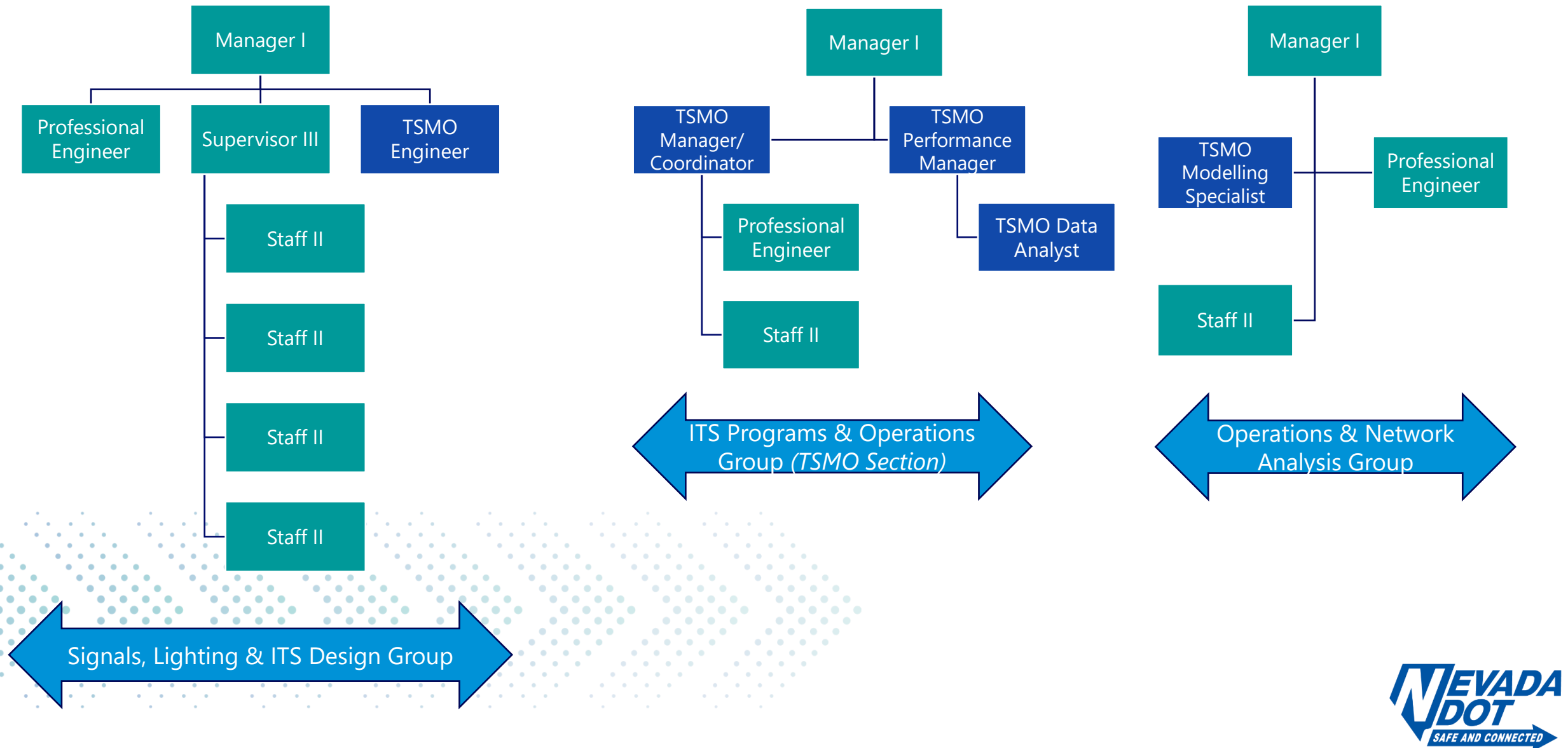
In this training, you will learn:

- TSMO Investment Prioritization Tool and integration process**
- TSMO Evaluation Tool and integration process**

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TSMO Positions



TSMO Positions

- TSMO Engineer

- Advance of TSMO integration and implementation through Systems Engineering development, project evaluation, integration of change management, as well as potential improvements in TSMO business processes and culture.

- TSMO Modeling Specialist

- Advance planning for operations and assist in performing benefit-cost analysis to implement various TSMO strategies. Provide engineering and technical guidance on the use of microscopic, mesoscopic, and macroscopic modeling tools

- TSMO Program Manager

- Collaborate with partnering agencies, facilitate business processes improvement, policy development, and budgeting of the TSMO Program.

TSMO Positions

- TSMO Data Analyst

- Develop predictive analytics and performance measurement, plays a critical role in enhancing a performance-driven culture using real-time operation and long-term trend analysis. Also performs extraction, integration, and analysis of available data aligned with TSMO strategies.

- TSMO Performance Manager

- Identify opportunities for the implementation of cost-effective solutions, utilize data to enhance planning for and integration of management and operations, develop and oversee inclusion of TSMO elements using TSMO Tools.

TSMO Planning and Financial Resources Processes and Procedures

Task Overview

- Processes and procedures for TSMO integration into:
 - Project planning process
 - Project development process
- 5-year financial plan, including:
 - Project Prioritization
 - Funding sources
 - Timeframes
 - Strategies to secure funds
 - Integration into IPT and Evaluation Tool

State of the Practice Progress

	Project planning	Project development	Engagement in long range planning	Engagement in PDC	Project budgets	TSMO staffing needs	Financial / Funding policies
One Nevada Plan	✓	N/A	✓	N/A	N/A	N/A	✓
Nevada Strategic Highway Safety Plan (SHSP)	✓	N/A	✓	N/A	N/A	N/A	N/A
NDOT State Management Plan - Transit	✓	✓	✓	N/A	N/A	N/A	✓
Transportation Asset Management Plan (TAMP)	✓	N/A	N/A	N/A	✓	N/A	✓
NDOT Statewide TIP	N/A	N/A	N/A	N/A	✓	N/A	✓
NDOT 5-Year Project Plan	N/A	N/A	N/A	N/A	✓	N/A	✓
One Nevada ELT Update	✓	✓	N/A	N/A	N/A	N/A	✓
PDC February 2022 Meeting Agenda	N/A	N/A	N/A	✓	N/A	N/A	N/A
STIP Prioritization	N/A	✓	N/A	N/A	N/A	N/A	N/A

TSMO Stakeholder Engagement and Coordination Plan

TSMO Stakeholder Engagement and Coordination Plan

- General Updates:

- a. Virtual interviews held for

- i. WASHTO TSMO Committee
 - ii. Nevada State Police
 - iii. FHWA

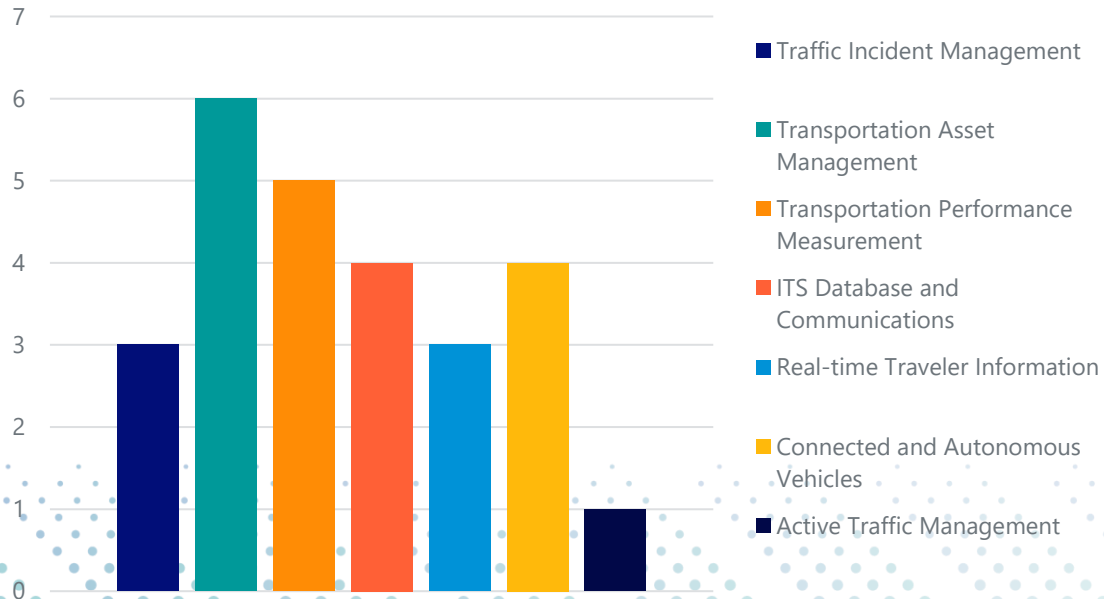
- b. Online survey, we have received 9 responses

- i. MPOs
 - ii. Counties
 - iii. Cities
 - iv. NDOT Districts

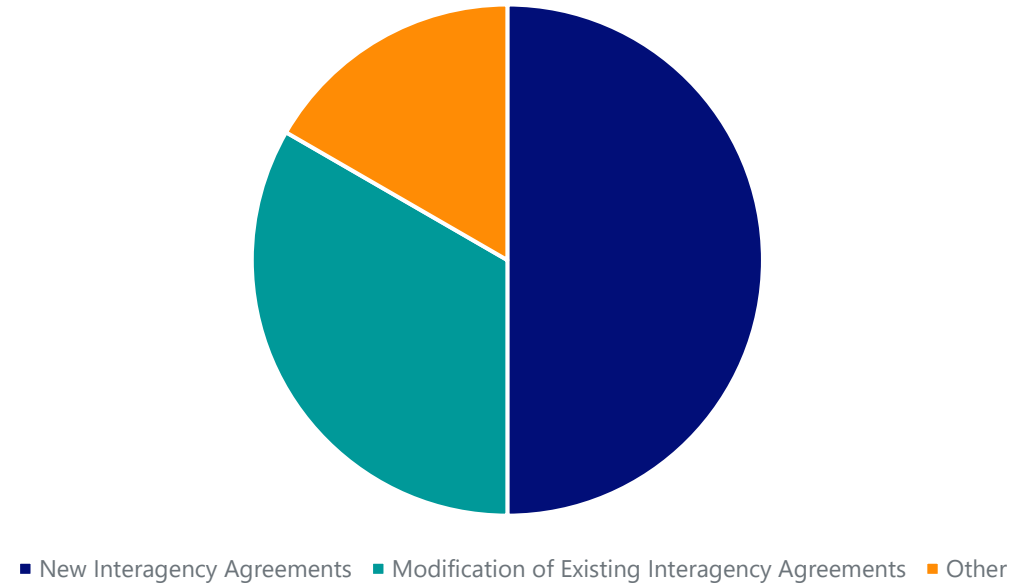
TSMO Stakeholder Engagement and Coordination Plan

MPOs, Cities, and Counties

Interest in NDOT TSMO Tactical Elements



Considering Tactical Elements in ILAs



TSMO Stakeholder Engagement and Coordination Plan

- How can the NDOT Traffic Operations Division support your District in optimizing your existing maintenance contracts?
 - 1) *Consider maintenance activities and funding with new system deployments*
 - 2) *Support with Asset Management Systems*

- Are modifications to interagency agreements required to obtain support from regional stakeholders for the NDOT tactical elements.
 - 1) *Suggest new interagency agreements*
 - 2) *Suggest utilizing private contracts in lieu of ILA*

TSMO Performance Management Program

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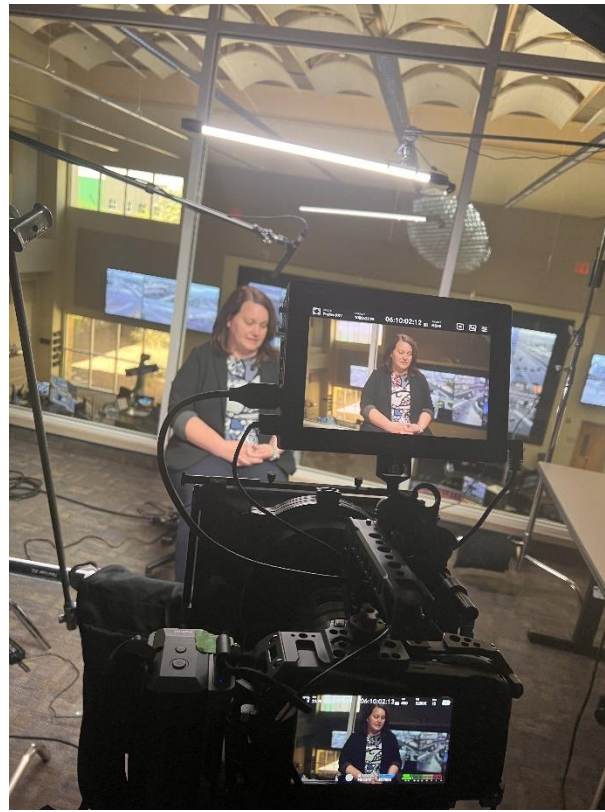
TSMO Performance Management Program

- 99% Program in progress.
 - Working on finalizing the Recommendations and the RACI Matrix.



TSMO Video Updates

TSMO Video



Q & A

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Thank You
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