

TSMO

Transportation Systems Management and Operations - The “Iowa Model”

(Where we are and where we are going)

- Sandra Larson, Iowa DOT, Systems Operations Bureau



TSMO – The “Iowa Model”

Safety

Mobility

Economics

www.iowadot.gov/TSMO/



Safety, Mobility & Economics



TSMO

A set of strategies that moves us to an
Operations-Oriented DOT;
from ad hoc activities....

to a **Complete Program** with integrated services
dedicated to improve the performance of the
existing transportation system with improved
Safety, Mobility and Economics

This is a cultural shift.....



THE FACES OF TSMO



TSMO Strategic Goals & Objectives

- Safety - Reduce crashes
- Reliability – Also increase resiliency/capacity
- Efficiency - Keep traffic moving
- Convenience – Ease of access/mobility choices
- Coordination – Internal/External engagement
- **Integration – Incorporate TSMO strategies throughout agency**



Iowa's TSMO Program – Where we are

- **TSMO Strategic Plan**
 - The “What” and the “Why”, making the business case
- **TSMO Program Plan – The Details**
 - The “What” for broad agency leadership
 - The “Guide”
 - The “How”
- **TSMO Service Layer Plans**
 - The TSMO tools (under development)



TSMO Program Plan

The “Iowa Model”

- Programmatic Objectives
- Strategies
- Processes
- Procedures
- Resources



TSMO Program Plan Sections

- Part 1 – Introduction
- Part 2 – TSMO Program Introduction
- Part 3 – Leadership and Organization
- **Part 4 – Business Processes and Resources**
- Part 5 – Performance Management and
Decision Support Assessment
- Part 6 – TSMO 5-Year Program
- **Part 7 – Service Layers Overview**



Business Processes and Resources

- Staffing
- Contracts
- Projects
- Systems Engineering
- External Collaboration
- Programmatic & Admin Support
- Sustainability and Resiliency
- Outreach
- Data Management and GIS
- Continuous Improvement
- Research and Development



Service Layers Overview–The “Tools”

- Traffic Management Center (TMC)
- ITS and Communications
- Traveler Information
- Traffic Incident Management (TIM)
- Emergency Transportation Operations (ETO)
- Work Zone Management
- Active Transportation and Demand Management
- Connected and Autonomous Vehicle



The “Who”

It's always about the people.....

It's always about the partnerships.....

It's always about the TEAM.....

And, it's about a cultural shift to improved....

SAFETY, MOBILITY & ECONOMICS



TSMO Implementation/Integration

- **Training** – started and under discussion
 - TIM Table top exercises
 - Develop champions
 - Video
 - Road show
 - Blog
 - TSMO 101
 - Webinars
 - Iowa Operations Academy



TSMO Implementation/Integration

- **TSMO Project Development Integration Team**
 - Diverse representation/participation focused on **pause points*** in the project development process, including construction, where TSMO needs to be incorporated into the planning, analysis and decisions



TSMO Implementation/Integration

- **TSMO Performance**
 - Measurement/Management
 - TMC Analytics
 - INRIX data
 - Data analysis



WHY TSMO MATTERS

Safety, Mobility, Economics



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