



TSMO Train-the-Trainer

Olathe, KS/ September 4-5, 2019

McPherson / Volz



A photograph of a construction site. In the foreground, several long, parallel steel rebar rods are laid out on a wooden surface, receding into the distance. In the background, several construction workers are visible, wearing white hard hats and high-visibility orange and yellow safety vests. The scene is slightly blurred, focusing on the rebar in the foreground. The text "Drive to Zero" is overlaid in the bottom left corner.

Drive to Zero

Safety Moment

Sitting Disease

Americans spend 7.7 hours a day sitting! This can:

- Compromise the metabolic system
- Increase blood pressure, obesity
- Increase cardiovascular disease and cancer

What can you do?

- Adding two minutes of activity to every hour spent sitting can lower risk of dying by 1/3
 - Get an activity tracker- aim for at least 5,000 steps a day
- 20-8-2 Rule: 20 minutes sitting, 8 minutes standing, 2 minutes moving
 - Walk over to someone's desk instead of emailing or take the stairs instead of the elevator



Agenda Review



Your Facilitators



Matt Volz
Sr. Transportation
Project Manager



Negil McPherson Jr.
Sr. Performance Consultant



Introductions

- Name
- Agency / Company
- Job role
- My Speaking Experience



Why Are We Here?

- Share TSMO knowledge
- Evaluate our progress
- Practice communicating TSMO
- Learn how to address benefits / concerns
- Why is TSMO Important? (video)



Go to this link for video:

<https://youtu.be/NkWYIKaUyM0>

From TSMO practitioners – Why is TSMO important?

- Austin Yates, Iowa DOT; Lee Smith, Tennessee DOT; Patrick Son, NOCoE; and San Lee, CDOT
- <https://youtu.be/NkWYIKaUyM0>

TSMO Principles Review

- Randy Johnson, KC Scout/MoDOT
- Mandy Anderson, Garver
- Lindsay Francis, WSP
- Tony Carr, HDR





TSMO in Action

TRAFFIC SIGNAL COORDINATION





Coordinated Signal Timing Plans

Key Characteristics



Benefits

- Reduce Congestion
- Reduce Fuel Consumption / Vehicle Emissions
- Reduce Travel Time
- Reduce Number of Stops for Traveling Public



Coordinated Signal Timing Plans

APPROACHES

Time-of-Day Plans

Optimized and operate the same cycle length

Cycle length changes throughout the day

Operate same time period every day

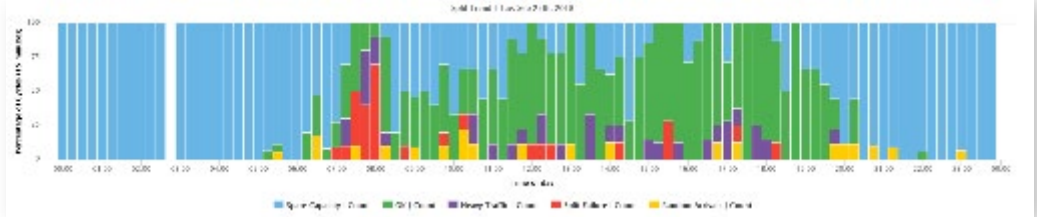
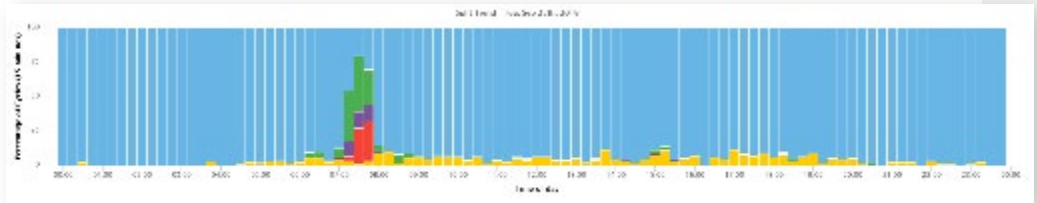
Traffic Responsive

Change based on changes in real-time traffic conditions.

Detection to measure volumes

Timing plans change as traffic increases or decreases





Automated Traffic Signal Performance Measures (ATSPMs)

Continuous performance monitoring capability

Data driven traffic operations

High-resolution (tenth-of-a-second) data from traffic signal controllers and detectors

Data analysis techniques

Coordinated
Signal Timing
Plans





Traffic Signal Operations

Regional Traffic Signal Coordination Program

Adaptive Signal Operation

Commuter Rail Preemption

Transit Signal Priority

Corridor Solution



TSMO at Home

President's Award - ITS Heartland





Developing and Sustaining a Transportation
Systems Management & Operations
Mission for Your Organization
A PRIMER FOR PROGRAM PLANNING

TSMO Strategies



TSMO Activities ...

- TSMO strategies address goals related to quality of life, such as safety, security and environmental impact.



Traffic Cameras and DMS



Traffic Cameras and DMS



Work Zone Management



Traffic Incident Management (TIM)



Safety Service Patrols and Incident Response Trucks



Planned Special Event Management



Event Planning

Poor planning led to toy run crash that killed 2, safety officials say

BDN BANGOR DAILY NEWS

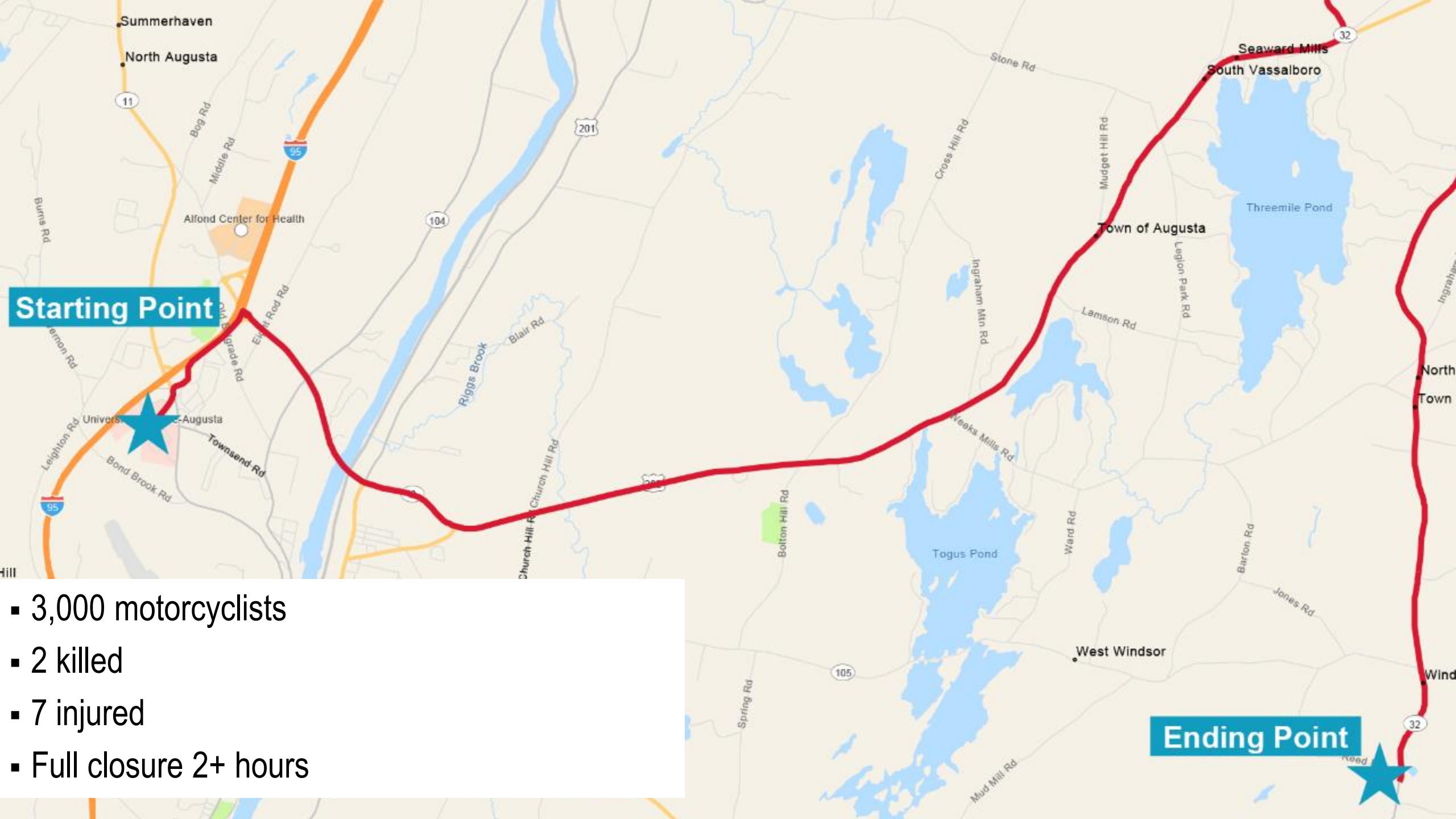


Maine State Police | BDN

The National Transportation Safety Board faulted the Augusta Police Department and the United Bikers of Maine for poor communication and planning in a 2017 toy run that left two motorcyclists dead.



Photo Credit: News Center Maine



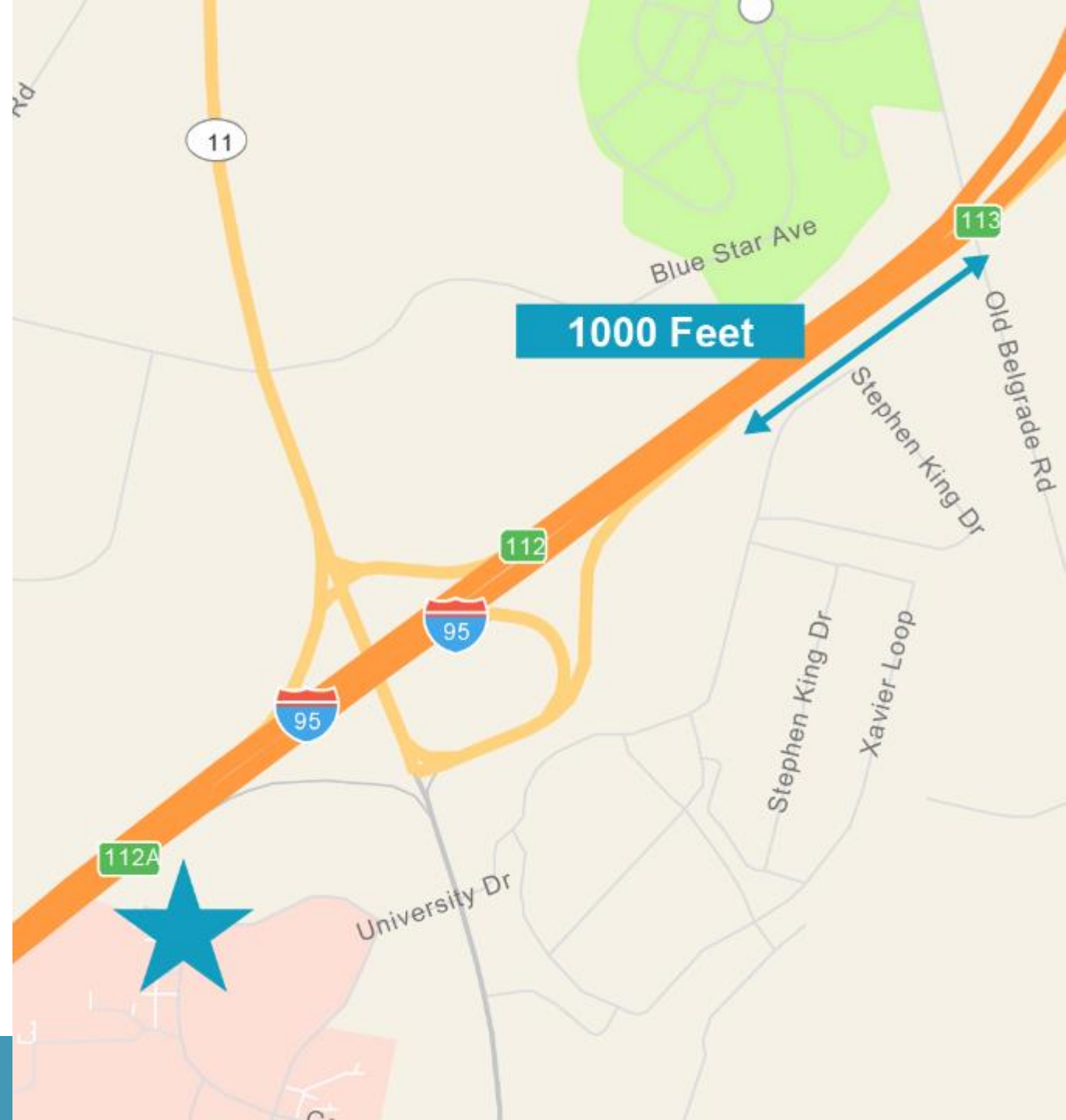
Starting Point

Ending Point

- 3,000 motorcyclists
- 2 killed
- 7 injured
- Full closure 2+ hours

Event Planning

- Issues:
 - Planning
 - Geometrics
 - Traffic Control
 - Advance Warning
 - Speed
 - Alt. Routes
 - Coordination
 - Permits
 - Barriers



Road Weather Management



Road Weather Management



Road Weather Management



Traveler Information



Example Benefits

- 511 customer satisfaction of 68% - 92%
- Route-specific travel times: 5% -13% increase in on-time performance (i.e., reliability)

Ramp Management



Active Transportation and Demand Management (ATDM)



TMC Improvements



is00131 - ATMS Explorer

File Edit View Layout Script Help

Signal Status:	Normal	SGV.Pasadena.Pasadena Series 2000 system@net179	Comm State:	Good	
Comm Rsp:	Responding	Corridor:	SGV	Comm Attempts:	20
Mode:	ACTUATED	Site:	Pasadena	Good Responses:	20
Alarms:	None	System:	Pasadena Series 2000 system	Bad Responses:	0
Preempt:	None	Entity Name:	net179	No Responses:	0

Timing Plan:	2	Phase:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Cycle Count:	52	Last Cycle:	15	15	15	15	15	17										
Planned Length/Offset:	60/15	Programmed:	15	15	15	15	15	17										
Last Cycle Length/Offset:	60/10	Int Phases:	2,6															
Section ID:	2	Vehicle Call:	2,6															

Ped Phases: 2,6

The diagram shows an intersection with three streets: GREENWOOD AVENUE, WALNUT STREET, and FOOTHILL BOULEVARD. A green dot indicates the current signal status at the intersection. Red hand icons indicate pedestrian crossings. A legend at the bottom right shows the status and mode for the intersection.

Status	Mode	Operations
● Normal		
● Flash		
● Preempt		
● Conflict Flash		
● Failed		
● Other		
○ Unknown		



Integrated Corridor Management



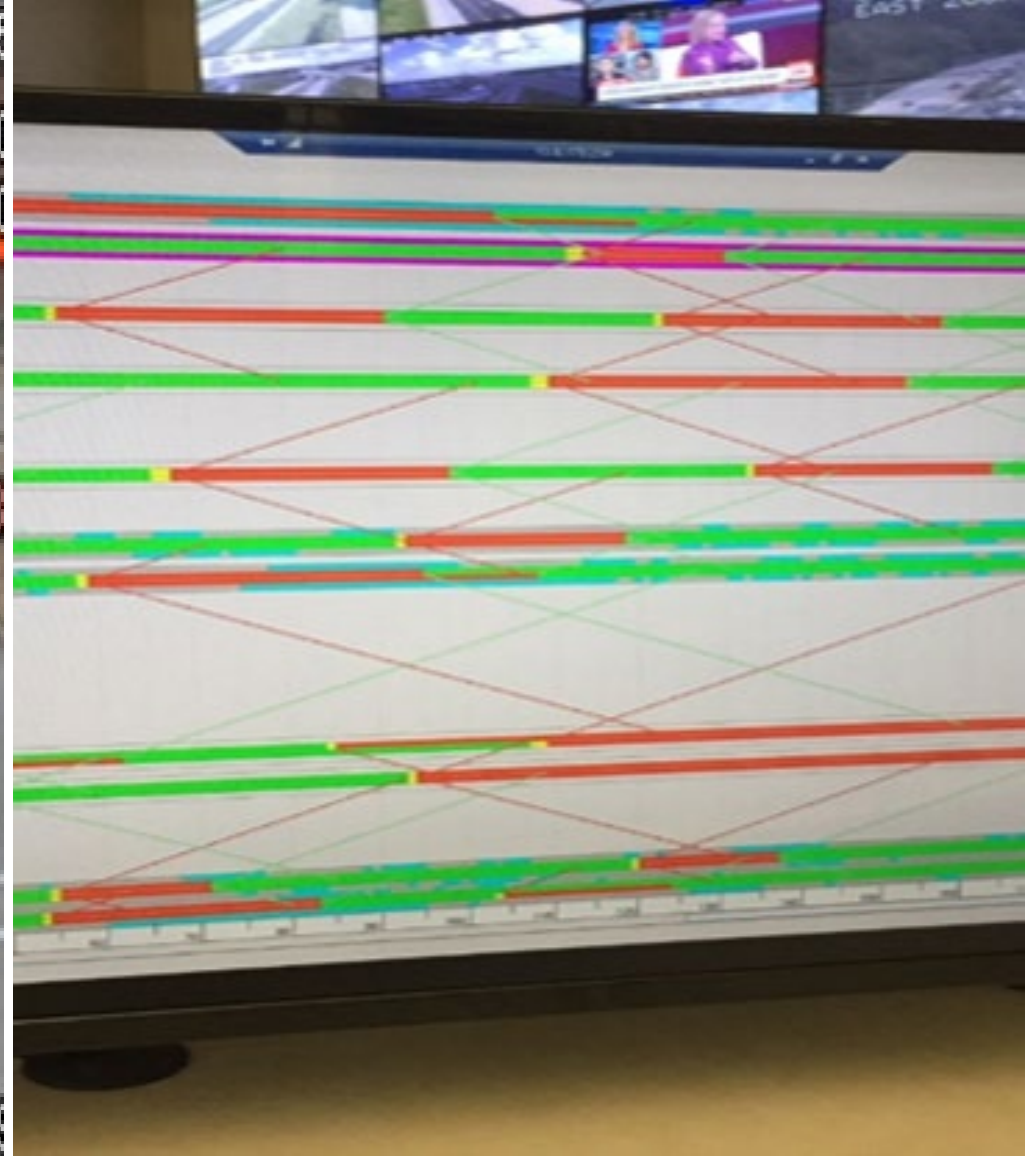
Example Benefits

- ICM along I-15 in San Diego: estimated B/C ratio of 9.7:1
- Simulation of ICM: B/C ratios of 7.1:1 to 25.1:1

Alternative Intersections



Signal Timing | Adaptive Signal Control



Turn Lanes



Peak Period Shoulder Lane



Median/Pedestrian Refuge



Road Diets



Before

After

Restriping



Access Management



Managed Lanes



Example Benefits

In Minneapolis (HOV lanes converted to HOT lanes)

- Peak hour corridor throughput increased 5%
- No change / slight increase in speeds
- General reduction in speed differentials (HOT/GP lanes)

Variable Speed Limits



Queue/Advance Warning Systems



Intersection Warning Systems



Infrastructure



TSMO Benefits

Strategy

Benefits

- Traffic Light Retiming → ▪ Delay reduced 8-25%
- Ramp Metering → ▪ Speeds increased 24%
- Freeway Incident Management → ▪ Incident duration reduced 39-51%
- Traveler Information → ▪ On-time reliability improved 5-16%

Lunch

How Far Have We Come

- Opportunities to promote TSMO
- TSMO Culture Changes / Actions
- TSMO Collaboration (R. Webb)
- ROLF Report from Iowa (June)
- TSMO Progress Nationally



FAST FACTS

700+ Traffic Signals

200+ Roadway Miles

1.6 Million Trips/Day

50/50 Local Agency/
Federal Funding

\$600 Local Agency Annual
Cost Per Signal



FHWA (MO & KS)

KANSAS

KDOT

Bonner Springs

Fairway

Lansing

Leavenworth

Leawood

Lenexa

Merriam

Mission

Mission Woods

Prairie Village

Olathe

Overland Park

Shawnee

Unified Government-WyCoKCK

Westwood

MISSOURI

MoDOT

Belton

Blue Springs

Gladstone

Grandview

Independence

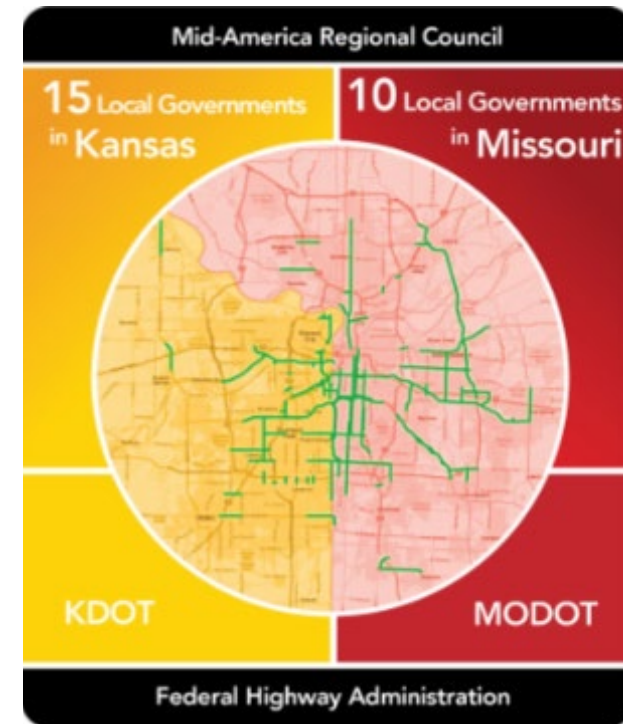
Kansas City

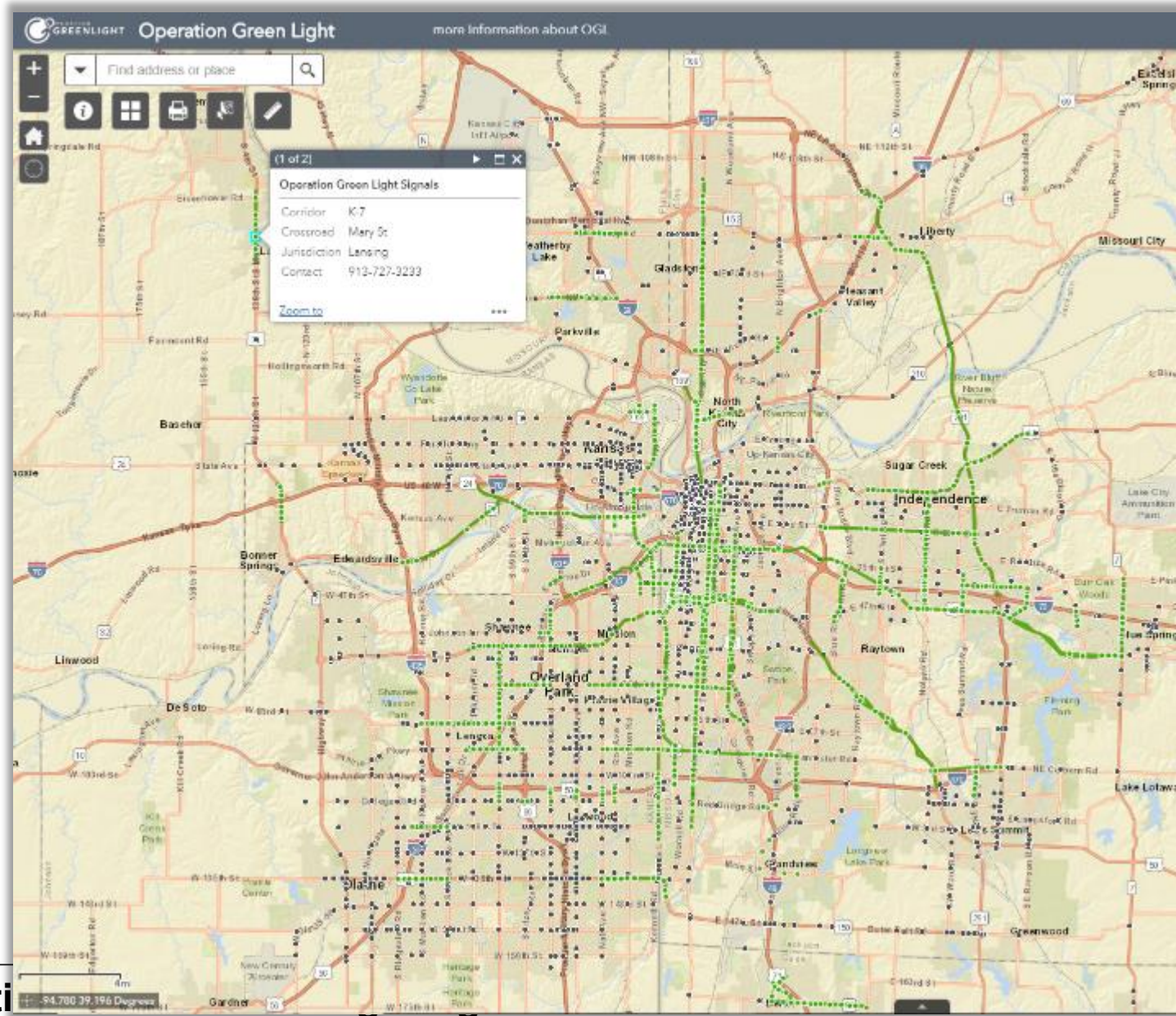
Lee's Summit

Liberty

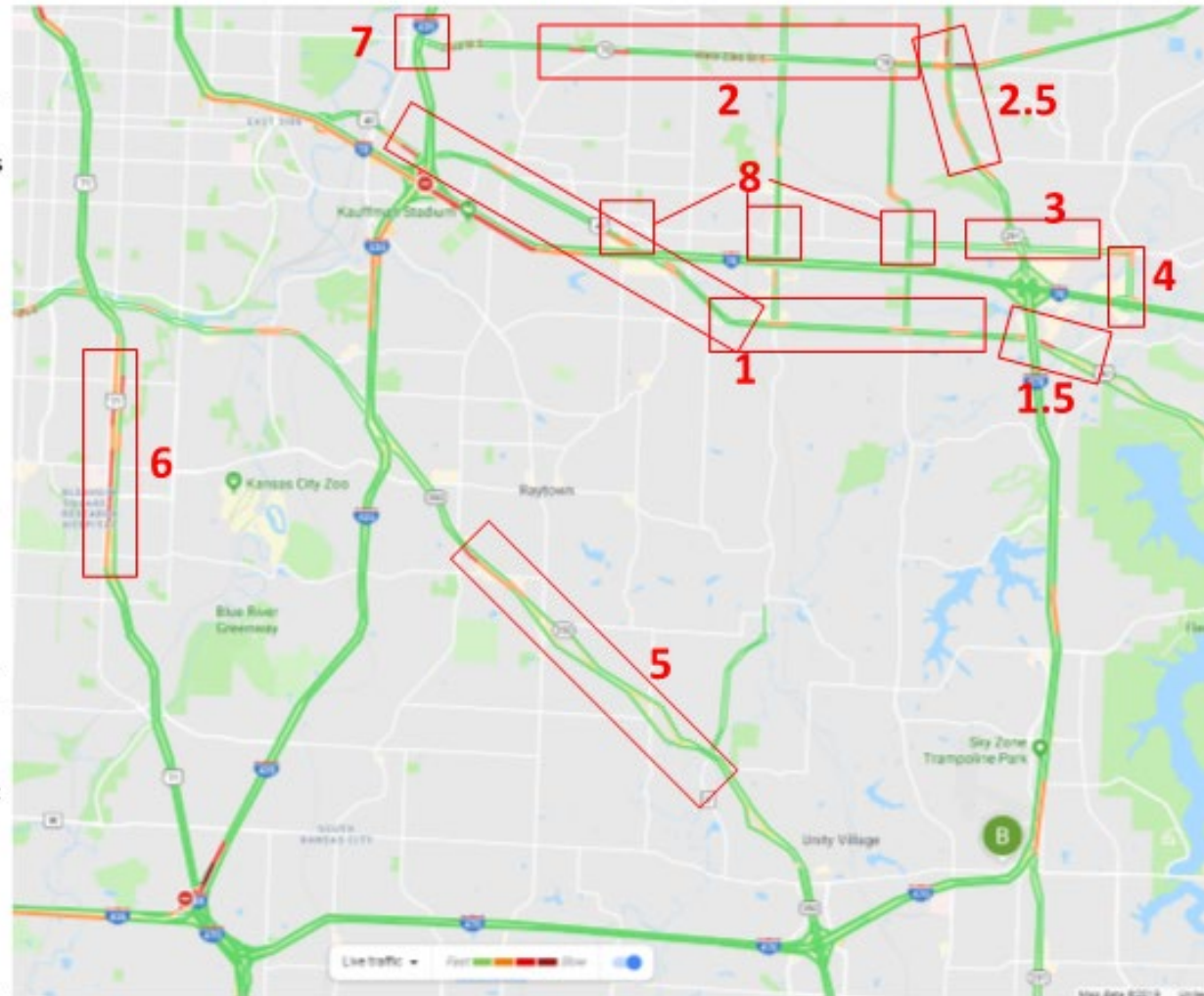
North Kansas City

Raymore





1. US-40 PM Peak plan is #37 except at 470 ramps and Lees Summit Rd which are plan #3. Might need to adjust splits at I-70 as PMPK normally has heavy EBLT onto EB 70.
- 1.5. US-40 From Cliff to LBP runs a Saturday plan, largest cycle length (except "Event Ingress" which I don't recommend using).
2. M-78 from Maywood to Lees Summit PM Peak plan is #3 except Noland and Hyvee are #37
- 2.5 Hub and 291 down to 32nd St, PMPK is plan #4. Consider adjusting splits at 78 & 291 to take time from SB and give it to NBLT if NBLT is over capacity.
3. 39th St runs a Saturday plan, largest cycle length.
4. Little Blue Pkwy, PM Peak is plan 37 except at I-70 it's 9. Might adjust splits at 39th & LBP or put in free and adjust if NBLT is over capacity.
5. M-350 PM Peak is very directional EB, plan #8 except at Noland it's #40. AM Peak is very directional WB, plan 7 except at Noland it's #22. If both directions are heavy do PMPK.
6. US-71 PM Peak is plan #2.
7. M-78 & 435. If NBLT is heavy place in free. If more is needed we need the dummy phase 4 to be usable.
8. 39th, expect Heavy E-W Adjust?



FHWA Perspective

- Tracy Scriba, Team Leader - FHWA Office of Planning & Organizing for Operations

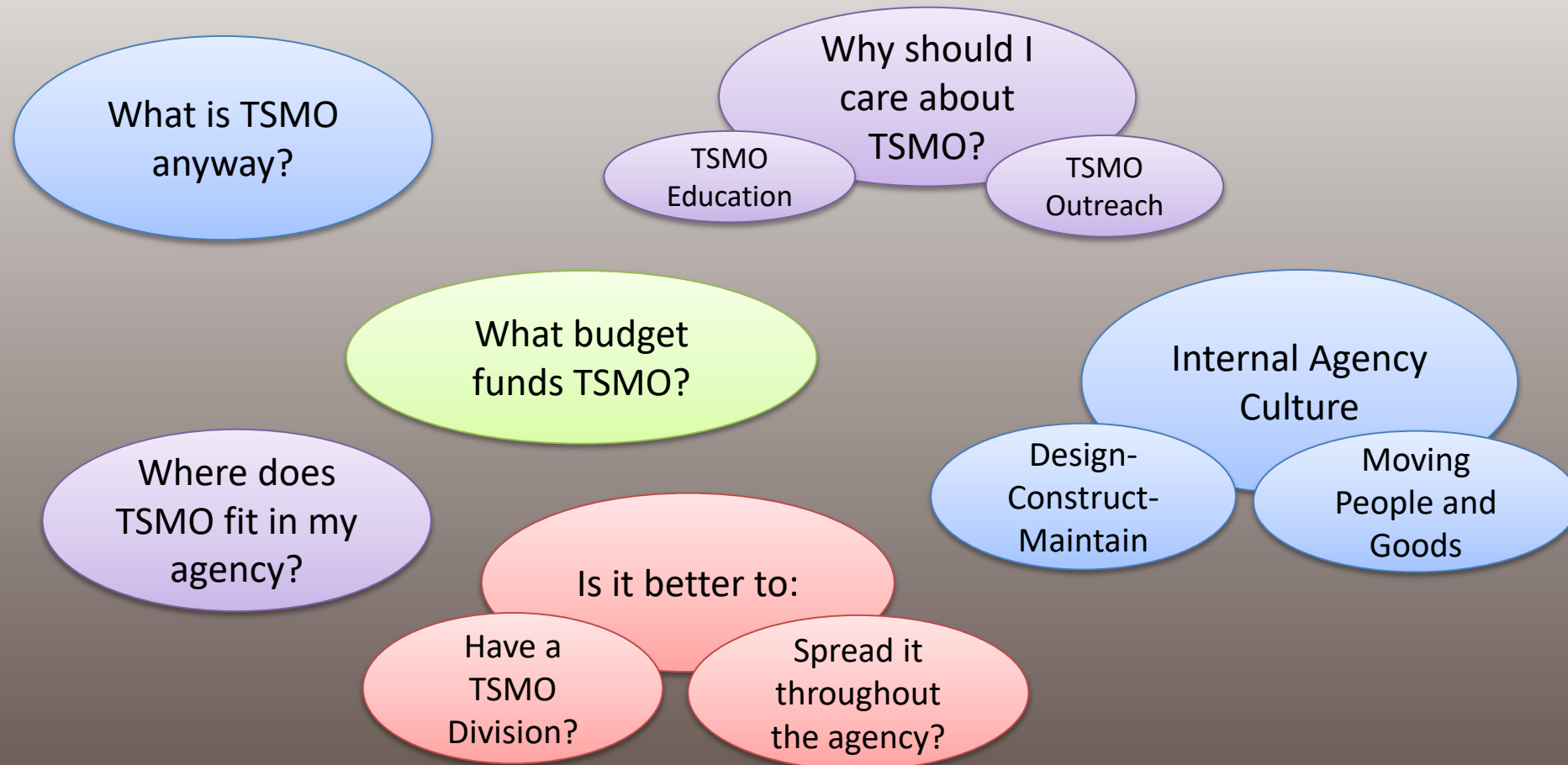


Advancing Transportation Systems Management and Operations (TSMO)

Tracy Scriba
Federal Highway Administration (FHWA)
ITS Heartland Meeting
September 2019



Challenges Communicating and Integrating TSMO



Effective TSMO Strategies: What Makes the Difference?

What is the key factor for explaining the success (or lack of success) of TSMO strategies at transportation agencies?

- It's not all about **\$\$\$\$** or technology deployment.
- It's about whether effective TSMO processes and organizational capabilities are in place.



Integrating and Mainstreaming TSMO into Agencies

- TSMO program development
- Building TSMO into agency processes
- Developing agency culture that supports/values TSMO
- Communicating value of TSMO/business case
- Considering reliability
- Developing workforce capabilities for TSMO
- Developing effective partnerships/collaboration – internal and external



Many Connections are Needed



Connecting Operations to Other Core Agency Programs

- Establish relationships across units
- Understand what's important from both perspectives
- Talk a common language
- Build TSMO into agency processes
- Joint training and workshops
- Collaborate on TSMO program development



TSMO Fact Sheets



https://ops.fhwa.dot.gov/plan4ops/focus_areas/integrating/tsmo_factsheets.htm



Federal Education Efforts for TSMO

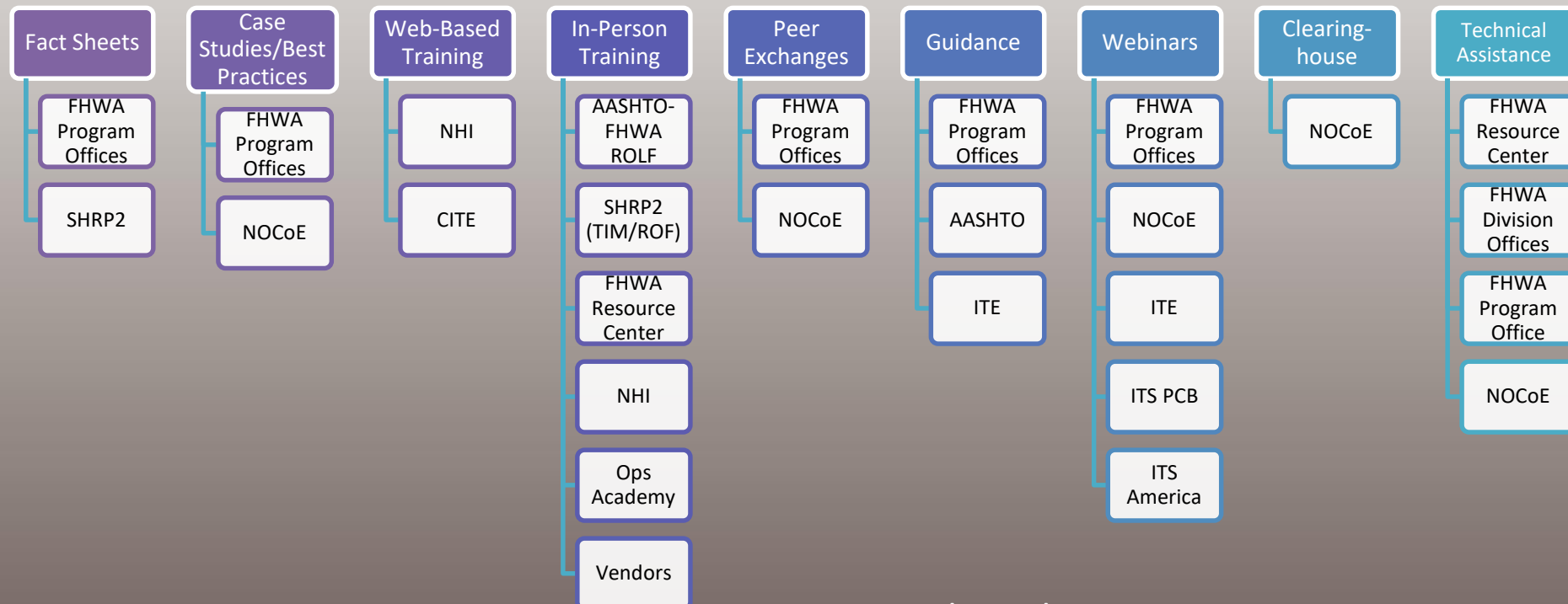


Why TSMO Education

- Strong foundation for TSMO is critical
- Understanding of TSMO is still developing, and evolving
- Regular need for new workforce capacity
- Education efforts play important role



TSMO Capacity Building Ecosystem



On a Local Level: State DOTs, FHWA Division Offices, Local Technical Assistance Programs



Multi-faceted FHWA TSMO Education Efforts

- Regional Operations Leadership Forum
- Factsheet series
- TSMO outreach kit and videos
- TSMO workshops
- Traffic incident responder training

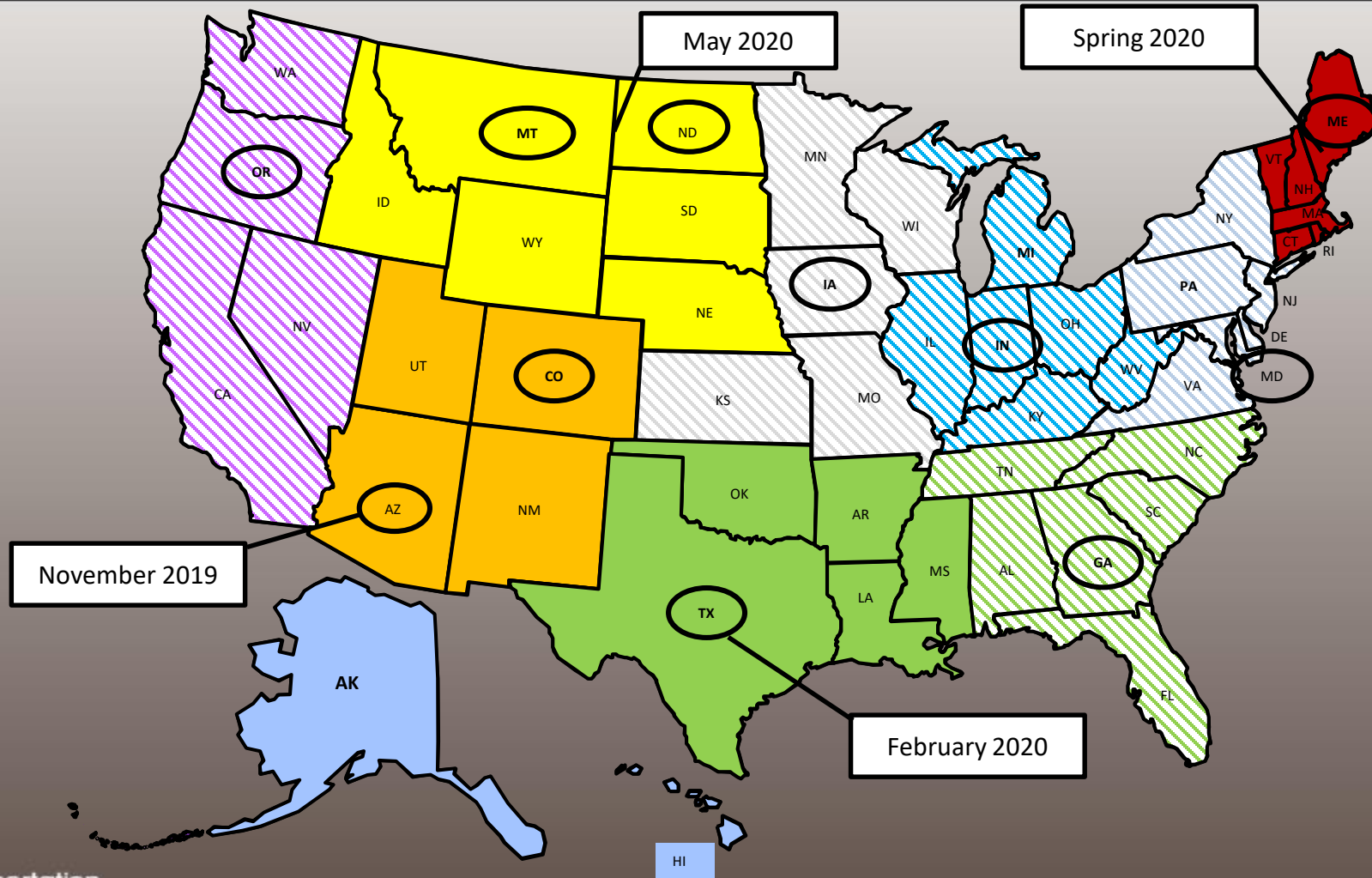


Regional Operations Leadership Forums - Purpose

- Create TSMO champions
- Help States and their partner agencies:
 - Mainstream TSMO into agency culture
 - Strengthen TSMO programs
 - Enable intergenerational TSMO leadership
 - Develop a multi-state regional community of practice



Regional Operations Leadership Forums – Status



Multimedia TSMO Outreach Tools

- TSMO outreach toolkit
- Short videos
- Success stories



TSMO Workshop Opportunities

- Contemporary Approaches to Travel Demand Management
- TSMO Program Planning
- Planning for Travel Time Reliability

Planning for Transportation Demand Management: A Contemporary Approach
October 2015

A WORKSHOP
This workshop is designed to bring together transportation planning, traffic management professionals, public works professionals, and transportation demand management (TDM) practitioners to discuss the development of contemporary approaches for addressing peak travel and demand for demand management.

Topics of Interest:
• TDM
• Traffic Management
• Public Works
• Transportation Planning

WORKSHOP DATE & TIME:
To be determined

LOCATION:
To be determined

WORKSHOP LEADERS:
TBD

COST/FEE:
None

More information:
Meeting details for 2015 TSMO workshop (including dates, location, agenda, and more) can be found at: www.fhwa.dot.gov/tsmo/2015workshop/

Transportation Systems Management and Operations Program Planning
November 2015

A WORKSHOP
This workshop is designed to bring together transportation planning, traffic management, and public works professionals to discuss the development of contemporary approaches for addressing peak travel and demand for demand management.

Topics of Interest:
• TSMO
• Traffic Management
• Public Works
• Transportation Planning

WORKSHOP DATE & TIME:
November 18, 2015
9:00 AM - 4:00 PM

LOCATION:
Transportation Planning and Policy Institute, Room 1000, 1000 North 17th Street, Denver, CO 80202

COST/FEE:
None

More information:
For more information, please contact: TPM@fhwa.dot.gov

Planning for Reliability Workshop: Advancing Reliability through Operations
November 2015

WORKSHOP DATE & TIME:
November 18, 2015
9:00 AM - 4:00 PM

LOCATION:
TBD

COST/FEE:
None

More information:
For more information, please contact: TPM@fhwa.dot.gov

Strategies: Traffic Incident Management Responder Training

- More than 425,000 responders trained to date
- Train-the-trainer model
- Material in more than 40 public safety training academies in 26 States
- Graduating responders help change the state of the practice for incident response

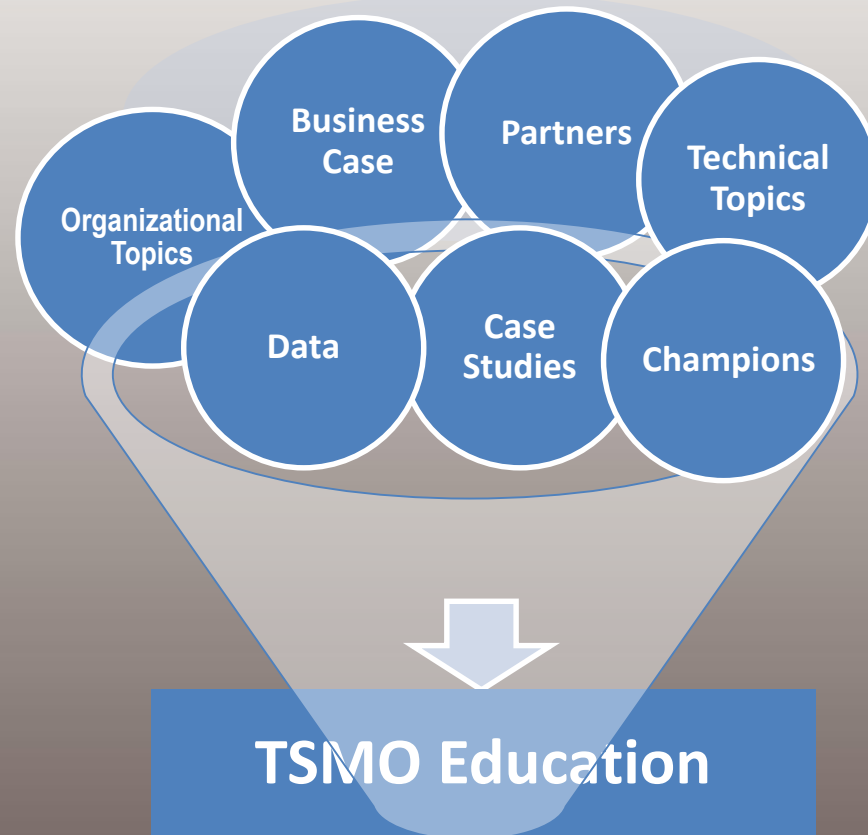


Photo: 123rf.com



TSMO Education

Leverages
combined
efforts of
many



Is sustained



Contact Information

Tracy Scriba

Team Leader, Planning and Organizing for Operations

FHWA Office of Operations

tracy.scriba@dot.gov



Our Role in TSMO

Advancement / Education / Implementation

- Public Sector
- Private Sector
- Academia



Our Role in TSMO

Advancement / Education / Implementation

Small Group Discussion

- Divide into three groups by role
 1. Public Sector
 2. Private Sector
 3. Academia
- Actions?
- Advocacy?
- Priorities?
- Mindset Shift?



Break

How People Learn



Adult Learning Principles

Small Group Discussion

- Review adult learning article
- Identify how adults learn best
- Describe situations encouraging adult learning
- Keys to understanding/assessing adult behavior



Facilitator Responsibilities

- Focus on learners
- Encourage discussion
- Manage difficult situations
- Organize learning environment



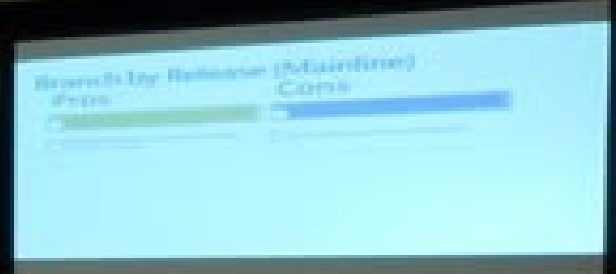
Facilitator Responsibilities

Small Group Discussion

- Review photo
- Discuss benefit(s) or drawback(s) of room set-up
- Debrief answers with large group











Powerful Training is...

- Effective
- Efficient
- Engaging
- Learner-centered
- Performance-based

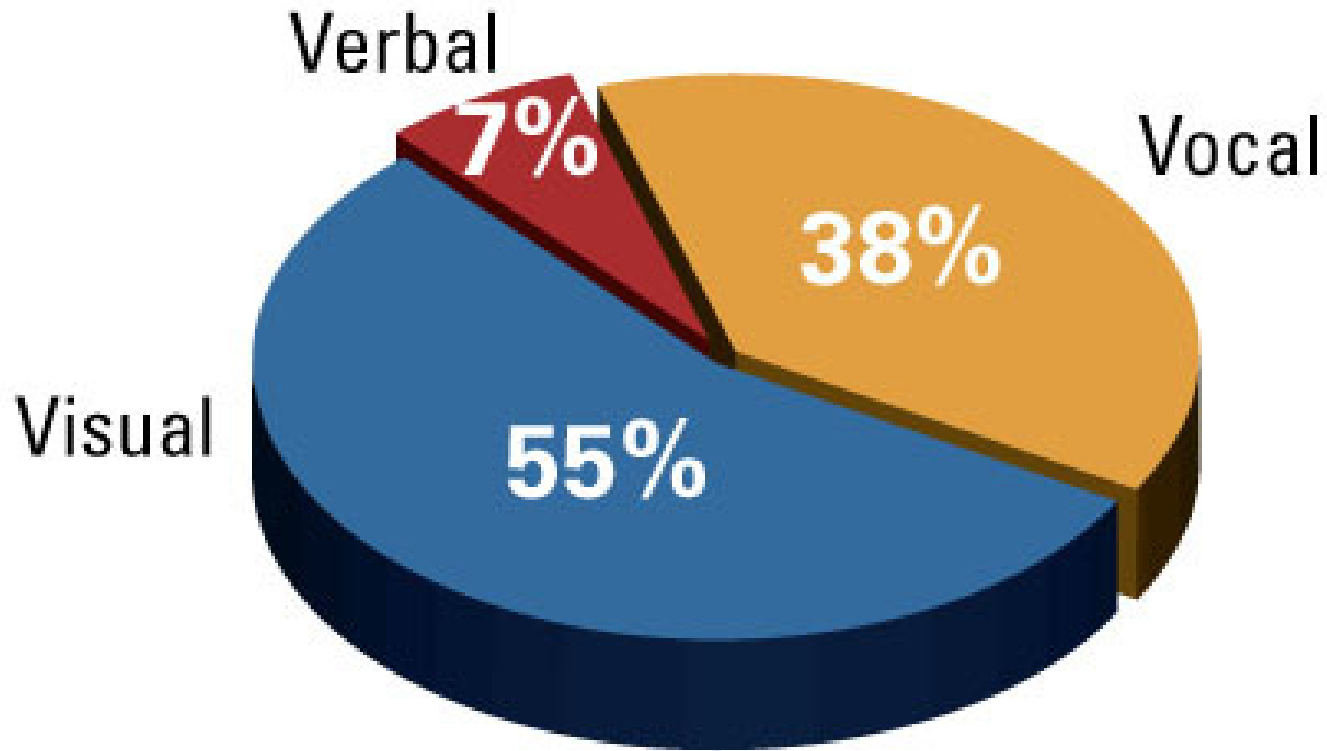


Performance is

$(\text{Ability} + \text{Knowledge}) * \text{Inspiration} = \text{Success}$



Communication Channels



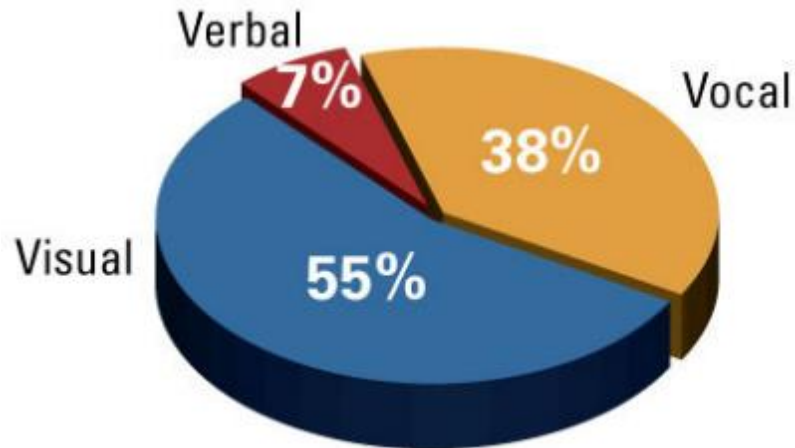
** Based on research by Albert Mehrabian, Ph.D., Professor Emeritus, UCLA. See his book, Silent Messages.*



Communication Channels

Visual Channel

- Controlling nerves
- Eye contact
- Posture and movement
- Gestures and facial expressions
- Personal appearance



Posture and Movement

- Are visual messages
- Decreases nervousness
- Aids proper breathing
- Promotes voice projection



Gestures / Facial Expressions

- Clarify and support message
- Dramatize ideas
- Emphasize feelings
- Reduce nervousness
- Stimulate participation



Effective Gestures

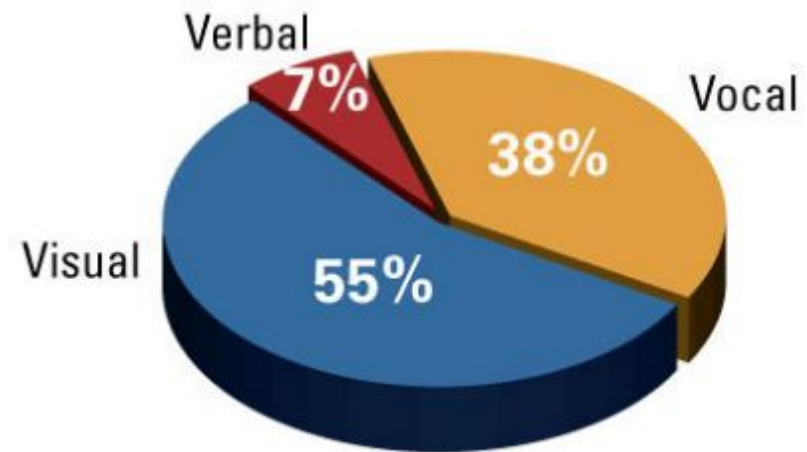
- Involves hands to support message
- Are personal and natural
- Are made smoothly
- Last long enough to connect with participants



Vocal Channel

How you sound

- Voice volume and projection
- Speaking rate
- Voice dynamics
- Articulation



Voice Dynamics

Effective

- Confident, spontaneous, upbeat tone
- Inflection conveys meaning
- Tone reflects spirit of message

Ineffective

- Speaking without meaning, inflection, or emotion



Verbal Channel

Content or “the words you use”

- Use facilitator notes
- Use personal stories
- Manage podiums and other props
- Use AV effectively





Speaking Opportunity

Speaking Opportunity

A Favorite Story

- Topic: work, family, school, vacation, hobbies
- Story: humorous, informative, lessons learned
- Open, middle, and close
- 2 min or less



End of Day 1

- Final Comments
- Hotel Check-in
- Dinner instructions
- Day 2 start





TSMO Train-the-Trainer

Olathe, KS / September 5, 2019

McPherson / Volz





A construction site with several workers in orange safety vests and white hard hats. They are standing near large, dark metal pipes that run across the foreground. The background is slightly blurred, showing more workers and equipment. The text "Drive to Zero" is overlaid in the bottom left corner.

Drive to Zero

Safety Moment

Driving in Construction Zones

Between 1982 and 2014, **24,745** people lost their lives in work zone crashes. Here are some tips to stay safe when entering work zones:

- Be patient
- Expect the unexpected
- Buckle up
- Pay attention to all signs and flaggers
 - (Don't assume there are no workers present even if you don't see them)
- Watch for detours and lane diversions
 - (Merge promptly at lane closures)
- Leave plenty of following distance between vehicles
 - (Most accidents in construction zones are rear-end collisions)



Agenda Review

- Day 1 Review
- TSMO Culture
- Peer State TSMO Program
- Conveying the TSMO Message
- Review/Update TSMO Materials
- Speaking Opportunity/ TSMO Topics
- TSMO-related Q/A
- Next steps for Advancing TSMO



Day 1 Review

- TSMO Principles
- FHWA Perspective
- Our Role in TSMO Advocacy
- Learning Styles
- Speaking Opportunity
- [NOCoE Awards Video](#)



What is TSMO Culture?

- Acceptance of TSMO in agency's mission
- Institutionalization of TSMO into agency activities
- Values, assumptions, knowledge and expectations for TSMO within an agency
- Key aspects of culture
 - Leadership/championing TSMO
 - TSMO program status
 - Staff recruitment, retention and training





TSMO Culture in Public Agency

Burt Morey
Deputy Secretary
Kansas Department of Transportation





Peer State TSMO

Brent Cain
TSMO Division Director
Arizona Department of Transportation



Break

Conveying the TSMO Message Public. Politicians. Media

The “TOM” Project

Tom Hein

Wichita Metro Public Information Officer

Wichita TMC Manager

Kansas Department of Transportation



THE TOM PROJECT

An integrated program of projects, strategies, services, technologies and processes that can help mitigate congestion, improve safety and increase the efficiency of our transportation system













Gene C. Moore















VE RIGHT NOW-SKYTRACKER

MULTIPLE VEHICLE CRASH
I-35 & SOUTHWEST BLVD



TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS

An integrated program of projects, strategies, services, technologies and processes that can help mitigate congestion, improve safety and increase the efficiency of our transportation system

TSMO

An integrated program of projects, **strategies**, services, technologies and processes that can help mitigate **congestion**, improve **safety** and increase the **efficiency** of our transportation system

TSMO

Integrated strategies to optimize the performance of existing infrastructure through the implementation of multimodal and intermodal, cross-jurisdictional systems, services and projects.

TSMO TOOLS



TSMO TOOLS

- **Work Zone Management**
- **Traffic Incident Management**
- **Traveler Information**
- **Special Event Management**
- **Road Weather**
- **Freight Management**
- **Traffic Signal Coordination**
- **Service Patrols**
- **Ramp Management**
- **Managed Lanes**
- **Transit Management**
- **Active Traffic Management**
- **Integrated Corridor Management**

WORK ZONE MANAGEMENT



The urge to merge



When traffic is heavy travel in two lanes to the merge point then **take turns** merging.



TRAFFIC INCIDENT MANAGEMENT

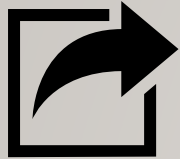


Wichita >700 trained

Statewide 3,496

National 312,401





WICHway

KDOT's Intelligent Transportation System

WICHway

TRAVEL SPEEDS ROAD CONDITIONS ROAD CONSTRUCTION CAMERAS & SIGNS

US 54 Left Ln. Closed
Left lane closed for eastbound & westbound US 54/400 E. K-163 between Woodburn & Rock. Rd. 14 - 1st Nov.

INTERACTIVE MAPS

TRAVEL SPEEDS ROAD CONDITIONS
CAMERAS & SIGNS ROAD CONSTRUCTION

Updated on 11/15/2013 4:41:10 PM

CAMERAS TOUR SIGNS TOUR

US 54 WB of Newark

**ACCIDENT AHEAD AT I-235
USE LEFT LANE**

Updated 11/15/2013 4:41:12 PM

Updated 11/15/2013 4:41:12 PM

WICHway

Kansas Department of Transportation
Classifier: State CR or DL being
700 S.W. Van Vorst Court
Topeka, KS 66603-2794

WICHway provides the latest traffic information on WICHway's live maps. It is part of its advanced Intelligent Transportation System (ITS) designed to help Kansas drivers make more informed and safer travel decisions. We're proud to have been named Kansas' #1.

Live Traffic & Road Condition for the WICHway Kansas network are available at www.wichway.org.
Statewide Traffic & Road Condition are available at www.kdot.net.

[wichway.org](http://www.wichway.org)



WICHway

KDOT's Intelligent Transportation System



wichway.org

TRANSPORTATION SYSTEMS OPERATION & MANAGEMENT

- **Work Zone Management**
- **Traffic Incident Management**
- **Traveler Information**
- **Special Event Management**
- **Road Weather**
- **Freight Management**
- **Traffic Signal Coordination**
- **Service Patrols**
- **Ramp Management**
- **Managed Lanes**
- **Transit Management**
- **Active Traffic Management**
- **Integrated Corridor Management**

BENEFITS OF TSMO

- **Reliability**
- **Safety**
- **Environmental**
- **Performance management**
- **Better informed public/driver**
- **Cost savings**
- **Alternatives to building**
- **Improved internal communications**
- **Improved event/incident mgmt.**
- **Improved road weather/maintenance management**

WWW.ITSHEARTLAND.ORG

Improving the quality of life for those transportation users who live and invest in America's Heartland Region

ITS HEARTLAND CHAPTER



Home | About | Membership | Annual Meetings | TSMO Trainings | Newsletter | Resources | Calendar

Regional Operations Forum Training Program

PHASE II OF THE REGIONAL OPERATIONS FORUM TRAINING PROGRAM IS COMING SOON.

Date and Time: TBD
Location: TBD

PAST Regional Operations Forum Training Program Webinars will be archived below. Click on the date of the webinar you would like to view.

April 23, 2018 - TSMO Program Planning - Presented at the ITS Heartland Annual, facilitated by Tracy Scriba and Jim Hunt, USDOT
Introduction
Panel Discussion
Key Elements
Small Group Activity/Closing
PDH - [Click here for a Certificate of Continuing Education for TSMO Program Planning Workshop](#)

March 22, 2018 - Funding Solutions for TSMO Activities
PDH - [Click here for a Certificate of Continuing Education for Funding Solutions for TSMO Activities](#)

February 22, 2018 - CV and AV Impacts on TSMO
PDH - [Click here for a Certificate of Continuing Education for CV and AV Impacts on TSMO](#)



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B	ottlenecks
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R	eliable
T	ransportation

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R	eliability
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C	reating
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T	raffic
O	peration
M	anagement

THE TOM PROJECT





Prep Time



Speaking Opportunity

Speaking Opportunity

TSMO-Specific Materials

- Identify mock audience
 - Executive Level
 - Mid-level Operations Staff
 - Field Contractor
- Deliver TSMO presentation
- Answer questions, if asked
- 2 min or less



Lunch

Facilitation Techniques

- Managing your notes
- A/V
- Managing Discussions / Questions
- Intervention strategies



Encourage Discussion

- Ask effective questions
- Use listening skills
- Use flipchart or whiteboard
- Think “parking lot”
- Be careful with laser pointers



Questions Provoke Learning

- Ask open-ended questions
- After posing question
 - Be selectively quiet (pause)
 - Listen
 - Allow participants think time
- Avoid being judgmental
- Never embarrass participants



Managing Questions

- Repeat the question
- Answer question for room (not just the individual)
- Involve entire audience
- Thank question “asker”
- Use your interpersonal skills



Responding to Participants

- Paraphrase
“So, what you’re saying is...”
- Reflect feelings
“You feel that...”
- Summarize and request confirmation
“Let me see if I understand, you...”



Intervention Strategies

- Level 1: Do Nothing
- Level 2: Off-line Conversation
- Level 3: Impersonal Group Time
- Level 4: Off-line Confrontation
- Level 5: In-group Confrontation



Intervention Strategies

Table Exercise

- Review situation
- Identify most effective strategy
- Communicate answer to large group



Mid-Day Knowledge Check

Table Exercise

- Identify top five key takeaways (Review notes)
- Share answer with group, when called upon





Next Steps

- Action items and next steps
- Putting the training in action
- Audiences to target
- Adding TSMO to the transportation discussion



End of Day 2

- Final Comments
- If you have follow-up questions

