AASHTO
Subcommittee on Transportation Systems Management and Operations (STSMO)

2017 SCOM Annual Meeting, Providence, RI

Galen McGill, P.E.
System Operations & ITS Manager, Oregon Dept. of Transportation
Co-Chair, STSMO Research TWG and NOCOE TAC Member
Monday, July 31, 2017
<table>
<thead>
<tr>
<th>Year</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>2001</td>
<td>Organizational Meeting, Overland Park, KS</td>
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<td>2001</td>
<td>AASHTO Resolution to Establish SSOM</td>
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<td>2001</td>
<td>1st SSOM Meeting Held in San Antonio, Texas</td>
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<td>2004-2010</td>
<td>Successive Yearly Joint Meetings with AASHTO Subcommittees and other Events</td>
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<td>2010-2011</td>
<td>Transition Phase</td>
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<td>2011-2012</td>
<td>SSOM transitioned to STSMO – New Chair and Revitalized STSMO Technical Working Groups</td>
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<td>2012-2015</td>
<td>STSMO Fully Established with STSMO Strategic Plan, NOCoE Business Plan and NOCoE fully established</td>
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<td>2016-present</td>
<td>V2IDC Phase 1 and Phase 2, SPaT Challenge, ITSWC CAV bilateral sessions with AU and FR</td>
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STSMO Crosscutting Themes

**TOPIC AREAS**
- Standards and Technology
- Strategic Plan
- Incident Management and Regional Operations
- Performance Measurement
- Work Zones
- Traveler Information
- Connected Vehicles
- Outreach and Education
- Workforce Development

**CROSSCUTTING THEMES**
- Alignment with SCOM, SCOTE, SCOTSEM, SCOPM, SCOP
- Performance Measures
- ATM, ICM, Connected vehicles
- Institutional Issues/ Roles
- Funding/ Reauthorization
- Incident Management
- Research Needs
2017 STSMO Leadership Team

STSMO
Shailen Bhatt, CO - Chair
John Nisbet, WSDOT – Vice Chair
Martin Knopp, FHWA – Secretary
Gummada Murthy, AASHTO – Liaison
Patrick Zelinski, AASHTO - Liaison

Focus Area 1
Systems Operation
Strategies
D. Gustafson, VA/
B. Freeze, TN

Focus Area 2
Systems Operations
Performance Measures
D. Bremmer, WA /
T. Kratofil, MI

Focus Area 3
TSM&O Research
G. McGill, OR /
S. Marler, IA

Focus Area 4
TIMTAG
T. Lane, AZ /
J. Sagal, MD

Focus Area 5
Connected and Autonomous Vehicles
Blaine Leonard, UT / Greg Larson, CA /

FHWA Liaisons
Kevin Gay
Rich Taylor
Tracy Scriba
Paul Jodoin
John Corbin/Bob Sheehan

FHWA Liaisons
FHWA Liaisons
FHWA Liaisons
FHWA Liaisons
Transportation System Operations (TSO)

Options for working structure in TSO:
- Subcommittees
- Technical Committees
- Communities of Practice
- Task Forces

Special Committee on Wireless Communications Technology (SCOWCT)
Subcommittee on Transportation System Management and Operations (STSMO)
Subcommittee on Highway Transport (SCOH)
Charge to Committee Chairs

1. A **general purpose statement** that describes the purpose of the committee and its membership,

2. A **committee charter** that delineates the leadership structure of the committee and establishes reporting relationships and processes by which the committee does business,

3. A **strategic plan** that establishes multi-year priorities, goals and strategies that are consistent with the AASHTO Strategic Plan, and

4. An **action plan** identifying issues and priorities for committee work.
STSMO Key Initiatives

• Plan for an AASHTO Operations Guide (NCHRP 20-07/392, 2017 Q2)
  • “Green book” for Operations

• Transportation System Management and Operations Workforce Development--Position Details and KSAs (NCHRP 20-07/408, 2018 Q3)
Proposed V2I DC Structure – Phase 2

- V2IDC Executive Committee
  - V2I DC Strategic Initiatives TWG
  - V2I DC Guidance TWG
  - V2I DC Peer Exchange / Outreach TWG

- CAV-ELT
- USDOT - ITS JPO
- FHWA
- FTA
- NHTSA
SPaT Challenge

What is the Challenge?
To challenge state and local public sector transportation IOOs to cooperate together to achieve deployment of DSRC infrastructure with SPaT broadcasts in at least one corridor or network (approximately 20 signalized intersections) in each state by January 2020
Possible Connected Fleet Challenge

Every Transportation Related Agency Equips at least one Vehicle with an OBU by 2020
WELCOME TO THE NATIONAL OPERATIONS CENTER OF EXCELLENCE

NOCOE SOLAR ECLIPSE RESOURCES

The National Operations Center of Excellence is coordinating resources for the Total Solar Eclipse taking place on August 21, 2017.

Please visit our Solar Eclipse Resource page for details on the solar eclipse task force, resources for state and local agencies, and various other resources that may be of interest to you.

The path of totality will cover 14 states West to East across the country, however, the eclipse will be visible and have an effect on the entirety of the contiguous 48 states.

We recommend you watch our 2017 Total Solar Eclipse Webinar, held in November 2016, for a brief overview of the eclipse.

HEADLINE NEWS

Resources for the Total Solar Eclipse
June 22, 2017

Idaho Transportation Department Prepares for Eclipse Weekend
June 19, 2017

Federal Emergency Management Agency Encourages People to Prepare for the 2017 Atlantic Hurricane Season
June 19, 2017

REGIONAL OPERATIONS FORUMS

Regional Operations Forums (ROFs), developed by the second Strategic Highway Research Program (SHRP2) and the Transportation Research Board (TRB), provide practitioners...
Knowledge Center: Over 3,000 resources and counting!

- Active Traffic Management
- Arterial Management
- Autonomous Vehicles/Connected Vehicles
- Cybersecurity
- Electronic Toll and Fare Collection
- Emergency Preparedness and Security
- Freeway Management
- HOV/HOT Lane Development
- Intelligent Transportation Systems
- Integrated Corridor Management
- Managed Lanes
- Regional Traffic Management Centers
- Road Weather Management
- Traffic Incident Management
- Traffic Signal Operations
- Traveler Information
- Autonomous Vehicles/Connected Vehicles
- Cybersecurity
- Electronic Toll and Fare Collection
- Emergency Preparedness and Security
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- HOV/HOT Lane Development
- Intelligent Transportation Systems
- Integrated Corridor Management
- Managed Lanes
- Regional Traffic Management Centers
- Road Weather Management
- Traffic Incident Management
- Traffic Signal Operations
- Traveler Information
Transportation Systems Management & Operations (TSMO)
Implementation and Strategic Planning
Organizational Alignment/Practices/Challenges
## MDOT TSMO Strategic Business Plan

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<thead>
<tr>
<th>MDOT</th>
<th>Mission</th>
<th>MDOT TSMO</th>
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<tr>
<td>Providing the highest quality, integrated transportation services for economic benefit and improved quality of life.</td>
<td>Mission</td>
<td>TBD</td>
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<th>Vision</th>
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<td>MDOT will be recognized as a progressive and innovative agency, with an exceptional workforce that inspires public confidence.</td>
<td>Vision</td>
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<tr>
<th>Leadership • System Focus • Safety Partners • Workforce • Customer Centered Innovative &amp; Efficient</th>
<th>Strategic Areas of Focus</th>
<th>Capability Maturity Model Dimensions:</th>
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<td>Business Processes</td>
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<td>Culture • Organization/Workforce</td>
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<td>Collaboration</td>
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# TSMO Business Plan Strategies

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## TSMO Business Plan Strategic Actions

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### 2-3 SMART Action Items Each
MDOT TSMO Mission

• Operate and manage an optimized, integrated transportation network by delivering high quality services for safe and reliable mobility for all users

MDOT TSMO Vision

• Integrate Operations as a core MDOT program united with the execution of MDOT’s overall mission

• Inspire public confidence as a progressive and innovative national leader in the management and operations of our transportation system

• Collaborate across program areas, leveraging technology and resources to achieve the best possible results

• Maintain a sustainable and engaged operations workforce with exceptional knowledge, skills, and abilities
MDOT TSMO Strategic Areas of Focus

• Evaluate and Streamline Information Technology Processes
• Integrate Operations across All Business Areas
• Integrate the Operations of Intelligent Transportation Systems (ITS) and Signals
• Adapt Processes, Products, and Training to Advances in Technology
• Enhance Communications and Outreach to External and Internal Stakeholders
• Prioritize Resources to Meet Critical Emerging Needs
• Drive Progress with Meaningful Performance Measures
“Providing the highest quality integrated transportation services for economic benefit and improved quality of life”