AASHTO SSOM Webinar

March 21, 2014
Agenda

11:30  Opening Remarks (D. Hunt and J. Lindley)
11:35  SSOM Strategic Plan – Technical Working Groups
   - TWG for System Operations Strategies (J. Toth and J. Nisbet)
   - TWG for Performance Measures (Dennis and Daniela)
   - TWG for National Operations Center of Excellence (D Hunt and J Corbin)
12:00  Discussion on SSOM Strategic Plan
12:15  National Operations Center of Excellence & SSOM Technical Services Program
   - NOCoE Overview and Updates (D Hunt, G. Murthy and J Conrad)
   - SSOM Technical Services Program Resolution (D Hunt and G. Murthy)
12:45  Discussion on NOCoE and Technical Services Program
1:00   SSOM Annual Meeting Agenda – Overview
1:15   Discussion
1:15   Closing Remarks/Adjourn
Opening Remarks

- Don Hunt, SSOM Chair
- Jeff Lindley, FHWA
SSOM Strategic Plan – An Overview

John Corbin, Vice Chair, (Wisconsin DOT)
SSOM Strategic Plan

• Defines the desired future state of an organization (its long term goals) and defines the actions required to achieve these goals
• This Strategic Plan is the guiding document for the activities of the SSOM.
SSOM Strategic Plan

• Outlines the overall direction for the SSOM.
• Follows a structured process that goes from the general to the specific Vision, Mission, Strategic Goals, Actions and Performance Measures.
• Establishes a clear purpose of the SSOM
• Defines specific outcomes that will fulfill the SSOM Vision
• Identifies specific activities that must be undertaken to meet the Strategic Goals; and
• Established metrics to monitor SSOM effectiveness to meet State DOT TSMO needs
SSOM Strategic Plan and Technical Working Groups (TWG)

1. TWG for Systems Operations Strategies
   Chairs: Jennifer Toth and John Nisbet

2. TWG for Systems Operations Performance Measures
   Chairs: Dennis Motiani and Daniela Bremmer

3. TWG for Operations Center of Excellence, which will transition to the TSM&O Research Working Group
   Chairs: Don Hunt and John Corbin
Work Plan for TWG for Operations Strategies

Jennifer Toth (AZDOT)
John Nisbet (WSDOT)
Systems Operations Strategies TWG Activities

• Championing innovative technology within research programs such as NCHRP and SHRP2

• Sponsoring webinars and technical sessions on Integrated Corridor Management that focus on the critical aspects of this program including traffic incident management and non-recurrent delay, state of the practice, organizational partnerships and lessons learned.

• Prioritizing the broad range of operations activities and practices with the objective of focusing on critical programs that will benefit from the working group’s support.

• Establish Incident Management (TIM) Working Group - to support the proposed TIM Technical Action Group (TIMTAG)
Systems Operations Strategies TWG
Near-Term Actions

• Develop prioritized list of working group topics
• Hold ICM webinar to introduce the topic
• Organize ICM session for SSOM Meeting
• Develop a plan for the creation of a TIM Technical Action Group (TIMTAG), which would be established to support the existing TIM Executive Leadership Group.
Support and information dissemination related to the Connected Vehicle program

- Explore opportunities to hold regional “Connected vehicle 101” seminar for interested agencies
- Develop seminar schedule, contents and agenda
- Conduct seminar
- Continue to explore other venues for information sharing related to the Connected Vehicle program
- Explore possible research topics related to the Connected Vehicle and TSM&O for recommendation to the Research Working Group
Work Plan for TWG for Performance Measures

Dennis Motiani (NJDOT)
Daniela Bremmer (WSDOT)
Performance Measures TWG Activities

- Works to ensure the practicality of the MAP-21 performance measures and the manner in which they are implemented.
- Works as a clearinghouse that provides assistance to State DOTs related to their performance measurement activities and needs.
- The ultimate goal is to demonstrate the effectiveness of various operational strategies and support the investment decision process.
Performance Measures TWG
Near-Term Actions

• Monitor MAP-21 NPRM for other performance measures to understand federal themes and approach
• Conduct survey to solicit comments and input from states on NPRM for system reliability performance measures
• Prepare recommendations for AASHTO’s response to NPRM for system reliability performance measures and coordinate with other, affected AASHTO committees
Performance Measures TWG
Near-Term Actions

• Apply, clarify, or refine if needed, definitions for reliability performance measures and develop implementation guidance
  – Support the continued evaluation, clarification and or refinement, as needed of existing AASHTO definitions and proposals for national MAP-21 reliability performance measures
  – Develop procedures and implementation support for derivation of measures (data source, interpretation of components, method of calculation, etc.)
  – Develop recommendations for applying the MAP-21 performance measures
Performance Measures TWG
Long-Term Actions

- Monitor performance measure activities, nationally
  - Conduct annual survey of states’ operations performance measures to include system reliability performance measures and various performance management programs
  - Produce an “Annual Report” highlighting current state of the practice, best practices and strategies for consideration by others
  - Identify implementation challenges and gaps and recommend actions and research to close the gaps
Work Plan for TWG for Operations Center of Excellence (OCoE)

Don Hunt (CODOT)
John Corbin (Wisconsin DOT)
Operations Center of Excellence TWG Activities

- Developed a business plan that aligns high-priority features with available funding, and defines the phased implementation steps associated with the creation of an Operations Center of Excellence (OCOE)
Operations Center of Excellence TWG
Near-Term Action Plan

• Currently Involved in the OCOE Business Plan implementation Jointly with AASHTO and FHWA
• Establish SSOM Technical Service Program (TSP) through AASHTO Resolution Procedures
• At 2014 SSOM Annual Meeting Present the SSOM TSP resolution for SSOM to ballot
• At 2014 AASHTO SCOH and BOD Spring Meetings Present and Seek Approvals for Establishing SSOM TSP

(More Details on OCoE and SSOM TSP will be presented in the following Slides)
Operations Center of Excellence TWG
Long-Term Action Plan

• This work group will be Transitioned to become the work group on TSM&O Research

• TSM&O Research - to connect the TSM&O community with the many ongoing national research activities including those of the ITS/JPO, FHWA, SHRP2, NCHRP, and the AASHTO membership
Operations Center of Excellence TWG Long-Term Action Plan (Contd.)

- Connected Vehicle Deployment Coalition and TSMO Research WG Integration
- Autonomous Vehicle, Next Generation 511 and Other Technologies Deployment
Renaming SSOM to STSMO

- Proposed renaming SSOM to Subcommittee on TSMO
- Current name:
  - Subcommittee on System Operations and Management (SSOM)
- New name:
  - Subcommittee on Transportation Systems Management and Operations (STSMO)
SSOM Strategic Plan
Interactive Discussion
Don Hunt, SSOM Chair, SSOM LT and SSOM Members
SSOM Members’ Action Item on SSOM Strategic Plan at 2014 SSOM Annual Meeting

• Draft SSOM Strategic Plan is sent to all SSOM Members for Comments
  – Adopt the Strategic Plan during the SSOM Business Meeting Resolutions session, Thursday, May 8, at the SSOM Annual Meeting
National Operations Center of Excellence
SSOM Technical Services Program
An Overview by
Don Hunt, SSOM Chair (CODOT)
Gummada Murthy, (AASHTO)
John Conrad, (AASHTO)
National Operations Center of Excellence

John Conrad, (AASHTO)
National Operations Center of Excellence (NOCoE)

- Evolution of the NOCoE
  - NCHRP 20-7 (298)
    - Potential audience, scope, and business models
- Board of Directors Resolution-from SSOM
- AASHTO/ITE/ITS America MOU
- Business Plan
- Implementation Working Group
- Next steps
NOCoE Business Plan Content

- Market Analysis
- Governance
- Management and staffing
- Financial Plan
- Implementation Plan
- Implementation Schedule
NOCoE Business Plan Content

• Products and Services
  ▪ Hosting an actively managed website with a suite of services provided by full time staff
    ❖ Evolution of the SHRP2 L17 EKTS
  ▪ Technical Services Program
    ❖ Address the highest priority technical areas
      • Previous reports and L17 EKTS Outreach & Engagement
    ❖ Provide opportunities for capacity building
      • Webinars
      • Workshops and training
    ❖ Technical support
Operations Center of Excellence Organizational Structure (NCHRP 20-7 BP)

OCOE Board of Directors
AASHTO, ITE, ITSA, FHWA

OCOE Executive Director

Actively Managed Web Site (EKTS)

Technical Service Program

Other Activities and Services

AASHTO

AASHTO Deputy Program Director, Operations

AASHTO Support Services:
- Contracting
- Legal
- HR
- Accounting
- Financial Management

ITE

Staff Support and In-Kind Services

ITS America
Implementation Working Group

• Location / Housing options
• Position Descriptions and Staffing
• Leveraging with Ongoing and Upcoming Operations Projects & Programs
  – TRB SHRP2, ITE, ITSA, FHWA and others
  – Integration of NTOC
• Contractual details and Financial Plan
  – MOU for Resource Sharing
  – AASHTO SSOM Technical Services Program
  – FHWA Cooperative Agreement
  – Subcontracts for staff support and services
Implementation Working Group

- Financial Plan
  - NOCoE startup - $700K annually (Business Plan Pro Forma)
  - Sources of Funds
    - FHWA Up to $500,000 per year
    - AASHTO SSOM TSP (estimated) - $200,000
    - In-kind contributions from AASHTO, ITE and ITS America
    - 10 month operation of EKTS through SHRP2
    - Other SHRP2 TBD
    - Integration of NTOC
Longer Term Opportunities for Coordination and Leveraging of Resources

• Coordination with USDOT
  – FHWA Operations programs including ICM, ATM, etc.
  – Tolling and Pricing Programs
  – RITA on Connected Vehicle Programs

• Coordination and alignment with National Operations Academy

• Corridor Coalitions – I-95 CC, I-90 CC etc.

• Other Agencies – AAMPO?, NACO? APTA, UTCs? Others?
National Operations Center of Excellence
SSOM Technical Services Program
Don Hunt, SSOM Chair (CODOT)
Gummada Murthy, (AASHTO)
NOCoE Technical Services Program

- AASHTO SSOM to serve as Host AASHTO Committee for NOCoE to offer a platform for AASHTO SSOM and SCOH ops committees including SCOTE, SCOM, SCOTSEM, SCOWCoT and SCOHT to continue interactions on cross-cutting initiatives and TSMO research programs.
- Work with AASHTO SCOH to seek concurrence and alignment between current SCOH TSPs with the proposed SSOM sponsored NOCoE TSP program.
AASHTO Envisions NOCoE As a Single-Service Provider for all SCOH Operations Programs

- Work with FHWA and TRB to host All SHRP2 reliability products on NOCoE and continue to collaborate w/ USDOT FHWA and JPO on CV, AV and other operations programs (ICM, ATM, etc.)
- Training, Peer exchanges, Technology Sharing & Transfer and Proof of Concept Studies through Industry collaboration
- Collaborate to hold regional operations forums and national operations academy
- Alignment with corridor coalition programs
Sources of Funding for NOCoE

• NOCoE startup - $700K annually (per NOCoE Business Plan)
  - FHWA Provides Funding Support for NOCoE - $500,000
  - AASHTO Budget for SSOM TSP (estimated) - $200,000
(w/$10,000 per state DOT proposed annual contribution and initially a minimum of 20 State DOTs expected to participate in the TSP)
  ✓ Explain Relationship between NOCoE creation and SSOM TSP, and upcoming approvals of resolutions at AASHTO BoD meeting in May 2014

• AASHTO SSOM Technical Services Program Next Steps
  ✓ Update Report on AASHTO’s current SCOH TSPs
    o Concept Paper on the Proposed SSOM TSP and technical services to be provided
  ✓ Policy and Technical Resolution on Establishing SSOM TSP
    o Resolution Approvals at 2014 SSOM, SCOH and BOD Spring Meetings
    o Invoice State DOTs for SSOM TSP Program in June 2014

• Explore in-kind contributions from ITE and ITSA
## NOCoE Path...

### SHRP2 L17 KTS Soft Launch
- **Soft Launch**
  - Identify Target Audience
  - Provide Outreach
  - IT/Systems Support
  - Feedback and Input to Enhanced KTS

### KTS and NTOC
- **Phase 1**
  - NTOC + KTS Web Portal Integration
  - Merge NTOC and SL KTS

### Enhanced KTS
- **Phase 2**
  - Expand Integration of EKTS and NTOC Web Portal
  - EKTS IT development
  - EKTS Soft Launch
  - EKTS Fully Functional

### OCOE
- **Phase 3**
  - Integrated Web Platform
  - Other Defined Services

### Lead for National OCOE Advisory Board – AASHTO w/ITE and ITS America Reps
- **Establish and Hold Advisory Board Activities**
  - Content Management

### Lead for OCOE Operations – ITE
- **Merge NTOC Governance with KTS Advisory Board**

### Lead for OCOE Industry Partnerships – ITS America
- **Evolve KTS Advisory Board into Interim OCoE Board**
  - EKTS IT development
  - EKTS Soft Launch
  - EKTS Fully Functional
AASHTO NOCoE Milestones...

2014 SSOM Meeting (May)
- SSOM adopts OCOE business plan, Working Group report and Technical Service Program Requirements
- Ballots TSP Resolution
- Presents Resolution to SCOH and BoD

2014 AASHTO Spring Meeting (May)
- SCOH and BOD Adopts / and Approves TSP Resolution and the OCOE BP and WG Report

2014 AASHTO Activities (Summer-Fall)
- Develops TSP membership scope and deliverables
- Establishes TSP funding and administration structure and alignment with OCOE

2014 AASHTO Annual Meeting (Nov.)
- Presents updates to SCOH and AASHTO on the status of OCOE Establishment and AASHTO TSP formation and funding

2015 SSOM & AASHTO Spring Meetings
- Possible joint AASHTO SSOM meetings with MOU partners Host OCOE Inauguration Ceremonies Regional TSP activities

AASHTO / SSOM Efforts
- NOCoE managed Regional Summits on Operations Programs, Peer Exchanges, technical demonstrations and summits

OCOE Expected Outcomes
- SSOM Passes TSP Resolution TSP Resolution and finalized OCOE BP alignment with OCOE WG Report
- AASHTO BOD Direct AASHTO to invoice State DOTs to collect TSP Contributions beginning July 2014
- AASHTO expands MOU with ITE and ITSA and partners to develop scope for OCOE Commences OCOE establishment
- Early TSP contributions for state DOTs EKTS up and running with early products and services

AASHTO NOCoE Expected Outcomes
Key NOCoE Dates

• NOCoE TSP
  ▪ May – pass TSP resolution
  ▪ June – begin TSP invoices to states

• NOCoE Staff Hiring
  ▪ July-August – begin to advertise Executive Director position

• NOCoE kick off
  ▪ October
SSOM Members’ Action Item on NOCoE Technical Services Program at 2014 SSOM Annual Meeting

• Draft NOCoE TSP Resolution will be sent to all SSOM Members for Comments and Discussion at 2014 SSOM Annual Meeting
  – SSOM Members will come prepared to ballot for the resolution during the SSOM Business Meeting Resolutions session, Thursday, May 8, at the SSOM Annual Meeting in Nashville, TN.
NOCoE and AASHTO TSP
Interactive Discussion

Don Hunt, SSOM Chair (CODOT)
Gummada Murthy, (AASHTO)
John Conrad, (AASHTO)
Overview of 2014 SSOM Annual Meeting Agenda
Don Hunt, SSOM Chair, CODOT
Gummada Murthy, AASHTO
## SSOM Annual Meeting Agenda

<table>
<thead>
<tr>
<th>Monday May 5</th>
<th>Tuesday May 6</th>
<th>Wednesday May 7</th>
<th>Thursday May 8</th>
<th>Friday May 9</th>
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<tr>
<td>8:00 AM</td>
<td>SCOTSEM and SSOM LT</td>
<td>SSOM Plenary Session [125]</td>
<td>Roundtable Peer Exchange [125]</td>
<td>20-7 Panel Meetings (cont.) [25]</td>
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<td>9:00 AM</td>
<td>SCOTSEM 20-59/14B Panel Meetings &amp; SCOTSEM LT Meeting [20 or 30]</td>
<td>Connected Vehicle Roundtable Meeting [60]s</td>
<td>Lunch</td>
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<td>10:00 AM</td>
<td>SCOTSEM (cont.) [20 or 30]</td>
<td>SSOM Business Meeting Resolutions [125]</td>
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<td>ITS Standards Workshop [30]</td>
<td>TWG Breakout Session 1 [30]</td>
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<td>SSOM LT Meeting [30]</td>
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<td>Industry Exhibition Ice Breaker Event 2</td>
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<td>Industry Sponsored Peer Exchange Event 4</td>
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<td>8:00 PM</td>
<td>Industry Exhibition</td>
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Monday, May 5

- 1:00 PM–5:00 PM, 3.75 PDH
  - SSOM ITS Standards Workshop (Sponsored by USDOT, AASHTO and NEMA)
- 8:00 AM–5:00 PM, 7.50 PDH
  - NCHRP 20-59/14B Panel Meetings and SCOTSEM Leadership Team Meeting
Tuesday, May 6

- 7:30 AM – 9:00 AM
  - SSOM Leadership Team and SCOTSEM leadership Team joint breakfast meeting.
- 9:00 AM–12:00 PM, 3.0 PDH
  - NCHRP 20-59/14B Panel Meetings and SCOTSEM Leadership Team Meeting
- 9:00 AM - 3:00 PM, 6.0 PDH
  - Connected Vehicle Roundtable Meetings
- 3:30 PM–5:00 PM
  - SSOM Leadership Team Meeting
Wednesday, May 7

• 8:00 AM–10:00 AM, 2.0 PDH
  ▪ SSOM Plenary Session
• 10:00 AM–10:15 AM
  ▪ BREAK
• 10:15 AM–12:00 PM, 1.75 PDH
  ▪ SSOM Roundtable Discussion
• 12:00 PM–1:00 PM
  ▪ LUNCH
• 1:00 PM–3:45 PM, 2.75 PDH
  ▪ SSOM Technical Working Groups Breakout Sessions
• 3:45 PM–4:00 PM
  ▪ BREAK
• 4:00 PM–5:00 PM, 1.0 PDH
  ▪ Technical Working Group Updates
Thursday, May 8

- 8:00 AM–9:00 AM
  - SSOM Business Meeting- Actions and Resolutions
- 9:00 AM–10:00 AM
  - SHRP2 Reliability Program Updates – Jennifer Toth (Arizona) and Tracy Scriba (FHWA)
- 10:00 AM – 10:15 AM
  - BREAK
- 10:15 AM–12:00 PM, 2.75 PDH
  - SSOM Roundtable – Peer Exchange
- 12:00 PM
  - ADJOURN
- 1:00 PM–5:00 PM, 2.75 PDH
  - SSOM MAP 21 Workshop
- 1:00 PM–5:00 PM, 3.75 PDH
  - NCHRP 20-7 Panel Meetings for STSMO Research Plan
Friday, May 9

- 8:00 AM–12:00 PM, 3.75 PDH
  - NCHRP 20-7 Panel Meetings (cont.)
2014 SSOM Annual Meeting Agenda
Discussion
Closing Remarks/Adjourn