

# 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
- 1:30** 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.

# Systems Operations Strategies TWG

## Long-Term Actions

- 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

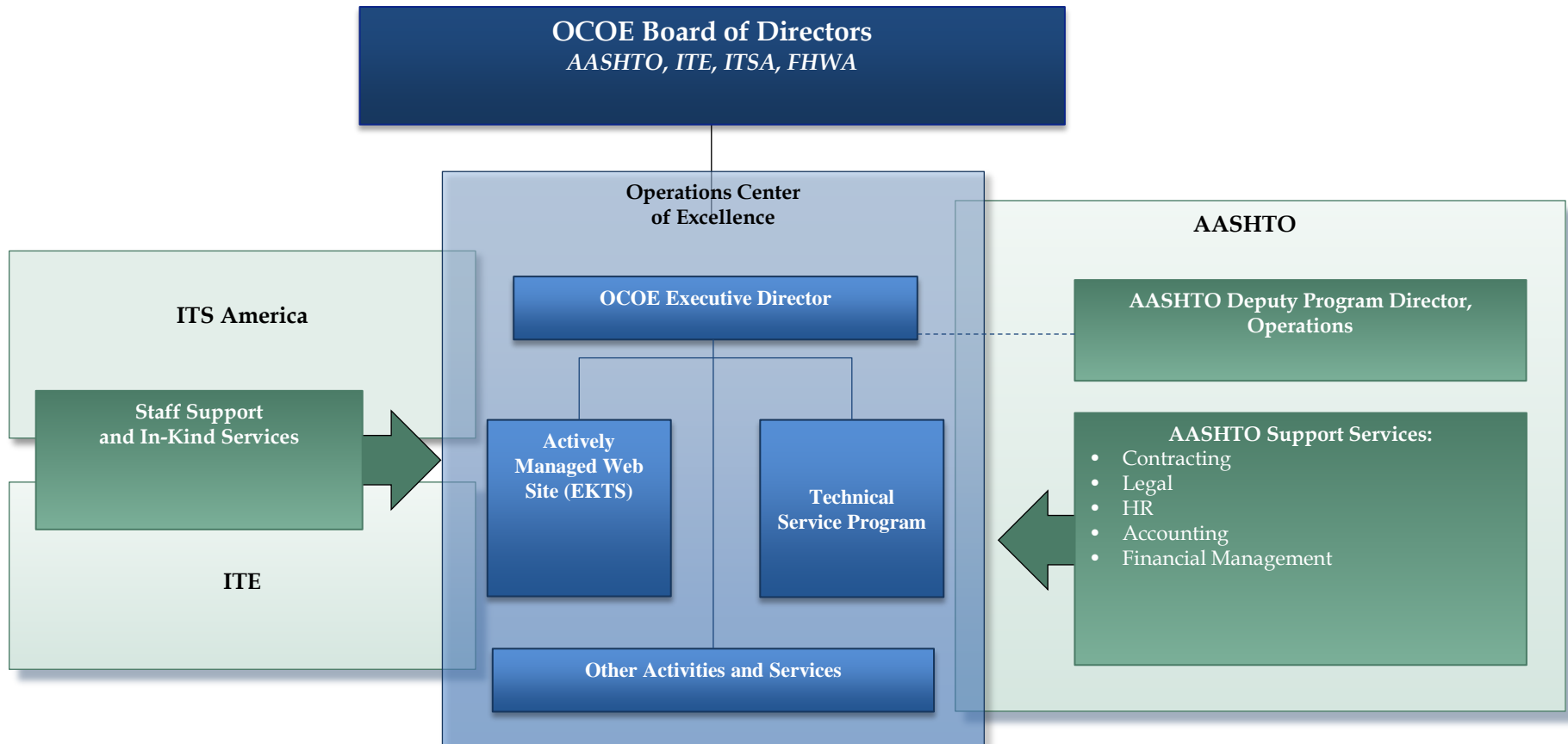
# NOCoE Business Plan Content

- 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 ECTS
  - Technical Services Program
    - ❖ Address the highest priority technical areas
      - Previous reports and L17 ECTS Outreach & Engagement
    - ❖ Provide opportunities for capacity building
      - Webinars
      - Workshops and training
    - ❖ Technical support

# Operations Center of Excellence Organizational Structure (NCHRP 20-7 BP)



# 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.

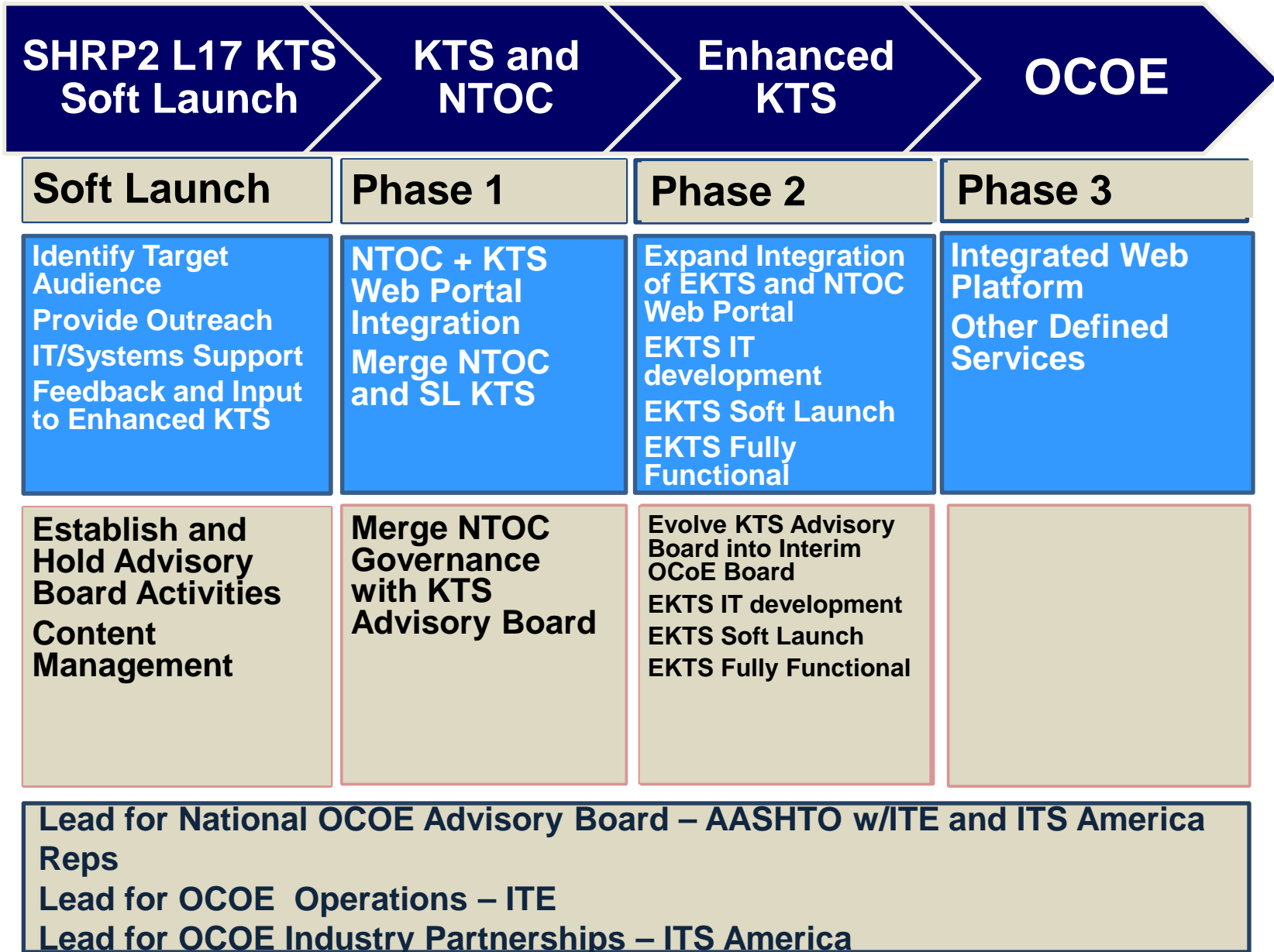
# AASHTO Envisions NOCoE As a Single-Service Provider for all SCOH Operations Programs

- 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

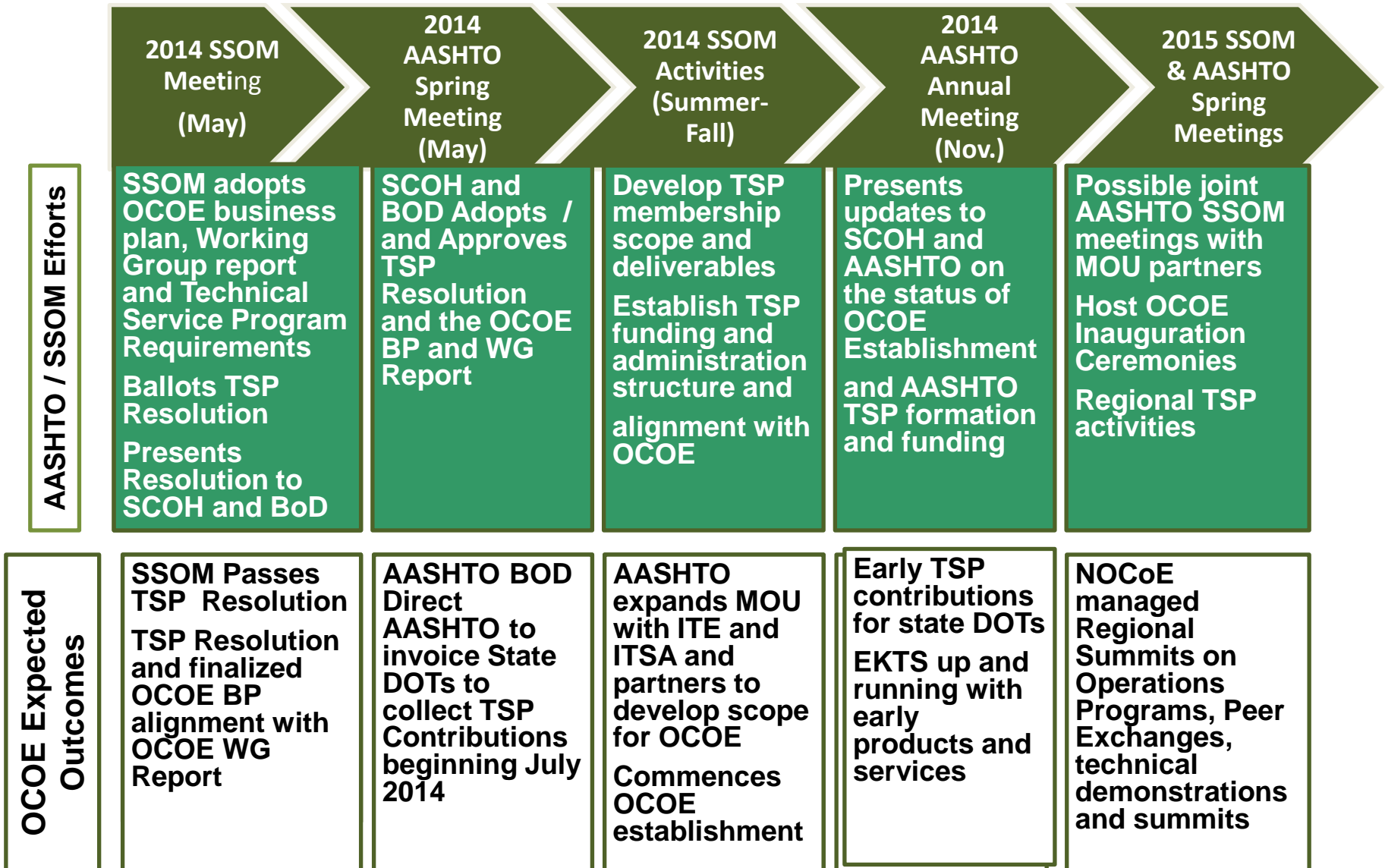
# Sources of Funding for NOCoE

- 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
    - Concept Paper on the Proposed SSOM TSP and technical services to be provided
  - ✓ Policy and Technical Resolution on Establishing SSOM TSP
    - Resolution Approvals at 2014 SSOM, SCOH and BOD Spring Meetings
    - Invoice State DOTs for SSOM TSP Program in June 2014
- Explore in-kind contributions from ITE and ITSA

# NOCoE Path...



# AASHTO NOCoE Milestones...



# 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

	Monday May 5	Tuesday May 6	Wednesday May 7	Thursday May 8	Friday May 9
	SCOWCOT Annual Meeting [maybe 25?]	SCOWCOT Annual Meeting [25]	SCOWCOT Annual Meeting [25]		
8:00 AM	SCOTSEM 20-59/14B Panel Meetings & SCOTSEM LT Meeting [20 or 30]	SCOTSEM and SSOM LT	SSOM Plenary Session [125]	Roundtable Peer Exchange [125]	20-7 Panel Meetings (cont.) [25]
9:00 AM		SCOTSEM (cont.) [20 or 30]	Connected Vehicle Roundtable Meeting [60]s	Break	
10:00 AM				Roundtable: SSOM Strategic Plan/ OCOE Business Plan/ [125]	
11:00 AM		Lunch		Lunch	
12:00 PM			ITS Standards Workshop [30]		SSOM LT Meeting [30]
1:00 PM		TWG Breakout Session 1 [30]		TWG Breakout Session 2 [30]	
2:00 PM		Peer Exchange Event 1	Industry Exhibition Ice Breaker Event 2	Industry Exhibition Host State Night Event 3	Industry Sponsored Peer Exchange Event 4
3:00 PM					
4:00 PM					
5:00 PM					
6:00 PM					
7:00 PM					
8:00 PM					

# 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

