

Joint Simulation Subcommittee

ACP80(1)

Sponsor Committees:

ACP20: Freeway Operations

ACP25: Traffic Signal Systems

ACP40: Highway Capacity and Quality of Service

ACP50: Traffic Flow Theory and Characteristics

ACP55: Traffic Control Devices

ACP80: Traffic Simulation

AEP40: Transportation Network Modeling

AMS10: Air Quality and Greenhouse Gas Mitigation

March 5, 2021 | 9:30 – 11:00a CST

Online | Zoom Platform



2021 Spring Liaison Meeting

Agenda

- A. Welcome and Introductions – *Chris Melson*
- B. Summary of SimSub Annual Meeting – *Chris Melson, John Shaw*
- C. HCM User Feedback Process and Forum – *Bastian Schroeder, David Stanek*
- D. NOCoE Resources: Case Studies, Forum, Research Idea Submission – *Patrick Son, Adam Hopps*
- E. Research Needs Statements (RNS) Process and Timeline – *George List*
- F. Ways to Provide Liaison Updates – *Chris Melson, ALL*
- G. Update on TSSM Review Process – *Mohammed Hadi, Sanhita Lahiri*
- H. Wrap Up – *Chris Melson*

Name
Affiliation
Liaison
Interest in SimSub

Agenda

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SimSub Goals

- Develop, maintain, or otherwise leverage existing, mechanism(s) to collect user needs and related input
- Recommend actions and venue to address user needs
- Develop, maintain, host, or otherwise contribute to existing, “living” library of reference material
- Provide forum for information exchange and foster joint efforts
- Maintain comprehensive liaison structure

SimSub Goals

- Develop, maintain, or otherwise leverage existing, mechanism(s) to collect user needs and related input
- Recommend actions and venue to address user needs

User Needs Task Group

- Develop, maintain, host, or otherwise contribute to existing, “living” library of reference material

Resources Task Group

- Provide forum for information exchange and foster joint efforts
- Maintain comprehensive liaison structure

Liaison/Outreach Task Group

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DISCUSSION FORUM

This area is intended for interaction among HCM users to exchange information and ideas on applying HCM procedures. When issues rise to the level that requires formal response from the TRB Committee on Highway Capacity and Quality of Service, they should be submitted for [Interpretation Request](#).

SUBFORUM	LATEST ACTIVITY
Technical Support Run into problems with the website? Have a suggestion? Let us know here!	RE: Streetval Expired June 30, 2017 by Tyrone Scorsone
General Discussion General questions, applications, and questions regarding the HCM 6th Edition	RE: Freeway Weaving Segments by Bill Sampson
Questions & Clarifications Having trouble with something in the HCM 6th Edition? Need further information to clarify a position? Conversations here will help create the ongoing errata for the manual found in the Interpretations page on this website.	RE: Gap Acceptance parameters (critical and follow-up headway) by Paul Ryus

Highway Capacity and Quality of Service Committee (ACP 40) User Feedback

Dave Stanek, PE – Fehr & Peers

Bastian Schroeder, PhD – Kittelson & Associates

HCQS Committee

- The Highway Capacity and Quality of Service (HCQS) Committee (ACP40) is concerned with investigating the physical and non-physical factors which affect capacity, traffic flow, comfort, convenience, and safety; and is responsible for developing computational techniques for quantifying the effect of these factors on capacity, traffic flow; and quality of service.
- HCQS organizes new research for and prepares updates to the *Highway Capacity Manual* (HCM)
- HCM has 3 print volumes and a 4th online volume

HCQS Websites



HCQS Committee
hcqstrb.org



HCM Development
hcm2010update.kaiproject.com



HCM Volume 4
hcmvolume4.org



TRB Committee on Highway Capacity and Quality of Service (ACP40)

HCQS Committee

- [Meetings and Announcements](#)
- [HCM information](#)
- [Members](#)
- [Subcommittees](#)

Welcome to the HCM 2010 Major Update Development Website.

The purpose of NCHRP Project 03-115: Major Update of the 2010 Highway Capacity Manual (HCM) is to support, to the extent practical, the performance measure requirements of MAP-21, travel time reliability analysis, and ATDM strategy evaluation, while maintaining the HCM's support of more traditional system planning, design, and operations activities. HCM chapters will need to be revised to incorporate the research related to these and be adopted by the Transportation Research Board's Committee on Highway Capacity and Quality of Service (HCQS).

This website is intended to serve as a means of communication between the production team, the oversight panel, and committee reviewers during the development of the HCM 2010 Major Update. Its principal purpose is to provide all interested parties a central source for up-to-date information about the project. A significant section of the site is devoted to posting draft HCM chapters and other research products for review.

Access to the site is restricted to members and friends of the HCQS Committee. If you already have a user account, please sign in below, or [Retrieve Your Password](#). To request access to the site, please email [Matt Kittelson](#) with an explanation of why you would like access.

Email

Password

[Sign In](#)

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[Questions / Comments? Please contact us here.](#)

HCM Development

- Post working papers, draft chapters, etc.
- Reviewers provide comments to authors
- Authors respond to comments
- Restricted to HCQS members and friends

HCM Development – Chapter Access

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Logged in as BSchroeder@Kittelson.com [Log out?](#)

Posted Documents

Click on a document title to download, view details, and provide comments.

[New Document](#)

[Chapter 38 - System Analyses](#) *Commenting closed*

[NCHRP 15-57 draft final report](#) *Commenting disabled*

[Chapter 26 - Freeway and Highway Segments Supplemental v6.2 \(CAV\) Final Draft](#) *Commenting closed*

[TRB paper on freeway CAV modeling](#) *Commenting disabled*

[Chapter 38 - System Analysis vote draft](#) *Commenting closed*

[Chapter 1 - HCM User's Guide v6.1](#) *Commenting closed*

[Chapter 9 - Glossary and Symbols v6.1 \(September 2020\)](#) *Commenting closed*

[Chapter 26 - Freeway and Highway Segments Supplemental v6.2 \(CAV\) vote draft](#) *Commenting closed*

[Chapter 38 - Network Analysis vote draft](#) *Commenting disabled*

[Chapter 31 - Signalized Intersections: Supplemental v6.1 \(CAV\)](#) *Commenting closed*

[Working paper on signalized intersection CAV modeling](#) *Commenting disabled*

[Chapter 33 - Roundabouts: Supplemental v6.1 \(CAV\)](#) *Commenting closed*

[Working paper on roundabout CAV modeling](#) *Commenting disabled*

[HCM Volume 1 v6.1 draft changes for consistency](#) *Commenting closed*

[Chapter 1 - HCM User's Guide v6.1 vote draft](#) *Commenting closed*

[Chapter 9 - Glossary and Symbols v6.1 vote draft \(January 2021\)](#) *Commenting closed*

[Chapter 31 - Signalized Intersections: Supplemental v6.1 \(CAV\) vote draft](#) *Commenting closed*

[Chapter 33 - Roundabouts: Supplemental v6.1 \(CAV\) vote draft](#) *Commenting closed*

HCM Development – Comment Tracking

[Home](#)[Documents](#)[My Account](#)[Reviewers](#)[Administration](#)Logged in as BSchroeder@Kittelson.com [Log out?](#)

Version 6.1 Draft Chapters: Chapter 31 - Signalized Intersections: Supplemental v6.1 (CAV) vote draft

Link

[Download](#)

File Name

Chapter_31_-_Signalized_Intersections_Supplemental_-_610_CAV2.pdf

File Size

5.54 MB

Posted On

February 5, 2021

Comments Due

February 18, 2021

Posted By

Paul Ryus

Admin Actions

[Edit](#)[Delete](#)

Document Subcommittees

Active Traffic Management Task Force
Interchange Ramp Terminals
Pedestrians & Bicycles
Planning & Preliminary Engineering
Performance Measures
Signalized Intersections
Traffic Simulation & Applications
Two-Lane Highways
Unsignalized Intersections
Urban Streets
User Liason
Freeways & Multilane Highways

Reviewer Assignments

No reviewer assignments present. Document must be enabled for download and commenting before reviewer assignments can be created.

Showing Existing Comments (2)

[Download all to CSV](#)

Comment

Response

#1

Not answered

Joe Fazio on February 5, 2021:
Page: 157 Line: 6

[Respond to
comment](#)

This draft has addressed my previous comments on previous drafts.

★ [Sign up now](#) to gain access to all the features of this website. NEW — access is now open to ALL USERS! — Already registered? Please [log in](#).

HIGHWAY CAPACITY MANUAL

6TH EDITION | A GUIDE FOR MULTIMODAL MOBILITY ANALYSIS

VOLUME 4: APPLICATIONS GUIDE

[Supplemental Chapters](#)[Errata & Updates](#)[Technical Reference Library](#)[Applications Guides](#)[FAQs](#)[Discussion Forum](#)[HCM 2010](#)

This is Volume 4 for the HCM 6th Edition, first published in 2016. To access Volume 4 for the HCM 2010, please visit hcm2010.org.

WHAT IS HIGHWAY CAPACITY MANUAL VOLUME 4?

The HCM consists of three printed volumes (Volumes 1-3) that can be purchased from the Transportation Research Board. Volume 4 is a free online resource that supports the printed manual. It includes:

- Supplemental chapters 25-37, providing details of the methodologies described in the Volume 1-3 chapters, example problems, and other resources:

HCM Volume 4

- HCM Chapters 25-37 (supplemental chapters)
- Errata, Updates, Reference Library, and Application Guides
- FAQs
- Requires (free) registration

HIGHWAY CAPACITY MANUAL

6TH EDITION | A GUIDE FOR MULTIMODAL MOBILITY ANALYSIS

VOLUME 4: APPLICATIONS GUIDE

[Supplemental Chapters](#)[Errata & Updates](#)[Technical Reference Library](#)[Applications Guides](#)[FAQs](#)[Discussion Forum](#)[HCM 2010](#)

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SUBFORUM

Technical Support

Run into problems with the website? Have a suggestion? Let us know here!

LATEST ACTIVITY

[RE: Streetval Expired June 30, 2017](#)

by Tyrone Scorsone

HCM Volume 4 Discussion Forum

- [Link to submit an Interpretation Request](#)
- Subforums: Technical Support, General Discussion, and Questions & Clarifications

Considerations for SimSub and TSSM

- Committee Business and Public-Facing Website should be different from TSSM working website
- Need mechanism for posting chapters, gathering review comments, and responding to comments
- Consider web presence of TSSM with login feature to get to comment tracking website
- Assure dedicated resources (or contractor) to maintain website and track comments



Questions and Discussion



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“Transferring knowledge about the TSMO practice around the country”

TRB Joint Simulation Subcommittee

SIM-Sub

NOCoE

National Operations Center of Excellence

Translating TSMO for the Future of the Transportation System

PRESENTATION OUTLINE

1. NOCoE Partners and Team
2. TSMO Awards
3. TSMO Resource Connect
4. Research in Operations Database
5. Workforce Development
6. Q&A

NOCoE Founding Partners



NOCoE Team

Patrick Son

Managing Director

Sarah Abel

Technical Program
Manager

Niloo Parvinashtiani

Technical Services
Associate

Adam Hopps

Communications and
Program Manager

Thomas Kern

Senior Consultant

3rd Annual NOCoE TSMO Award Categories

1. Best TSMO Project

We want to hear about your newest project that demonstrates the value of TSMO

2. Agency Improvement:

How did you use Capability Maturity Model Elements to improve your agency's TSMO capabilities?

3. Work Zones Using TSMO

We want to hear about how TSMO enhanced your work zone management efforts to improve safety and mobility.

4. Project Selection and Prioritization for TSMO

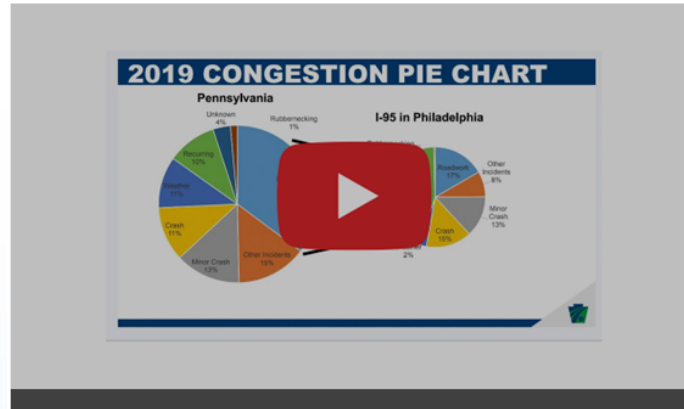
How are you ensuring that TSMO is incorporated into your capital infrastructure/improvement projects process focusing on project selection and prioritization policies and business processes?



THE 2021 TSMO AWARD WINNERS HAVE BEEN ANNOUNCED!

Best TSMO Project: Pennsylvania DOT

PennDOT's real-time incident and congestion information allows for actionable decisions to keep their highways safer for the traveling public.

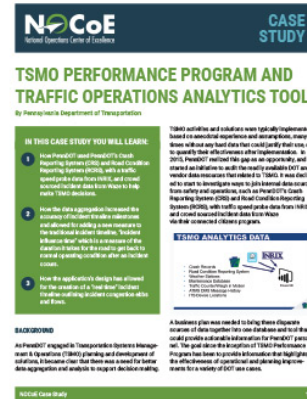


Case Study: TSMO Performance Program and Traffic Operations Analytics Tool

by Pennsylvania Department of Transportation

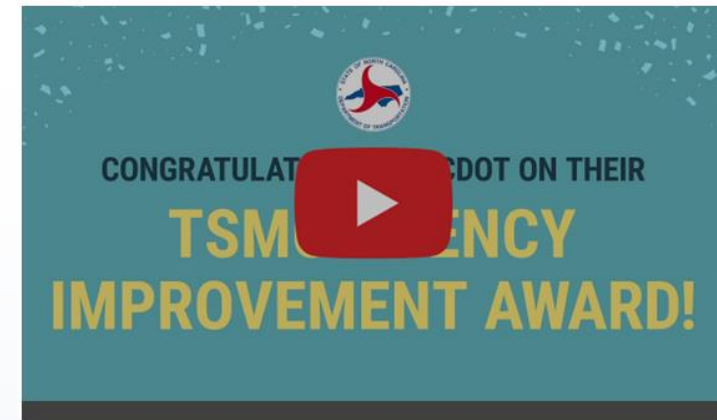
IN THIS CASE STUDY YOU WILL LEARN:

- How PennDOT used PennDOT's Crash Reporting System (CRS) and Road Condition Reporting System (RCRS), with a traffic speed probe data from INRIX, and crowd sourced incident data from Waze to help make TSMO decisions.
- How the data aggregation increased the accuracy of incident timeline milestones and allowed for adding a new measure to the traditional incident timeline, "incident influence time" which is a measure of the duration it takes for the road to get back to normal operating condition after an incident occurs.
- How the application's design has allowed for the creation of a "real time" incident timeline outlining incident congestion ebbs and flows.



Agency Improvement: North Carolina DOT

North Carolina DOT built a traffic incident management (TIM) training track to provide a lifelike classroom to increase incident response time, improve air quality, and help save the lives of responders.



Case Study: Traffic Incident Management (TIM) Training Track

by North Carolina Department of Transportation

IN THIS CASE STUDY YOU WILL LEARN:

- How traffic incident management (TIM) response training can be done safely in a test track facility
- How a test track can provide training in a multitude of physical features encountered in all three regions of the North Carolina: coastal, piedmont, and mountain, as well as incorporate a broad range of physical characteristics that allow agencies to practice various incident work zone applications and vehicle maneuvers
- How the test track education and training can reduce incidence clearance times.



PennDOT's Regional Operations Plans initiated collaboration and long-term planning activities to improve the safety and mobility of their travelers.

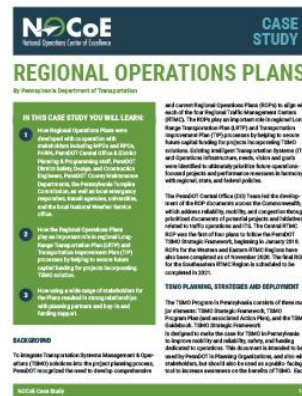


Case Study: Regional Operations Plans

by Pennsylvania Department of Transportation

IN THIS CASE STUDY YOU WILL LEARN:

- How Regional Operations Plans were developed with cooperation with stakeholders including MPOs and RPOs, FHWA, PennDOT Central Office & District Planning & Programming staff, PennDOT District Safety, Design, and Construction Engineers, PennDOT County Maintenance Departments, the Pennsylvania Turnpike Commission, as well as local emergency responders, transit agencies, universities, and the local National Weather Service office
- How the Regional Operations Plans play an important role in regional Long-Range Transportation Plan (LRTP) and Transportation Improvement Plan (TIP) processes by helping to secure future capital funding for projects incorporating TSMO solution
- How using a wide range of stakeholders for the Plans resulted in strong relationships with planning partners and buy-in and funding support.



Iowa DOT's proactive work zone management strategies improve the safety of the traveler and reduce the effects of delays from work zones.

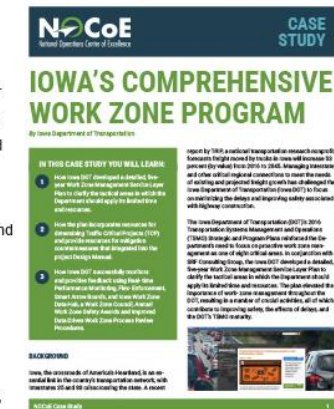


Case Study: Comprehensive Work Zone Program

by Iowa Department of Transportation

IN THIS CASE STUDY YOU WILL LEARN:

- How Iowa DOT developed a detailed, five-year Work Zone Management Service Layer Plan to clarify the tactical areas in which the Department should apply its limited time and resources.
- How the plan incorporates resources for determining Traffic Critical Projects (TCP) and provide resources for mitigation countermeasures that integrated into the project Design Manual
- How Iowa DOT successfully monitors and provides feedback using Real-time Performance Monitoring, Flex-Enforcement, Smart Arrow Boards, and Iowa Work Zone Data Hub, a Work Zone Council, Annual Work Zone Safety Awards and Improved Data Driven Work Zone Process Review Procedures.



THE WINNER OF THE 2021 TSMO AWARD FOR BEST TSMO PROJECT IS PENNSYLVANIA DOT



NEW WAY TO Connect – TSMO RESOURCE Connect

- Looking for resources on any topic of TSMO
- Looking for an expert on a particular TSMO topic
- Researching new technologies or initiatives
- Learning more about an existing initiative that NOCoE is involved in
- Anything TSMO
- <https://transportationops.org/tsmo-resource-connect>

USA/Eastern

October 2020

<

>

Mon	Tue	Wed	Thu	Fri	Sat	Sun
05	06	07	08	09	10	11
11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM
11:30 AM	11:30 AM	11:30 AM	11:30 AM	11:30 AM	11:30 AM	11:30 AM
12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM	12:00 PM
12:30 PM	12:30 PM	12:30 PM	12:30 PM	12:30 PM	12:30 PM	12:30 PM
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Research in Operations Database

<https://research.transportationops.org/>

Created	Focus Area	Idea	Rating	Status
08/06/2020	ITS Technologies	Machine Vision Interface with Light Emitting Diode (LED) Traffic Control Device Displays	★★★★★	Not Funded
08/04/2020	Transportation Systems Management & Operations	Use of Cloud and Software as a Service for Traffic Management Systems	★★★★★	Not Funded
08/04/2020	Transportation Systems Management & Operations	Applying Artificial Intelligence and Machine Learning Advances for Freeway Operations	★★★★★	Not Funded
07/31/2020	Freight/Commercial Vehicle Management and Operations	Permit Violations -Hauling permits	★★★★★	Not Funded
07/31/2020	Freight/Commercial Vehicle Management and Operations	Interstate Information Sharing of State Truck Regulatory Requirements	★★★★★	Not Funded
07/31/2020	ITS Technologies	Personal Protective Equipment for Individuals Working with Automated Vehicle Systems	★★★★★	Not Funded
07/31/2020	Emergency Management/Transportation Security	COMMUNICATING POLICE DIRECTIVES TO AUTONOMOUS VEHICLES: PROOF-OF-CONCEPT AND FULL- DEMONSTRATION	★★★★★	Not Funded
07/30/2020	Traffic Analysis and Management Tools	Quantifying the Safety Effects of Driver Assistive Systems	★★★★★	Not Funded
07/29/2020	ITS Technologies	Traffic Sensor Testing Methodology and Evaluation Program	★★★★★	Not Funded
07/24/2020	Transportation Systems Management & Operations	Evaluating the Impacts of Real-Time Warnings and Variable Speed Limits on Safety and Travel Reliability during Weather Events	★★★★★	Not Funded
07/22/2020	Freight/Commercial Vehicle Management and Operations	State Harmonization of Trucking Requirements	★★★★★	Not Funded

The TSMO Workforce Development Guidebook

(What it is and what it is not)



GOAL

*Assist you in creating
meaningful TSMO-related
positions that will help
advance your organization's
maturity*

So where do I find?



Recruiting a TSMO
Workforce

Model TSMO Position
Descriptions

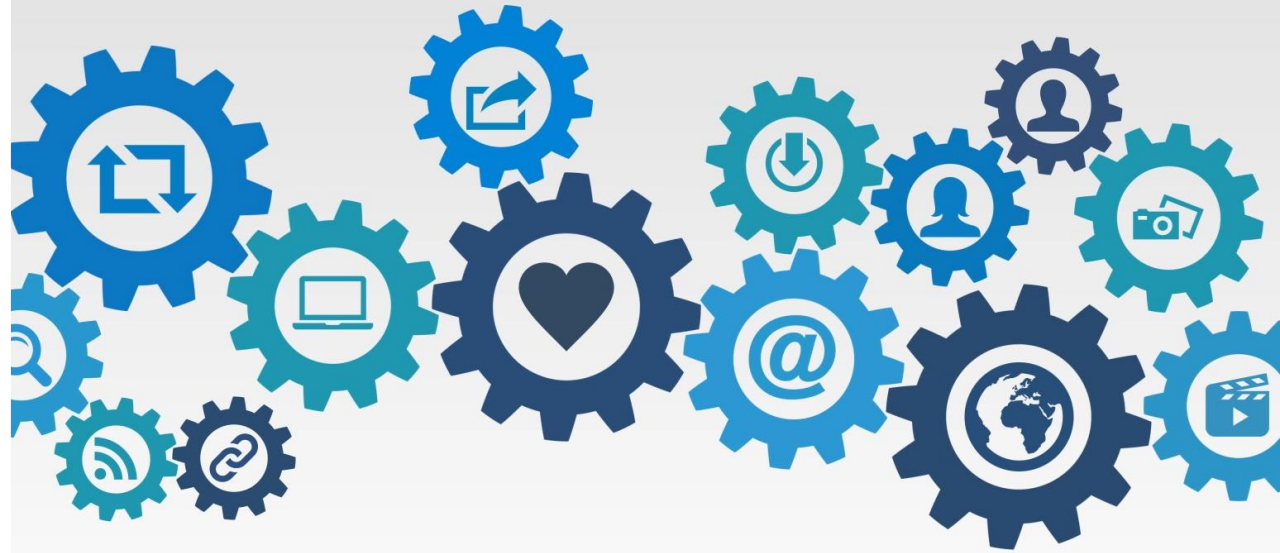
NOCoE
Website

Developing a
TSMO Workforce

TSMO Workforce
Retention

<https://transportationops.org/workforce>

If we don't think about transferring knowledge everyday, we are losing.



Knowledge Transfer is Everyday...

Engage Us: Online or Social

Adam Hopps
Communications Director

ahopps@transportationops.org



www.transportationops.org
[TSMO Resource Connect](#)



@NOCoeOps



[Linkedin.com/company/nocoe](https://www.linkedin.com/company/nocoe)



[Facebook.com/NOCoeOps](https://www.facebook.com/NOCoeOps)

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Funding TSSM Enhancements

SimSub Meeting
March 5, 2021

George List, NC State

Overview

- *Objective:* Identify funding sources to further the quality of the TSSM (and other simulation-related topics)
- *Funding sources:* NCHRP, pooled-fund studies, FHWA, DOE, USDOT research centers program, state research programs, voluntary efforts, other
- *This focus:* the NCHRP funding process
 - Direct TRB involvement
 - Committee research needs statements
 - Interactions with AASHTO/SCOR and other federal organizations

AASHTO SCOR



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Special Committee on Research and Innovation

AASHTO Liaison
Glenn Page, Associate Program Director, Project Delivery
gpage@aaasho.org

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[Peer Exchange Reports Topics](#)

[Programs](#)

[RAC Task Forces](#)

[Administration](#)

[Coordination and Collaboration \(CCTF\)](#)

[Program Management and Quality \(PM&Q\)](#)

[Value of Research \(VOR\)](#)

[RAC Surveys](#)

[Resources for Research Managers](#)

[FAQ](#)

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AASHTO Standing Committee on Research (SCOR)

Strategic Plan 2015-2020

[\(PDF Download\)](#)

Prepared for:
AASHTO Standing Committee on Research

July 1, 2015

Acknowledgments


This document was prepared for the AASHTO Standing Committee on Research by the SCOR Strategic Plan Update Task Force, with support from the National Cooperative Highway Research Program (NCHRP).

Members:


John Halikowski (co-Chair), Arizona Department of Transportation
Skip Paul (co-Chair), Louisiana Department of Transportation and Development
Darryll Dockstader, Florida Department of Transportation
Jim McDonnell, AASHTO
Anne Ellis, Arizona Department of Transportation
Jack Jernigan, FHWA
Calvin Leggett, North Carolina Department of Transportation
Tommy Nantung, Indiana Department of Transportation
Leni Oman, Washington State Department of Transportation
Bob Sack, New York Department of Transportation
Steve Takigawa, California Department of Transportation
Michael Trentacoste, FHWA

With support from Christopher Hedges and Christopher Jenks, NCHRP/TRB staff.

AASHTO Special Committee on R&I



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Post your unfunded research needs on RPPM

Special Committee on Research and Innovation

AASHTO Liaison
Glenn Page, Associate Program Director, Project Delivery
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State DOT Research

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Peer Exchange Reports

Peer Exchange Reports Topics

Welcome to the R&I/RAC Website

This website is a resource for the American Association of State Highway and Transportation Officials (AASHTO) [Special Committee on Research and Innovation \(R&I\)](#) and its [Research Advisory Committee \(RAC\)](#). It acts as a reference tool for members and documents operational procedures, membership rosters, coming events, links to other sites, and current committee activities. The site serves as an orientation tool for new RAC and R&I members, providing background information and quickly showing new members how to become full participants in committee activities.


RAC Guide



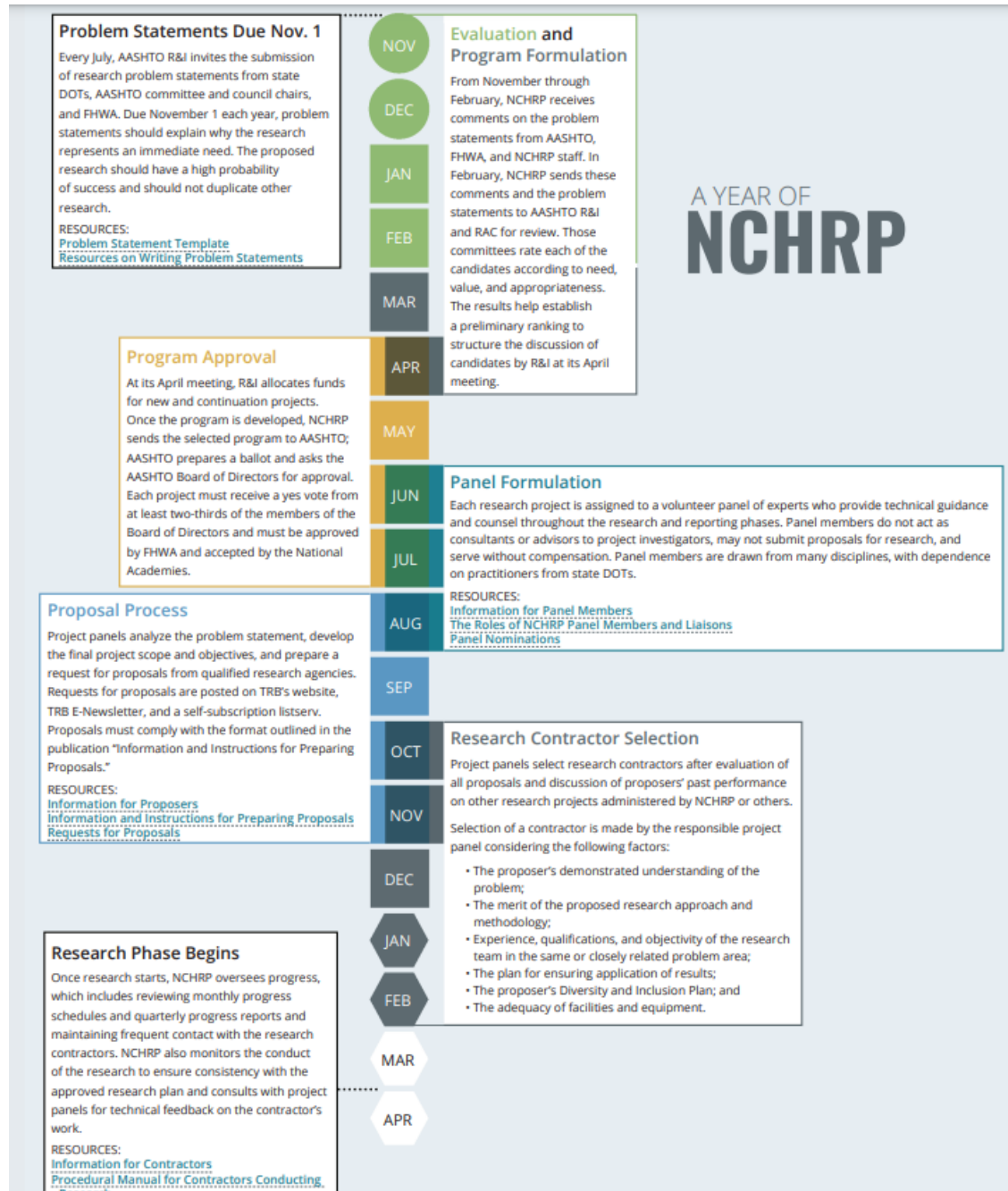
Pooled Fund

Combining resources to support transportation research studies.

Peer Exchanges



Yearly Cycle




SimSub Role / Activities

AASHTO Special Committee on Research and Innovation (R&I) and its Research Advisory Committee (RAC)

- January - Annual meeting (good starting point)
 - Identify research needs statements
 - Develop very rough drafts, including funding
 - Identify sponsors/submitters (state DOTs, FHWA)
- January-October
 - Refine research needs statements / funding estimate
 - Identify sponsors/submitters
 - Ensure submitted by Nov 1
- October-January
 - Monitor AASHTO R&I deliberations
 - Prepare new research need statements
- January - Annual meeting (2nd year)
 - Identify research needs statements
 - Develop very rough drafts
 - Identify sponsors (state DOTs, FHWA)

- SimSub cannot submit statements
- Nor can TRB committees
- Only states and FHWA
- You need to find state sponsors!!



November-April (spans the next TRB meeting)
Be prepared to answer questions (if asked)
April – AASHTO R&I Meeting
June-July
Selected projects passed to NCHRP
NCHRP seeks volunteers for project panels
October-November
Proposal submissions / contractor selection
Beyond November until project conclusion
Monitor contractor activity

SimSub Role (continued)

- Act as a *forum* for eliciting ideas, needs
- Act as a *conduit* to share those ideas between and among the sponsoring committees
- Form a *network* of members and friends of those committees that work for state DOTs
- Enlist *their support* in formulating and submitting research needs statements (*MORE* is *BETTER*)
- *Everyone* carry the message back to state DOTs about the value in and importance of simulation-based analyses
- Use *SimCap* as an additional way to reach state DOT supporters

Questions / Thanks

Agenda

- A. Welcome and Introductions – *Chris Melson*
- B. Summary of SimSub Annual Meeting – *Chris Melson, John Shaw*
- C. HCM User Feedback Process and Forum – *Bastian Schroeder, David Stanek*
- D. NOCoE Resources: Case Studies, Forum, Research Idea Submission – *Patrick Son, Adam Hopps*
- E. Research Needs Statements (RNS) Process and Timeline – *George List*
- F. Ways to Provide Liaison Updates – *Chris Melson, ALL*
- G. Update on TSSM Review Process – *Mohammed Hadi, Sanhita Lahiri*
- H. Wrap Up – *Chris Melson*

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