

Sign In Form Thursday Meeting

Attendance



Research Problem Needs Statements Discussion	Legal Implications of the HSM	Secretary and Communications Reports	TRB Staff Report & Section Update
Committee Leadership Announcements	Subcommittee Reports	Research Need Statements	Organizational Updates
Other News	Open Floor		

Research Problem Needs Statements Discussion

Status of Current Research Topics

TRB Committee on Safety Performance and Analysis

January 2024

Recent Activities

- Our Committee prioritized research topics and sent five draft research problem statements to the AASHTO Committee on Safety for their consideration. The AASHTO Committee also considered additional topics suggested by their members or others.
- Our five research topics were ranked as the five highest priorities by the AASHTO Committee
- The AASHTO Committee has submitted six research problem statements for consideration by the AASHTO R&I Committee at the upcoming meeting. Funding decisions for the NCHRP program are made by the AASHTO R&I Committee.

Research Problem Statements Prioritized by the AASHTO Committee on Safety

- #1 Crash Prediction Methods for Long-Term Work Zones
- #2 Safety Performance of Intersection and Ramp Terminal Traffic Control Types
- #3 Graphic Resource for Practitioners to Illustrate HSM Prediction Method Data Elements and Definitions
- #4 Development of More Reliable SPFs by Leveraging Available Crash Prediction Models
- #5 Development and Refinement of Motorcycle SPFs
- #6 Predictive Methodology for Urban Arterial Weaving Sections

Previous Research Topics Still Not Funded

- Development of Weather-Related SPFs and CMFs
- Development of Commercial Motor Vehicle SPFs and CMFs

New Research Topics

- Our Committee may submit new topics (or resubmit previous topics)
 to the AASHTO Committee on Safety by July 17 for their consideration
- New topics may be suggested in our discussions today
- Priorities among old and new topics will be set at the Committee's mid-year meeting in June

Questions?

Legal Implications of the HSM



TRB Safety Performance And Analysis Committee ACS20 - Business Meeting

2024 TRB Annual Meeting Safety
Performance and Analysis (ACS20)
- Thursday



January 11,2023

Secretary and Communications Reports

Approval of Meeting Minutes



OF THE NATIONAL ACADEMIES

PRIVILEGED INFORMATION - Minutes of all TRB Meetings are regarded as privileged and not for public release except by action of the Executive Committee.

COMMITTEE ON SAFETY PERFORMANCE AND ANALYSIS (ACS 20) 2023 TRB Midyear Meeting

MINUTES OF COMMITTEE MEETING
Prepared by Derek Troyer

Additional material to be posted: https://trbacs20.org/index.php/meetings/

Communications Report

TRB ACS20 Safety Performance and Analysis

A technical standing committee



Home About **Meetings** AASHTO Highway Safety Manual TRB Human Factors Guideline Tools Safe System

Meetings

2024 Annual Meeting

Committee meetings:

- Safety Performance and Analysis Committee: Wednesday, January 10
 1:30 PM- 5:30 PM ET, Agenda (PDF), details.
- Safety Performance and Analysis Committee: Thursday, January 11
 9:00 AM- 12:00 PM ET, Agenda (PDF), details.

Subcommittee meetings:

Synthesis of Safety Related Papers for TRB Annual Meetings

- 2024 PDF
- 2023 PDF
- 2022 PDF
- 2021 PDF
- 2020 PDF
- 2019 PDF
- 2018 PDF
- 2017 PDF
- 2016 PDF
- 2015 PDF
- 2014 PDF
- https://trbacs20.org/index.php/meetings
- 201 DDE

Email Communications

From: mytrb@mail.nasem.org <mytrb@mail.nasem.org>

Sent:

To:

Subject: TRB Safety Performance and Analysis



Derek Troyer, Secretary, Standing Committee on Safety Performance and Analysis (ACS20)

The opinions and ideas expressed or implied in this email are those of the signatory and not necessarily those of the Transportation Research Board or the National Academies of Sciences.

TRB Staff Report & Section Update

Committee Leadership Announcements



Presented to

Derek Troyer

In recognition for your years of dedicated service as Committee Secretary for Safety Data, Analysis, and Evaluation (ANB20), and Safety Performance and Analysis Committees (ACS20)

<u> Karen K. Dixon</u>

KAREN K. DIXON, CHAIR TRB STANDING COMMITTEE ON SAFFTY PERFORMANCE AND ANALYSIS. Bernardo B. Meiner
BERNARDO B. KLEINER
TRB STAFE REPRESENTATIVE

January 2024







Presented to

Ida Van Schalkwyk

In recognition for your years of dedicated service as Committee Communications Coordinator for Highway Safety Performance (ANB25), and Safety Performance and Analysis Committees (ACS20)

<u> Karen K. Dixon</u>

KAREN K. DIXON, CHAIR TRB STANDING COMMITTEE ON SAFFTY PERFORMANCE AND ANALYSIS. <u>Bernardo B. Kleiner</u>

BERNARDO B. KLEINER

TRB STAFE REPRESENTATIVE

January 2024



Presented to

Doug Harwood

In recognition for your years of dedicated service as Committee Research Coordinator for Highway Safety Performance (ANB25), and Safety Performance and Analysis Committees (ACS20)

Karen K. Dixon

Karen K. Dixon, Chair TRB Standing Committee on Safety Performance and Analysis Bernardo B. Kleiner

BERNARDO B. KLEINER

TRB STAFF REPRESENTATIVE

January 2024







Presented to

Darren Torbic

In recognition for continued effort to inform the committee of research project status

KARENK DIXON CHAIR

Karen K. Dixon, Chair TRB Standing Committee on Safety Performance and Analysis Bernardo B. Kleiner

BERNARDO B. KLEINER

TRB STAFF REPRESENTATIVE

January 2024







Presented to

Hiao Qin

In recognition for leading the technical paper review process for Safety Data, Analysis, and Evaluation (ANB20) and Safety Performance and Analysis Committees (ACS20)

<u> Karen K. Dixon</u>

KAREN K. DIXON, CHAIR TRB STANDING COMMITTEE ON SAFFTY PERFORMANCE AND ANALYSIS. Bernardo B. Meiner

Bernardo B. Kleiner

TRB Staff Representative

January 2024







Presented to

Peter Savolainen

In recognition for organizing and presiding over the Doctoral Student Research in Transportation Safety Podium Session

Karen K. Dixon

KAREN K. DIXON, CHAIR TRB STANDING COMMITTEE ON SAFFTY PERFORMANCE AND ANALYSIS. Bernardo B. Kleiner
BERNARDO B. KLEINER
TRB STAFF REPRESENTATIVE

January 2024







Presented to

Alfonso Montella

In recognition for your dedicated service coordinating the Synthesis of Safety Related Papers for TRB Annual Meetings

KAPENK DIXON CHAIR

KAREN K. DIXON, CHAIR
TRB STANDING COMMITTEE ON
SAFETY PERFORMANCE AND ANALYSIS

Bernardo B. Kleiner

BERNARDO B. KLEINER

TRB STAFF REPRESENTATIVE

January 2024



Presented to

John Witzel

In recognition for your dedicated service coordinating committee meeting activities

Karen K. Dixon

KAREN K. DIXON, CHAIR TRB STANDING COMMITTEE ON SAFFTY PERFORMANCE AND ANALYSIS. Bernardo B. Kleiner

BERNARDO B. KLEINER

TRB STAFF REPRESENTATIVE

January 2024



Presented to

Michael Dimaiuta

In recognition for your years of service as Co-chair of the Safety Performance and Analysis User Liaison Subcommittee

Maren M. Duxon

Karen K. Dixon, Chair

KAREN K. DIXON, CHAIR
TRB STANDING COMMITTEE ON
SAFETY PERFORMANCE AND ANALYSIS

Bernardo B. Stleiner

BERNARDO B. KLEINER

TRB STAFF REPRESENTATIVE

January 2024







Presented to

Geni Bahar

In recognition for your years of service as Co-chair of the Safety Performance and Analysis User Liaison Subcommittee

KARENK DIXON CHAIR

KAREN K. DIXON, CHAIR
TRB STANDING COMMITTEE ON
SAFETY PERFORMANCE AND ANALYSIS

Dernardo D. Jüleiner

BERNARDO B. KLEINER

TRB STAFF REPRESENTATIVE

January 2024





Subcommittee Reports

Safety Analytical Methods Subcommittee (ASC20(1))

Safety Performance and Analysis User Liaison Subcommittee (ASC20(2))

Surrogate Safety Measures Subcommittee (ACS20(3))

Pedestrian and Bicycle Safety Analysis Subcommittee (ACS20(4))

Research Need Statements

Paper Review Update

TRB 2024 ACS20 Paper Review Summary

Overview

- 278 papers submitted(!!!!)
 - 152 for presentation-only
 - 95 accepted for presentation (62.5%)
 - 57 rejected (37.5%)
 - 115 for presentation and publication
 - 55 accepted for presentation (43.7%)
 - 19 accepted for presentation and editorial board review (15.1%)
 - 41 rejected (41.3%)

TRB 2024 ACS20 Paper Review Summary (cont.) Thanks to this year's paper review coordinators!!!!

- Raul Avelar, Insurance Institute for Highway Safety
- Vikash Gayah, Pennsylvania State University
- Srinivas Geedipally, Texas A&M Transportation Institute
- Juan Medina, University of Utah
- Peter Savolainen, Michigan State University
- Michael Pawlovich, South Dakota State University
- Jonathan Wood, Iowa State University
- George Yannis, National Technical University of Athens

TRB 2024 ACS20 Paper Review Summary (cont.)

Thanks to this year's numerous volunteers who served as paper reviewers!

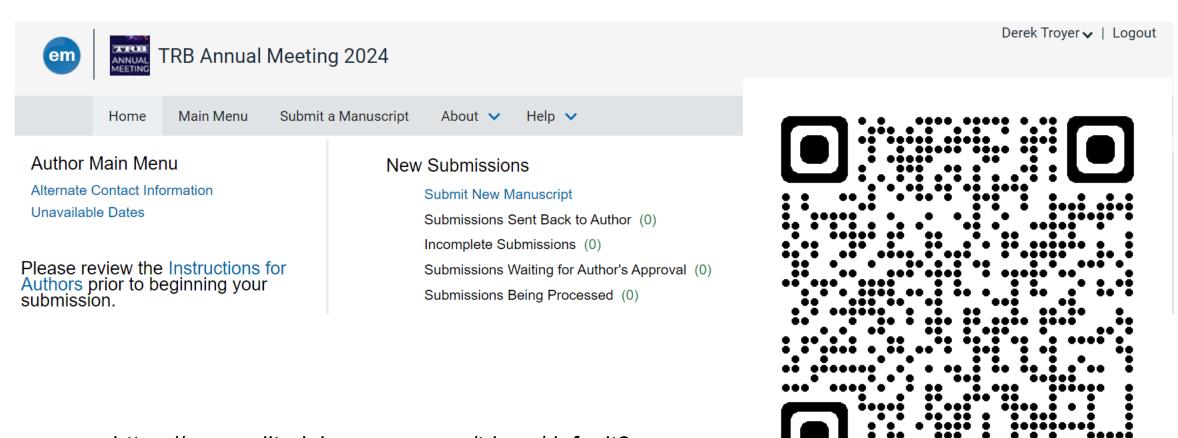
Special thanks to those who reviewed extra papers near the deadline!

TRB 2024 ACS20 Paper Review Summary (cont.)

General Comments and Concerns

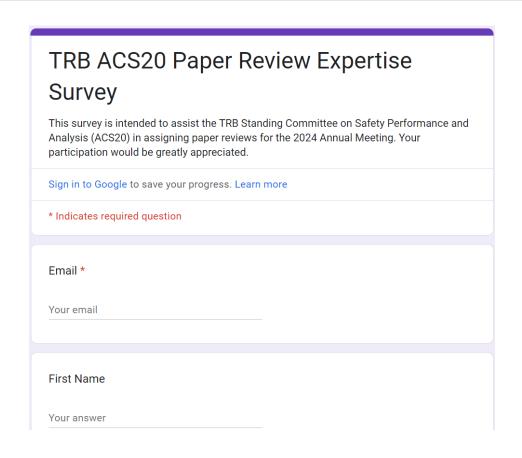
- Assignments generally balanced between committee members and friends in consideration of technical competency.
- Review quality varied considerably.
- Particular concerns included rejecting (and also accepting) papers with little commentary of justification.
- ACS20 will send a survey out to assist in updating inventory of reviewer background, availability, and expertise.
- Additional paper review coordinators and reviewers are welcome!

Editorial Manager



https://www.editorialmanager.com/trbam/default2.aspx

Paper Review Expertise Survey





https://docs.google.com/forms/d/e/1FAIpQLSeNpr18xF0Ftin1x4W9DJJEjEiSdO1uk6JWSyi7N9BdtFjqAQ/view form

Paper Award Process

Organizational Updates



FHWA Update

TRB ACS20 – Safety Performance and Analysis January 11th, 2024

Matt Hinshaw, P.E. FHWA Office of Safety





Topics

- HSM Implementation Transportation Pooled Fund Study Updates
- General FHWA DDSA updates



HSM Implementation Transportation Pooled Fund Study Updates



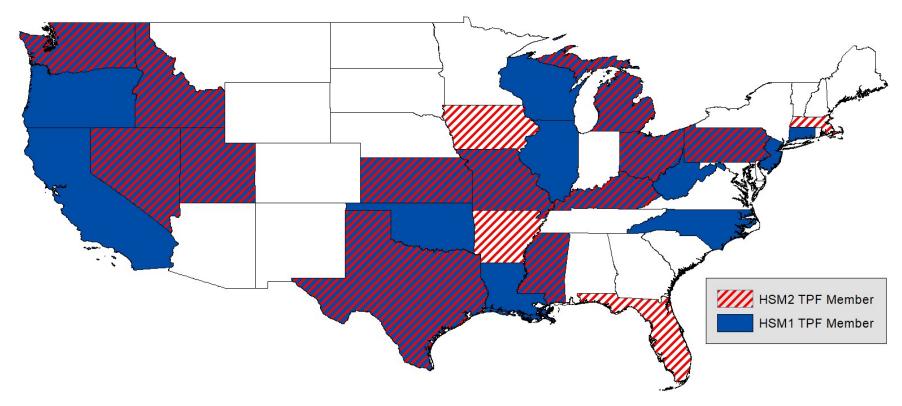
HSM2 Pooled Fund Study

Objectives

Accelerate implementation of HSM2 and related analytical tools to assess current and future safety performance of existing roadways and alternative designs, and help practitioners make more informed decisions, better targeted investments, and reduce fatalities and serious injuries on the nation's roadways. This includes activities before and after publication of HSM2.



HSM Pooled Funds Participating States



24 Member States between HSM1 and HSM2 pooled funds

Source: FHWA

Note: Alaska and Hawaii have not participated. Does not

reflect all pending commitments.

HSM Pooled Funds – Current Projects

Advancing Application of DDSA Project Objectives

- 1. Explore the combination of predictive methods with and without EB adjustment for alternatives analysis (Task 2)
- 2. Develop an implementation approach for NCHRP 17-62 (Task 3)
- 3. Develop a communication guide for explaining HSM safety analysis to non-safety professionals (Task 4)

Task 2: Explore Validity of Combining Predictive Methods

Task is Complete

- Technical Memo, "Explore the Validity of Combining Predictive Methods," is final deliverable. Available at HSM1 pooled fund website soon.
- Scott Himes, VHB, gave presentation to ACS20 on 1/10/24 on overview of the memo's findings.
- Provides potential information for HSM2 alternatives analysis guidance (new Ch. 13).

Task 3: Develop an Implementation Approach for NCHRP 17-62 Models (In Progress)

Outline of Task 3 Guide

- Review projects completed since the HSM first edition (not just NCHRP 17-62).
- Summarize methods used in HSM for crash type and severity as well as recommendations from completed research.

Task 3: Develop an Implementation Approach for NCHRP 17-62 Models (In Progress)

Outline of Task 3 Guide

- Lay-out key findings and develop recommendations on implementation approaches.
 - Describe practical reasons for interest in more specific crash type and severity models, pros/cons.
 - Comparison of methods for crash type/severity models
 - Identify Potential applications beyond HSM Part C
 - Provide project team recommendations on applications

Task 4: How-To Guide: Communicating Safety Analysis to Non-Safety Professionals (In Progress)

Communication Guide and Handout

- Designed to help technical staff communicate complex safety analysis concepts to non-technical audiences.
- Guide is in final review for FHWA publication. Expected early 2024 on FHWA website.
- Next steps:
 - Design companion handout
 - Webinar



Source: FHWA

HSM Pooled Funds – Upcoming Projects

- Peer Exchange for member states during HSM2 balloting later in 2024
- Update Part C Reference Guide (not Graphic Resource) member states working with FHWA Geometric Design Laboratory assistance
- Data Dictionary for HSM Terminology

HSM Pooled Funds – Project Ideas

- Continue to watch for remaining needs from HSM2 finalization
- Two main calls for projects per year
- Track interest in project ideas; periodically meet to develop project idea statements
- Current top-rated ideas:
 - Culture Shift: Planning for Working Further with Designers after GB8 is Published
 - Open-Source Tools and Processes
 - HSM Screening Tool that can be used to determine if the HSM can be used on a project-level
 - Incorporating the Safe System Approach into HSM
 - Evaluating Impact of "Adoption" of the HSM Among the States

General DDSA Updates



DDSA How-To Guides

Under Development – Incorporating DDSA into Interstate Access Requests (IARs): How-To Guide

Purpose:

- 1. Describes the role of Data-Driven Safety Analysis in IARs.
- 2. Presents different safety analysis methods/options and tools that are adaptable to a range of project contexts and characteristics.
- 3. Illustrates DDSA to support IARs through multiple case studies.

New Safe System Resources

Safe System Roadway Design Hierarchy

Safe System Alignment Frameworks

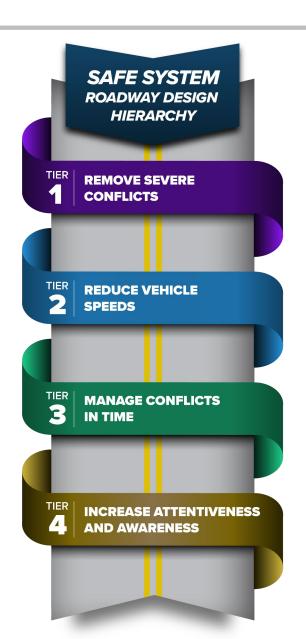
- Project-based
- Policy-based

Promotional materials

- Pilot application summaries
- Flyer: Overview of SS Alignment Tools
- Flyer: Guidance on when to use which SSA Tool
- Newletter Articles

Outreach Activities

- Webinar (February TBD)
- Workshop (available upon request)



Update to the Systemic Safety Project Selection Tool

- Nearing completion, final reviews and publication (expected spring 2024).
- Updated methodologies and best practices, case studies.
- Updates to systemic safety training.
- Risk assessment framework and risk factor matrix.



Source: FHWA

Local Road Safety Plan DIY Site



Updated in 2023:

- More videos
- LRSP Template with added SS4A components
- Example Plan list (now table)

More updates in future!

Source: FHWA

EDC7

Nighttime Visibility for Safety

- Initiative underway with states' baseline and goals set
- Innovation Website
- 2023 update to the <u>FHWA Lighting Handbook</u>







Contacts

Joseph Cheung FHWA Office of Safety (202) 366-6994 Joseph.Cheung@dot.gov

Joseph.Cheung@dot.gov

Victoria (Tori) Brinkly FHWA Resource Center (360) 833-3795 Victoria.Brinkly@dot.gov

George Merritt
FHWA Resource Center
(404) 895-0250
George.Merritt@dot.gov

CMF Clearinghouse

- Sarah Weissman Pascual is new manager of the CMF Clearinghouse.
- Updated CMF "Most Wanted" List!
 https://www.cmfclearinghouse.org/most wanted.php
- Feedback always welcome to improve the Clearinghouse.
- Submit Your CMFs to the National CMF Clearinghouse!
 Study submissions are welcome. Send a link to a published resource or include as an attachment. Submissions can include published research studies or State-specific CMFs that were developed as part of the Highway Safety Improvement Program. | Email Sarah Pascual

Caltrans usRAP Pilot Effort

In support of the Caltrans Road Safety Action Plan, Task 1.3:

- "Develop a statewide decision-making framework for proactively identifying, analyzing, and prioritizing roadway safety investment."
- Caltrans seeks to "Pilot a state-highway safety rating system based on the safety assets and geometric features modeled on the usRAP system."

Caltrans usRAP Pilot Effort

FHWA is providing technical assistance to support the pilot effort for Caltrans Districts 1 and 2, including:

- usRAP Data Collection Training.
- Data Integration and Collection. In progress.
- usRAP Implementation (Optional).

Turner-Fairbank Highway Research Center Updates

Evaluation of Low Cost Safety Improvement Pooled Fund Study (ELCSI-PFS) Phase XI, which was completed in Summer 2022, published several documents in 2023.

Bike lane

- Report: <u>Development of Crash Modification Factors for Bicycle Treatments at Intersections</u> | FHWA (dot.gov)
- TechBrief: <u>Development of Crash Modification Factors for Bicycle Treatments at Intersections</u> | FHWA (dot.gov)

Mini-roundabout

- Report: <u>Developing Crash Modification Factors for Mini-Roundabouts | FHWA (dot.gov)</u>
- TechBrief: <u>Developing Crash Modification Factors for Mini-Roundabouts | FHWA (dot.gov)</u>

WWD

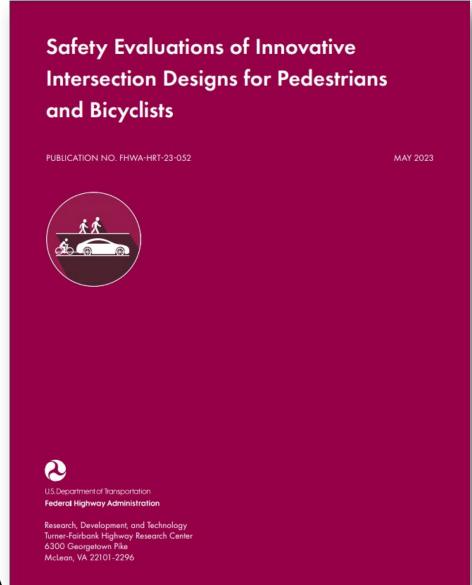
- Report: will be published soon
- TechBrief: <u>Development of Crash Modification Factors for Wrong-Way Driving Treatments</u> [<u>FHWA (dot.gov)</u>
- Compendium: will be published soon

TRB 2024

Turner-Fairbank Highway Research Center Updates

ELCSI-PFS Phase XII, which was completed in Spring 2023, published a report:

• FHWA-HRT-23-052: Safety Evaluations of Innovative Intersection Designs for Pedestrians and Bicyclists (dot.gov).



Source: FHWA

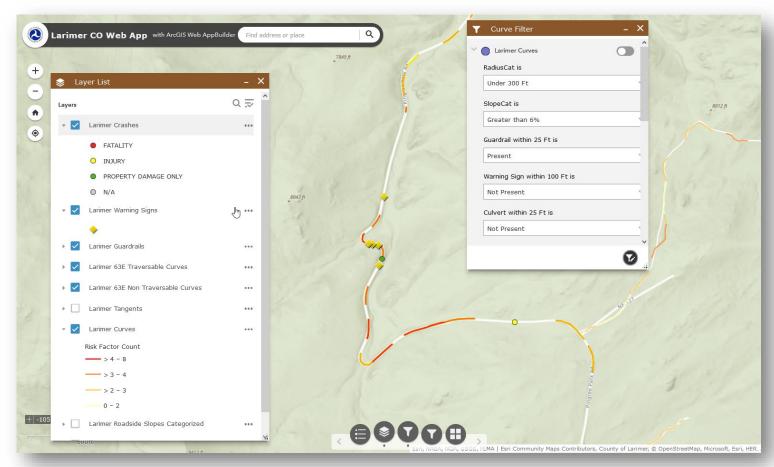
Federal Lands Highway – GIS and Systemic Safety

A Practical Framework for Safety Analysis in GIS – Methods for Assessing Safety in Limited Data Environments

Research project and case studies for agencies with limited existing data

Use open-source data and GIS methods to derive risk factors

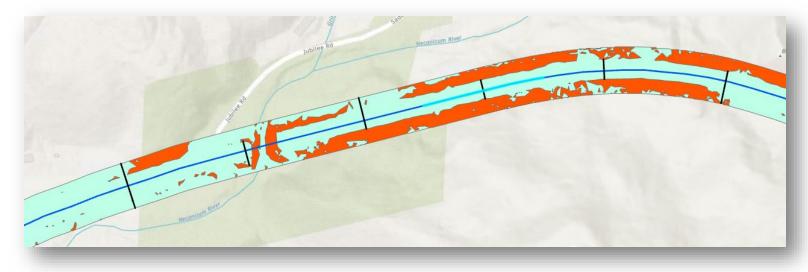
Report coming soon here.



Federal Lands Highway – GIS and Systemic Safety

A Practical Framework for Safety Analysis in GIS – Methods for Assessing Safety in Limited Data Environments

- Several case studies with counties, MPOs, Tribes, FLMAs
- Potential for assisting rural agencies and SS4A
- Presentations at GIS-T, TRB Low Volume Roads conference, ITE Annual Meeting, Rural Road Safety Summit



Source: FHWA

Technical Assistance

FHWA may have opportunities to provide technical assistance for DDSA activities. Examples:

- Determining goodness of fit for a safety performance function,
- Systemic safety analysis including data summarization and crash tree development to identify focus crash type, facility type, and risk factors,
- Economic analysis of various countermeasures,
- Contacting agencies to ascertain information on their level of DDSA implementation,
- LRSP plan writing and editing support.

For any state, local, regional, Tribal partner

On the Horizon for DDSA?

- Emerging data sources, applications of big data and data science.
- Potential for open-source tools and processes.
- Risk factor, safety data clearinghouses?
- Promotion of systemic applications for efficient deployment of Proven Safety Countermeasures.
- Further integration of safety in the project development process.
- Incorporating kinetic energy transfer and speed into crash prediction modeling and other DDSA approaches.
- Preparing for GB8.

FHWA DDSA Contacts

Matt Hinshaw, P.E.

Data-Driven Safety Analysis Program Manager

FHWA Office of Safety

360-619-7677

Matthew.Hinshaw@dot.gov

John McFadden, PhD, PE, PTOE

Senior Safety Engineer

FHWA Resource Center

410-459-0165

John.McFadden@dot.gov

Derek Troyer, P.E.

Senior Safety Engineer

FHWA Resource Center

202-510-7996

Derek.Troyer@dot.gov

Clayton Chen, Ph.D., P.E.

Roadway Team Leader

FHWA Turner-Fairbank

202-493-3054

clayton.chen@dot.gov

Carol Tan, Ph.D.

Safety Data Analysis Team Leader

FHWA Turner-Fairbank

202-493-3315

carol.tan@dot.gov



AASHTO





AASHTO Safety Summit and Safety Action Plan

TRB Annual Meeting: ACS20 Business Meeting January 11, 2024





AASHTO Safety Summit

► Purpose:

- ▶ Identify resources and notable practices currently in use, and support further dissemination among practitioners
- ▶ Identify tools, methods, guidelines, and other resources that need to be developed
- ▶ Discussion Priorities:
 - ► Managing speed
 - ► Ensuring equitable safety for all road users
 - ► Including data-driven safety analysis into decisions
 - ► Supporting increased and accelerated safety improvements
 - ► Enhancing guidance to support flexibility and innovation
 - ▶ Developing resources to support leadership
 - Improving employee safety, mental health and wellness



AASHTO Safety Resolution

- ► Renew commitment to zero fatalities and serious injuries
- ▶ Promote a culture of safety
- ► Support applying safe system approach
- ► Develop safety action plan
- ► Harness the "whole of AASHTO" approach

AASHTO Safety Action Plan

► Purpose:

- ➤ Promote sharing notable practices, tools, policies, and other resources among states.
- ➤ Promote a coordinated and consistent data-driven decision-making approach to road safety through the project lifecycle.
- ➤ Prioritize resources that need to be developed by AASHTO or others to assist state DOTs in institutionalizing safety.
- ► Identify actions for AASHTO councils and committees to undertake individually or jointly to implement and enhance the plan.
- ► Establish new partnerships to further promote a culture of safety.





Action Plan: Strategic Workstreams

- ► Project Lifecycle and Programmatic Areas
- ▶ Organization
- **Partners**
- ► Policy Positions



Safety Action Plan – Next Steps

- ► AASHTO Committees:
 - ▶ Review, identify resource priorities, include in committee work plans
- ► Committee on Safety:
 - ► Manage implementation of Safety Action Plan
 - ► Host webinars, develop case studies, etc. to disseminate resources identified at Summit



Any Questions?

AASHTO Committee on Safety Meeting/Conference ~September-October 2024

Other News

FHWA Use of Operations Strategies and Data for Proactive Safety Intervention

- Identify a range of operations data and strategies that can support the use of proactive safety countermeasures. Advance the use of short-term safety intervention based on real-time and forecasted conditions.
- Planning an online roundtable discussion in mid-late February
 - Obtain input on the identified research needs topics
 - Narrow the list from 13 to 3
- Please let us know if you are interested in reviewing potential RNS and/or if you are interested in participating in the virtual roundtable.
 - Jim Hunt (jim.hunt@dot.gov, (202) 680-2679) FHWA
 - Filmon Habtemichael (habtemichael@battelle.org, (757) 652-1320) Battelle
 - Monty Abbas (<u>abbas@vt.edu</u>, (540) 231-9002 Virginia Tech
 - Kim Kolody (Kim.Kolody@jacobs.com, (312) 612-8957 Jacobs



Safer By Design – TxDOT's Safety Scoring Tools

Jason Pike, Deputy Director of Design Division; Khalid Jamil, Highway Safety & Operations Supervisor Texas Department of Transportation, Design Division

Background Crash Statistics

- November 7, 2000 was the last deathless day on Texas roadways
- Traffic Crashes are one of the leading causes of death in Texas
- Total number of crashes, fatalities, and injuries are generally on the rise





Standard Practice

- · Design to meet standards (Nominal Safety)
- Focused on Number of Crashes
- · Safety emphasized only on selected projects

· Reactive approach



Safety Initiatives

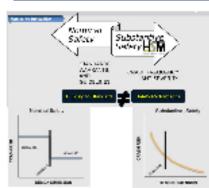
- Road to Zero goals adopted by Texas Transportation Commission in 2019. Goals to reduce number of deaths:
 - By Half by 2035
 - Zero by 2050
- TxDOT Council on System Safety initiated to develop engineering solutions

Goals & Objectives

- Assist safety-driven decision during project development and design process
- Understand safety effects of design elements
- · Optimize safety before the project is constructed
- Simple and straightforward process

Approach and Methodology

- Nominal → Substantive Safety
- Highway Safety Manual (HSM) principles
- Data-driven safety analysis (DDSA) using both Crash Modification Factors (CMF) and Safety Performance Functions (SPF)
- Systemic, proactive approach
- EVERY PROJECT IS A SAFETY PROJECT.



- Roadway Element Categories:
 - Geometric, Traffic Control, Roadside, Bicycle, Pedestrian
- Weighted Category Scores/ Project Scores



Tool Structure

- · Spreadsheet-based tool
 - > Soon to be web-based!



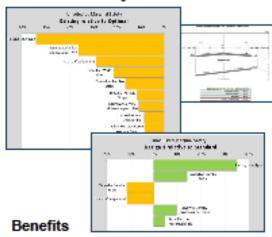
- User inputs existing and proposed design elements
 - Geometric (# of lanes, Lane & Shoulder Width, Hortzontal & Vertical Alignment)
 - Traffic Control (Signing, signal, etc.)
 - Roadside (Clear zone, side slopes, barrier)
 - · Ped. & Bike (facility, crossing type, etc.)
- Standard & Optimal values provided
- Immediate feedback
- Visual tools & representations



Tools Currently Available:

- Rural 2-lane segment
- Rural multi-lane segment
- Urban Intersection
- Urban segment (January 2024)

"Vortex of Safety"



- Consolidate comprehensive HSM methodology and procedures into an easy-to-use tool
- Designers understand safety impacts of design elements & can include in project scope
- Quickly evaluate design alternatives for comparison, and receive immediate feedback at the click of a button.

Implementation

- Project Eligibility Matrix
- Tool required for all applicable projects
- Monthly safety scoring report submitted to TxDOT Administration & Transportation Commission



Conclusion

The dozens of safety performance functions and crash modification factors that would take a designer weeks to research, compile, and interpret are available to users now with just the click of a button.

Upcoming Events

2024 Midyear Meeting

- 13th National Conference on Access Management
- Boston, MA
- June 24-26, Sheraton Boston Hotel

Upcoming Events

- 2nd International Roadside Safety Conference,
 - June 23-26, 2024 Orlando, FL

- 2024 Road Safety & Simulation Conference,
 - October 28-31, 2024 Lexington, KY

Open Floor