

SAFETY PERFORMANCE DECISION MAKING: ADVANCING RESEARCH THROUGH IMPLEMENTATION

Location: Workshop 1027 Zoom Room

Date: Friday January 22

Time: 10:00 am – 1:00 pm ET

Workshop Description

This workshop will build on the 2019 TRB Annual Meeting podium session, Using the Highway Safety Manual in the Real World, and the 2020 Use of Safety Performance in Day-to-Day Decision-Making workshop. The workshop will advance the science of safety analysis, decision making and putting research into practice. A key objective is to identify gaps that may lead to future research, resource development or training needs. This workshop will present interactive case studies, discuss unique aspects of safety performance calculations, outcomes and use in day-to-day transportation decision making and offer suggestions for addressing needs and communicating results to obtain outcomes.

Key objectives:


- Share practical applications while advancing research
- Focus on issues and items that do not fit perfectly into HSM1 to generate discussion and advance the science
- Active participation and engagement
- Provide platform for the attendees to tell us what they have been struggling with
- Identified gaps may lead to future research, resource development or training needs

Sponsored by:

- ACS20: Safety Performance and Analysis (formerly ANB25 Highway Safety Performance and ANB20 Safety Data, Analysis and Evaluation))
- AKD10: Performance Effects of Geometric Design Committee (former Geometric Design and Operational Effects of Geometrics Committees)

Agenda

- 10:00 – 10:05 am** **Welcome, Opening Remarks and Introductions**
Bonnie Polin, Massachusetts Department of Transportation
- 10:05 – 10:15 am** **Setting the Stage**
Quantitative Safety Performance Analysis Process
Beth Wemple, HDR
Priscilla Tobias, Arora
- 10:15 – 10:40 pm** **Safety Performance & Decision-Making Process and Approach Best Practices**
Jim Bonneson, Kittleson and Associates
- 10:40 – 10:50 am** **Safety Performance and Decision Making for Suburban Corridor**
Robert Miles, Utah Department of Transportation
- 10:50 – 11:10 am** **Breakout Activity: Suburban Corridor Safety Performance**
- Case Study Overview – Existing Conditions and Safety Concerns (5 minutes)
John-Michael Walker, Alabama Department of Transportation
- Participants will break into groups focusing on a corridor analysis case study to discuss analysis approaches, process, communication of results and additional research needs
- 15 minutes to discuss questions prior to sharing conclusions and recommendations. Facilitators:
- Darren Torbic, TTI (Pedestrian issues)*
 - Elizabeth Hilton, FHWA (Pedestrian issues)*
 - Linda Guin, FHWA-AL (Pedestrian issues)*
 - Mouyid Islam, University of South Florida (Facility Type issues)*
 - Kim Kolody, Jacobs (Facility Type issues)*
 - Tariq Shihadah, Jacobs (Facility Type issues)*
 - Mahdi Rajabi (Access issues)*
 - Priscilla Tobias, Arora (Access issues)*
 - Beth Wemple, HDR (Access issues)*
 - John Nitzel, Jacobs*
 - Dave Petrucci, FHWA*
 - Jerry Roche, FHWA*
- 11:10 – 11:25 am** **Facilitated Report Out (15 minutes)**
Jacob Farnsworth, Kimley-Horn
- 11:25 – 11:35 pm** **Break (10 minutes)**

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- 11:35 – 12:35 pm** **Suburban Corridor Safety Performance Process and Approach**
Case Study: West South Blvd, Montgomery, Alabama (30 minutes)
Alternatives/Countermeasures Considered & Design Selected
John-Michael Walker, Alabama Department of Transportation
Safety Analysis using IHSDM/HSM Part C
Mike Dimaiuta, Genex
Pedestrian and Bicycle Safety Performance Functions for the Highway Safety Manual, NCHRP 17-84 (20 minutes)
Darren Torbic, TTI
FHWA Safety Analysis Resources (10 minutes)
Jerry Roche, FHWA
- 12:35 – 12:55 pm** **Summary and Key Takeaways**
Understanding and Communicating Reliability of Crash Prediction Models: NCHRP 17-78 Results (5 minutes)
Jim Bonneson, Kittleson and Associates
AASHTO Perspective (15 minutes)
Stephen Read, Virginia Department of Transportation
- 12:55 – 1:00 pm** **Closing Comments and Call to Action, Adjourn**