Highway Safety Manual
First Edition Implementation
Second Edition Development

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Overview

• Recent efforts for implementation of the first edition

• Development of 2\textsuperscript{nd} edition
  – NCHRP research
  – AASHTO role
HSM 1st Edition

• Major shift in how safety was considered in the management of the transportation system.
  – Planning, design, operations, evaluation

• AASHTO Goal: Institutionalize the HSM and its associated analytical tools to make data-driven decisions, advance the science of safety, and to ultimately reduce fatalities and serious injuries.
HSM Collaboration
National Level Implementation Efforts

• Collaboration between AASHTO, TRB, and FHWA to advance implementation of the HSM
• Continue to identify gaps and needs related to HSM and safety analysis
• Produced guidebooks, analysis tools and procedures, etc
• Identify, prioritize and fund research in an ongoing basis to fill gaps
Lead State Implementation Project

- **HSM User Guide**
  - Companion document to help safety analyst being using HSM
- **Peer exchange workshops**
  - Implementation plans, statewide policies
  - Champions and organizational support
- **Technical briefings**
- **Webinars**
HSM Implementation Pooled Fund

- Supports accelerated HSM implementation
- Develops tools to support decisions on customizing and using HSM methods
- Provides a forum for peer exchange

Pooled fund study TPF-5(255)
http://www.pooledfund.org/Details/Study/484
HSM State Implementation

- HSM training
- SPF development
- Calibrated HSM SPFs
- Network screening tools
- CMFs
- Data improvements
- User guides
- Policies
Safety in the Transportation Management Process

- Network Screening
  - Ranking
  - Prioritization
  - Countermeasure Selection, B/C
- Evaluating System Performance
  - Evaluating Project & Countermeasures
- Evaluation & Performance Measurement
- Design & Construction
- Operations & Maintenance
- Scoping and Phase I
- Compare Alternatives, Safety Impact vs. Other Impacts (Environment, etc):
  - Site Analysis and Diagnosis
  - Countermeasure Selection
  - Economic Analysis
- Site Analysis & Diagnosis
  - Countermeasure Selection
  - Economic Analysis

Driving Zero Fatalities to a Reality
Partnering for Illinois
HSM 2nd Edition

• Continuation of the TRB-FHWA-AASHTO relationship
• Continuation of the AASHTO Safety Management-Design-Traffic Engineering relationship
AASHTO HSM2 Steering Group

• Members from Safety Management, Design, Traffic Engineering, and Roadside Safety
  – Outreach to Subcommittees
• Coordination with TRB committee, FHWA and NCHRP panel
  – Joint review of 1st Edition
  – Joint review of materials developed for 2nd Edition
  – Provide input to NCHRP panel
NCHRP 17-71 HSM Production

- Identify and correct errors and inconsistencies
- Incorporate recent research and ongoing research to address gaps
- User survey
- Several drafts & review by NCHRP 17-71 panel, AASHTO HSM Steering Group, and TRB ANB25
- Panel decides on final content through formal NCHRP contracting process
- Consideration of an electronic version of HSM2
- Estimated Completion: 2019
- AASHTO will ballot and publish as an AASHTO document
Practitioner’s Consideration in HSM2

- Significant effort to expand HSM implementation
- More complex research and analysis methods
- Incorporating new research into existing HSM 1st Edition material Does not create inconsistencies or conflicts
  - How will the material be presented
  - Is easily understood and used by users/practitioners
  - Training
Summary

• Publication in 2019
• Continued outreach to AASHTO community to provide updates
• State DOT reviewers are welcome!
Questions?
Additional Information

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