

**HSM Implementation Pooled Fund Study
TPF-5(255)**

<https://www.pooledfund.org/Details/Study/484>

**Quarterly Report
April – June 2023**

Participating Agencies: CA, CT, ID, IL, KS, KY, LA, MI, MO, MS, NC, NJ, NV, OH, OK, OR, PA, TX, UT, WA, WI and WV

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|---|--------------|
| Total Funds Committed: | \$1,595,000 |
| Total Funds Transferred to FHWA: | \$1,508,558 |
| Total Funds Obligated: | \$ 1,197,696 |
| Transferred Unobligated Funds: | \$ 310,862 |

Activities Accomplished During Reporting Period (April 1 – June 30, 2023):

- A focus group meeting with several pooled fund members was held on May 1st to discuss preliminary ideas and topics for an in-person peer exchange. This peer exchange will be dependent on the outcome from the full pooled fund states' votes.
- A general pooled fund meeting was held May 8th, providing an update and continued data requests for the Advancing Applications of DDSA project (more details below). The PFS discussed new potential project ideas, including the in-person peer exchange idea. The meeting provided updates on HSM2 development and announcements for other FHWA products, webinars and training of interest to HSM users. Following this meeting, a poll was sent out to collect votes from pooled fund members on whether to proceed with a peer exchange in 2024.
- Administrative work continued in order to transition the new HSM pooled fund solicitation (TPF-5(516)) to active status. The [FHWA Led Approval of SPR Waiver Memo](#) was finalized and added to the new pooled fund's [webpage](#). Many states from the current pooled fund have added their commitments to this new pooled fund.
- Advancing Applications of DDSA
 - The contractor (VHB) continued work on all three primary tasks – 2) use of multiple analysis methods in alternatives analysis, 3) implementation approaches for NCHRP 17-62 (Improved Prediction Models for Crash Types and Severities), and 4) communications guide for explaining safety analysis to non-safety professionals.
 - The contractor presented updates on Task 3 with expanded details and a request from the pooled fund members to gather more information on models involving specific crash types and severities. In order to add value to the state of the practice, the contractor has recommended a new approach with this task to complement other NCHRP projects and HSM2

development. See below for the new approach and questions to pooled fund members.

Recommendation for Task 3 Guide

- Review projects completed since the HSM first edition
- Summarize methods used in HSM for crash type and severity as well as recommendations from completed research
- Lay-out key findings and develop recommendations on implementation approaches
 - Describe practical reasons for interest in more specific crash type and severity models
 - Include potential advantages and challenges
 - Comparison of methods for crash type/severity models
 - Identify Potential applications beyond HSM Part C
 - Provide project team recommendations on applications
- Questions to HSM Pooled Fund Study States
 - Have you tried implementing any of these products?
 - Do you have examples of success or difficulty?
 - Have you developed crash type/severity SPFs?
 - Are there any projects with crash type/severity implications you think we should include beyond the following?
 - NCHRP 17-54: Consideration of Roadside Features in the HSM
 - NCHRP 17-58: Prediction Models for Six-Lane and One-Way Arterials
 - NCHRP 17-62: Improved Prediction Models for Crash Types and Severities
 - NCHRP 17-68: Intersection Crash Predictions for the HSM
 - NCHRP 17-70: Development of Roundabout Crash Prediction Models
 - NCHRP 17-73: Systemic Pedestrian Safety Analysis
 - NCRHP 17-77: Guide for Quantitative Approaches to Systemic Safety Analysis
 - NCHRP 17-81: Proposed Macro-Level Safety Planning Analysis Chapter
 - NCHRP 17-84: Pedestrian and Bicycle SPFs for the HSM
 - NCHRP 17-85: Development and Application of Crash Severity Models for HSM
 - NCHRP 17-92: Developing SPFs for Rural Two-Lane Incorporating Speed
 - NCHRP 17-93: Updating SPFs for Data Driven Safety Analysis

Activities Planned for Next Quarter (June 1 – August 31, 2023):

- A quarterly meeting is planned for August 17th, 2023.

- Work will continue on the three main tasks on Advancing Applications of DDSA project.
 - FHWA has scheduled a meeting to discuss critical comments on Task 2 of the Advancing Applications of DDSA project on August 2nd, 2023. Several states that reviewed the Task 2 memo will provide perspective and guidance for the potential revisions.
 - Member states should provide feedback on the questions on Task 3 (above).
 - The contractor is finalizing case study examples in the Task 4 communications guide, addressing final comments and finalizing graphics that will be shown in the guide. FHWA plans to proceed to final review and publication as soon as practicable.
- FHWA hopes to continue to add funding commitments for the HSM2 Implementation Pooled Fund. To date during this reporting period, 15 states have committed to the study, totaling \$1.088M.