

WisTMP 2.0 Recent Data Improvements to the Wisconsin Transportation Management Plan

Chris Mills

Senior System Analyst, UW-Madison TOPS Laboratory, cmills4@wisc.edu

Andrew Heidtke

Statewide Work Zone Design Engineer, Wisconsin Department of Transportation Bureau of Traffic Operations, Andrew.Heidtke@dot.wi.gov

Steven Parker

IT Program Manager, UW-Madison TOPS Laboratory, sparker@engr.wisc.edu

The Wisconsin Transportation Management Plan (WisTMP) System was developed by the Wisconsin Department of Transportation (WisDOT) Bureau of Traffic Operations in partnership with the University of Wisconsin-Madison Traffic Operations and Safety (TOPS) Laboratory to automate the TMP preparation and approval workflow in response to requirements of the FHWA Final Rule on Work Zone Safety and Mobility. According to the Rule, “a TMP lays out a set of coordinated strategies and describes how these strategies will be used to manage the work zone impacts of a project. The scope, content, and level of detail of a TMP may vary based on the agency’s work zone policy and the anticipated work zone impacts of the project.” Simply put, a TMP contains mitigation strategies to maintain safety, and minimize impacts such as delay, in and around work zones. The initial version of the WisTMP was launched in July 2014 with capabilities for TMP document preparation, routing and approval, and online access to a searchable archive repository of current and past TMPs. Since that time, over 1,700 electronic TMPs have been entered into the system, over 1,300 of which have been approved to 60% or 90% project levels. This presentation describes a recent “2.0” update to the WisTMP system that went live in March 2019. The WisTMP 2.0 introduces a variety of changes in terms of data elements that are collected and managed within the WisTMP system, with a particular emphasis on improvements to structured data to enable future work zone decision support capabilities. The 2019 Mid-Continental Symposium presentation will provide an overview of the new WisTMP 2.0 system, including an overview of the Final Rule requirements, and focusing on new features in the system that address workflow improvements and broader goals for work zone safety and mobility planning decision support.

Keywords: mobility, safety, TMP, work zone, DSS