

Developing Consistency in ITS Safety Solutions - Intersection Conflict Warning Systems Phase 2

Primary Author: Jon Jackels, Minnesota DOT

Secondary Author(s): Ginny Crowson, Athey Creek Consultants

Crashes that occur at unsignalized intersections account for many fatal and serious crashes in the United States. Many state Strategic Highway Safety Plans call for improved design and operation of unsignalized intersections. In addition to intersection lighting, signing and geometric improvements, organizations have turned to Intelligent Transportation Systems as another tool for improving safety. Specifically, a variety of dynamic intersection conflict warning systems have been developed and tested with no specific guidance in regard to design or evaluation and this has resulted in a fairly broad range of approaches. Standardized design and application of intersection conflict warning systems would ensure uniform messages, maximize safety effectiveness and enable industry to further develop products. This presentation will describe how the ENTERPRISE Transportation Pooled Fund program brought together organizations that have deployed intersection conflict warning systems to exchange information on their experiences. ENTERPRISE has published this information, "Design and Evaluation Guidance for Intersection Conflict Warning Systems." The guidance offers technical insight and recommended practice for designing and evaluating these systems. It is expected to evolve as more systems are deployed and further evaluation is conducted. The presentation will also share information about ENTERPRISE efforts to further support the standardization of intersection conflict warning systems by coordinating among the various national standards and association groups, and by developing a concept of operations and system requirements for the four types of systems identified in the Design and Evaluation Guidance for Intersection Conflict Warning Systems.