

Developing Consistency in ITS Safety Solutions – Intersection Warning Systems

ENTERPRISE PROJECT OVERVIEW
JUNE 27, 2011



ENTERPRISE

- FHWA Pooled Fund Study since 1991
- 16 members (including Ontario and Dutch Ministry of Transport)
- Forum for collaborative ITS research, development, and deployment ventures
- Facilitates the sharing of technological and institutional experiences gained from individual ITS projects from its members



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- Approve a yearly Work Plan
- 50 projects completed
- Developing Consistency in ITS Safety Solutions - Intersection Warning Systems was approved as a project in the 2010 Work Plan
- For more information, visit www.enterprise.prog.org



ITS Intersection Warning Systems

- Mainline Warning Systems
 - Vehicle Crossing / Entering Mainline
 - Speed Warning
- Cross-street Warning Systems
 - Mainline Vehicle Approaching Cross Street
 - Cross-street Stop Sign Warning Systems
 - Cross-street Gap Assistance Systems

Mainline - Vehicle Crossing/Entering Mainline



Mainline - Speed Warning Systems



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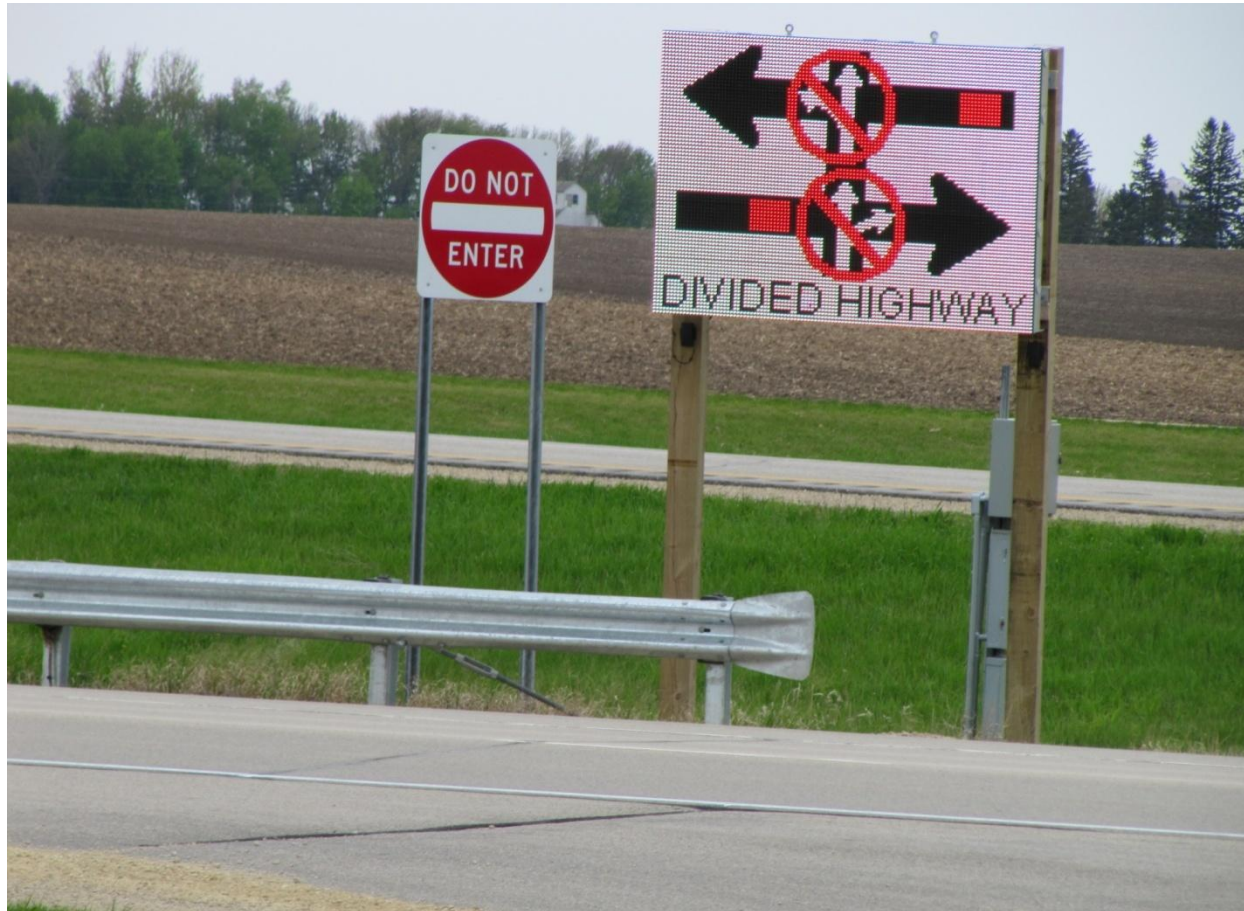
Cross-street - Vehicle Approaching Cross Street



Cross-street - Stop Sign Warning



Cross-street Gap Assistance Systems



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States with ICW Systems

- Iowa
- Florida
- Louisiana
- Maryland
- Michigan
- Minnesota
- Missouri
- Maine
- North Carolina
- Ohio
- Pennsylvania
- South Carolina
- Virginia
- Washington
- Wisconsin

Project Stakeholders

- ENTERPRISE Pooled Fund Members
- States with ICW Systems
- NCUTCD – Committee on Warning and Guide Signs
- AASHTO – Sub-Committee on Traffic Engineering
- National Association of County Engineers
- FHWA



Project Purpose

Bring together organizations that have developed and deployed intersection warning systems to develop a consistent approach for accelerated, uniform deployment and further evaluation of intersection warning systems, and to recommend preliminary standards for MUTCD consideration.

A webinar and two workshops are proposed to accomplish these tasks.



Webinar #1

- June 23, 12:00-2:30 (CST)
- Share knowledge and educate each other on systems deployed
 - Minnesota, Missouri and North Carolina will present information on their systems
 - One-pagers and reports on other systems
- Identify challenges with future deployments
 - Will begin to identify content needed for preliminary standard and further evaluation



Workshop #1

- July 28-29, Minnesota
- Discuss content of preliminary standards
 - Sign size, message content, placement, tort liability, C/B, operating costs, COTS availability , etc.
- Develop a roadmap for reaching standardization
 - Establish a process to facilitate inclusion of the systems identified into MUTCD
 - Identify gaps in information needed to develop complete standards (i.e., further evaluation of systems)

Workshop #2

- September 2011
- Review the preliminary standards proposed for interim approval
- Develop an evaluation framework that may be used in future deployments for experimentation
 - Establish measures of effectiveness and data needs for each system type to facilitate comparison of systems
- Discuss plans for future experimentation and coordination

Anticipated Results

- List and awareness of systems deployed
- Preliminary standards to support accelerated and more consistent deployment for experimentation
- Evaluation framework for further experimentation
- Roadmap to reach complete standards in the MUTCD

Questions?

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