

## About

Established in 1991, the ENTERPRISE Program is a forum for collaborative Intelligent Transportation Systems (ITS) research, development, and deployment ventures reflecting the interests of governmental entities and industrial groups. This forum also facilitates the sharing of technological and institutional experiences gained from individual ITS projects conceived and initiated by each participating entity. The program uses the FHWA Transportation Pooled Fund Program as a mechanism to support jointly-sponsored ITS projects of mutual interest to solve transportation problems.

## Membership

ENTERPRISE membership is open to federal, state, local agencies and other organizations. ENTERPRISE members include transportation agencies from across the U.S., as well as Canada.

- Georgia DOT
- Illinois DOT
- Iowa DOT
- Kansas DOT
- Michigan DOT
- Minnesota DOT
- Oklahoma DOT
- Ontario Ministry of Transportation
- Pennsylvania DOT
- Texas DOT
- FHWA
- Transport Canada

If your agency is interested in joining the ENTERPRISE Pooled Fund Study, please contact Luke Biernbaum at [BiernbaumL@michigan.gov](mailto:BiernbaumL@michigan.gov).

## ENTERPRISE Current Efforts

### *Real-Time Integration of Arrow Board messages into Traveler Information Systems*

ENTERPRISE in 2017 will finish 'model' systems engineering documents that agencies can use when implementing solutions to integrate notifications from arrow board devices into traveler information dissemination systems. It is anticipated that a second phase to the project will be conducted to work with ENTERPRISE agencies to evaluate existing deployments or procure a system and conduct a demonstration with an evaluation.



### *Demonstrate and Evaluate Communications to Support Rural ITS*

ENTERPRISE is currently working on a project to be completed in 2017 that will be completed in the following two distinct efforts.

- Evaluate commercially available products for transferring full motion video over cellular utilizing a temporary test deployment coordinated by the Iowa DOT, to evaluate these products in a real-world setting.
- Explore potential solutions for checking the operability status of ITS devices from a remote location, by conducting research, survey, and/or interviews to document DOT practices and to investigate products used in the utilities industry.

# 2016 ENTERPRISE Project Highlights

Final Reports available at: [http://enterprise.prog.org/projects\\_completed.html](http://enterprise.prog.org/projects_completed.html)

## ITS at International Borders

ITS technologies and systems used at borders often serve a critical purpose in assisting agencies with traffic management and traveler information. This project documented issues, challenges, practices, coordination approaches, and technologies for managing traffic at highway border crossings.

## Integrating ITS to Enable TSMO in Planning and Operations

This project identified resources available to support the consideration of TSMO operations objectives and strategies. With input from the USDOT Planning for Operations Program a decision support tool was also developed for one TSMO area – Traveler Information. The tool was based on Advancing Metropolitan Planning for Operations: The Building Blocks of a Model Transportation Plan Incorporating Operations – A Desk Reference.

## Countermeasures for Wrong Way Driving on Freeways

The goal of this project was to create a repository for wrong-way countermeasure deployments to help ENTERPRISE agencies increase their understanding of countermeasure types, evaluation efforts and results as available, agency coordination efforts, feedback on the deployments from local motorists, and lessons learned.

## Policies, Laws, and Agreements for the Use of Fiber Communications

The objective of this ENTERPRISE project was to prepare a summary of resources (policies, laws, agreements) on the use of fiber communications of transportation agencies and to highlight practices for sharing fiber infrastructure.

## Performance Measures and Reporting for International Border Crossings

This project identified the current aspects of transportation performance that are monitored at border crossings, determined what and how wait time measurement technologies are used to support performance management at border crossings; and investigated opportunities to share information about this project's findings with other entities to enhance further interactions

## The Future of DMS Messaging

This project conducted an online search to gather state, provincial, local, and federal policies and guidelines for DMS messaging. The search also included documenting related DMS studies or efforts. Transportation agencies were also contacted to provide additional details on information gathered through the online search. A survey was distributed to gather additional details on the DMS message requests received by transportation agencies and the policy or process for handling requests. The project also researched the potential for public-private partnerships for DMS deployment and operations and documented a few potential future scenarios for connected and automated vehicle implications on DMS.

## Portable Travel Time Displays and ICM with Parallel Routes

ENTERPRISE members were interested in exploring a project to deploy portable DMS at locations where it is anticipated travelers may divert to another parallel route based on travel times posted to determine. ENTERPRISE completed system engineering documents in 2016 for agencies to use to understand what locations are conducive to travel displays being the most effective for diverting traffic. Currently locations for a second phase of the project are being identified for portable travel time deployment sites to summarize results (e.g. benefits, lessons learned) based on multiple locations.

