



The Intelligent Transportation Society of the Midwest
is proud to recognize

Bluetooth Probe Data for Transportation System Management

as candidate for
2009 ITS Midwest Project of the Year

Lead Organization
Indiana Department of Transportation



The Intelligent Transportation Society of the Midwest
is proud to recognize

Expanded Regional Gateway Traveler Information System

as candidate for
2009 ITS Midwest Project of the Year

Lead Organization
Illinois Department of Transportation



The Intelligent Transportation Society of the Midwest
is proud to recognize

Kane County Traffic Systems Center

as candidate for
2009 ITS Midwest Project of the Year

Lead Organization
Kane County



The Intelligent Transportation Society of the Midwest
is proud to recognize

Maintenance Decision Support System (MDSS Statewide
Implementation

as candidate for
2009 ITS Midwest Project of the Year

Lead Organization
Indiana Department of Transportation



The Intelligent Transportation Society of the Midwest
is proud to recognize

INDOT Traffic Management Strategic Deployment Plan

as candidate for
2009 ITS Midwest Project of the Year

Lead Organization
Indiana Department of Transportation



The Intelligent Transportation Society of the Midwest
is proud to recognize
Expanded Regional Gateway Traveler Information System
as the
2009 ITS Midwest Project of the Year
Lead Organization
Illinois Department of Transportation

Presented at the ITS Midwest 2009 Annual Meeting,
Indianapolis, Indiana, October 7, 2009

A handwritten signature in black ink, appearing to be "D. B. O.", written in a cursive style.

President

A handwritten signature in black ink, appearing to be "M. B. B.", written in a cursive style.

Chair, Recognition Committee



The lack of probe data has created a huge challenge for professionals charged with managing system performance. In 2008 the Indiana Department of Transportation pioneered the tracking of Bluetooth enabled consumer electronics. Bluetooth probe data leverages the large penetration of Bluetooth enabled consumer electronic devices as an alternative to toll tag and license plate matching.

Since April 2009, Indiana has deployed over 50 portable and fixed Bluetooth Monitoring sites along 300 miles of Interstate Routes, 100 miles of signalized arterials, and security screening points at the Indianapolis International Airport, allowing for InDOT to provide travel time information in construction work zones, arterial performance for special events, and pedestrian travel times through airport screening checkpoints.



The Expanded Regional Gateway Traveler Information System is a 24 / 7 / 365 proactive force providing traveler information in the Illinois, Indiana, Michigan, Wisconsin area.

In addition to providing activity information on Interstate Highways, the Expanded Regional Gateway Traveler Information System provides construction and incident information on US and State Highways, and major arterials. The Expanded Regional Gateway Traveler Information System also provides automated interfaces to InDOT, Chicago Skyway, and the Indiana Toll Road providing congestion and travel times on I-65, I-80, I-90, and I-94 from Ohio to Iowa.



The Kane County Traffic Systems Center Project allows multiple agencies virtual control of ITS devices at 27 different intersections along Randall Road in Kane County, Illinois.

Through the use of an Enterprise Terminal Server, virtual PC workstations can be accessed to monitor and traffic control signals, CCTV and video detection resulting in improved traffic flow throughout the Randall Road corridor, contributing to an overall improvement to the environment.



Implemented in the winter of 2008 – 2009, the Maintenance Decision Support System (MDSS) enabled InDOT's Maintenance Operations to better utilize equipment and resources during snow events.

The implementation of the MDSS aided management decisions resulting in reductions in salt usage by 40%, labor costs by 25%, and fuel consumption by 14%, for a cost savings of over \$12M.



The Traffic Management Strategic Deployment Plan outlines the deployment plan for the InDOT Traffic Management System in a statewide manner through FY2020. This plan provides the necessary focus on the priorities for expanding the existing traffic management system in Indiana. It also gives the overall vision for the entire system and logically categorizes the build out process to meet the vision for the system.

InDOT's Traffic Management Strategic Deployment Plan provides project oriented recommendations focusing on the new deployment of primary field oriented ITS devices.