



2009 ITS Project of the Year Award

Finalist Project

Maintenance Decision Support System (MDSS) Statewide Implementation

Due to concerns over revenue & salt supply, INDOT began statewide implementation of an MDSS for winter 2008-09. INDOT utilized an MDSS with mobile data collection to better plan, manage & use materials, equipment & man hours to offset these concerns & find better, more cost effect ways to do business.

Approximately 10% of INDOT's snow fleet was outfitted with onboard MDC units & cameras. Forecasts, recommendations specific to road segments, current weather conditions, truck locations, application rates, camera images of road conditions & driver observations were all transmitted in near real time to managers, the Traffic Management Center, radio dispatch & others by a graphical user interface. Combining all these elements with intensive training & a shift in maintenance culture, a "live" big picture of the entire state's maintenance operations was available to employees at all levels. This data, from forecasting to real results, assisted decision makers from the first call out through the final application of materials.

By implementing an MDSS to aid management decisions, INDOT decreased its salt usage by over 40% from the previous year, overtime related to snow and ice dropped by 25% & diesel fuel consumption by nearly 14%. These remarkable results saved over \$12 million for the taxpayers of Indiana and made INDOT the nationwide leader in MDSS implementation.

Project Lead: Indiana Department of Transportation

Project Web Site: <http://mdss.meridian-enviro.com/pfs/>

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