ITS Project/Program Award
Large Municipal Area, Provincial
Federal Application Category:

Bluetooth-based Travel Time Monitoring System in York Region, Ontario
Regional Municipality of York

York Region is currently operating a Bluetooth-based Travel Time Monitoring System (BTTMS) on the Region's arterial road network. Currently the Region has deployed 270 readers in the field and will be expanded to approximately 400 readers by 2019. Eventually, the BTTMS will provide travel times and speed information for 920 individual road segments covering approximately 1,320 km directional roads. It is currently the largest Bluetooth travel time system deployment in Canada.

York Region has achieved significant benefits from utilizing the BTTMS through collecting real-time and storing historical travel times, travel speed and origin-destination data. The system enables York Region's staff to monitor measurable Key Performance Indicators and quantitative delay information. Moreover York Region has conducted many studies using BTTMS data with favorable results. These studies include corridor signal timing review studies, traffic impact studies for traffic restrictions, traffic impact studies during holidays, special events, adverse weather and different stages of construction. In addition, York Region is undergoing an initiative to integrate the travel time data, weather information, snow plowing trips and salt consumption to optimize the snow plowing and salt spreading activities and to expedite the recovery of travel time along the arterial roads.