

Region of York Transit Priority System Integration and Deployment

LEA were retained by the Region of York to provide the design and deployment of a transit signal priority system for transit operations in the Region (York Region Transit, GO Transit, and Toronto Transit Commission) as part of Transport Canada's ITS Deployment and Integration Plan.

The proposed system builds upon the Region's existing centralized traffic signal control system infrastructure, by complementing it with TPS technologies. The Region now operates the third largest public Transit service in Ontario, with plans to double the ridership rate to 30% of all trips made in the region over the next few years.

The unique attributes of this project include coordinating with multiple transit stakeholders, T.T.C.'s existing TSP program, a Region wide landscape with several municipalities managing traffic signals, and the existing proprietary Centralized Traffic Control System operated by the Region. Given the specific constraints and stakeholder interest, LEA is responsible for the selection of an appropriate detection technology that meets the needs of the various stakeholders while still maintaining migration paths to more intelligent TSP systems in the future, if desired. In addition to the actual deployment, LEA is responsible for a "before-and-after" evaluation of the system. Review and understanding

of existing hybrid (leased line and microwave) communication systems for potential opportunities or upgrades.

This study is to include selected transit bus routes in the Region. However, this initial deployment is seen as the first building block towards an ultimate TPS installation across the Region. The results from the further analysis of this proposed TPS will also help the Region strategize and evaluate which other routes in the Region would benefit most from the addition of TPS in the near future.



PROJECT SUMMARY

Client:
Region of York,
with funding support from
Transport Canada

Location:
York Region, Canada

Services Provided:
**Integration and Deployment of
a Transit Priority System**