



# Transportation Planning

*insight • integrity • innovation®*

iTRANS is one of the leading professional practices in Canada specializing in transportation planning. The transportation planning practice includes a wide range of specialists in transportation policy development, strategic-level planning studies, travel demand forecasting, modeling and simulations, transportation economics, GIS, transportation demand management, multi-modal transportation planning, congestion and pricing analysis, sustainable transportation, and research.

## **Transportation Demand Forecasting**

iTRANS is one of the leading firms in Canada specializing in travel demand forecasting on an area-wide basis and/or specific highway and transit projects. Our staff have travel demand forecasting experience throughout Canada, in the United States, and overseas. We have worked with a variety of forecasting models including EMME/2, System II, T-Model, Tranplan and TransCAD. Furthermore, recognizing that transportation models are only tools, we apply our extensive experience and professional judgment in preparing realistic travel forecasts.

## **Transportation Master Plans**

iTRANS carries out area-wide transportation master planning for: region-wide areas, municipalities, downtown areas, new communities, and business parks. As part of the transportation master planning process, the services of iTRANS include: transportation master plans, transit planning, pedestrian and bike planning, traffic calming, travel forecasting and modeling, travel demand management, development charges studies, and public consultation.

## **Traffic Impact Studies**

iTRANS has extensive experience with developers and municipalities in evaluating the transportation implications of development, and in securing development approvals. Based on our knowledge of the planning and approval process, we are able to advise our clients throughout the life of any project, from inception to implementation.

## **Parking Studies**

iTRANS has undertaken area-wide parking studies for municipalities and site-specific parking studies in support of individual development proposals. Services include: parking standards review, parking policy review, parking surveys, parking demand forecasts, design of parking facilities, site plan review, research, and expert testimony.

## **Traffic Calming**

iTRANS brings a multi-faceted approach to help municipalities address traffic problems in residential communities – speeding traffic, traffic infiltration, and pedestrian and traffic safety. Consulting with local residents, we obtain an objective and thorough understanding of their traffic concerns. We are able to assess the traffic safety impacts and effectiveness of alternative traffic calming measures, such as traffic controls, pavement markings, speed humps, traffic diverters, chokers, and raised intersections. iTRANS brings unique traffic safety expertise to quantitatively assess traffic safety impacts. Our experience includes the development of traffic calming policies for municipalities, and traffic management plans for existing and new communities. Our ability to work with local residents has enabled us to attain success in these projects.



[www.itransconsulting.com](http://www.itransconsulting.com)

Vancouver • Calgary • Cambridge • Toronto • Ottawa • Washington DC



# Transportation Planning

*insight • integrity • innovation®*

## **Richmond Hill Transportation Master Plan Study – Town of Richmond Hill**

iTRANS Consulting was retained by the Town of Richmond Hill to conduct a comprehensive transportation master plan study, to assess existing and future transportation challenges, to recommend a long-term, multi-modal transportation strategy to meet the Town's goals, and to identify short-term and medium-term priorities.

iTRANS brought to this study a Sustainable Transportation Planning Approach and incorporated innovative performance measures for the cost of congestion and greenhouse gas emissions. The recommended, multi-modal transportation strategy developed by iTRANS included recommendations for land use and development policies; public transit, road network improvements, goods movement strategies, pedestrian and cycling strategies, travel demand management, and traffic calming. The recommendations of the transportation master plan study received broad support from the public and stakeholders, and received unanimous approval from the Town of Richmond Hill Council.

## **Niagara Frontier International Gateway Study**

iTRANS was part of a consulting team that carried out a strategic transportation network study of the Niagara Frontier between Canada and the United States, to assess the importance and adequacy of the international bridges crossing the Niagara River, and the provincial highway network serving those bridges. The existing Niagara bridges – the Peace, Rainbow, Whirlpool, and Queenston-Lewiston Bridges, along with two rail bridges – carry about 16 percent of total Canada-U.S. trade.

iTRANS developed a Niagara Frontier transportation model, that integrated separate Canadian and United States transportation models; this was used to forecast auto and commercial vehicle traffic across the international bridges and on the provincial and Interstate highway networks. The study area has unique travel characteristics, due to the combination of heavy commercial vehicle traffic travelling between the United States and Canada, long-distance commuter traffic, and high volumes of tourism-related traffic.

iTRANS carried out traffic analyses of the international bridges and of the provincial highway network to determine their adequacy to serve existing and future traffic. Among the options that were tested were widenings and/or extensions of the Queen Elizabeth Way (QEW), Highway 406, and Highway 420. In addition, iTRANS conducted a pre-feasibility analysis of a Mid-Peninsula toll highway that would link the international bridges (near Niagara Falls and Fort Erie) with the provincial highway network in the Hamilton area.

## **York-Peel Boundary Area Transportation Study – Region of Peel and York Region**

Joint study by the Regional Municipalities of York and Peel to carry out a Boundary Area Transportation Study between the Cities of Brampton and Vaughan. The goal of this study was to solve existing and potential transportation issues in the vicinity of the southern part of the York-Peel boundary which would support planned development in Brampton, Vaughan and Caledon. The study developed a long term (2031) transportation plan and identified the medium term improvements and short term actions needed to address the growing transportation demand in the study area.

## **Northwest Brampton Transportation Infrastructure Study – City of Brampton**

Transportation master plan study to recommend the transportation infrastructure and preliminary servicing needs required to support the development of the proposed urban expansion in the northwest part of Brampton. This multimodal transportation study examined cross-boundary transportation needs between Halton and Peel, as well as transportation needs within east Halton and west Brampton.



[www.itransconsulting.com](http://www.itransconsulting.com)

Vancouver • Calgary • Cambridge • Toronto • Ottawa • Washington DC