



# Congestion and Its Costs

*Insight • Integrity • Innovation®*

Commuters, manufacturers and carriers alike continue to rank traffic congestion as the leading transportation problem in the nation's cities. The economic impacts on lost productivity are substantial, as are the environmental impacts on energy use and emissions. However, in order to address and mitigate congestion, there is a need to first understand and measure the phenomenon. iTRANS is the Canadian leader in understanding congestion and its components, as well as quantifying the impacts of congestion and the associated costs. Our leading-edge methods have been cited internationally and have been adapted into standard investment decision-making practices by our clients.

## **Costs of Urban Congestion in Canada - Transport Canada**

This high-profile study developed comparative indicators and measurements of congestion, quantified costs associated with delay, wasted fuel and emissions, and applied to Canada's nine largest urban areas (EMME/2-based). The findings attracted international attention when they were released in 2006.

## **Costs of Non-Recurrent Congestion – Transport Canada**

Variable or non-recurrent congestion is cited by commuters and industry alike as a key urban ill. iTRANS developed and applied model-based methods to estimate non-recurrent congestion, its impacts on delay, fuel consumption and emissions, and the associated costs in the nine largest urban areas in Canada.

## **Methods to Estimate Non-Recurrent Congestion – Transport Canada**

Review of methods to quantify non-recurrent congestion in Canadian urban areas and assessment of further data collection and methodological needs.

## **Traffic Congestion Impact on CO<sub>2</sub> Emissions Inventory in Canada - Office of Energy Efficiency, Natural Resources Canada**

Assessed approaches and methods for modeling the impact of traffic congestion on fuel use and CO<sub>2</sub> in Vancouver, Edmonton, Toronto, and Montréal.

## **Highway 7 / Keele Street Traffic Study – York Region, Ontario**

Estimated impacts on truck and auto congestion and associated benefits and costs of improvements at key industrial / commuter intersection in the Greater Toronto Area. The resultant method was adapted as standard practice by the client for its benefit-cost analysis.

## **Transportation Master Plan – Town of Richmond Hill, Ontario**

Developed method to quantify congestion and its costs, for evaluation of alternative transportation improvements in fast-growing Greater Toronto Area suburb of 150,000.



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

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