



Freight Transportation

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In response to growing client needs, iTRANS has developed a specialized practice in freight transportation, offering services in:

- Urban and inter-urban freight transportation master plans and policies
- 'Best practices' in freight transportation planning, including new technologies
- Freight data collection and surveys, analysis and modeling
- Logistics and vehicle routing
- Technology transfer and training

LOGISTICS, VEHICLE ROUTING, MODELING & DATA PROJECTS:

Truck Distribution GIS / Model – National Fuel Distributor

Specified model for fleet optimization to reduce distribution costs for delivery of petroleum products to service stations and for home heating, using Map Info and various add-ons.

Framework for High Quality Data Collection of Urban Goods Movement in Canada (Phase I) – Transportation Association of Canada

Identified the requirements for urban goods movement data, and developed a framework for analyzing these needs. The research reviewed international 'best practices,' assessed existing data sources, identified new data requirements, and developed comprehensive user questionnaires and sampling methods for application throughout Canadian urban areas of different sizes.

Solid Waste Management – Region of Ottawa-Carleton

Defined GIS-based zone criteria for tender documents, in order to ensure even distribution of truck routes and costs among several service districts.

Trucking Fleet Optimization Study – Québec manufacturer

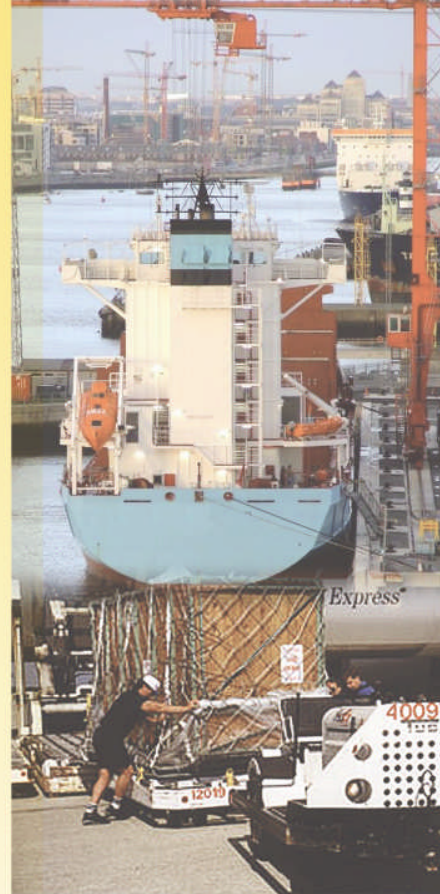
Designed operational research model to optimize deliveries and reduce costs for a major manufacturer of doors and windows across Eastern Canada and USA, using LINDO.

Peel Landfill Site Selection Study – Ministry of the Environment (Ontario)

Analyzed trucking impacts of candidate landfill sites, by modeling truck traffic in EMME/2 urban travel demand model.

El Periférico Feasibility Study – Government of El Salvador

Designed truck surveys and added truck forecasting component to existing travel demand model (simulating agricultural, urban, and port traffic), and trained staff (IADB funded).



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FREIGHT TRANSPORTATION PROJECTS:

Port Alberta – Edmonton Regional Airports Authority

Truck, air, and rail freight forecasts for proposed inter-modal terminal to serve Northern Alberta's oil and resource economy.

Niagara Frontier Urban Area Freight Transportation Study – Greater Buffalo-Niagara Transportation Council

Develop Canadian and cross-border freight flows and analyze needs, as part of multi-modal freight / economic development plan.

Freight Flows in the Great Lakes Region – Transportation Research Board

Review of US and Canadian, domestic and cross-border trade flows, and characteristics along the St. Lawrence Seaway.

Northeast CanAm Connections: Integrating the Economy and Transportation – Maine Department of Transportation, et al.

Canadian and cross-border component of freight plan to improve multi-modal trade connections between northeast US states and central / eastern Canada.

Freight Inter-modal Opportunities and Barriers Study – Transport Canada

Identified ways to improve inter-modal freight connectivity, using Peel Region as a case study, to develop partnerships among freight transportation stakeholders, and developed a guidebook for municipalities throughout Canada.

Goods Movement in Central Ontario: Trends and Issues Study – Ministry of Transportation (Ontario)

Comprehensive multi-modal and inter-modal plan for Central Ontario (truck, rail, air, marine, pipeline) as a foundation for planning. The study was based on extensive stakeholder consultation and on analysis of growth, economic and trade data, and modal use.

Economic Rationale for Major Commercial Transportation System – Gateway Council

Quantification of benefits and costs of goods and passenger movement in Greater Vancouver, for economic rationale of proposed road and transit improvements.

Goods and Services Movement Study – Greater Toronto Services Board

Specialist advice regarding 'best practices' in urban goods movement issues, data and modeling, and freight council implementation strategies.

Sustainable Transportation Plan for Québec – Environment Canada

Multi-modal, multi-stakeholder policy, and action plan for urban and inter-city passenger and goods transportation (including truck, rail, air, and marine) for the Province of Québec.

Sustainable Transportation Technology Forecast: Action Plan – Transportation Development Centre, Transport Canada

Evaluation of 40 new technologies regarding their potential applicability to sustainable transportation, including truck and rail freight transportation.

Estimation of Transportation Scenarios to Improve Air Quality in Canada (1995 – 2020) – Environment Canada

Forecasts of pollutant and CO₂ impacts of vehicle inspection and maintenance programmes, heavy-duty engine replacement and accelerated vehicle retirement (MOBILE 5C+).



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