



## OVERVIEW

On behalf of the Gateway Program, TSi Consultants undertook a comprehensive regional data collection program that included detailed traffic counts at major regional screenlines and a 2004 trip diary that surveyed the trip patterns of 4,800 households. Other useful model updates included subdividing of traffic zones within the Gateway Program (a MoT entity charged with the Highway 1, South Fraser Perimeter Road and North Fraser Perimeter Road projects in the Lower Mainland) study area and updating of population and employment within the zones based upon detailed (dissemination area) Census data. This information was used to calibrate year 2004 AM and PM models, and these models were designed for efficient linkage with operational micro-simulation models.

## UNIQUE FEATURES

- Estimation of base and future year volumes from EMME/2 models for input into PARAMICS through a traversal gate system for the purpose of micro-simulation.
- A 4,800 household trip diary survey were undertaken for the entire Lower Mainland to collect information on 24-hour weekday travel characteristics.
- Demographics were updated in conjunction with the redefinition traffic zone system. Population by age category and employment by industry type were provided at the dissemination area (DA) level of aggregation.
- The regional truck model was modified and integrated with the AM and PM models. Recent manual classification / special generator gate counts were collected to provide a reasonable estimate of future year truck trip origin / destination patterns.



## CLIENT

- The Gateway Program

## TECHNICAL CONTACTS

- Karoly Krajczar, Vice President
- Chris Hoff, Technical Director

### How to Record your Trips

Example Traveler — This is how the mother would record her trips on Side 2 of her Survey Form:

	TRIP 1	TRIP 2	TRIP 3	TRIP 4
<b>Start location:</b> If this trip started from home or usual place of work, write "Home" or "Work #1" or "Work #2". Otherwise, give precise address OR nearby intersection OR landmark. PLUS be sure to include municipality.	I started my first trip from: <b>Home</b>	Started from: <b>No. 3 Rd. &amp; Blundell, Richmond</b>	Started from: <b>Work #1</b>	Started from: <b>Pacific Centre Mall, Vancouver</b>
<b>End of trip location:</b> Give precise address OR nearby intersection OR landmark. If trip ended at home or normal place of work, write "HOME", "WORK#1" or "WORK#2". PLUS be sure to include municipality.	I went to: <b>No. 3 Rd. &amp; Blundell, Richmond</b>	I went to: <b>Work #1</b>	I went to: <b>Pacific Centre Mall, Vancouver</b>	I went to: <b>Work #1</b>
<b>End location building/facility:</b> (Choose only one)	<b>4. Day Care</b>	<b>2. Office Building</b>	<b>6. Restaurant</b>	<b>2. Office Building</b>
<b>Main trip purpose:</b> (Choose only main purpose)	To go: <b>9. Drop Off Person</b>	To go: <b>1. Work</b>	To go: <b>6. Lunch</b>	To go: <b>1. Work</b>
<b>Start time:</b> Write in Exact Time (or nearest 5 minutes) you left the start location. Be sure to circle AM or PM.	Left start location at: <b>8:10 PM</b>	Left start location at: <b>8:25 PM</b>	Left start location at: <b>12:00 AM</b>	Left start location at: <b>1:00 AM</b>
<b>Arrival time:</b> Write in Exact Time (or nearest 5 minutes) you arrived at this destination. (and Circle AM or PM)	Arrived at: <b>8:25 PM</b>	Arrived at: <b>9:00 PM</b>	Arrived at: <b>12:15 AM</b>	Arrived at: <b>1:10 AM</b>
<b>Method of travel:</b> (Choose all that apply)	Travelled by: <b>100</b>	Travelled by: <b>100</b>	Travelled by: <b>100</b>	Travelled by: <b>100</b>