

# Reference

## Project Partner

### Grand River Transit (GRT) Region of Waterloo, Ontario

15 BRT (Bus Rapid Transit) Buses

161 Conventional Fixed-Route Buses

5 Supervisor Laptops

## Project Highlights

- CAD/AVL with map display and incident management
- All vehicles equipped with:
  - On-board computers (COPILOTpc)
  - Mobile data terminals (TOUCHit)
  - Automated Passenger Counters (APCs)
  - Vehicle diagnostic interface via J1708
  - Digital Voice Announcement System (PADmobil)
  - Passenger Information Displays (PIDmobil)
- Intranet access for mobile supervisors
- MOBILE-PLAN planning system with interface to scheduling system
- Real-Time Passenger Information (RTPI) system including LED displays at all BRT stops, multi-line displays at all terminals and interface with IVR system
- Stop displays powered by solar power
- Traffic Signal Priority (TSP) via 3M Opticom
- GPRS for data communication
- 802.11 Wireless LAN for mass data transfer



The Region of Waterloo is one of the fastest growing areas in Ontario. Grand River Transit operates daily bus services covering the cities of Cambridge, Kitchener and Waterloo on a fixed route schedule. In 2005, GRT launched an express bus service called iXpress ("i" for intelligent because of INIT's ITS technology being implemented). In order to provide faster service, the iXpress stops only at thirteen stations along its route. The iXpress is seen as a way to build up ridership levels in order to demonstrate the viability of higher-grade transport services. In 2010, GRT expanded their ITS system to the rest of their conventional fleet.

## INIT Products Employed

- MOBILE-ICTS
- MOBILE-STOPinfo
- MOBILereports
- MOBILEforms
- MOBILEstatistics
- MOBILEic
- LISA
- COPILOTpc
- TOUCHit
- GSMvoice
- MOBILE-APC
- PIDstation
- WLAN
- PIDmobil
- PADmobil

## Contact At Authority

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**GRT** GRAND RIVER TRANSIT