

ATLANTIC

A Thematic Long-term Approach to Networking for the Telematics
and ITS Community

A Partnership of ITS Communities in Europe and
North America

CANADIAN PARTICIPATION

A Partnership of ITS Stakeholders in Canada

PROJECT PROGRESS REPORT #3

Phase 3

Prepared by

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ATLANTIC (A Thematic Long-term Approach to Networking for the Telematics and ITS Community) originated as a project sponsored by the European Union under the 5th Research Framework with self-sustaining partners in the United States and Canada. The authors wish to acknowledge the cooperation extended by the international ATLANTIC partners to the Project in Canada.

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LIST OF APPENDICES (Updated to July 14, 2003)

Appendix A Key Project Milestones – Phase 3, January 2003 – December 2003

Appendix B Key Participants in Work Groups – Leaders and Rapporteurs

INTRODUCTION

This document is Progress Report #3 for the Canadian ATLANTIC Project. The first Progress Report was issued in January 2003 and it reported on the activities of the Project from July 2001 to December 2002. The second Progress Report covered the period from January 13, 2003 to March 21, 2003. This Progress Report covers the period from April 1, 2003 to June 30, 2003. The complete schedule of the Project is presented in Appendix A, updated to July 14, 2003.

The following activities are reported on herewith:

- Work initiated on Canadian ATLANTIC web sites,
- ATLANTIC Workshop in Birmingham, U.K.,
- ATLANTIC participation in ITS Canada Annual Conference,
- Drafts completed for 8 outline discussion papers, and
- Recruiting of experts initiated for ATLANTIC network.

The report concludes with a summary of progress and an overview of future work.

ACTIVITY REPORTS

Work Initiated on Canadian ATLANTIC Web Sites

The ATLANTIC network has an international web site at www.atlan-tic.net that is used as a repository for documents and an electronic forum for the conduct of international debates on issues related to intelligent transport systems.

The Canadian ATLANTIC project will develop its own web sites in order to establish a distinctly Canadian presence on the world wide web. This means they will be implemented in both official languages and will be a point of exchange for all Canadian participants in the network. After some discussion, it was decided that the quickest way to establish the web sites in both official languages was to have English language web pages at the University of Toronto and French language web pages at the Université de Montréal.

The University of Toronto established its web pages first because it had created them following the workshop in March 2002. The site was expanded in May 2003 to accommodate the various documents produced by the Canadian ATLANTIC project.

Work on the French web pages began in May 2003. A web site design was prepared and approved and all the basic Canadian ATLANTIC documents were translated and posted on the web site (note: this was completed on August 5th and work is underway to harmonize the look and feel of the two web sites).

The web site addresses are: <http://www.crt.umontreal.ca/atlantic/> (French) and <http://www.civ.utoronto.ca/sect/traeng/its/atlantic.htm> (English).

ATLANTIC Workshop in Birmingham UK

An international workshop was planned and implemented in conjunction with the Smart Moving Conference organized by ITS United Kingdom in Birmingham, U.K. on April 10, 2003. The event was organized by John Miles and Richard Harris of the European ATLANTIC partners and William Johnson of the Canadian ATLANTIC partners. The agenda of the workshop and copies of the presentations are posted on the international web site www.atlan-tic.net in the section on recent events.

The Canadian participants included William Johnson, Susan Spencer and Paul Frigon. William and Susan made presentations based on the progress of the Canadian ATLANTIC project, traveller information in North America and strategic ITS policy in Canada. The Europeans presented an overview of ATLANTIC in Europe, traveller information in Europe, recent research results impacting traveller information and the TEMPO, CENTRICO, STREETWISE and FRAME programs in Europe. The exchange of information and views was quite stimulating and added significantly to the knowledge base of the participants.

The workshop concluded with a discussion of directions for future cooperation and funding mechanisms.

ATLANTIC Participation in ITS Canada Annual Conference

The Canadian ATLANTIC project participated in the ITS Canada Annual Conference and Exhibition April 28-29th in Fredericton N.B. The purpose was to raise the profile of the project in the ITS community in Canada. It was also seen as an early opportunity to collect names of potential recruits as ITS experts for the ATLANTIC network.

A booth was reserved and a student from the University of New Brunswick, Trevor Hansen, was recruited to help staff the booth during exhibit hours. Professor Abdulhai made a presentation at the conference workshop session sponsored by Transport Canada and dedicated to the release of its ITS R&D program. He spoke on the scope and progress of the Canadian ATLANTIC project that was introduced as a model for cooperative research endeavours.

These activities served to inform the ITS community of the official launch of the Canadian ATLANTIC project and to explain its objectives. A total of 30 names of interested technical experts and policy planners were collected at the booth. They will all be contacted in the next phase of the project when the recruitment of experts for the network gets underway.

Drafts Completed for 8 Outline Discussion Papers

The outline discussion papers present the scope and objectives of the work group theme in sufficient detail to communicate to potential recruits and to other interested parties what the final paper will encompass.

The major accomplishment for the period of this Progress Report was the completion of the outline discussion papers for all 8 work groups. They are based on the work plans prepared in the previous period of the project and all have a common "look and feel".

It was decided that these 8 papers should be available in both official languages. Therefore, the Université de Montréal translated the 8 papers into French. This was a major undertaking and, as a result, the Canadian ATLANTIC project has all its basic documents available in French and English. This makes it possible to communicate with potential recruits, at least in the initial approach, and with project sponsors in the official language of their choice. However, it is recognized that, in an international project such as ATLANTIC, the majority of communications will still be conducted in English.

The 8 outline discussion papers are posted on the English and French web sites of the project (see Activity Report on Web Sites above for web addresses).

Recruitment of Experts Initiated for ATLANTIC Network

The task of contacting potential recruits as ITS experts for the Canadian ATLANTIC project was delegated to the Work Group leaders and rapporteurs. This strategy was based on the thought that potential recruits would respond more positively to an approach from someone they knew already. Since each of the Work Group leaders and rapporteurs are reasonable well known in their own fields, this strategy was assumed to be best. They are including academics, public sector officials, manufacturers and operators in their solicitation process.

The approach to the potential experts informed them of the need to assemble information about ITS R&D projects underway in Canada. This is the start of the inventory of ITS R&D projects in Canada and will be complemented by literature and web based searches.

To the end of June, five of the Work Groups had initiated the solicitation process using a generic letter (adapted to their specific work group theme) and a package containing the 8 outline discussion papers. The letter was available in English and French. Two more Work Groups had begun their recruitment process by the end of July.

The response from experts has been encouraging and the results are being analysed and assembled into a composite summary. The recruitment process and refinement of contacts with interested parties is expected to go on throughout the summer. This activity is therefore slightly behind the original project schedule.

SUMMARY AND CONCLUSIONS

The Canadian ATLANTIC Project met its major planned schedule targets in this reporting period (see Appendix A). The recruitment of experts is well underway but is slightly behind schedule. It is expected this will be completed over the summer.

The Canadian ATLANTIC workshop is planned for October 24, 2003 at which time the draft discussion papers will be presented for review and comment in front of all the Work Group leaders, rapporteurs, students and invited experts. The project now anticipates completion of the final report in March 2004.

APPENDIX A

KEY PROJECT MILESTONES – PHASE 3

(Updated to July 14, 2003)

- ❖ *Note: These are major milestones.*
 - ❖ Canadian ATLANTIC agreements confirmed with sponsors Jan 2003
 - Core Team finalize work plans for January to December 2003 and draft project guidelines Jan 2003
 - ❖ **Progress Report #1** summarizing accomplishments to date in 2002 for submission to sponsors and for posting on website 13 Jan 2003
 - Mobilize key participants in the Canadian ATLANTIC project Jan/Feb 2003
 - Announce launch of Canadian ATLANTIC Phase 3 Feb 2003
 - ❖ Initiate draft work plans for discussion papers – Work Groups Feb 2003
 - ❖ **Canadian ATLANTIC Steering Committee meeting** with sponsors and interested participants to present work plans 17 Mar 2003
 - ❖ **Progress Report #2** summarizing accomplishments to date in 2003 for submission to sponsors and for payment milestone 21 Mar 2003
 - Initiate work on Canadian ATLANTIC websites (UoT and U de M) Apr 2003
 - ATLANTIC Workshop in conjunction with Smart Moving Conference (Birmingham U.K. international event) 10 Apr 2003
 - ATLANTIC Exhibit at ITS Canada to raise awareness & solicit input Apr 2003
 - ❖ **Complete drafts of outline discussion papers** to circulate to experts May 2003
 - Initiate recruitment of experts using draft outline discussion papers and initiate research to summarize ITS R&D in Canada May 2003
 - ❖ **Progress Report #3** summarizing accomplishments to date in 2003 for submission to sponsors and for posting on website 30 Jun 2003
- << Completed In Progress >>**
- Canadian ATLANTIC web sites launched Jul 2003
 - Begin planning for follow-up R&D submissions to Granting Councils Jul 2003
 - Project work over summer period Jul-Aug 2003
 - **Complete drafts of discussion papers** 15 Sep 2003
 - ❖ **Convene Canadian ATLANTIC Workshop (place tbc)** **October 24 2003**
 - ❖ **Canadian ATLANTIC Steering Committee meeting** **Oct 2003**
 - Canadian ATLANTIC participation at national and international forums (10 ITS WC Madrid, TRB Washington, ITS Canada Calgary) Nov 2003/May 2004
 - ❖ **Canadian ATLANTIC Project Final Report** **Mar 2004**

APPENDIX B

**Key Participants in Working Groups
Leaders and Rapporteurs**

Working Group	Participants
<p><i>Working Group 1.1</i> <i>Title: Telematics-based Traffic & Travel Information</i> <i>Scope: strategies for TTI service deployment</i> <i>legal and institutional issues</i> <i>contributions of TTI to sustainable transport</i></p> <p><i>Leader:</i> <i>Rapporteur:</i> <i>Experts/Correspondents:</i></p>	<p>A. Khan Carleton U P. Frigon, PSR Group (Recruiting underway)</p>
<p><i>Working Group 1.2</i> <i>Title: Network Monitoring & Traffic Management & Control</i> <i>Scope: system architecture issues</i> <i>integrated information and control strategies</i> <i>techniques for network monitoring</i> <i>emergency service systems</i></p> <p><i>Leader:</i> <i>Rapporteur:</i> <i>Experts/correspondents:</i></p>	<p>B. Abdulhai U of T L. Kattan UofT (student) (Recruiting underway)</p>
<p><i>Working Group 1.3</i> <i>Title: Intermodal Collective Transport Information</i> <i>Scope: travel & intermodal info in wireless info society</i> <i>Public transport operations</i> <i>Tourism & travel info services</i></p> <p><i>Leader:</i> <i>Rapporteur:</i> <i>Experts/correspondents:</i></p>	<p>A. Shalaby U of T B. Hemily, Consultant (Recruiting underway)</p>
<p><i>Working Group 2.1</i> <i>Title: Intermodal Freight Info, Pre-clearance & Logistics</i> <i>Scope: contribution of ITS to logistics & freight</i> <i>city logistics, e-commerce transactions & impacts</i> <i>freight & fleet management, tracking, tracing</i> <i>freight intermodality</i> <i>ITS for freight transfer at ports, airports, rail terms</i></p> <p><i>Leader:</i> <i>Rapporteur:</i> <i>Experts/correspondents:</i></p>	<p>T. Crainic, UQAM/UdM L. Sabounghi, S & A. (Recruiting underway)</p>

APPENDIX B

Key Participants in Working Groups Leaders and Rapporteurs

Working Group	Participants
<p><i>Working Group 2.2</i></p> <p><i>Title: Intelligent Vehicles & Vehicle Highway-Systems</i></p> <p><i>Scope: adaptive cruise control active & passive safety vehicle & driver assistance & service integrated incident management</i></p> <p><i>Leader:</i></p> <p><i>Rapporteur:</i></p> <p><i>Experts/Correspondents:</i></p>	<p>D. Gingras U Sherbrooke W. Johnson & Auto21 (Recruiting underway)</p>
<p><i>Working Group 2.3</i></p> <p><i>Title: Electronic Road User Charging & Payment Integration</i></p> <p><i>Scope: smart cards, payment systems, e-fee collection ITS infrastructure for road user charging</i></p> <p><i>Leader:</i></p> <p><i>Rapporteur:</i></p> <p><i>Experts/correspondents:</i></p>	<p>M. Mustafa, IBI Group B. Abdulhai, U of T (Recruiting underway)</p>
<p><i>Working Group 3.1</i></p> <p><i>Title: ITS User Acceptance & Impact Assessment</i></p> <p><i>Scope: assess results of user acceptance & impacts traveller acceptance, behaviour, mode choice sensitivity models of transport supply & demand methods of assessing user acceptance & impacts</i></p> <p><i>Leader:</i></p> <p><i>Rapporteur:</i></p> <p><i>Experts/correspondents:</i></p>	<p>I. Kaysi, U of Toronto W. Johnson, Consultant O.Al-Battaineh UoT(stud) (Recruiting underway)</p>
<p><i>Working Group 3.2</i></p> <p><i>Title: Human Machine Interface & User Friendly ITS</i></p> <p><i>Scope: progressing HMI measuring techniques & criteria Behavioural & safety impacts of driver support Universal design, comprehension & use of mobile devices, fixed terminals & roadside info</i></p> <p><i>Leader:</i></p> <p><i>Rapporteur:</i></p> <p><i>Experts/correspondents:</i></p>	<p>J. Caird, U of Calgary Ms. L. Suen, Consultant (Recruiting underway)</p>