

CANADIAN-DEVELOPED ADVANCED TRAFFIC RESEARCH AND INNOVATION NETWORK TO TACKLE WORLD'S TRAFFIC CHALLENGES

CANARIE-funded On-Line Network-Enabled Intelligent Transportation Systems (ONE-ITS) provides powerful new tools to reduce traffic congestion and improve transportation efficiency.

[TORONTO – January 31, 2011] One of the world's most advanced networking facilities for solving traffic congestion and urban transportation issues was officially launched today, giving researchers and planners tremendous new capacity to tackle traffic congestion and complex traffic management tasks.

Core funding of \$700,000 was provided by **CANARIE – Canada's Advanced Research and Innovation Network** (www.canarie.ca), and the system relies on CANARIE's ultra high-speed, high-bandwidth capabilities to enable real-time solutions to multifaceted transportation problems.

"The launch today of ONE-ITS is an excellent example of how CANARIE's vital digital infrastructure supports Canadian innovation that results in the development of important digital solutions for major problems faced both in Canada and around the world," said Jim Roche, President and CEO of CANARIE.

Today's official launch of the On-Line Network-Enabled Intelligent Transportation Systems (ONE-ITS) platform at the University of Toronto's ITS Centre and Testbed, provided a live demonstration for provincial and municipal government officials, transit authorities and researchers.

Statistics show that traffic density in Canada has increased 60% in the last 20 years, costing \$6 billion annually in lost productivity and increased operating costs.

The ONE-ITS demonstration showed how users anywhere across Canada or around the world, can more easily work together on solving problems related to easing traffic congestion, enhancing safety, developing optimal emergency evacuation planning, reducing stress, reducing fuel consumption and pollution, protecting the environment and promoting urban sustainability.

The demonstration of ONE-ITS was displayed on U of T's massive, multi-screen video wall for traffic surveillance, vehicle tracking, integrated traffic control and visualization of complex transportation simulations.

“Researchers around the world have been hindered by fragmentation of innovative ideas, data sources, software and hardware tools to develop intelligent transportation systems,” said Dr. Baher Abdulhai, ONE-ITS President. “ONE-ITS is designed to be a one-stop-shop for data, applications and developers in the ITS community.”

The ONE-ITS platform is now available for use by researchers and transportation stakeholders worldwide through the ONE-ITS Research Society, a non-profit organization established to govern access to, and integration with the ONE-ITS platform.

About ONE-ITS

ONE-ITS is a pioneer initiative that exploits modern web, communications, and software technologies to enable collaborative research and development activities among widely dispersed participants specifically focussed on solving problems related to easing traffic congestion, enhancing safety, reducing stress, reducing fuel consumption and pollution, protecting the environment, and promoting urban sustainability. It does this by giving equal access to all participating researchers to the software, transportation data and knowledge resources that have been acquired and accumulated in the system. The ownership of these resources remains with the contributing agents. A social networking capability ensures connected communications among stakeholders and participants.

For more information on ONE-ITS, or to contact us to learn how to integrate with the ONE-ITS platform, please visit www.one-its.net

About CANARIE

CANARIE Inc. is Canada's Advanced Research and Innovation Network. Established in 1993, CANARIE manages an ultra high-speed network which facilitates leading-edge research and big science across Canada and around the world. More than 40,000 researchers at over 225 Canadian universities and colleges use the CANARIE Network, as well as researchers at institutes, hospitals, and government laboratories throughout the country. Together with 12 provincial and territorial advanced network partners, CANARIE enables researchers to share and analyze massive amounts of data, like climate models, satellite images, and DNA sequences that can lead to groundbreaking scientific discoveries. CANARIE is a non-profit corporation supported by membership fees, with the major investment in its programs and activities provided by the Government of Canada.

CANARIE keeps Canada at the forefront of digital research and innovation, fundamental to a vibrant digital economy. For additional information, please visit: www.canarie.ca.

For a CANARIE profile on ONE-ITS, go to
http://www.canarie.ca/templates/programs/network/pdf/ONE_ITS.pdf

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