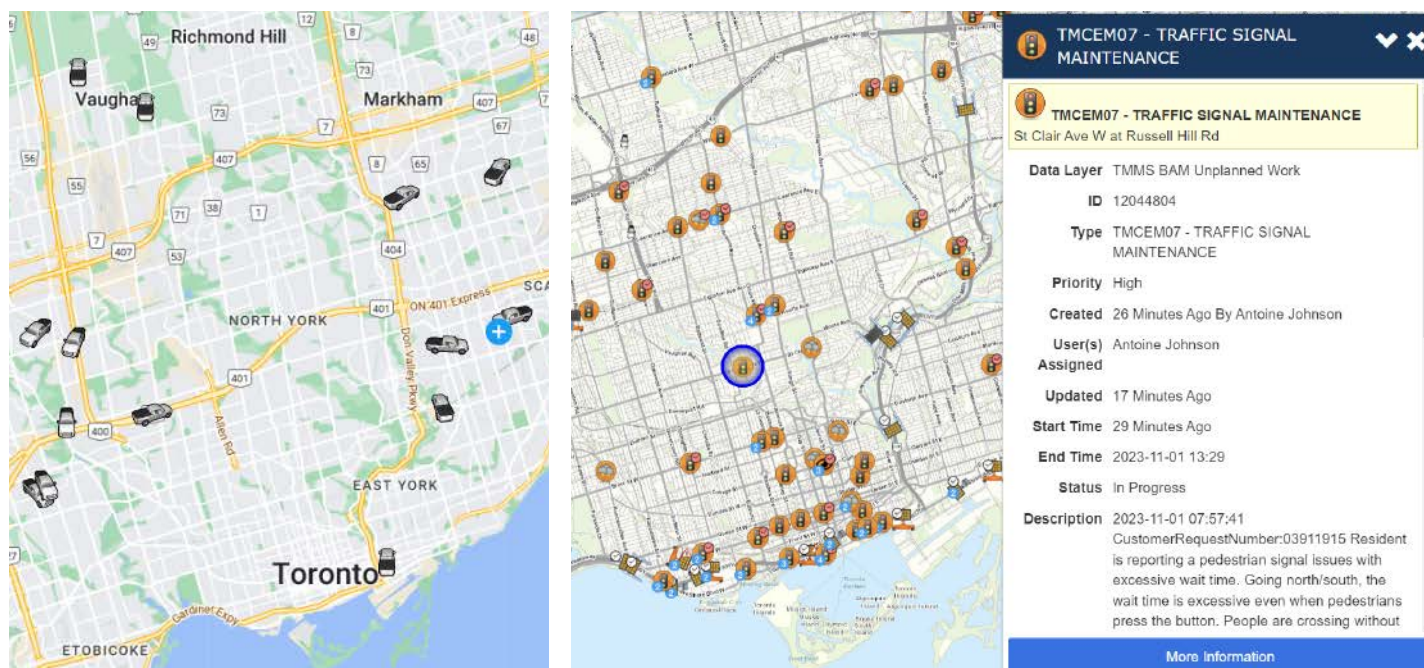


Maintenance Awareness Platform (MAP)

City of Toronto, Ontario

ITS/Traffic Central

The City of Toronto Maintenance Awareness Platform (MAP) is a user-friendly web application designed to empower traffic operations staff in overseeing and managing the operation and maintenance of traffic devices. The project was collaboratively undertaken by Black & McDonald and Transnomis, utilizing Transnomis' flagship ITS Central system. Notably, the project was honored with a **second-place award in the Small Project category at the Engineering Project of the Year by the Professional Engineers of Ontario (York Chapter)**.



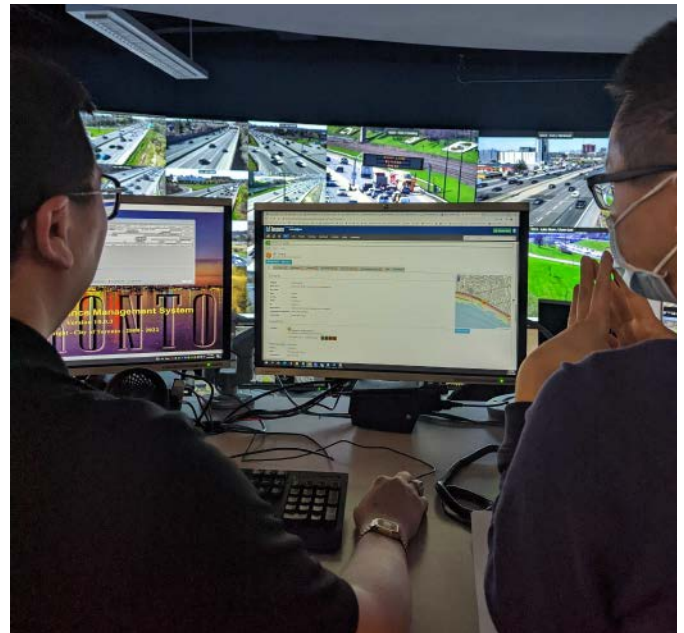
The Maintenance Awareness Platform (MAP) monitors maintenance issues and tracks the status and location of AVL-equipped maintenance vehicles assigned to resolve them.

MAP keeps records of all device maintenance issues and assists dispatchers in notifying and monitoring maintenance contractors as they work to resolve the issue. By integrating with the maintenance contractor's Automated Vehicle Location system, ITS Central automatically logs when a technician arrives on site, and when the contractor leaves. Maintenance technicians use the system from their mobile devices to log the problem, repairs performed, photos of the repair, and materials used. MAP also monitors for maintenance issues, such as signal loop failures, and automatically inform the operator, ensuring device errors are detected, prioritized, and resolved as quickly as possible.

MAP integrates with the City's wide range of devices to ensure all technical infrastructure remains connected and fully functional. These devices include variable message signs (VMS), vehicle detectors (including loops and non-intrusive sensors), cameras, GPS tracking systems, traffic signals, lane reducers, gates, and many others. All devices are accessible through ITS Central's unified management interface.

The MAP project also includes several innovative sub-projects:

- ✓ **Semi-automated sign messaging** allows for VMS to be updated in response to changing lane blockages due to incidents without requiring operators to manually enter new messages across many signs.
- ✓ **Radar and Lidar integration** uses advanced radar devices to capture and display real-time traffic information to operators, showing representations of individual vehicles on high-traffic thoroughfares.
- ✓ **Remote traffic centre operation** assists during disasters and other major incidents, enabling City staff to access all needed systems from an offsite location when the primary traffic centre is inaccessible or unsafe due to an emergency.



For more information, email us at contact@transnomis.com or reach out to our team at **1 (888) 322-1369**

