Key Features:

Travelers' information

Real-time monitoring of current traffic congestion

Dynamic and independent updating of Variable Message Signs
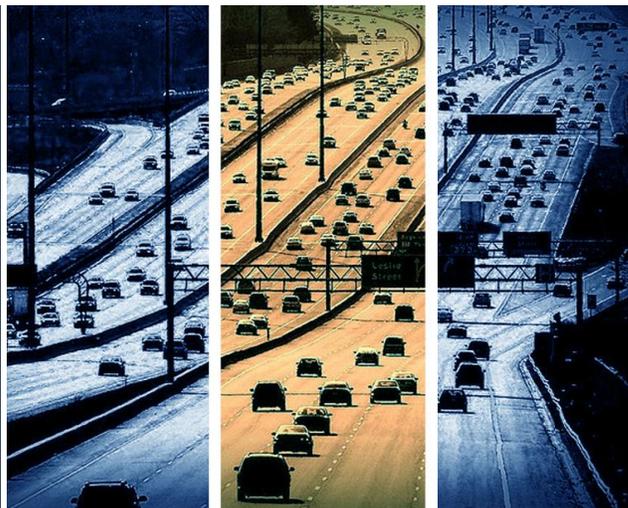
Incident Alarm Management

Scheduled Reporting and Report Generation

Data Archival Management

Google Maps used for GIS data

Supports Oracle database

Interface for CCTV management

Latest Improvement:

Decision Support Facility

A decision support system that prompts the user to offer possible solutions after identifying an incident.

Tap into Array's World - Class Transportation Expertise

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The Corridor Advisory Traffic Software

Traffic congestion reduces trade, and increases pollution, travel time, and driver frustration level. Array's *Corridor Advisory Traffic (CAT)* software was developed to rapidly respond to and manage roadway incidents with the goal to reduce congestion (due to traffic incidents, weather, construction, etc.) in as short a time as possible. The CAT software includes comprehensive functionality for day-to-day highway management including all communications logging and event handling for such actions as scheduled roadwork or snow removal. The CAT is the same system recently developed for use by the Ministry of Transport Ontario for the management of their 400-series freeways, secondary highways and corridor roadways in the Province of Ontario, including Highway 401, which includes the busiest stretch of highway in North America.
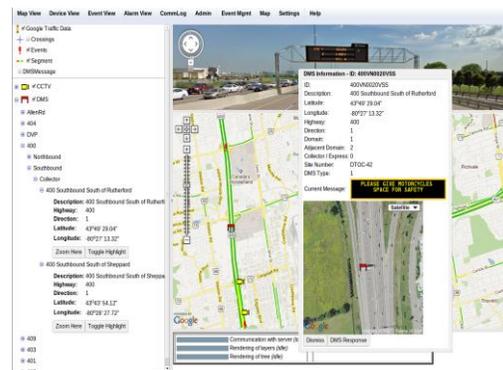
The CAT software

The CAT is easy to deploy even where no pre-existing ITS field infrastructure is available. Commercially-available Portable VMS (PVMS) devices may be used for disseminating messages to the public. The system is self-configuring, obtaining the position and orientation of PVMSs from the built-in GPS and compass on each unit. Based on the type of incident, the CAT can identify the relevant upstream/downstream VMSs and suggest suitable pre-arranged messaging.

DMS ID	Current Message	Preview	Proposed Message	Preview
401VE0060VSF	[J3]DON'T DRINK AND DRIVE[n][J3]POLICE PATROLLED	DON	[J3]401 WESTBOUND SINGLE ROADWAY[n][J3]3 LEFT LANES B	111111111111111 L2LHS c RHS Test 3
☑ 401VE0070VNF	[J3]PASS WITH CAUTION[n][J3]AROUND STOPPED[n][J3]EMERG	PASS WITH CAUTION AROUND STOPPED EMERGENCY VEHICLES	[J3]401 WESTBOUND SINGLE ROADWAY[n][J3]3 LEFT LANES B	111111111111111 L2LHS c RHS Test 3
☑ 401VE0030VEC	[J3]PUT SAFETY FIRST[n][J3]DON'T DRINK AND DRIVE	PUT SAFETY FIRST DON	[J3]SINGLE ROADWAY 3 LEFT LANES BLOCKED[n][J3]AT VMS V	111111111111111 L2LHS c RHS Test 3
☐ 401VE0040VEE			[J3]SINGLE ROADWAY 3 LEFT LANES BLOCKED[n][J3]AT VMS V	111111111111111 L2LHS c RHS Test 3
☐ 401VE0040VWE	[J3]CHECK YOUR MIRRORS[n][J3]FOR MOTORCYCLES	CHECK YOUR MIRRORS FOR MOTORCYCLES	[J3]SINGLE ROADWAY 3 LEFT LANES BLOCKED[n][J3]AT VMS V	111111111111111 L2LHS c RHS Test 3

The CAT can provide automated VMS response

The CAT workstation software leverages Google Maps for the map layer, which allows the familiar Google functions such as search and Streetview to be utilized. The use of Google Maps allows the system to be deployed anywhere in the world with minimal setup and database population requirements. CCTV cameras are integrated into the map display giving operators superior spatial awareness of the monitored area. Sensor information is collected, processed, and displayed through a web browser interface.

This allows trusted organizations with wireless access to see the same real-time information that the traffic control center
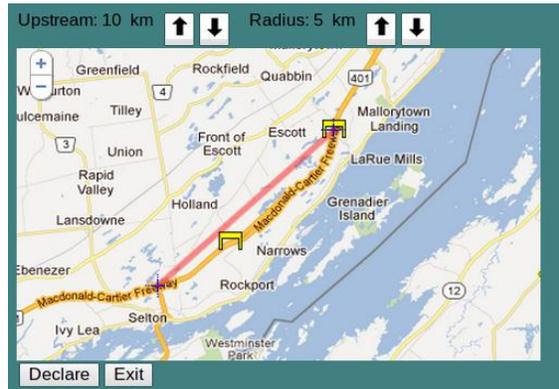
The CAT leverages Google Maps allowing familiar Google functions such as search and Streetview to be utilized

operators do. The CAT also integrates with existing ITS subsystems including those for Queue Warning, International Border Crossings and Dynamic Lane Management, providing a graphical user interface for those activities as well.

Logging and Event Handling

The CAT contains a communications log which logs all telephone, radio, email, and in-person communications into or out of the traffic operations center. Report generation is also possible. Highway events such as incidents and road work are logged according to highway crossings. Given the nature of the event, the CAT will identify the relevant signs and propose possible responses for the operator.

Rapid identification of portable VMS location and message display

Key Benefits:

The CAT improves ITS infrastructure and reduces traffic congestion by offering:

Complete software solution for real-time monitoring and displaying of DMS and PVMS

Increased real-time traffic monitoring

Help mitigate effect of natural disasters or threats by regulating traffic flow

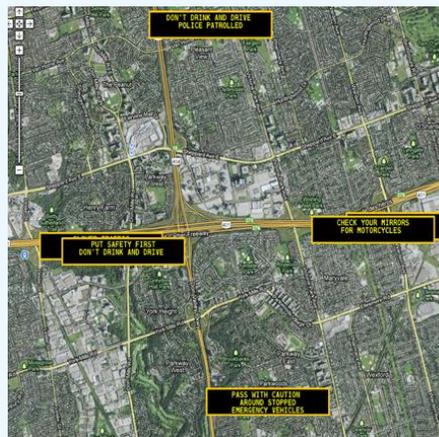**Real-time** incident detection for directing first responders

VMS provides drivers with real-time information updates

Web based interface allows access to real-time data to remote responders

Provides a lane management system for variable direction traffic

Contact Us

An ITS strategy helps a government move forward with intelligence. Contact Array to see how we can address your traffic congestion issues.

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