

Calgary's Traffic Management Centre A Step Towards Al and Machine Learning

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Next-Gen TMC (2015-2018)





Calgary's TMC

Purpose

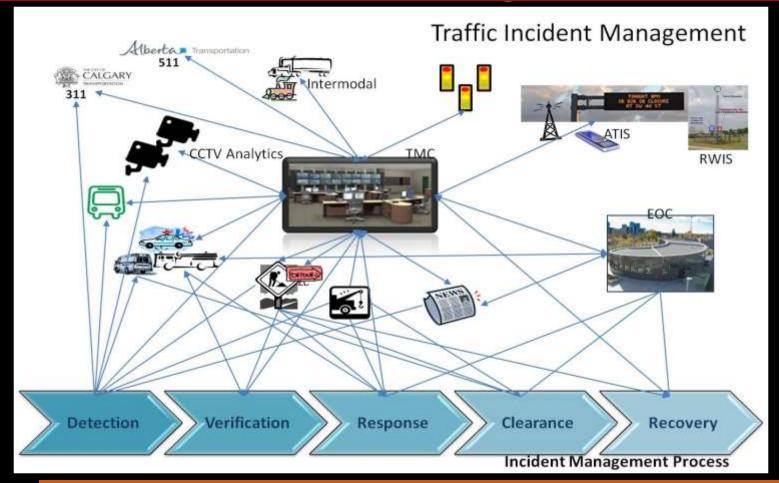
- > To have a centralized traffic management centre for Calgary to:
 - Manage and monitor traffic flow
 - Manage traffic incidents and resulting congestion
 - Provide Traveler information







Our Traffic Incident Management Process



Key to effective traffic incident management is the capability:

- to collect reliable and timely traffic information
- of real-time identification and verification of incidents





Incident Detection- 911 CAD Database

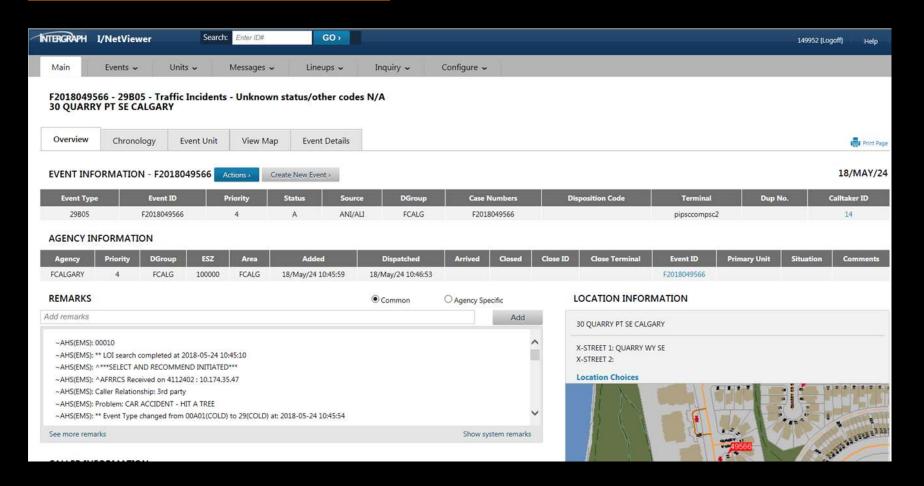
• Phone Call (2005-2011)





Incident Detection-911 CAD Database

iNETViewer (2012-2016)



Calgary



Twitter

Traveler Information

Traffic Advisory Radio 106.5 FM

ATIS Website





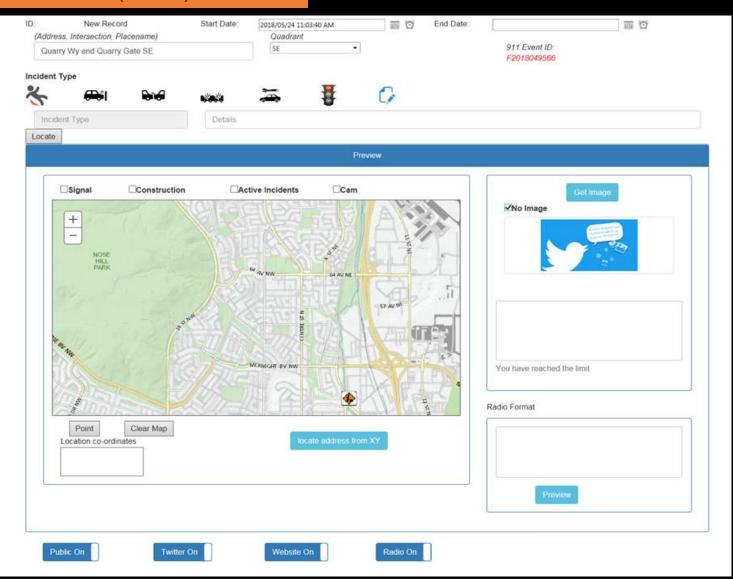
Dynamic Message Signs (DMS)





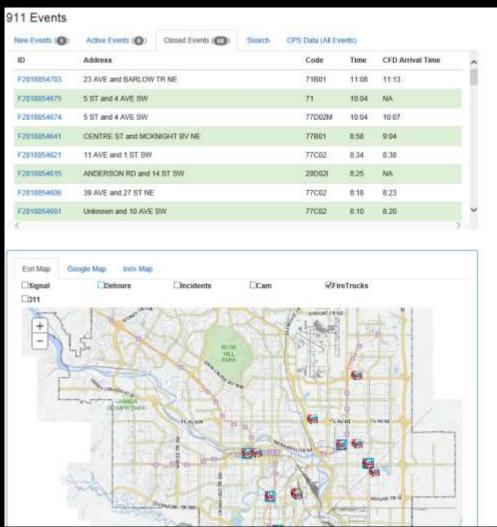
Single Incident Portal

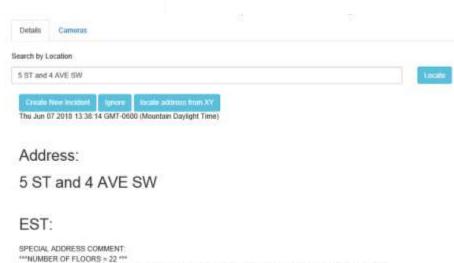
Direct Feed(2017)





311 And Fire Truck location Integration





BUS CITY OF CALGARY 911 4032969199 CALGARY POLICE 4032969197 AHS METRO CALGARY 1 4037779740

Problem: CAR ACCIDENT - VEH ON FIRE

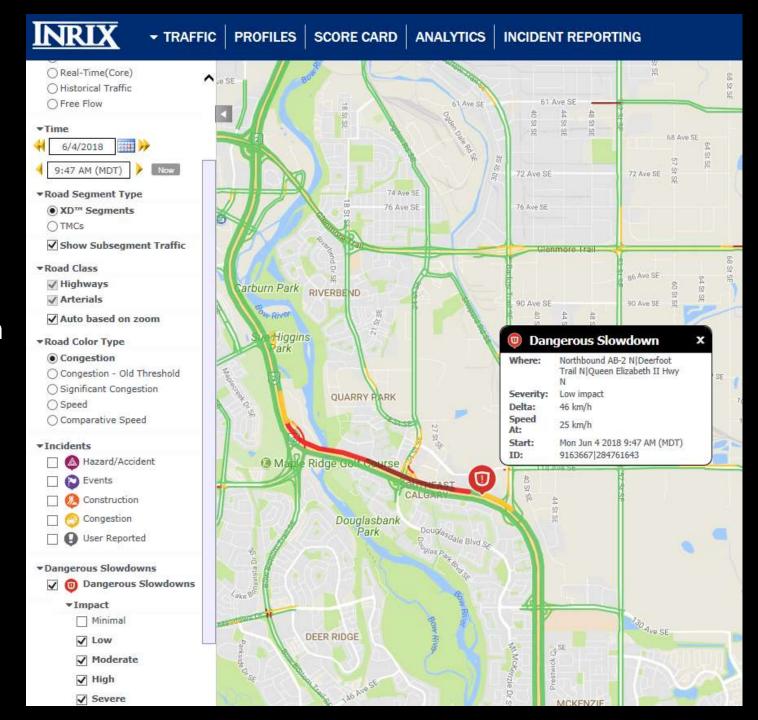
MVC - TRANSFERRED CALLER TO EMS, CALLER ALSO STATED THERE IS 'A BIT OF A FIRE UNDER THE VEHICLE'





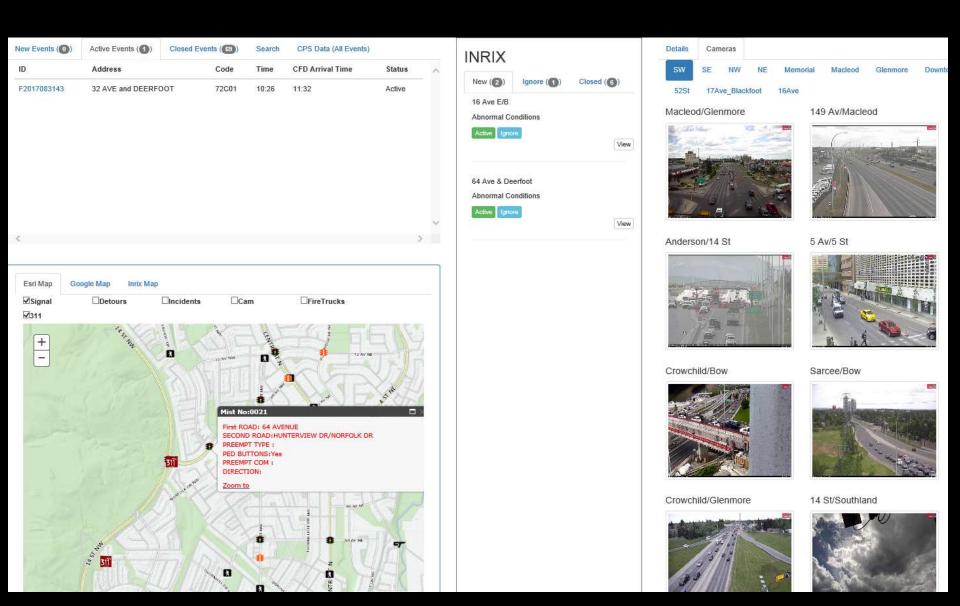
INRIX Data

Dangerous Slowdown API Integration



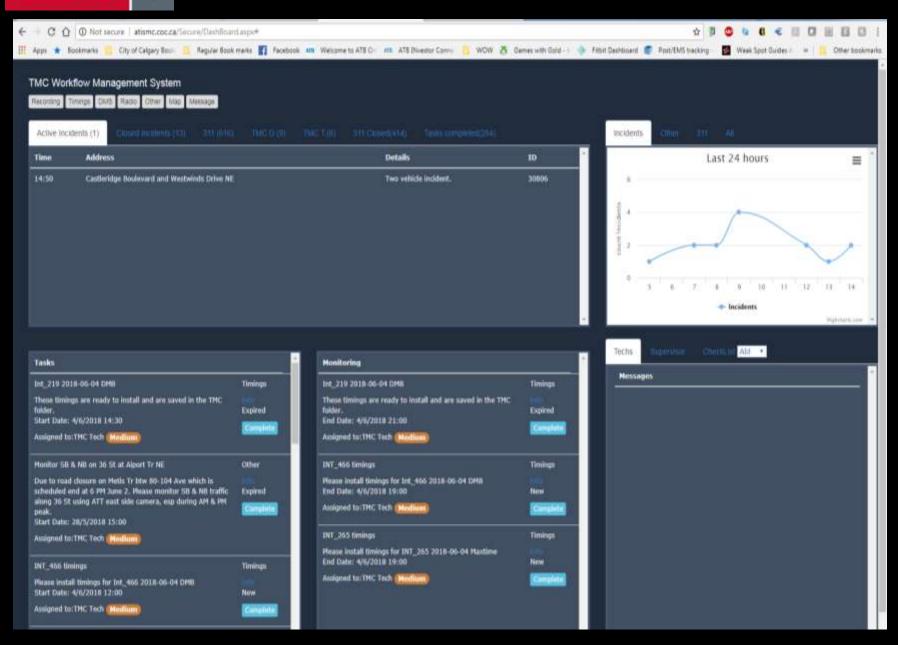


INRIX Data Integration





TMC Work Flow Management System





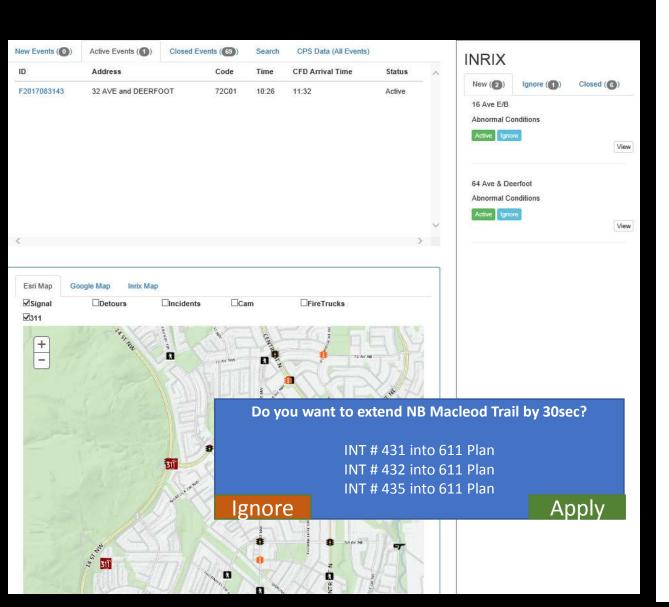
- ATIS Enhancement realized 80 % reduction in the Incident response time from TMC.
- Reduced potential for manual errors
- Automated process added huge efficiencies

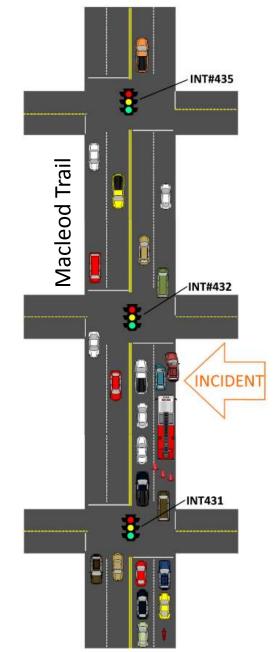
What is Next?



Automated Incident Plan

Activation







Thank You!