Regional Transportation Management Centre

June 2014

Proof of Concept: 2010 Winter Olympics

Funding Partners:

Transportation Partners:

Municipalities	Agencies	Media
17+	27+	6+

Traffic congestion and incidents ↔ Regional data sharing and integration ↔ Coordinated Response during Emergency Events

Vision

The recognized authority on event and incident response, information and communication related to British Columbia's major transportation corridors.

Mission

To monitor and facilitate timely and accurate response, information and communication related to all events and incidents impacting Lower Mainland's major transportation corridors and all Provincial highway infrastructures.

Values

Safe and Reliable Transport Routes

Timely and Relevant Information that is 100% Accurate

Seamless flow of Information and Communication

Protecting Interests of Transportation Partners

Efficiency and Innovation in ITS

Jurisdiction: Province of British Columbia

- British Columbia population concentrated to SW Corner of Province
  - Close to 50% of Provincial Pop.
- Driver Population (licensed)
  - 3,108,000 drivers
  - 2,048,000 passenger vehicles
  - 675,000 commercial vehicles
- Road Network
  - Provincially
    - 47,519 road km's and 2,767 bridges
  - Lower Mainland
    - 3,462 road km's and 551 bridges

Location: 1500 Woolridge St., Coquitlam, BC

between Hwy 1 and Hwy 7

RTMC Project Components

1. RTMC Building (TMC)
2. RTMC Control Centre
3. Advanced Traffic Management System (ATMS)
4. Fibre Optic Network Expansion

1. RTMC Building

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2. RTMC Control Centre

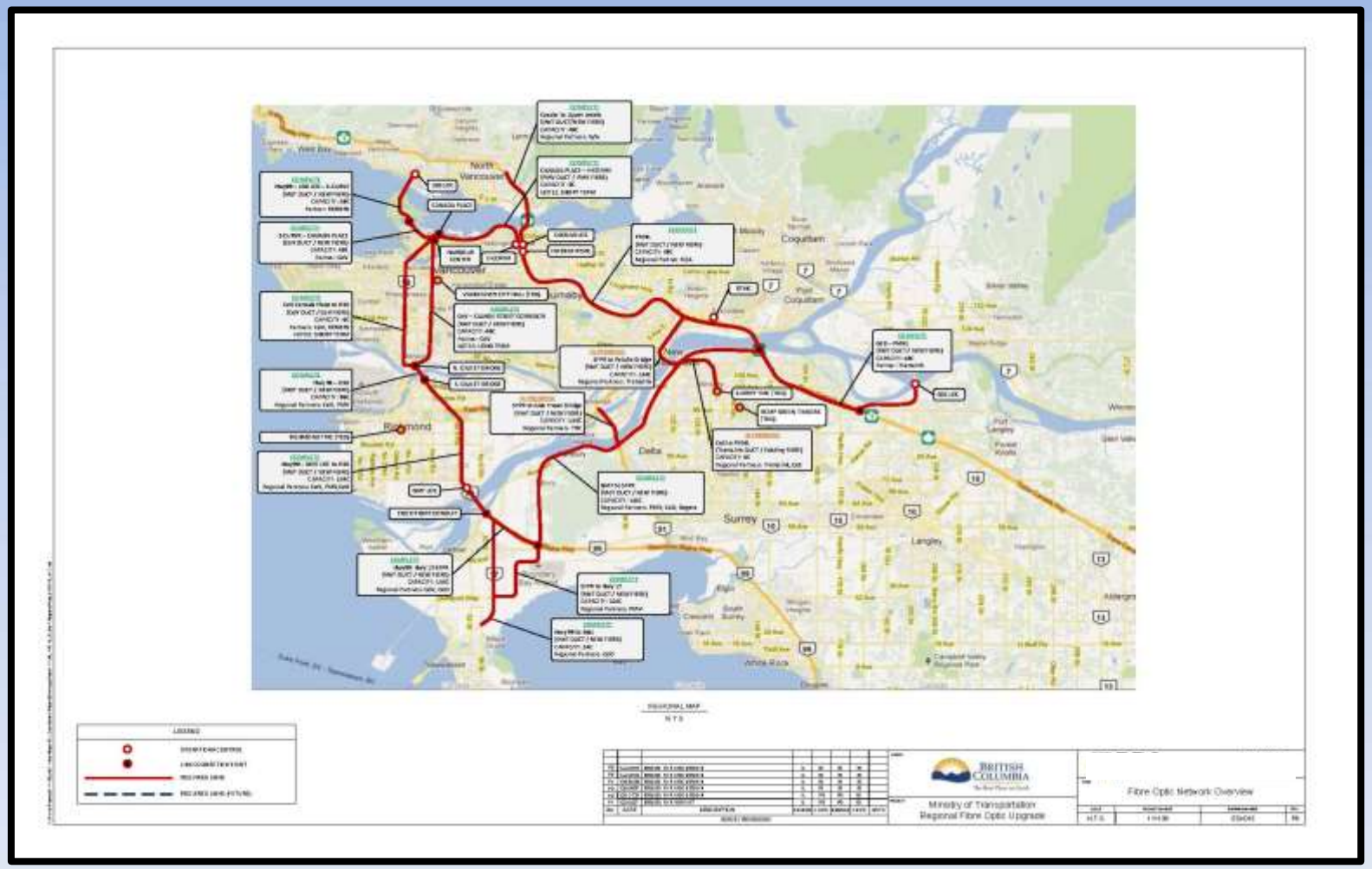
3. ATMS operation of legacy Lane Control Systems

3. ATMS includes Event Management

3. ATMS Summary

- Integration of cameras, DMSs advanced traveller information system, seismic warning systems, and Lane Control Systems.
- RFP specification based on experiences from other TMCs.
- PRIME 911 feed.
- Highway and Major Road Network.
- Multi-Agency Coordination.

4. Fibre Optic Network Expansion

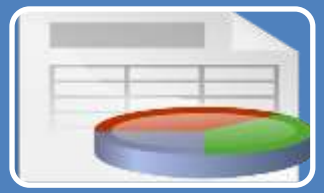


Project Approach

3 Separate contracts were awarded for the RTMC Project.

Project budget was $11.6M.

Project Completion is March 2015.



Risk Matrix was implemented to track and manage risk.

Lesson's Learned: Successes

Cost Savings

- Significant cost savings through partnerships with other Public Agencies.
- Savings through competitive bids for fibre-optic installations.

Cooperation with Partners

- Direct connections with PRIME, municipal TMC's, Port Metro Vancouver and other agencies .

Purpose Built Facility

- RTMC Team worked with the architect to ensure facility met needs.
- Dedicated RTMC server room.

Future Expansion

- Provisions were made for future expansion of control centre, server room and future partnerships.

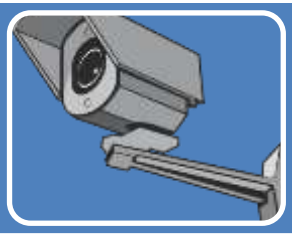
Lesson's Learned: Challenges

Schedule Delays

- Testing and implementation of custom software took longer than anticipated.

Negotiating Agreements

- Some agreements took up to 18 months to finalize.
- Significant legal and insurance delays.



Integration with Legacy Systems

- Legacy equipment is between 20 and 50 years old.
- Not all existing field devices are NTCIP compliant.

Staffing the RTMC

- Ministry staff and contractors are working side by side in the same facility.

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Thank You