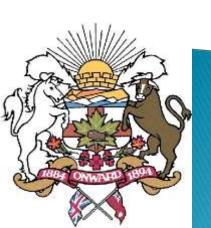
Connecting Calgary Drivers with Real-time Travel Time Information



Overview

- Freeway Travel time
- Arterial Travel time using portable Dynamic Message Signs(DMSs)
- Work Zone / Portable Travel time



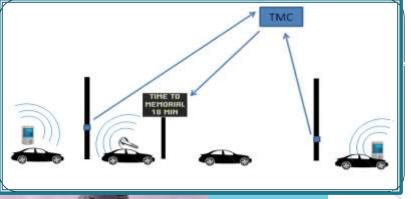
Purpose

- Improved ability for drivers to make informed route planning choices
- Decreased driver frustration
- Collection of transportation data for planning purposes

Pilot Project – 2010

- Pilot project using Bluetooth technology to display travel times for drivers
- 2 weeks-Manual process
- Very successful





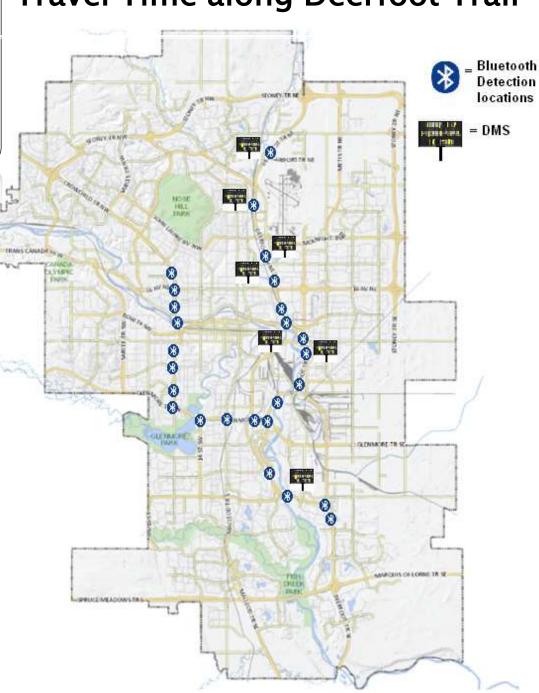
2012

Phase-I

- •Length -24 km
- •Detectors 15
- •DMSs—7
- •In house design, RFP for Bluetooth Detectors
- •Cost- \$200,000



Travel Time along Deerfoot Trail



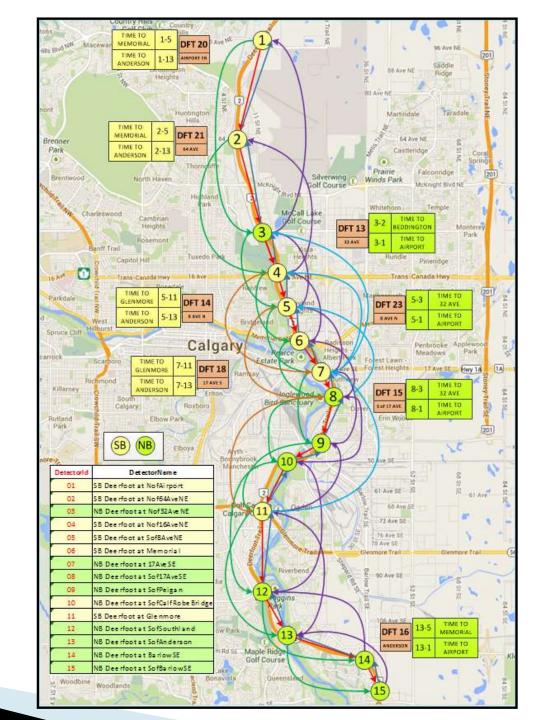






Deerfoot Trail Travel Time

- Detectors
- Links
- Routes



Travel Times along Crowchild Trail and Glenmore Trail



2014

<u>Phase-II</u>

- •Length -18 km
- •Detectors 11
- Portable DMSs—5
- •In house design, RFP for Bluetooth Detectors
- •Cost- \$100,000

Memorial Drive Work Zone Travel Time

2013

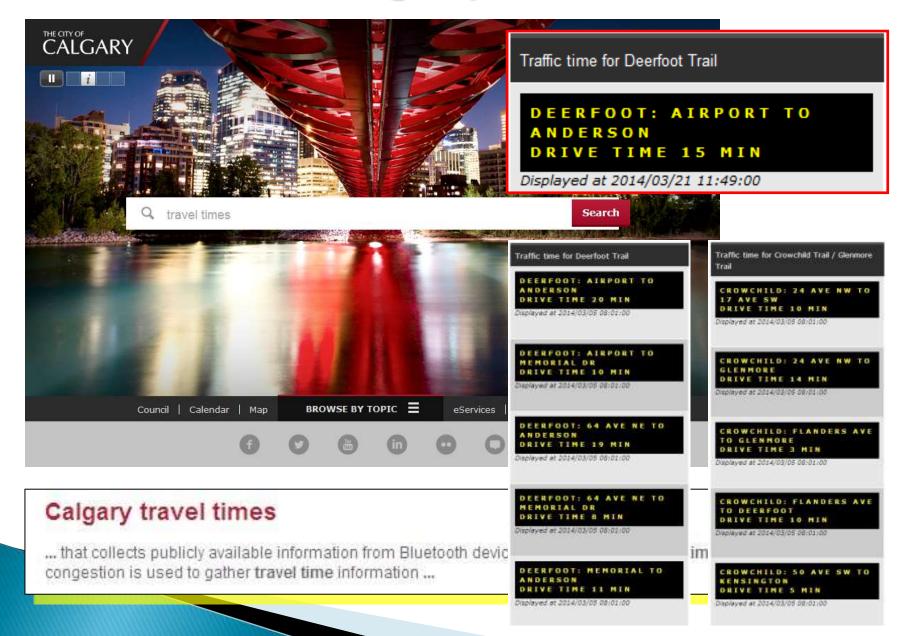
Duration -4 months
Travel Time Zone Length- 6km
Accuracy- within 1 min







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Challenges & Lessons Learned

- Cellular Modem
 - Communication
 - Connector
 - Vibration
- Solar Panel
- Location of Deployment
 - Permanent Power Source

- Relay to keep connection alive
- anti-oxidant joint compound
- mod-wired, model, vendor

Questions

