EMME User Group Meeting

Latest RTM Release

TransLink's Forecasting Group
October, 2018

TRANS LINK

Where are we now?

RTM 3.1
- Tolls removed
- New infrastructure projects
- Network updates
- New tools

RTM 3.2
- New land-use years
- Network updates
- Documentation

RTM 3.0 released!

March 2017

Dec 2017

Aug 2018

We are here!

TRANS LINK

LAND-USE

New Horizon Years

- Years
  - 2011
  - 2016 (New Base)
  - 2035
  - 2050

- Land-use is interim
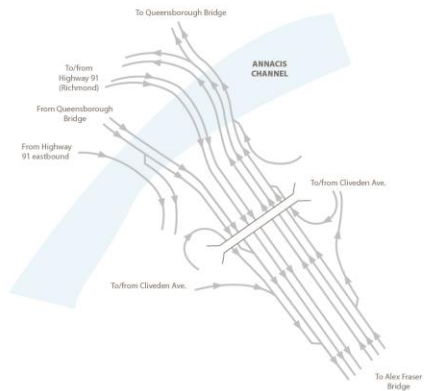 - Updated figures expected in early 2019

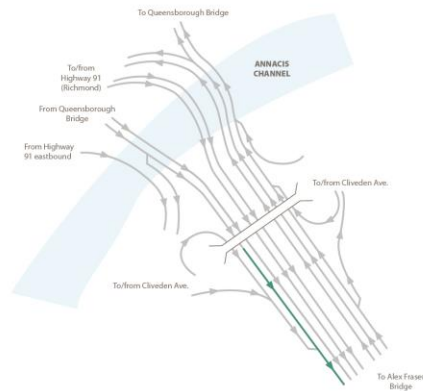**TRANS LINK**
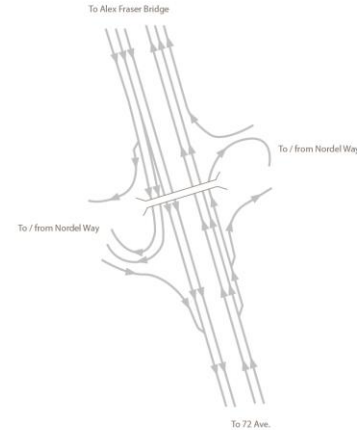
NEW ROAD AND TRANSIT PROJECTS

Pattullo

Source: https://engage.gov.bc.ca/app/uploads/sites/331/2018/05/Business-Case.pdf

TRANS LINK

Alex Fraser Counter-flow

https://www2.gov.bc.ca/gov/content/transportation/transportation-infrastructure/projects/alex-fraser-bridge/design

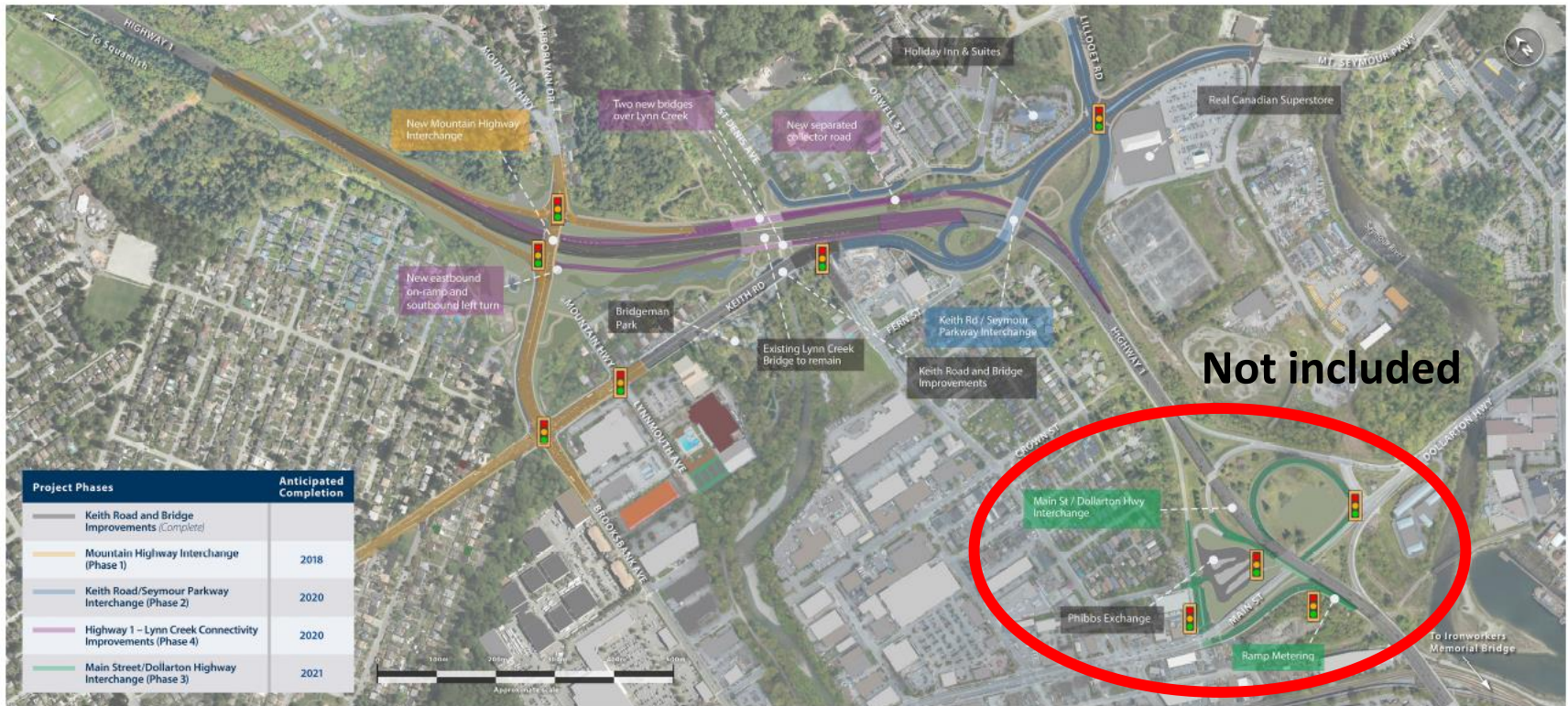# Highway 1 Lower Lynn

Not included

Project Phases	Anticipated Completion
Keith Road and Bridge Improvements *(Complete)*	
Mountain Highway Interchange (Phase 1)	2018
Keith Road/Seymour Parkway Interchange (Phase 2)	2020
Highway 1 – Lynn Creek Connectivity Improvements (Phase 4)	2020
Main Street/Dollarton Highway Interchange (Phase 3)	2021

TRANS LINK
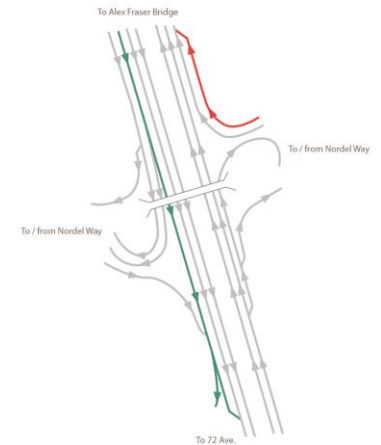
Road projects not included/unchanged

- Not included:
  - Highway 1 widening beyond 216th
  - Sundbury Interchange
  - Phase 3 Lower-Lynn improvements
  - Brunette interchange
- Unchanged
  - 10-lane Massey
  - Georgia Viaduct

**TRANS LINK**

Transit Projects

- No major updates to transit
  - Still includes LRTs in Surrey and Millennium Line Broadway Extension
  - B-Lines as per Phase 2 Investment Plan
- Updated capacities of skytrain and future LRT as per TransLink current skytrain (e.g. Mark III) car fleet and future purchase plans.

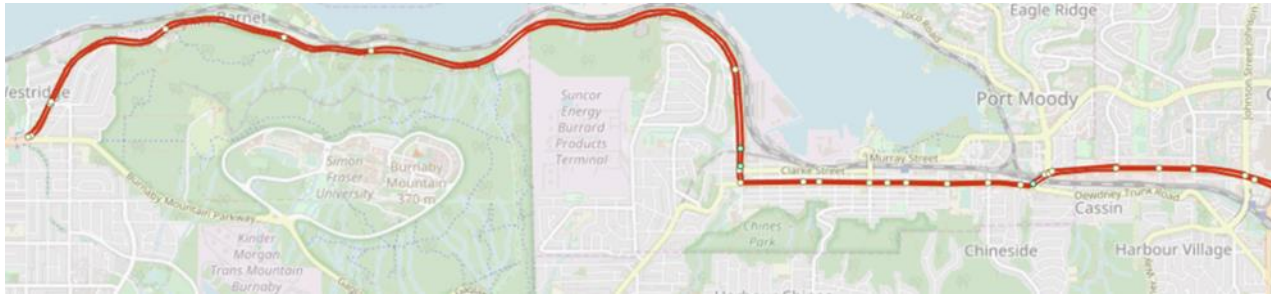**TRANS LINK**

NETWORK CODING FIXES

Road Network Fixes

- Mostly changes to volume-delay-functions based on validation using Google travel time data

- Localized fixes:
  - Turn movements
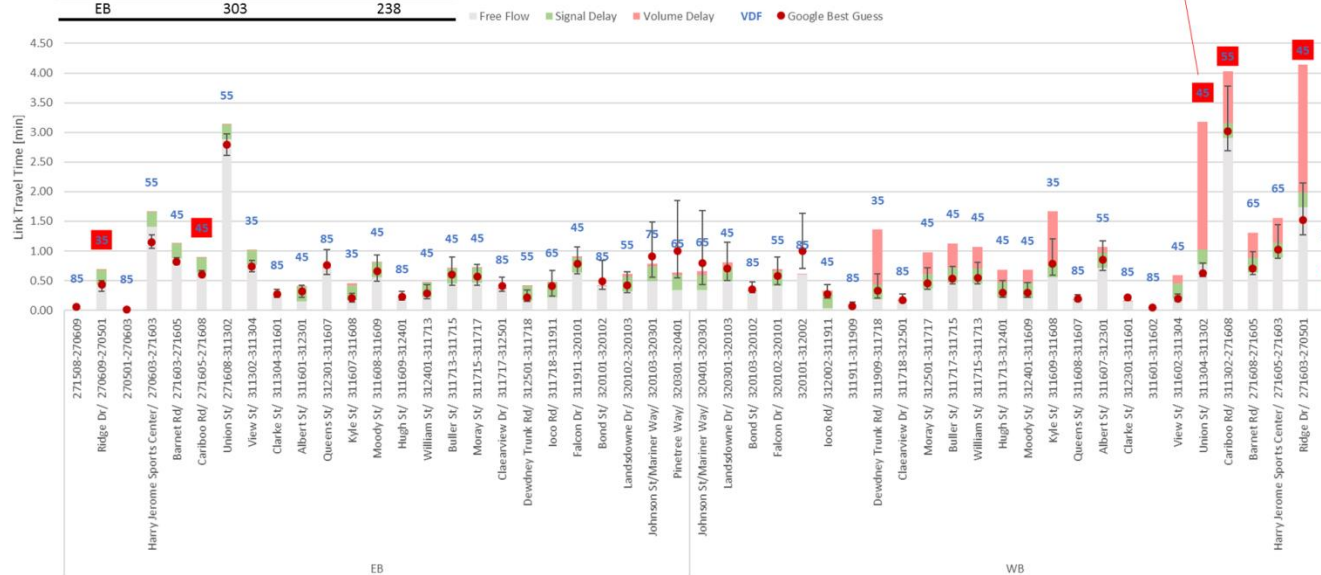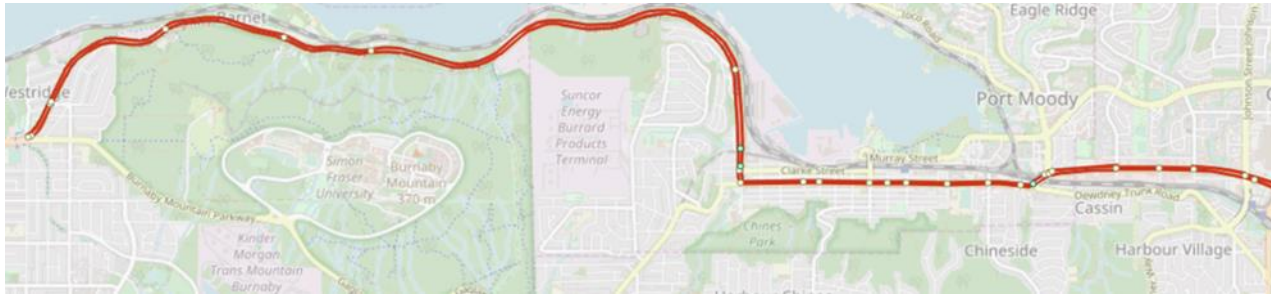 - Posted speeds

Example: Barnett Highway

Barnet Highway Travel Time [min]

Example: Barnett Highway

Example: Barnett Highway
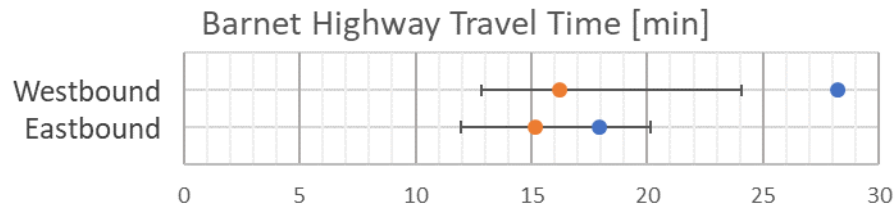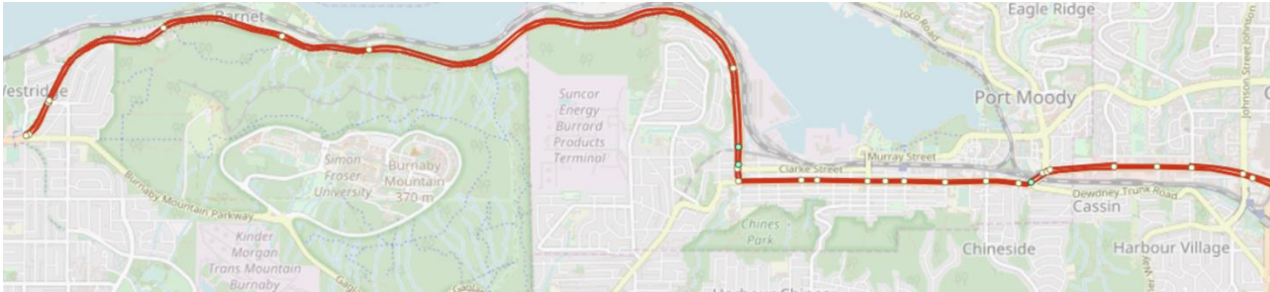
Barnet Highway Travel Time [min]

Alternative 5

Volume	COUNT	EMME
WB	1971	1902
EB	303	296

EMME Link Travel Time

Free Flow ■ Signal Delay ■ Volume Delay **VDF** ● Google Best Guess

upgrade capacity by another 200*lanes

Assume 2-lane GP

TRANS LINK
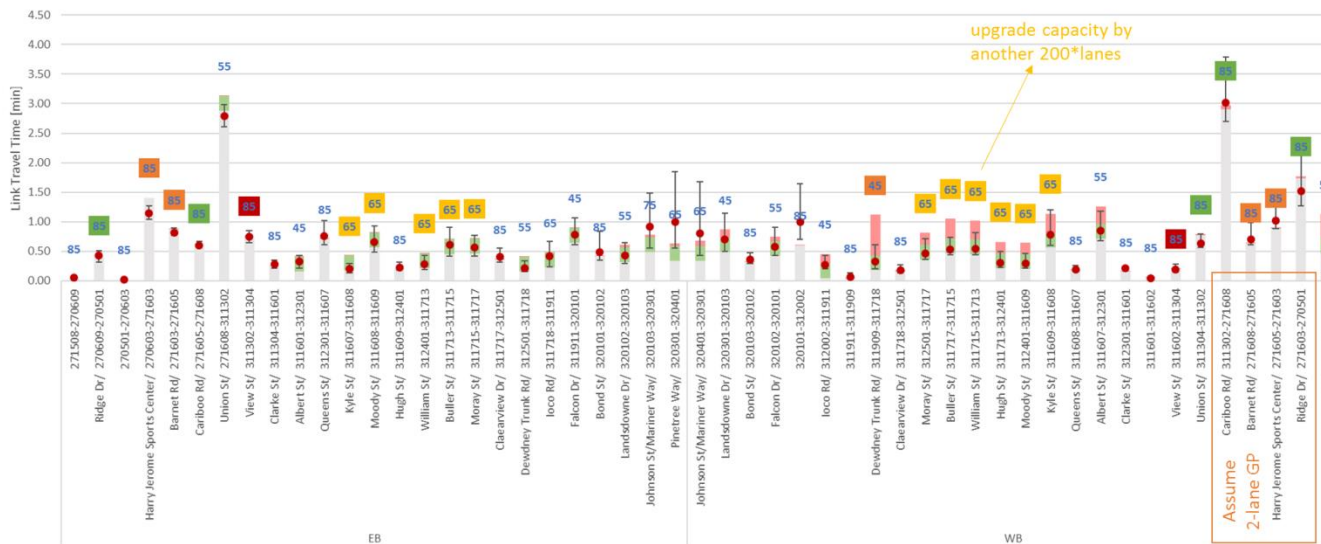
Other Locations

- Highway 1
- Highway 91
- Highway 99
- Coquitlam

TRANS LINK

Transit Network Fixes

- Reduction of transit speeds by 10%
- Fixing some transit itineraries (e.g. Route # 22)

2011

2017

NEW FEATURES

New Features

- Option to generate:
  - Toll Skims
  - Distance skims

Transit Assignment Options

☑ Run Congested Transit Assignment

☑ Run Capacited Transit Assignment

Data Generation Options

☑ Run Parking Model
Parking model should be run unless parking scenarios are being tested

☑ Run toll assignment on final iteration

Number of processors on machine running model:
8
Should be less than or equal to processors on machine

► Run

MODEL DOCUMENTATION

Model Documentation

- Released with RTM 3.2 (Aug 2018)
- Draft Version

GREATER VANCOUVER REGIONAL TRAVEL MODEL

Development and Validation Report