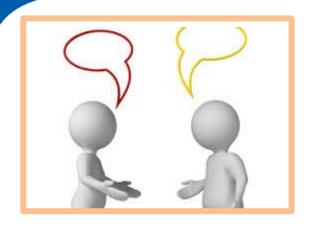


General Meeting Objectives



Share information about the RTM



Advance local modelling knowledge



Provide information about development plans



Strengthen the modelling community

Objectives of this Meeting



Update about regional surveys



Share information about current and future developments



Discuss experiences from RTM applications



Previous Development Phases

Original Model

AM Peak only

RTM Phase2

- 24h demand
- AM/MD assign

2015-2016





2011-2012





1990's-2011

RTM Phase1

- Improved AM peak assign
- TD'11

2013-2014

RTM Phase3

- TAZ & network
- AM/MD/PM
- MC in PA
- MC-Dist access



RTM Development 2017-2019

Phase 3.1*

 Updated infrastructure

- Network fixes

RTS Version*

- CAV
- TNCs

Fall 2019





Aug 2018





Dec 2017

Phase 3.2*

- New horizon years
- Network fixes
- Documentation

Spring 2019

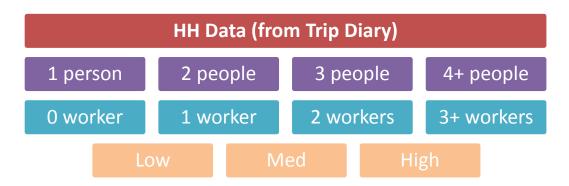
Phase 4

- PopulationSynthesis
- Service and visitor
 - TD' 2017



Population Synthesis Problem

Currently model is based on market segments



No information about household composition, ages etc.

This information could have benefited

- Auto ownership
- Generation (by purpose)



Population Synthesis Solution

New model is based on population synthesis

Household	Person	Income	Location	Age	Gender	Worker Status	Student Status
1	1	Low	13540	42	М	FT	nonstudent
1	2	Low	13540	41	F	FT	nonstudent
1	3	Low	13540	10	М	nonworker	Student
1	4	Low	13540	8	М	nonworker	Student
2	1	Medium	43250	32	М	FT	nonstudent
2	2	Medium	43250	29	F	PT	Student
3	1	High	32410	27	F	FT	nonstudent

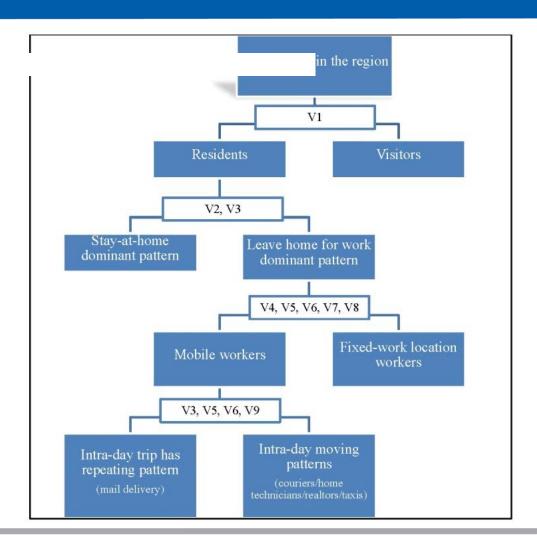


Service and Visitor Trips Problem



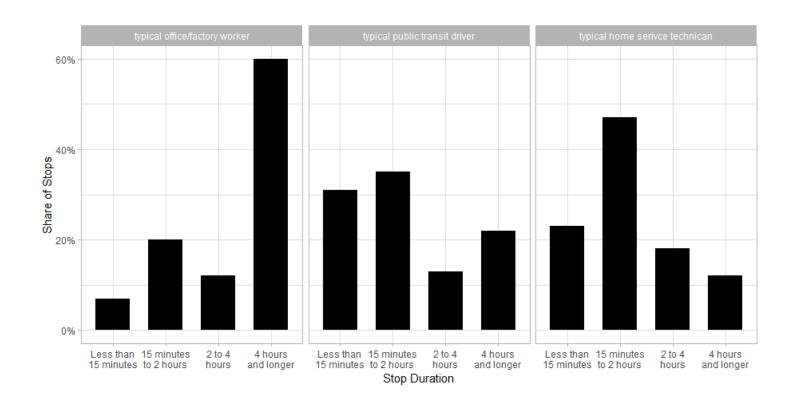


Service and Visitor Trips Solution





Service and Visitor Trips Solution





Trip Diary





27,000 Households

Additional information

Household – composition, tenure type, vehicle details

Person – occupation, car-share program membership

Trip – Route level information

Auto - regional bridges crossed

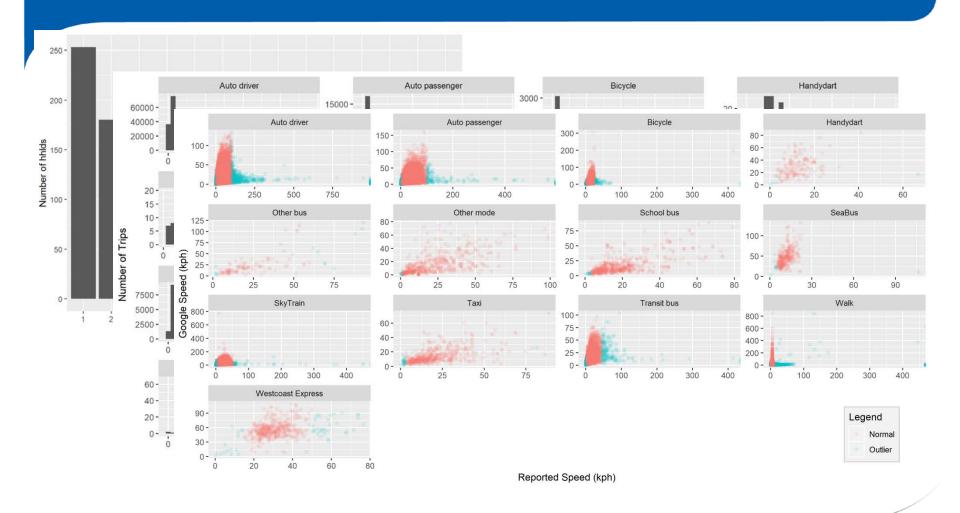
Rapid Transit – access & egress stations

Bus – route(s)

Auto Drivers - parking cost, vehicle used

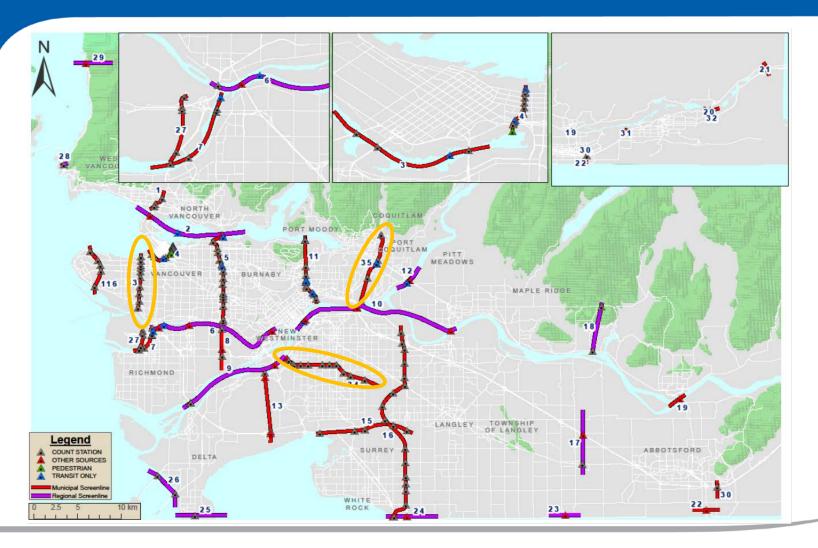


Trip Diary Cleaning





Screenline Survey





RTM Application Projects

Infrastructure Decisions

- Beyond Arbutus
- Surrey rapid transit
- Massey replacement
- SFU gondola
- Pattullo replacement

- North Surrey Connections
- Coquitlam River Bridge
- Streetcar feasibility
- Traffic analyses on HWY 1 & HWY 91

Region-wide Policies

- Toll removal
- Mobility pricing*
- Fare strategy*
- Regional Transportation Strategy (RTS)
- MRN study

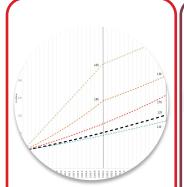
Local Plans and Analysis

- INSTP
- Sub-regional models
 - Surrey
 - Vancouver
 - Coquitlam
- Municipality/Town Centres/ neighbourhood area plans



Looking Forward

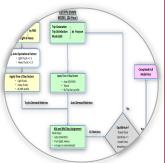
An ambitious development programme...



Functions

- Review and update VDFs
- Review and update TTFs





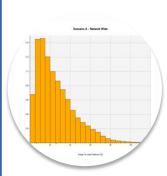
Sub Models

- Full P&R
- Full Transit Crowding
- Full TruckModel (Integration



Networks

- Improved Adjustment



Econometric Models

• Auto

- Ownership
- Distribution(
- Review and update VOT



Long Term...

- Land Use Integration
- Tour Based







