

# BEYOND THE GTA

Lessons Learned from Small and Medium-Sized Urban Areas

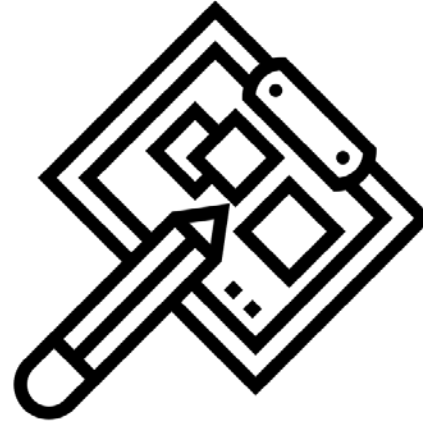
PRESENTED BY DAVID FORSEY

MAY 6, 2020

# The Four Phases of Model Development



Data Collection



Model Architecture



Model Estimation



Panic





**Is the estimation dataset compatible with the application dataset?**

# Estimation vs. Application

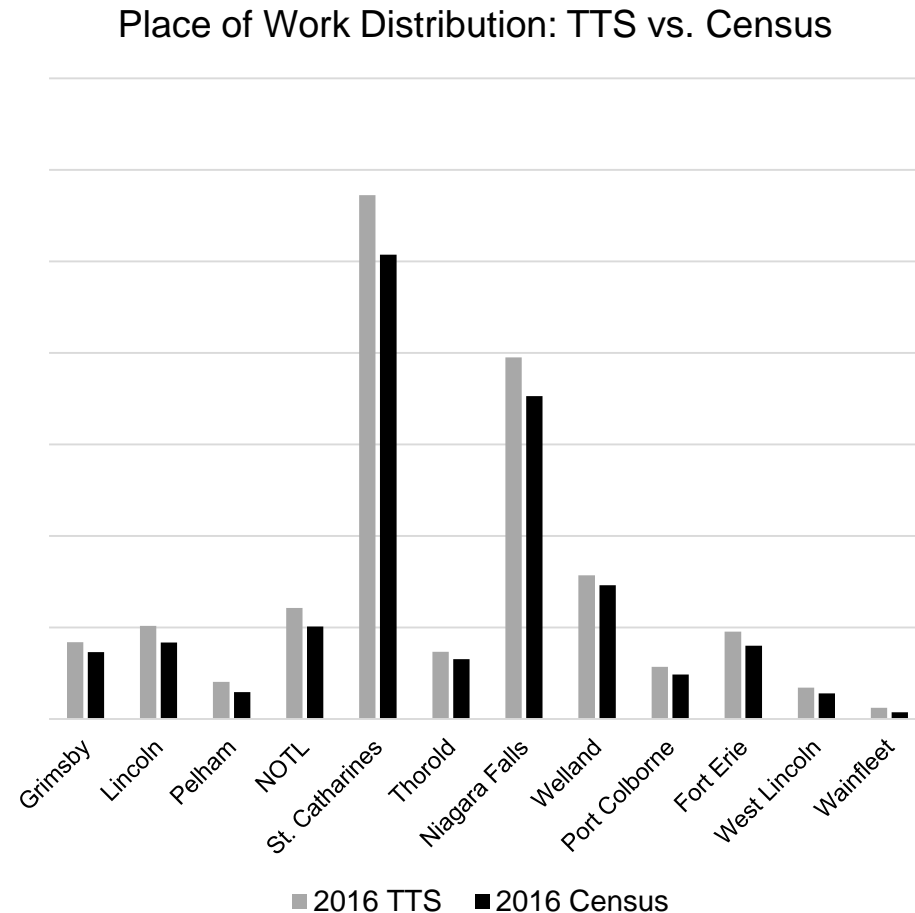
**Estimation:** Household travel survey

**Application:** Census

Survey expansion is never perfect

Potential solutions:

- **LOCAL SURVEY RE-EXPANSION**
- **CALIBRATE POTENTIAL BIAS**





**Are all critical travel markets being captured?**

# Critical Travel Markets

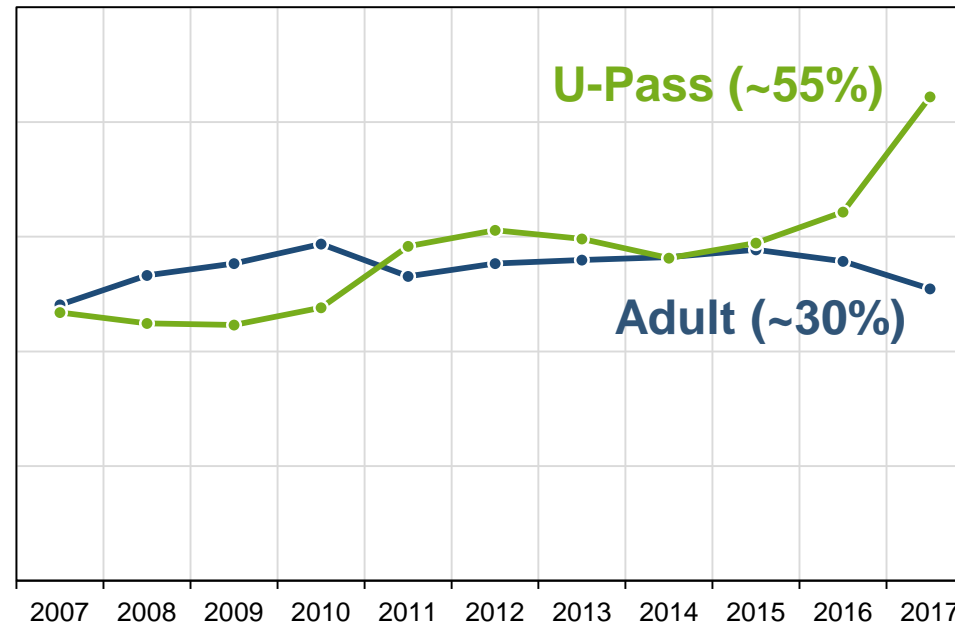
Not all trip-makers are captured by household travel surveys (or the Census)

Through travel; student travel

Potential solutions:

- **THIRD-PARTY DATA**
- **SATELLITE SURVEY**

Peterborough Transit Ridership by Fare Type





**What are the local travel “quirks”?**

# Travel Quirks

Best to capture quirks in architecture and estimation

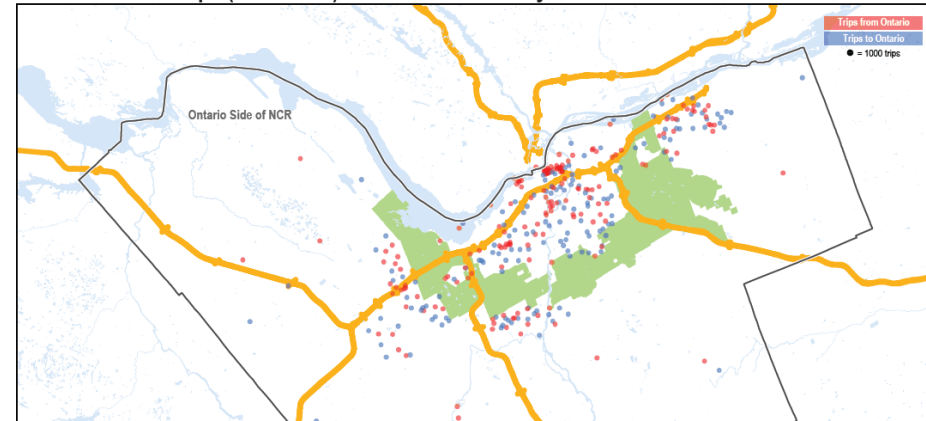
You have to know what you're looking for, so do your research!

Potential solutions:

- **DETERMINE “MOTIVATION” FOR QUIRK, AND MODEL IT!**

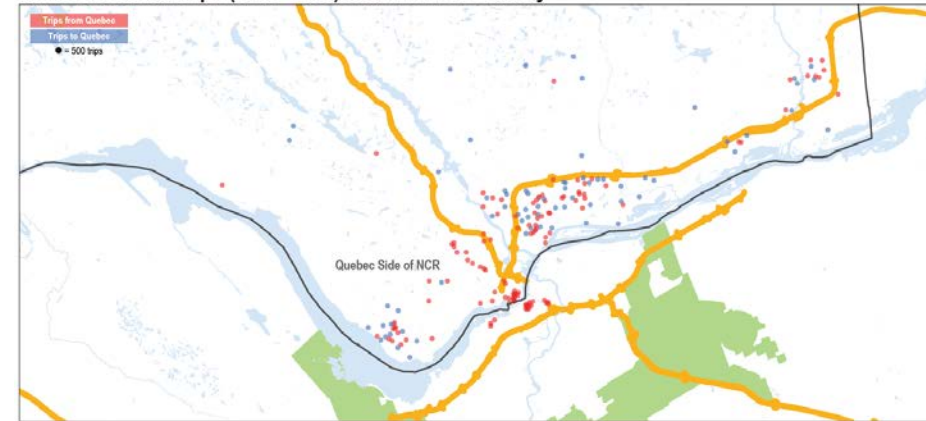
## Ontario Side of National Capital Region

AM Peak Period Trips (6:30 - 8:59) from 2011 OD Survey



## Quebec Side of National Capital Region

AM Peak Period Trips (6:30 - 8:59) from 2011 OD Survey





# Thank You!



Defining the cities  
of tomorrow

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## KEY CONTACT

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