SOCIAL INCLUSION IN THE GREATER TORONTO AREA?

DECEMBER 13, 2018
UTTRI TRANSPORTATION PODIUM – RESEARCH DAY

PROFESSOR STEVEN FARBER, DEPARTMENT OF HUMAN GEOGRAPHY

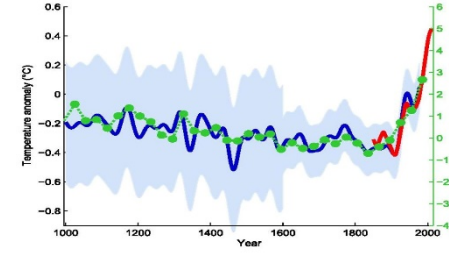UNIVERSITY OF TORONTO

BOUNDLESS

WHAT SHOULD TRANSPORT PLANNING FOCUS ON?
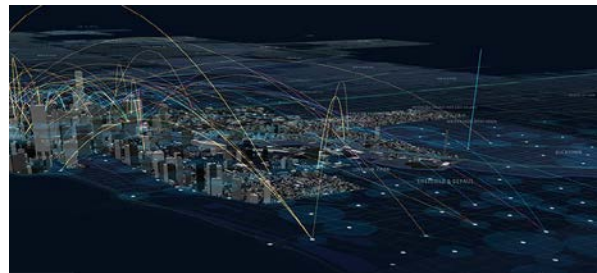

Network Efficiency
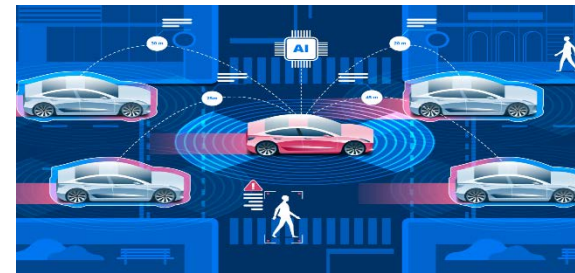

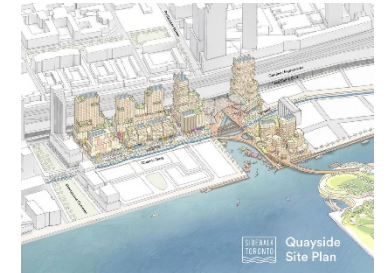Pollution and Health

Climate Change
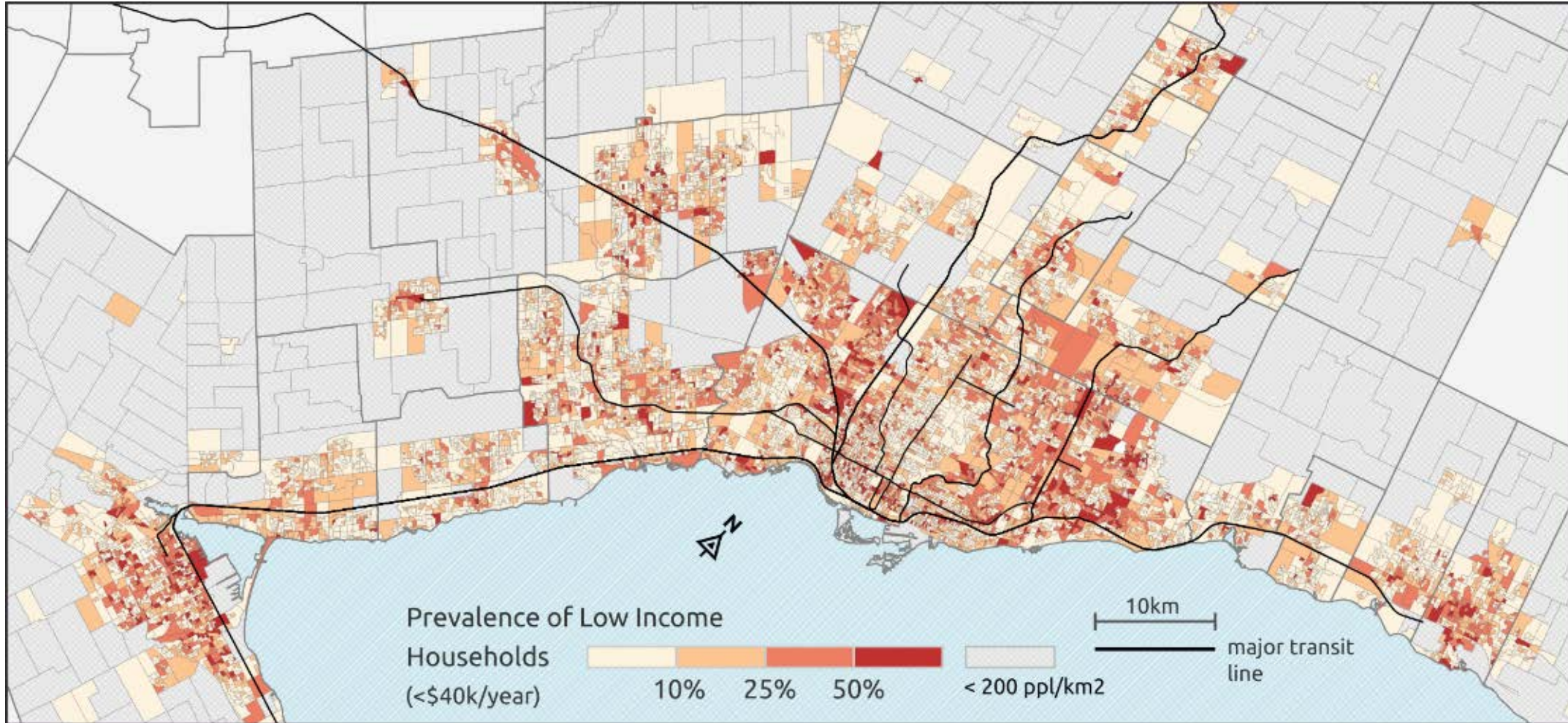

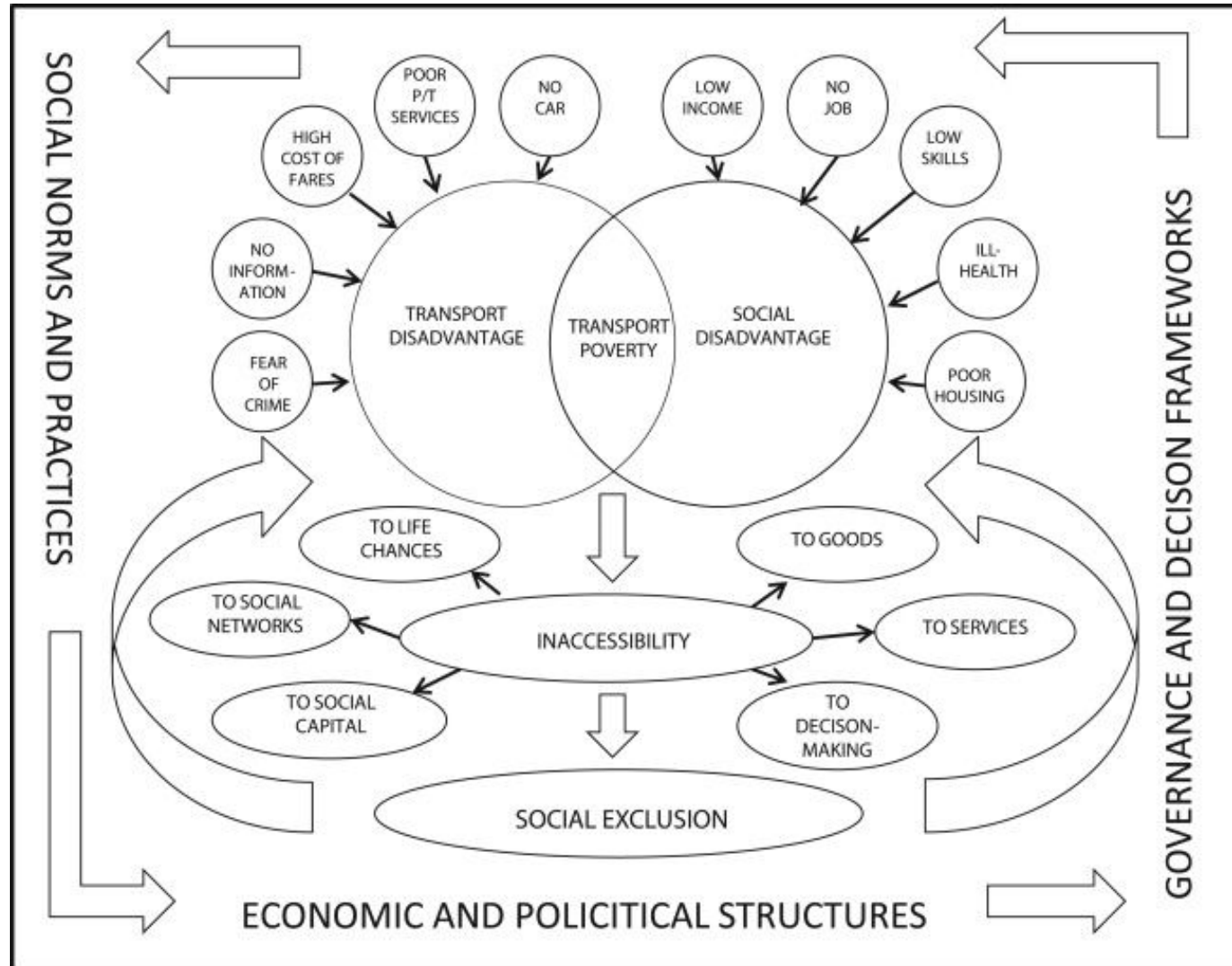Economic Productivity

Moving Freight

Big Data

Smart Mobility

Urban Development

UNIVERSITY OF TORONTO

BOUNDLESS

TRANSPORT JUSTICE AND EQUITABLE PARTICIPATION

Prevalence of Low Income Households (<$40k/year): 10% / 25% / 50% — < 200 ppl/km2

10km — major transit line

UNIVERSITY OF TORONTO

BOUNDLESS

TRANSPORT AND SOCIAL EXCLUSION

Lucas, K. (2012). Transport and social exclusion: Where are we now?. *Transport policy*, *20*, 105-113.
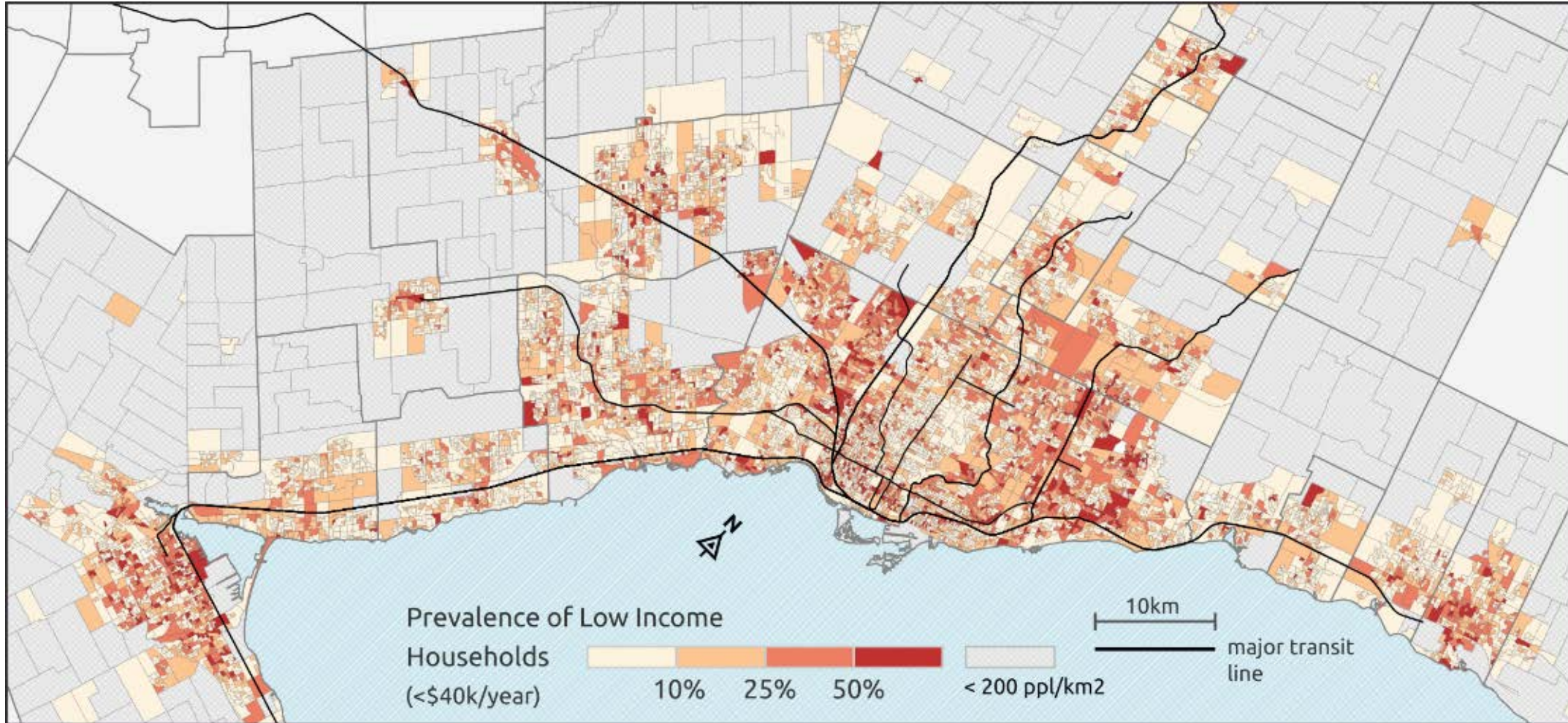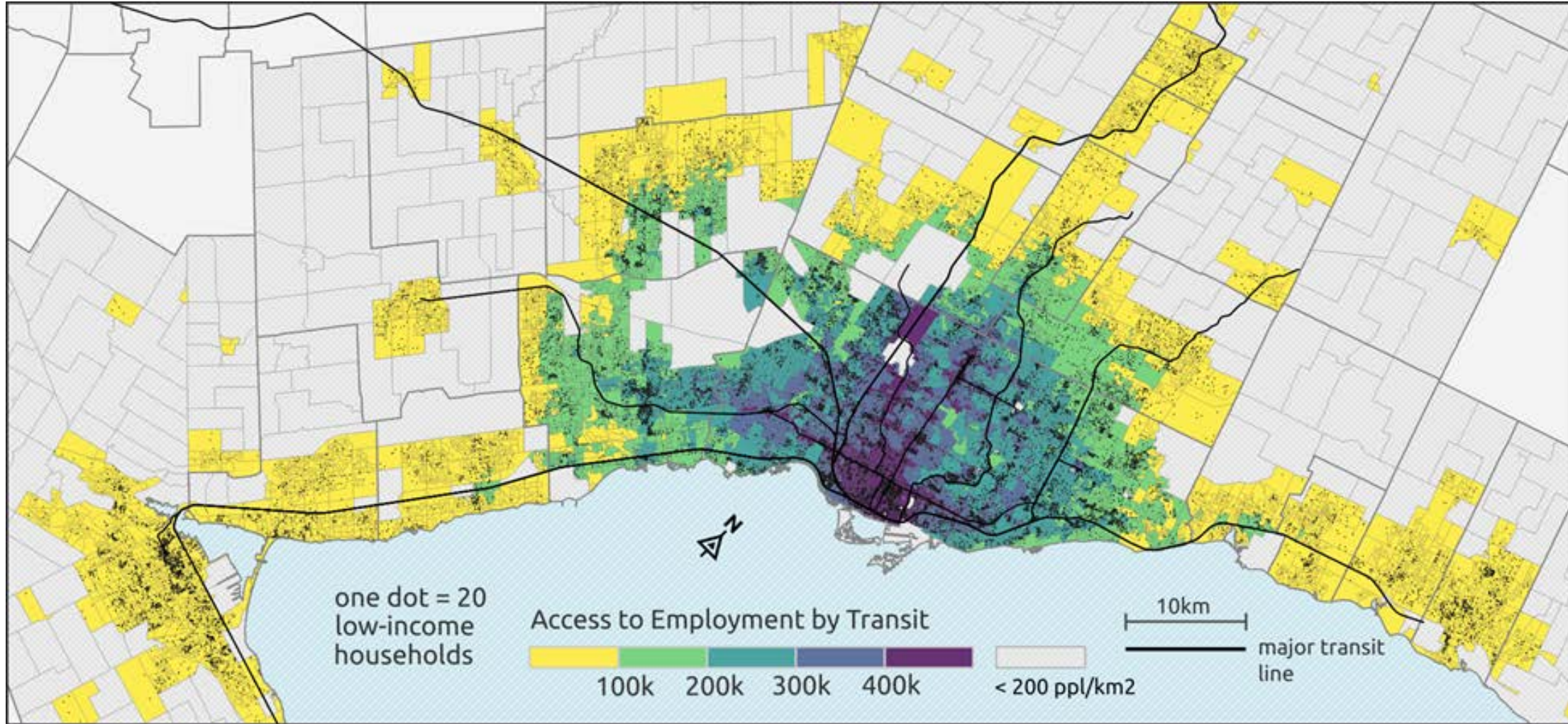
PLANNING FOR TRANSIT EQUITY IN THE GTHA

Quantifying the Accessibility-
Activity Participation Relationship
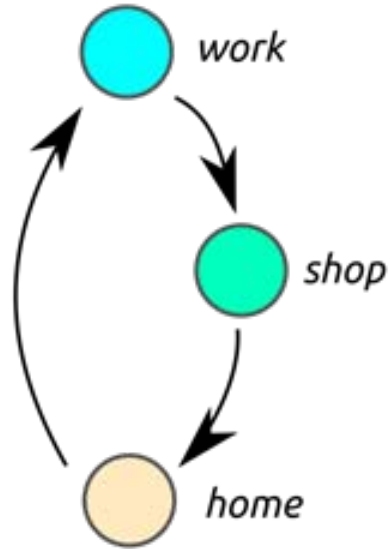for Low-Income Households

LOW INCOME HOUSEHOLDS

Prevalence of Low Income Households (<$40k/year)

10%   25%   50%

< 200 ppl/km2

10km

major transit line

ACCESS TO EMPLOYMENT VIA TRANSIT

one dot = 20 low-income households

Access to Employment by Transit

100k 200k 300k 400k   < 200 ppl/km2
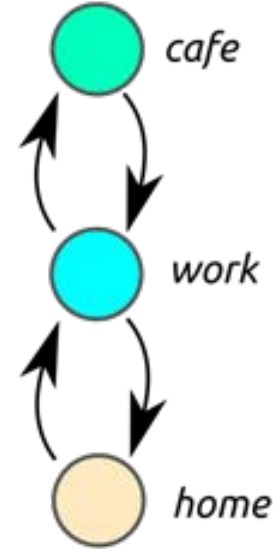
10km

— major transit line

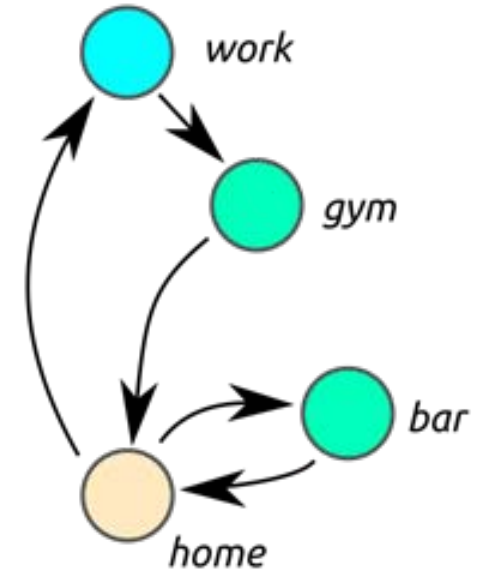# QUANTIFYING PARTICIPATION USING THE TTS

2 trips
1 activity
0 discretionary activities
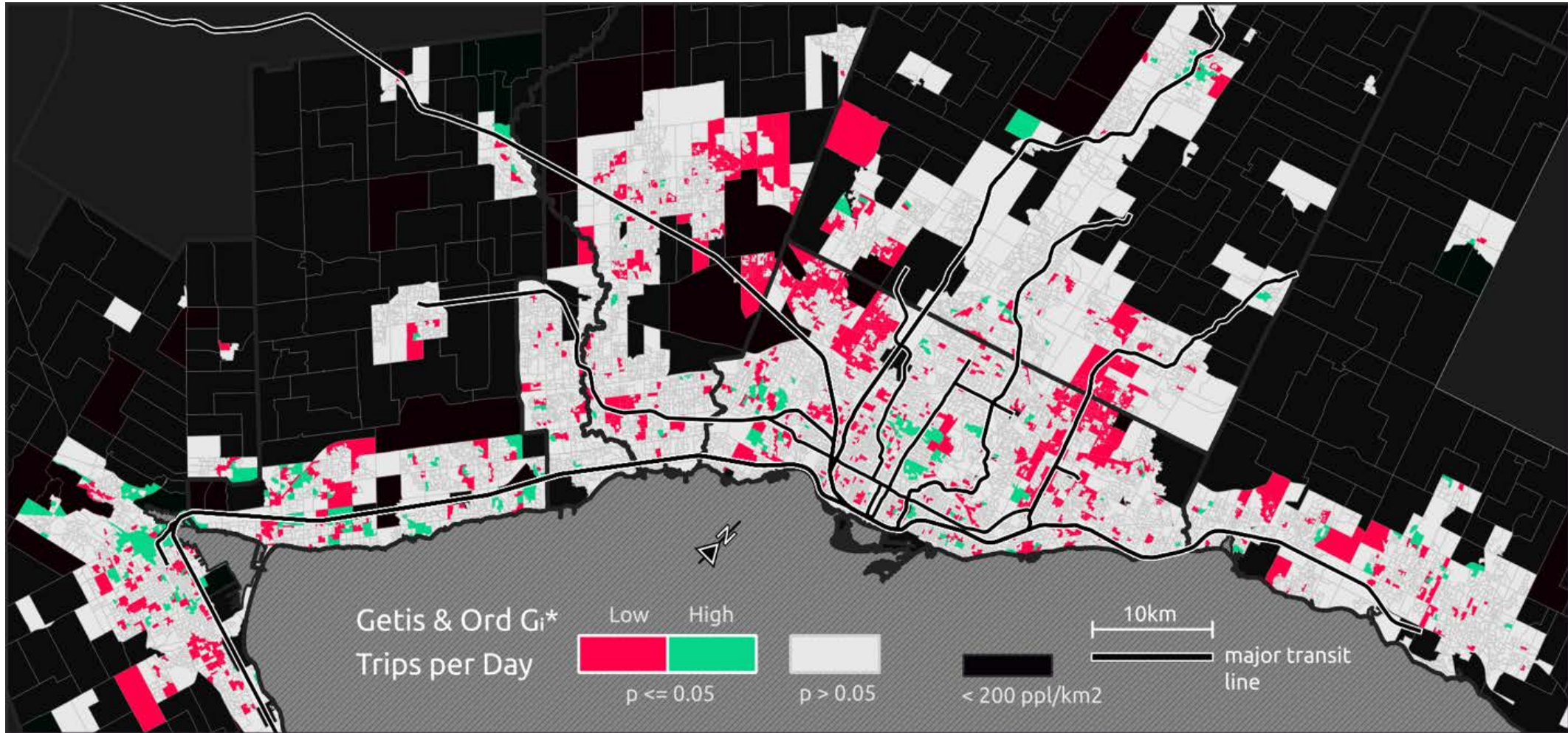
3 trips
2 activities
1 discretionary activity

4 trips
2 activities
1 discretionary activity

5 trips
3 activities
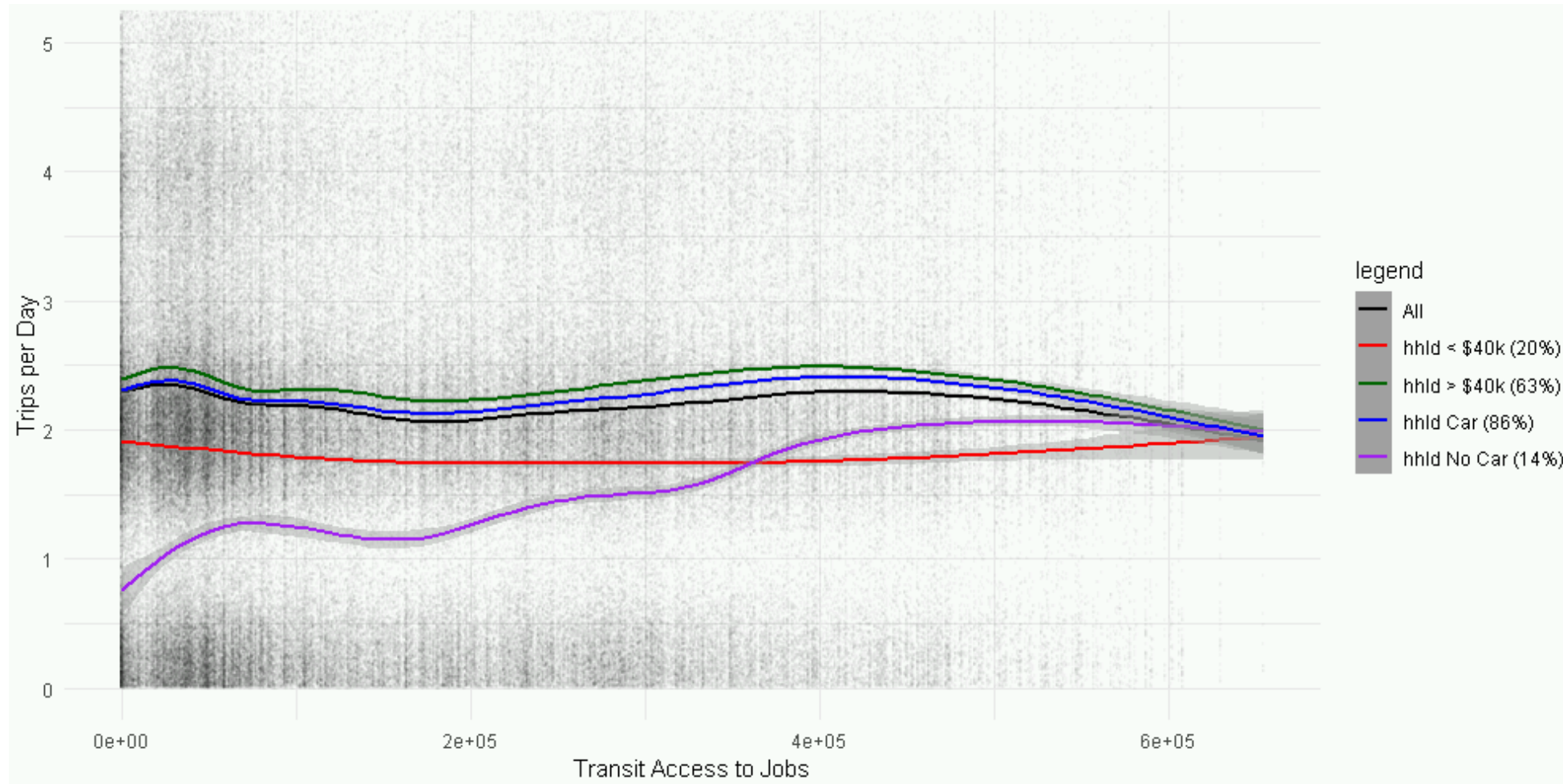2 discretionary activities

PARTICIPATION DESERTS IN THE GTHA

Getis & Ord Gi*
Trips per Day

Low — High
p <= 0.05
p > 0.05
< 200 ppl/km2

10km
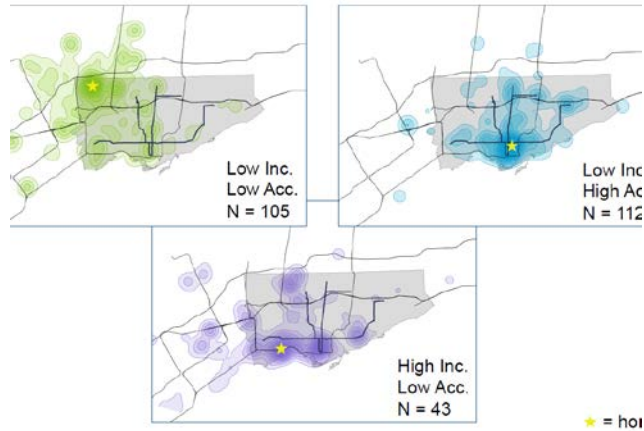major transit line

UNIVERSITY OF TORONTO

BOUNDLESS | 9

ACCESSIBILITY CLOSES THE PARTICIPATION GAP
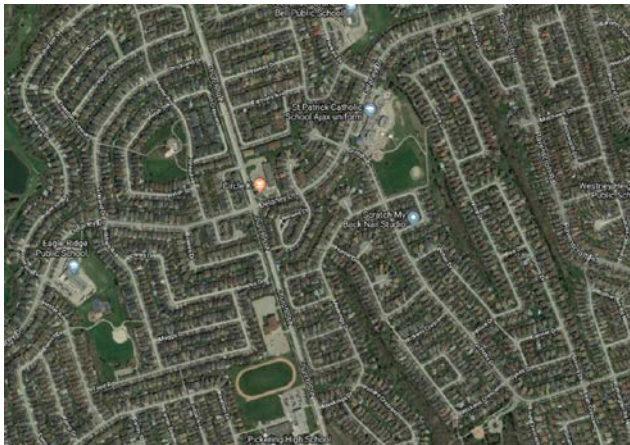
NEXT STEPS

- Determine the rate at which different types of people convert transit access into activity participation.

- Quantify the value of increasing activity participation.

- Use these findings with business-case analyses.

OTHER TRANSPORT AND SOCIAL EXCLUSION RESEARCH I
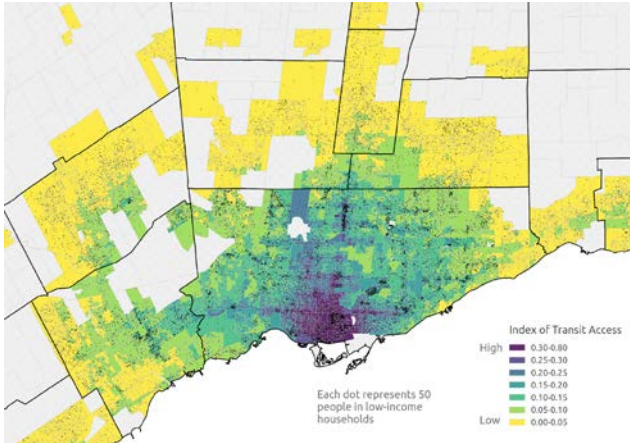

Itinerum: Toronto Towers

- **App-based collection of daily mobility**

- **Compares residents of high/low income and high/low accessibility neighbourhoods**

Refugees in Suburban Durham

- **Focus groups, surveys, GIS analysis**

- **Strong connections between transport and wellbeing**

UNIVERSITY OF TORONTO

BOUNDLESS

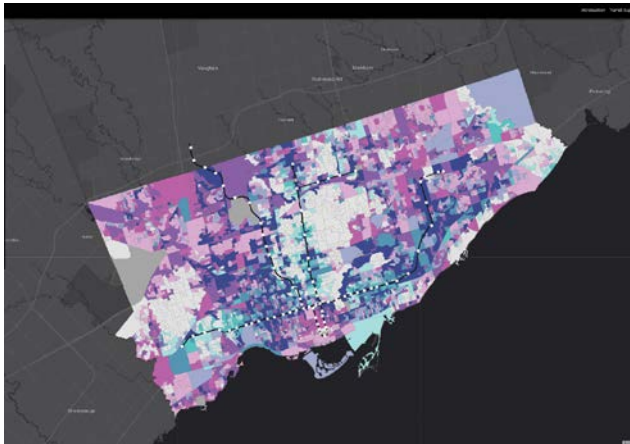# *OTHER* TRANSPORT AND SOCIAL EXCLUSION RESEARCH II

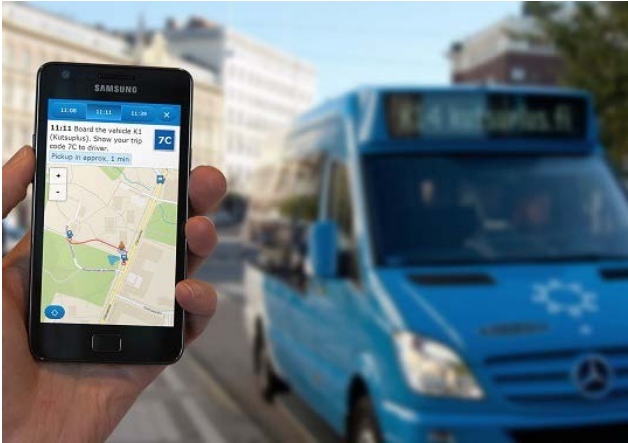

Transport Poverty Risk Across Canada

- **Nationwide index of transport poverty**

- **Typology of types of neighbourhoods at risk**

- 2.8M poor Canadians living with poor transit access, 1.2M in GTHA

Interactive Story Maps

- **Youth outreach**

- **Explores the geography of transit provision and socioeconomic status**

UNIVERSITY OF TORONTO

BOUNDLESS

PROSPECTIVE TRANSPORT AND SOCIAL EXCLUSION RESEARCH

Emerging Transit Technology Evaluation

- **On-demand transit pilot evaluation**

- **Ride-hailing equity analysis**

- **Reinvigorating transit performance measures**

Toronto's Fair Pass Discount Program Evaluation

- **Surveys, interviews, Presto**

- **Evaluate whether discount led to more activity participation**

ACKNOWLEDGEMENTS

- Students: Jeff Allen, Mischa Young, Nate Wessel

- Collaborators: Michael Widener, Zachary Patterson, Bruce Newbold, Anika Mifsud

- Partners: City of Toronto, ESRI, UTTRI

- Funders: SSHRC, IRCC, Metrolinx, Ontario Mir novation