$\mathbf{R} \boldsymbol{A}$ transportation RESEARCH AT MCGIL

## INTRODUCIION

The "15-Minute City" and "30-Minute City" concepts aim to
enable urbun residents to fulfil essential social functions (including living, working, commerce, healthcore, education ansport modes: walking, cycling, and/or public transit.

- The effects of household dynamics and travel behaviour are
understudied in debates on how to achieve $x$-minute cities.

Who is currently living a 15 - and/or 30 -minute city lifestyle in
a North American context?

## METHODS

We conceptualize the $x$-minute city at the household level. A - do not surpass the respective travel-time threshold - do not surpass the respective travel-time threshold

- only use active modes (walking, cycling, or public transit)
- Data: The 2018 Montréal Origin-Destination (O-D) survey Sample:
$\sim 22,000$ households $\sim 90,000$ trips
- R5R travel time routing was used for each home-destination pair, and was supported by OpenStreetMap (OSN
and General Transit Specification (GTFS) data.
Two sets ofbinarylogistic regressions measured the probability
of being an $x$-minute household for ( 1 ) all l trips in the sample of being an $x$-minute household for (1) all trips in the
and (2) all trips, excluding work and school trips.

Dependent variable
The probability of being on $x$-minute household.




Sensitivity Anclysis
Income and transit accessibility are held constant at their means to show the effect of
WalkScore on different kinds of households. The resulting percentages for each household Walkscore on difiterent kinds of households. The resulting percentages for each household
profile can be interpreted as the probability of being a 15 - or 30 -minute household, or a the share of all households meeting the given $x$-minute household criteria.



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