



Twin Cities Emerging Normal

Travel Behavior Inventory (TBI) Household Survey 2019 - 2023



Dec 2024 - Brandon Whited, Kenton Briggs, Xinran (Cynthia) Zhang, Jonathan Ehrlich

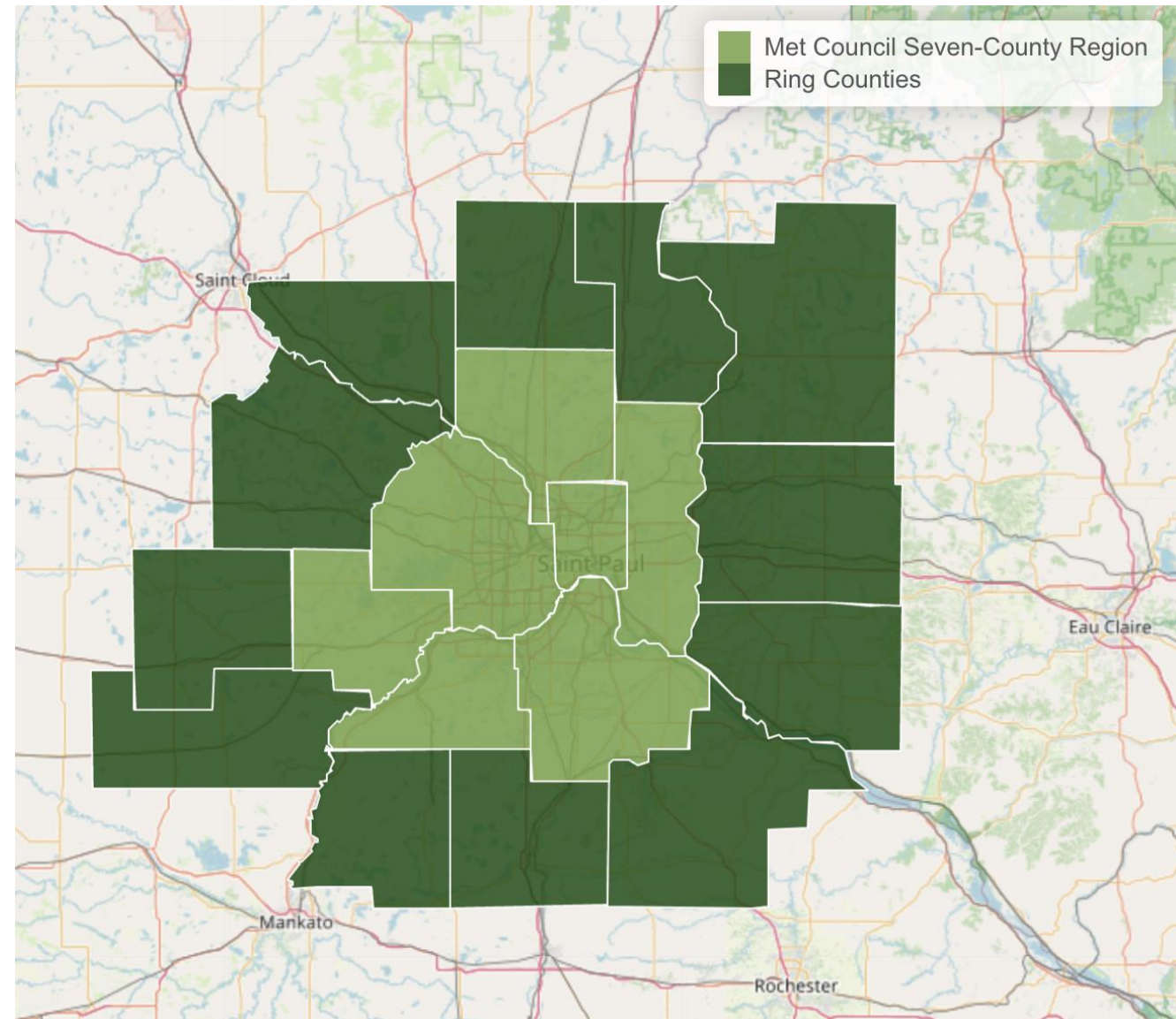
metro council.org

TBI Household Survey

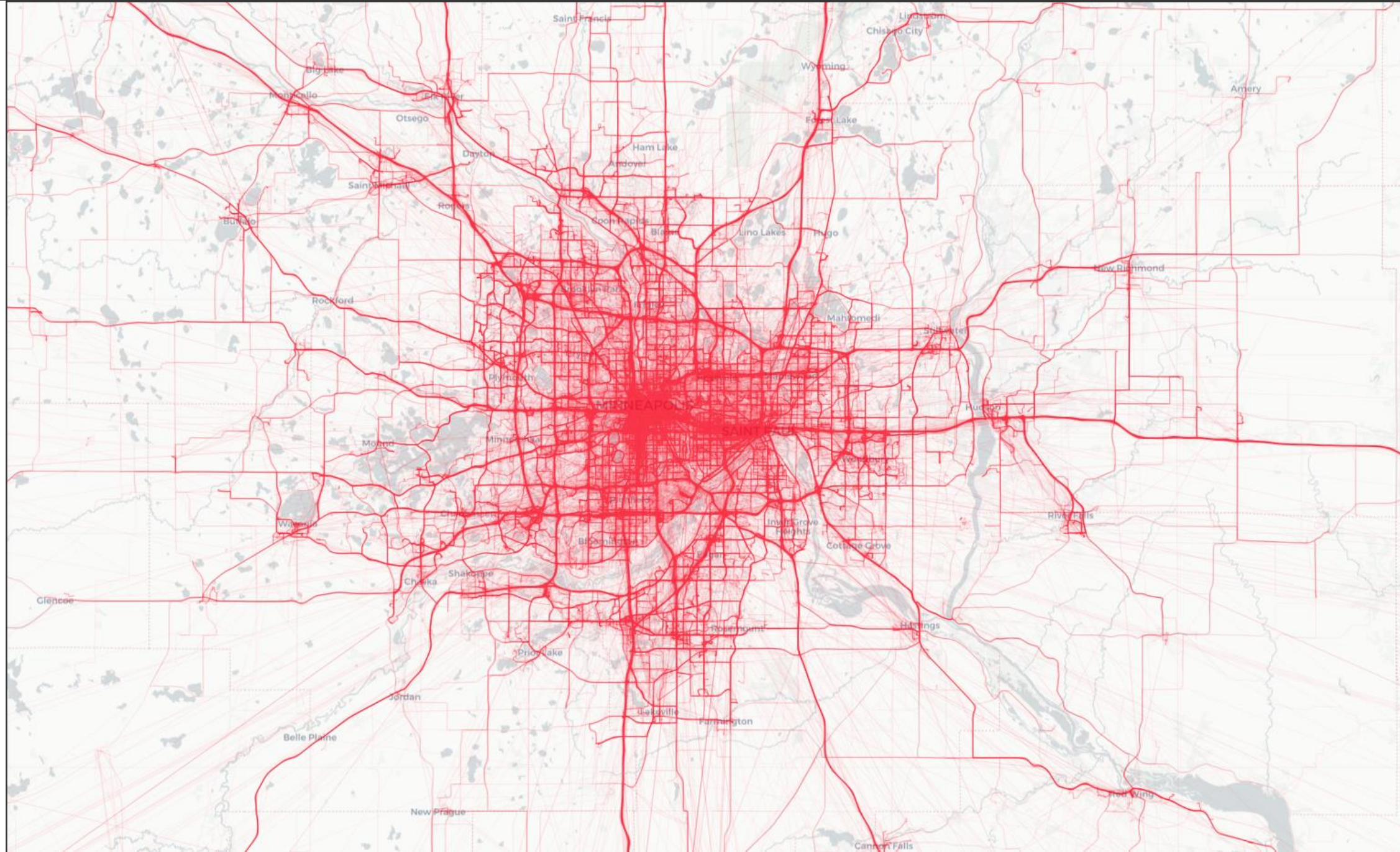
- Designed to collect demographic information, daily travel activities, and typical transportation patterns of people who live in the greater Twin Cities region.
- Survey residents could participate via a
 - smartphone based travel survey app
 - an online survey
 - or a call center
- Finished first 3 waves in a continuing survey program
 - 7,516 households sampled between October 2018 - September 2019
 - 7,905 households sampled between June 2021 - February 2022
 - 3,749 households sampled between January 2023 – January 2024
 - Next collection to start in late 2025 or early 2026

Study area

- The seven-county Twin Cities metro area
- Nine adjoining ring counties in Minnesota
- Three counties in Wisconsin.
- The study area holds approximately 1.4 million households
- Survey results have been expanded to represent the region



Survey data covers the entire region



How Much we Travel

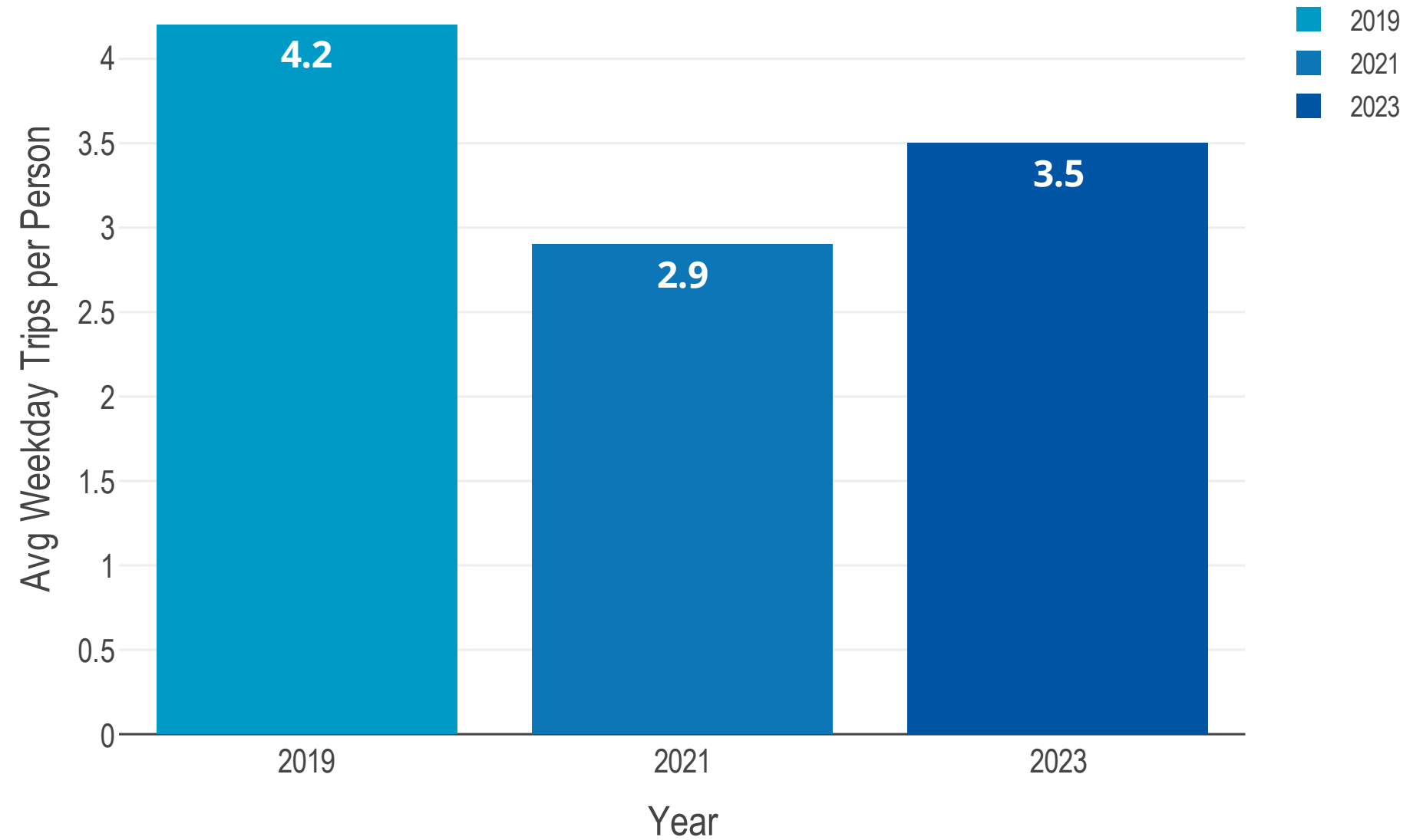


Trip rate returning



Trip Rate Across Survey Waves

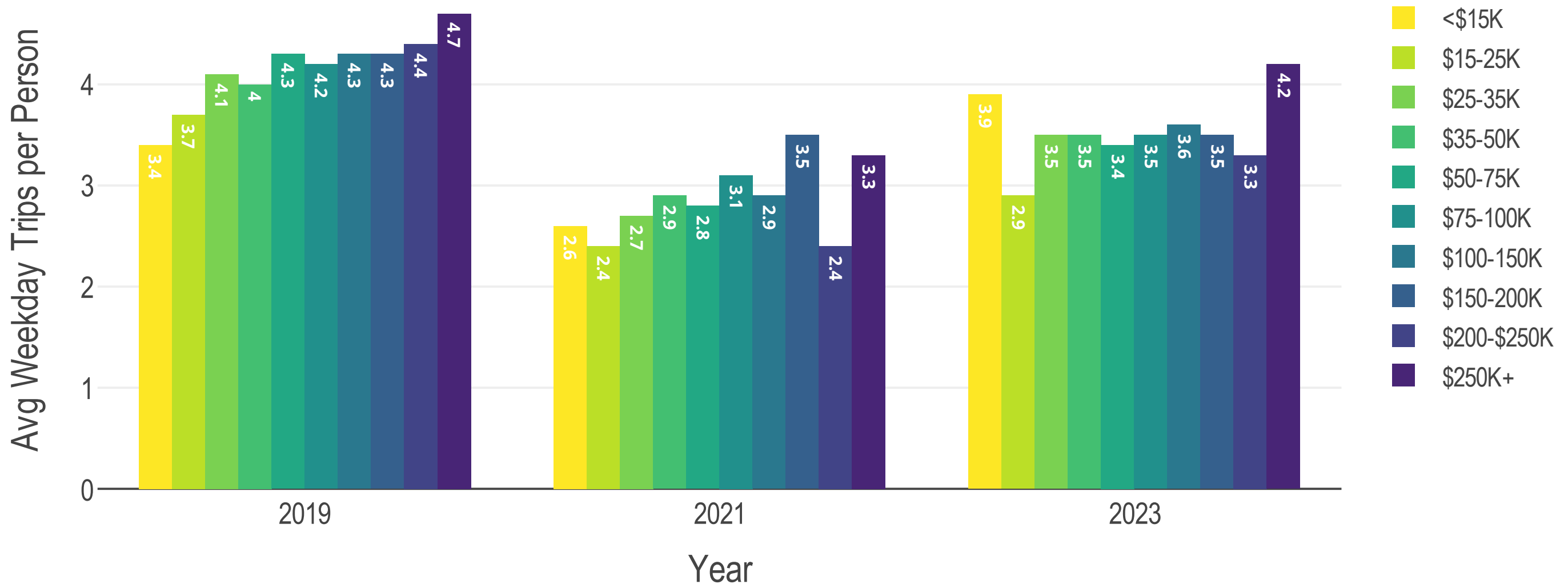
Source: TBI Household 2019-2023



Income trip rate trends differ in pandemic era

Trip Rate Across Survey Waves by Household Income

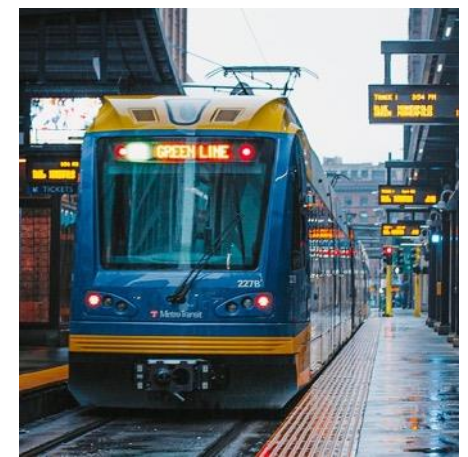
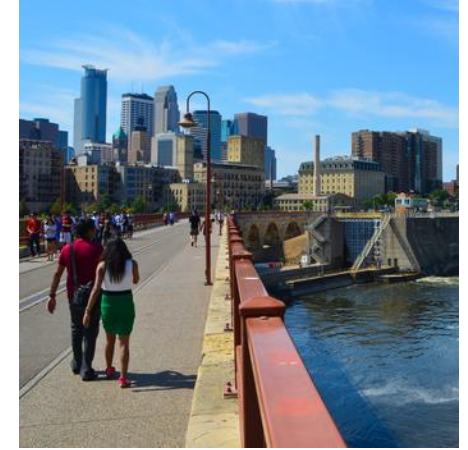
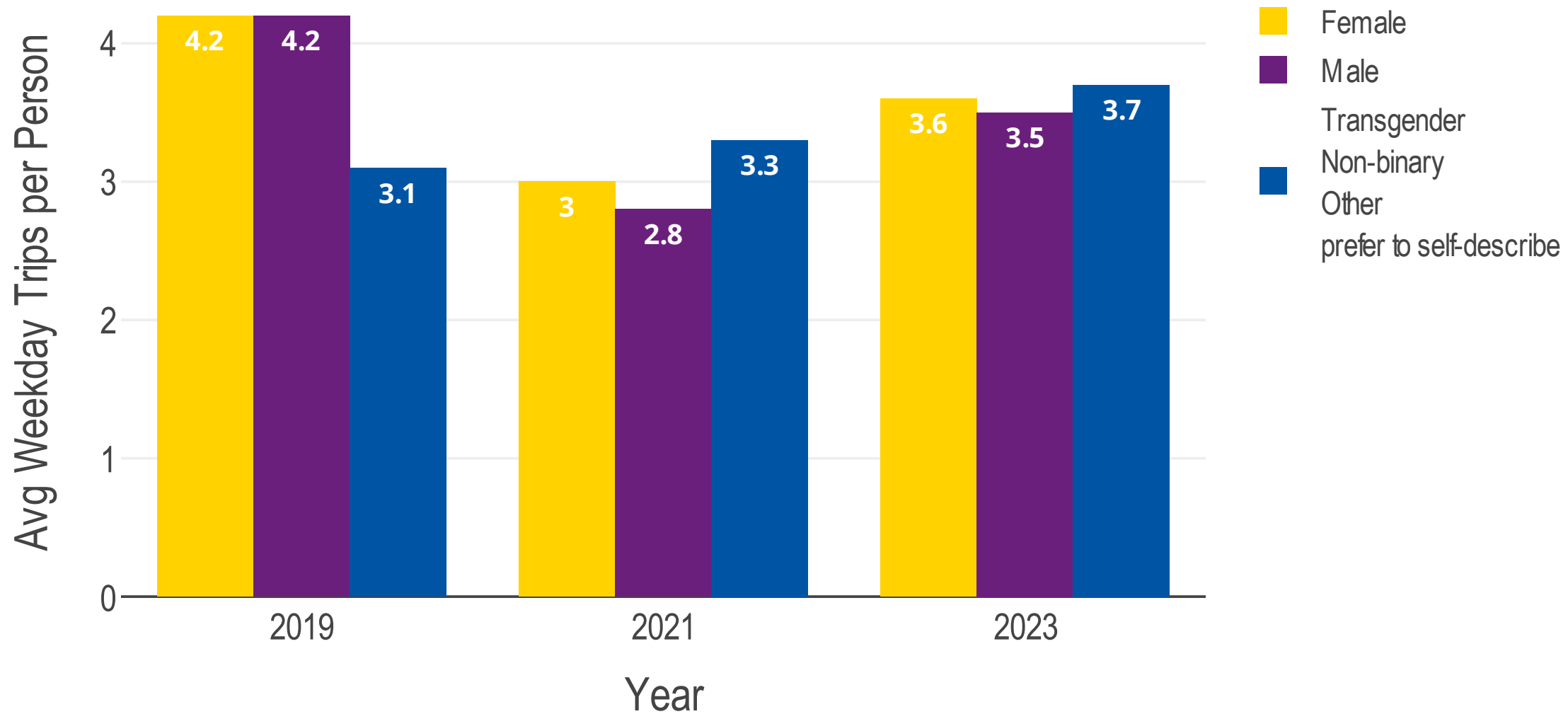
Source: TBI Household 2019-2023



Men / boys and women / girls have similar trip rates

Trip Rate Across Survey Waves by Gender

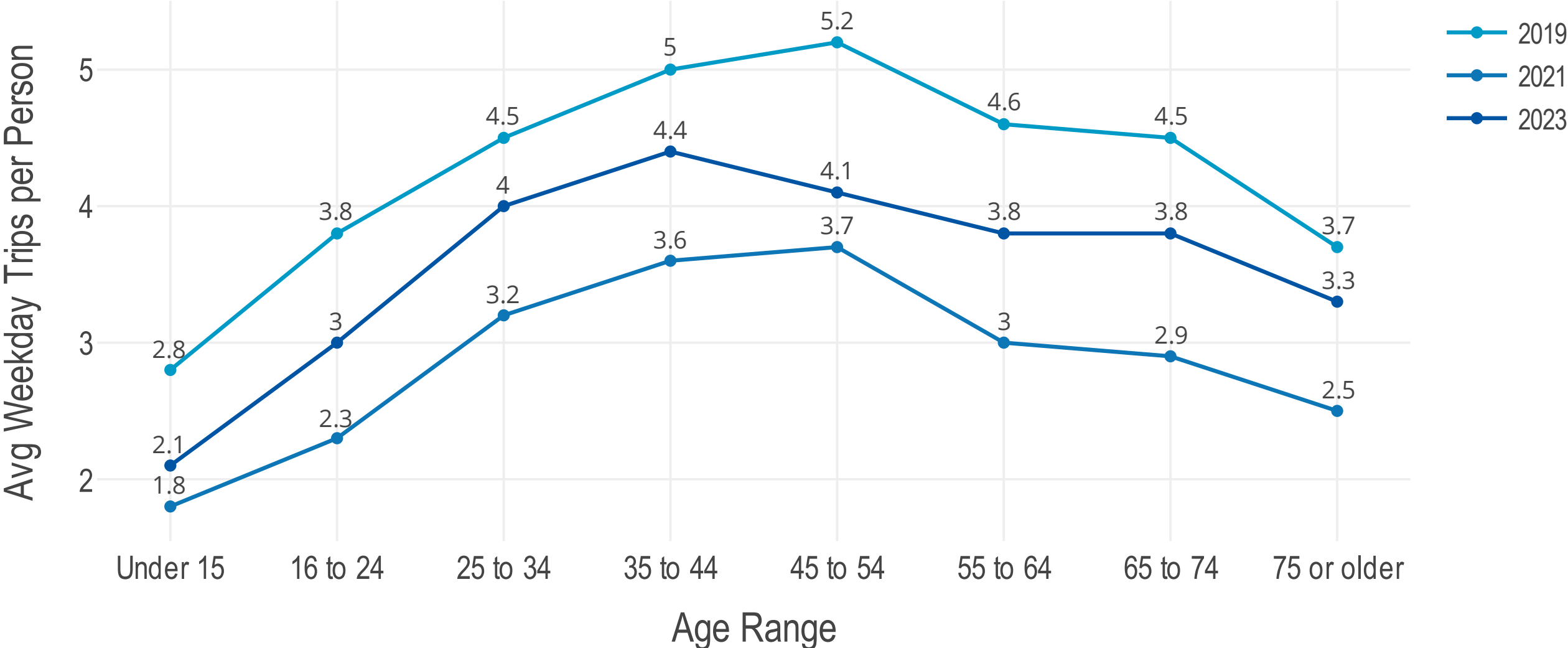
Source: TBI Household 2019-2023



Trip making skews younger in 2023

Trip Rate Across Survey Waves by Age

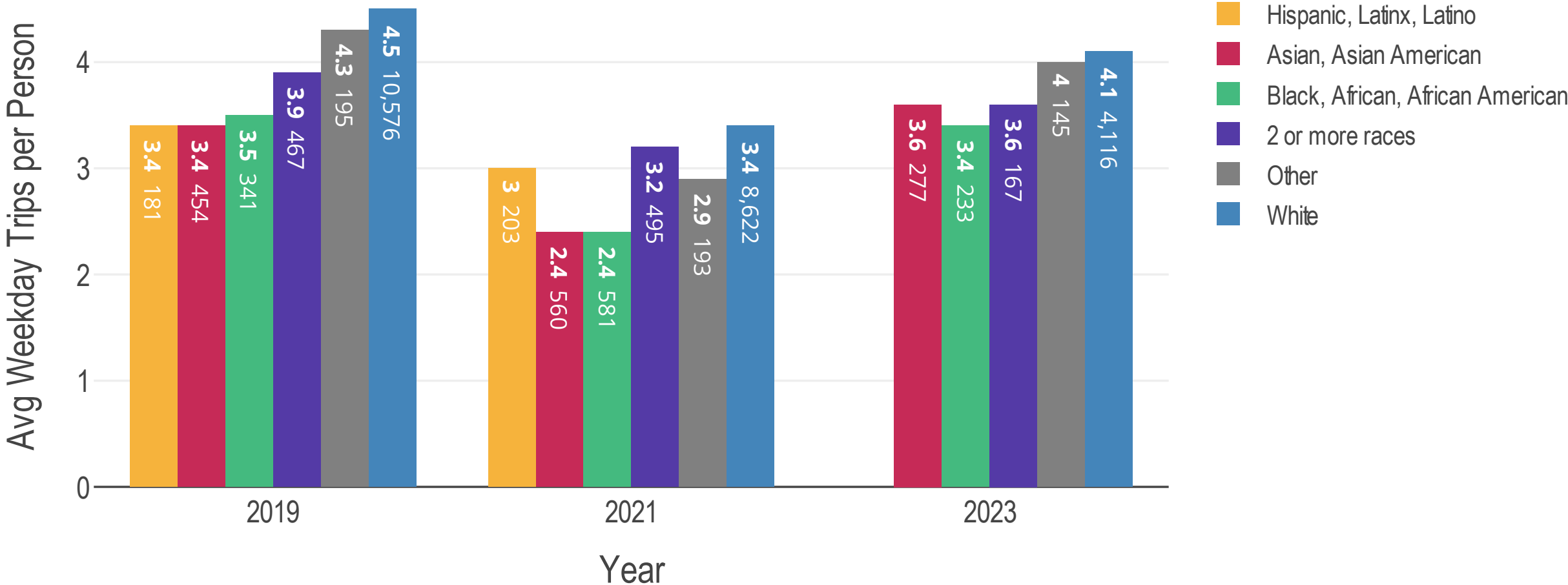
Source: TBI Household 2019-2023



Trip rate patterns are similar by race

Trip Rate Across Survey Waves by Race

Source: TBI Household 2019-2023

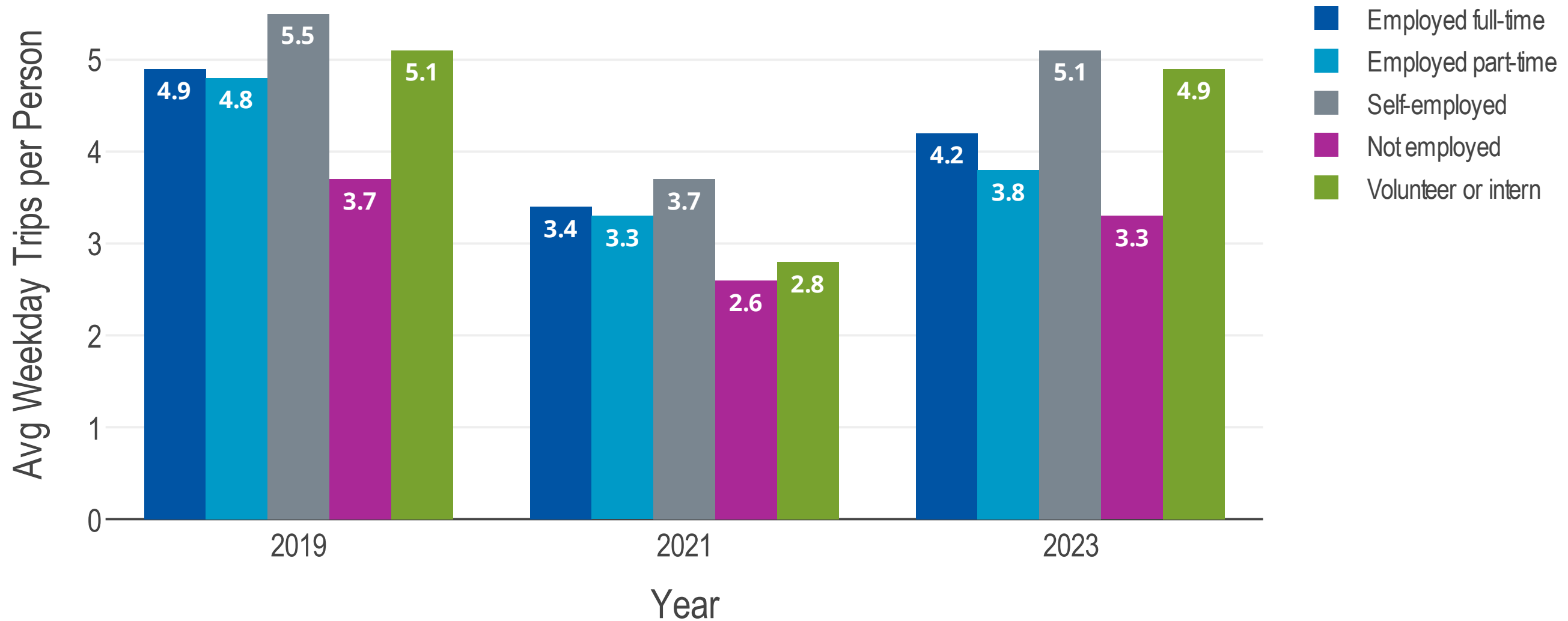


Methodology changed in 2023 removing the Hispanic, Latinx, and Latino category and asking it in a separate question. Comparative analysis will be possible with future waves of data collection. Other category consists of respondents that selected other, American Indian, Alaskan Native, Middle Eastern, North African, and Native Hawaiian, Pacific Islander. These responses were combined for presentation purposes due to small samples sizes

Employment trip rate patterns are similar

Trip Rate Across Survey Waves by Employment

Source: TBI Household 2019-2023



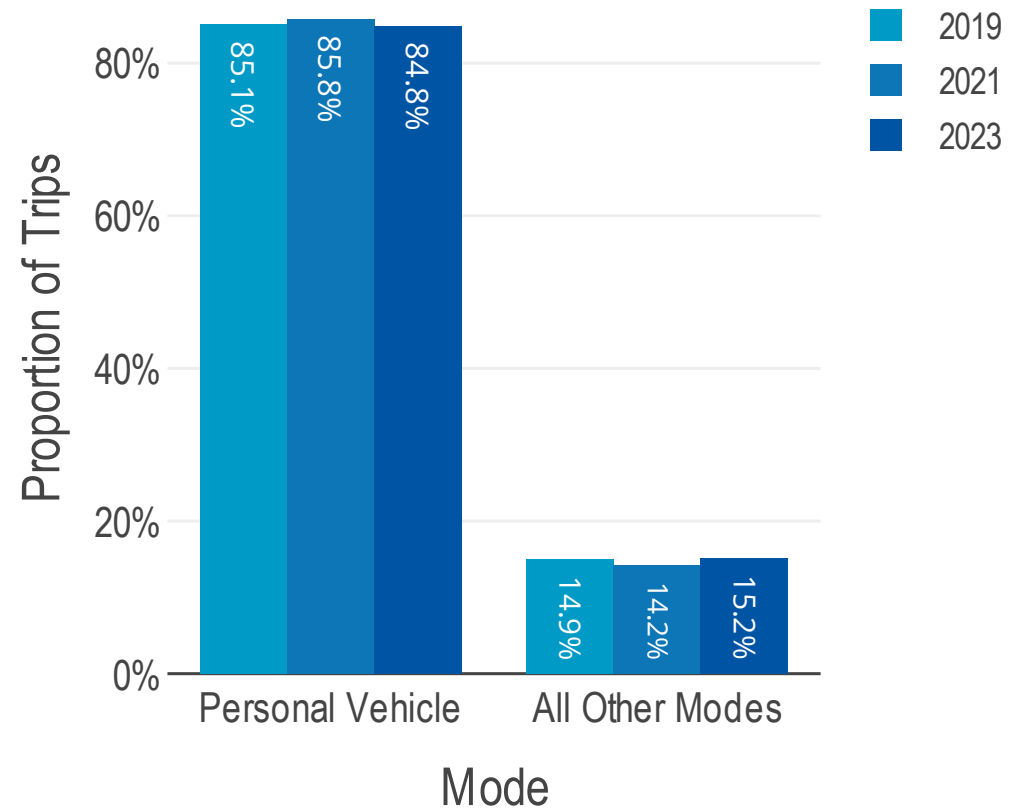
How we travel



Transit Rides Are Returning

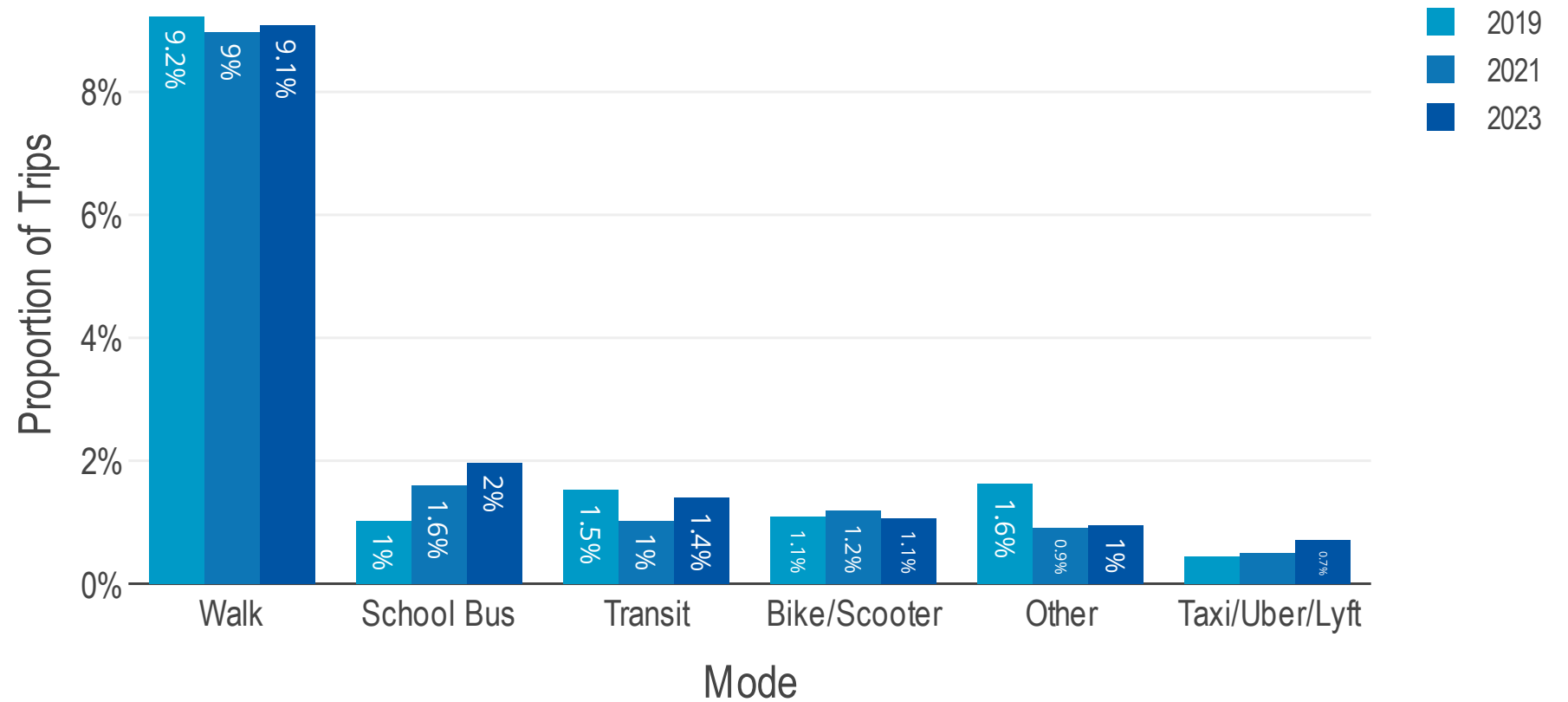
Mode Share Across Survey Waves

Source: TBI Household 2019-2023



Non-Personal Vehicle Mode Share Across Survey Waves

Source: TBI Household 2019-2023

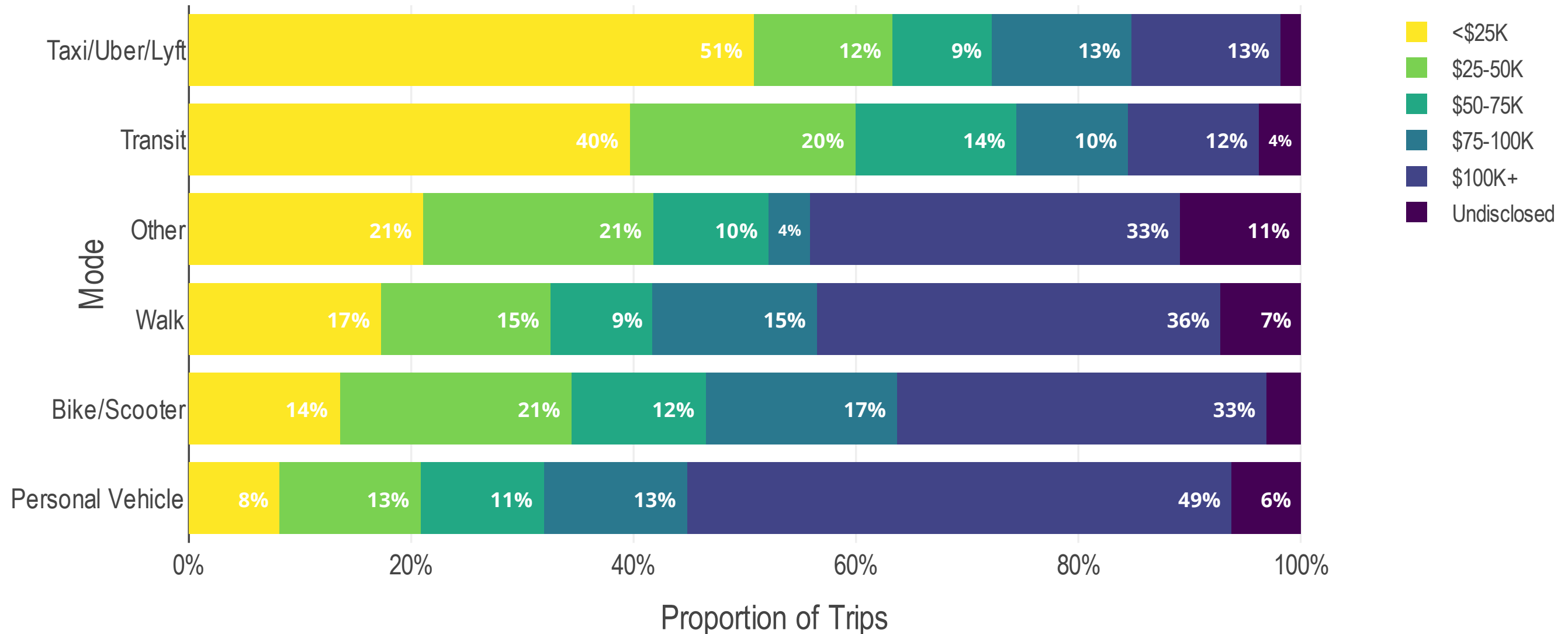


New survey methods are having trouble capturing school bus trips. This is an opportunity for future improvements.

Households with income over \$100K make up almost half of personal vehicle trips

2023 Travel Mode by Household Income

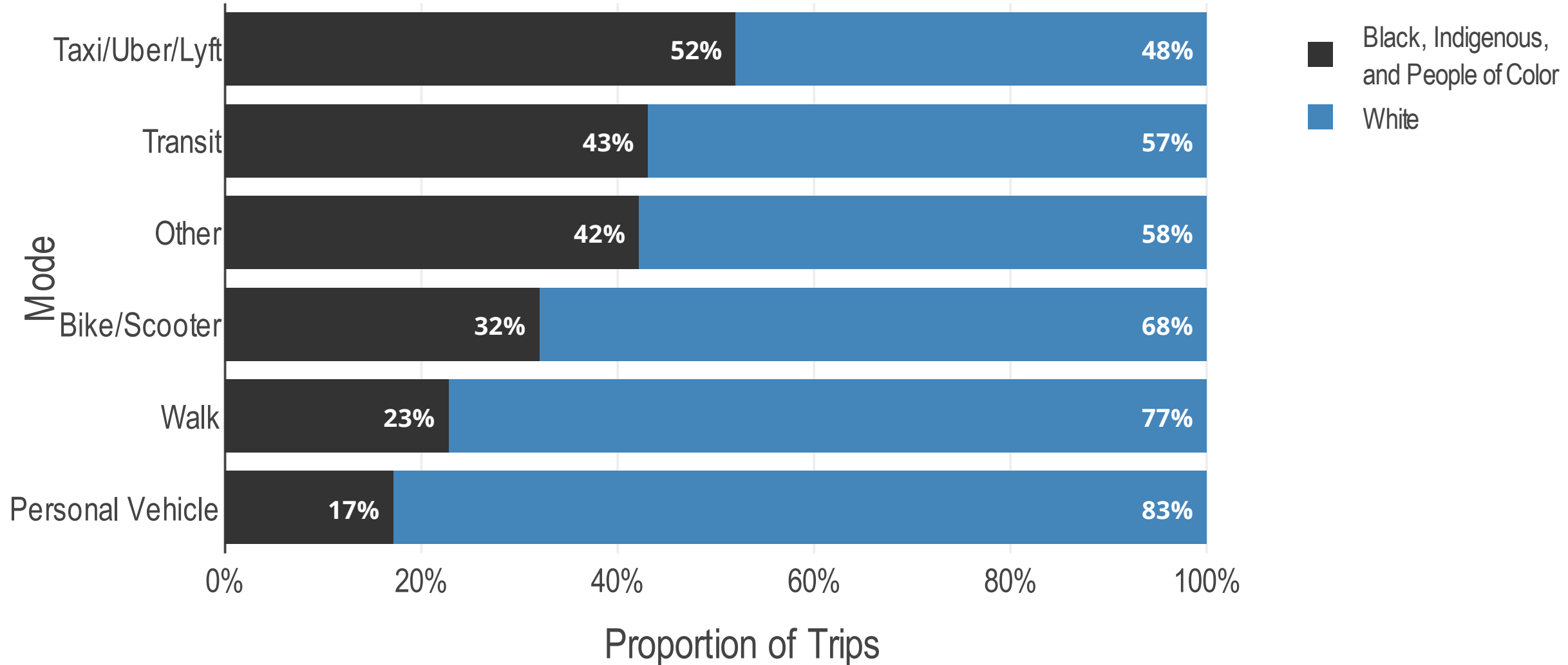
Source: TBI Household 2023



White residents take more than 80% of personal vehicle trips

2023 Travel Mode by Race

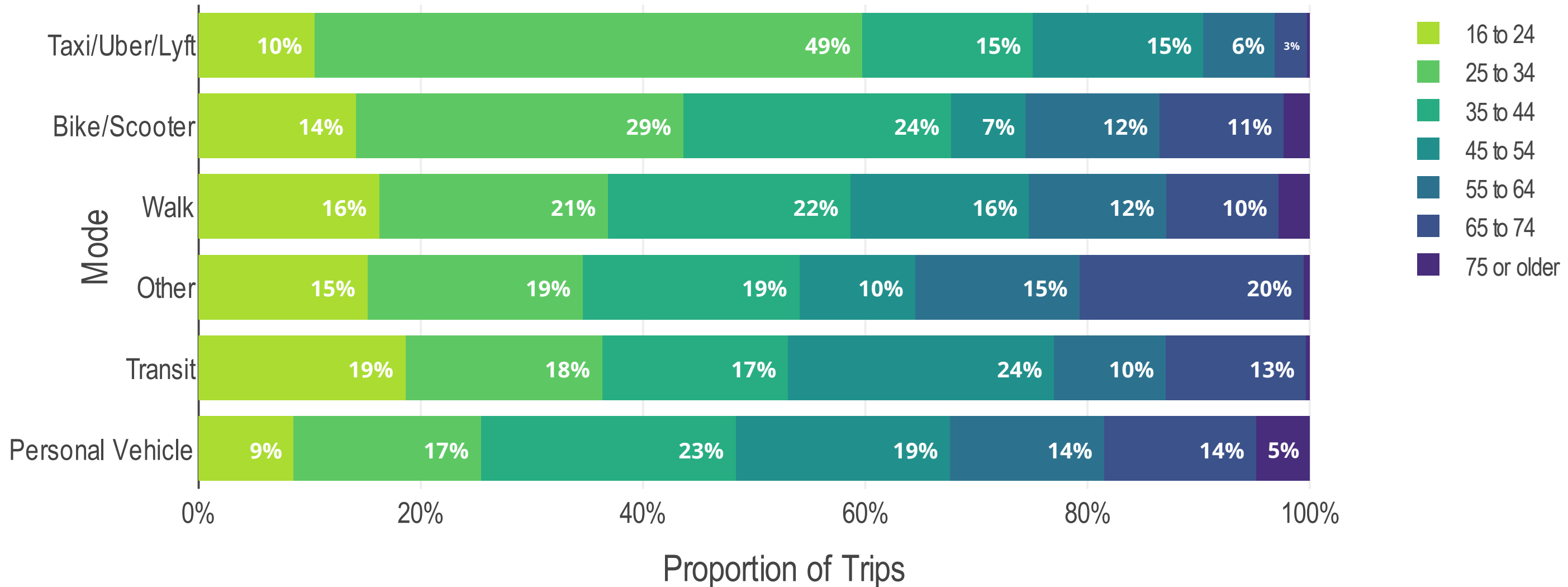
Source: TBI Household 2023



TNC, bike / scooter, transit, and walking skew younger. Personal vehicle trips more consistent across age.

2023 Travel Mode by Age

Source: TBI Household 2023



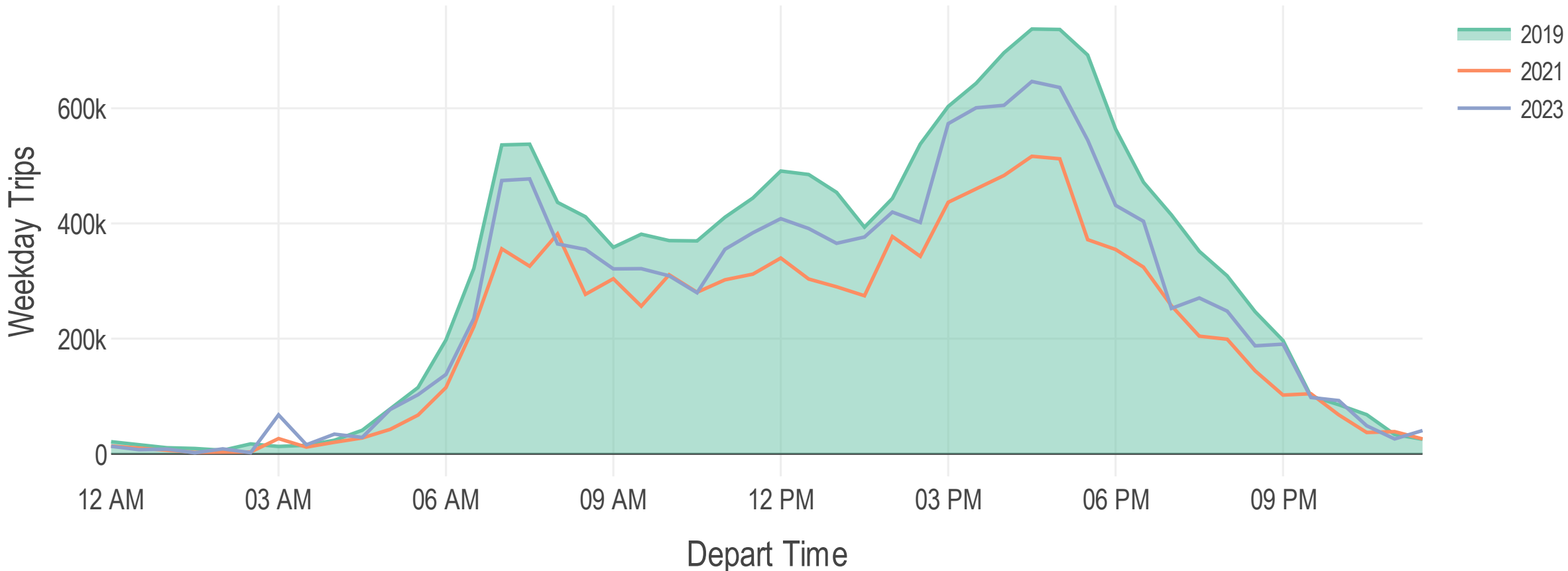
When we travel



Peak Travel Times are Returning

Departures by Time of Day

Source: TBI Household 2019-2023

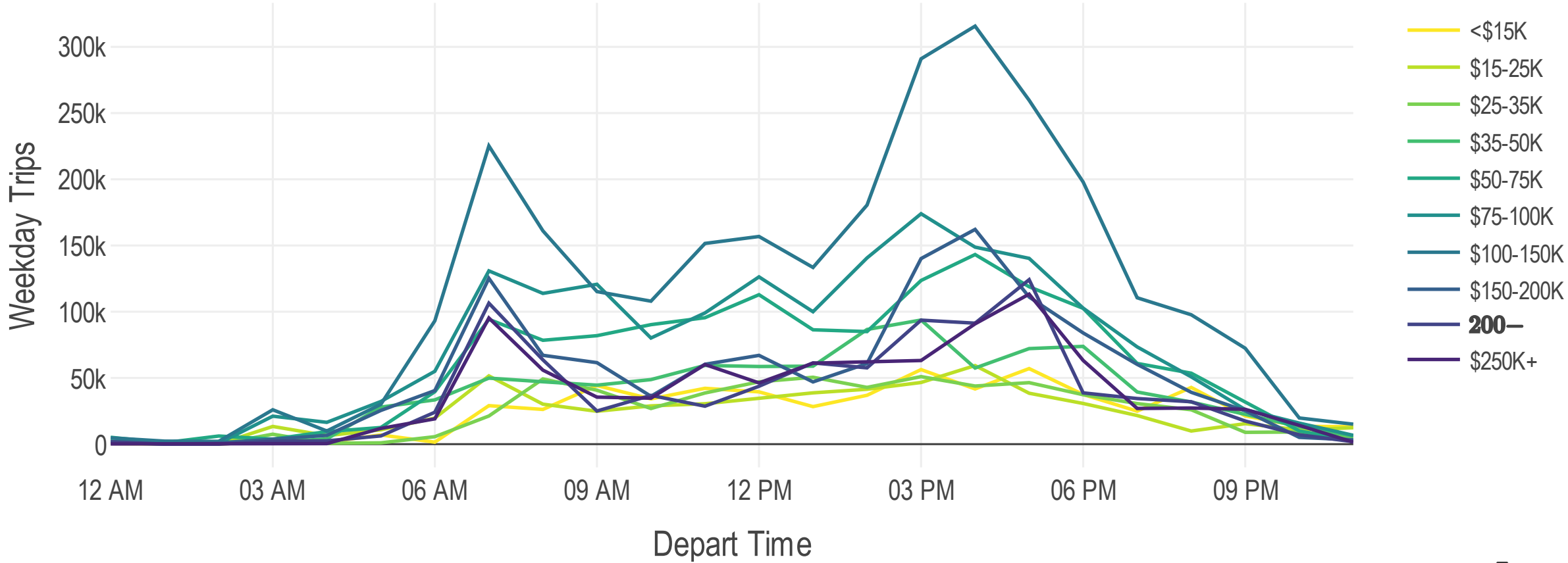


Low income levels have less peaked travel



Trip Departures Times by HH Income

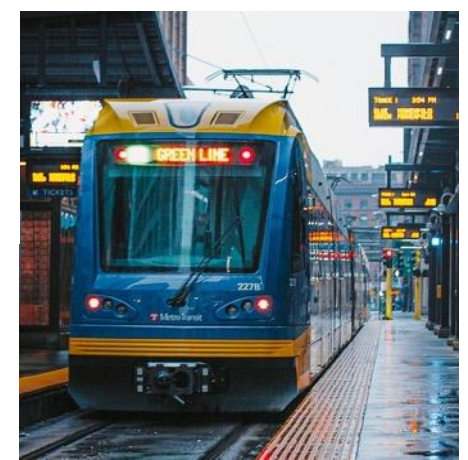
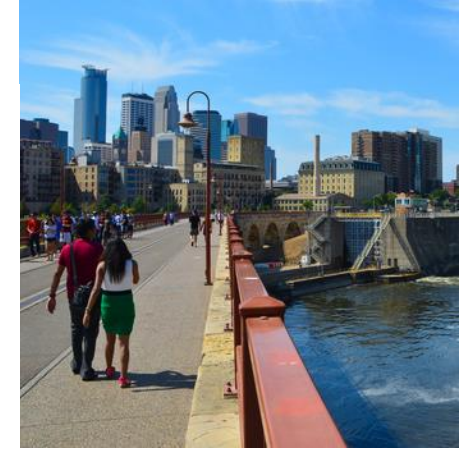
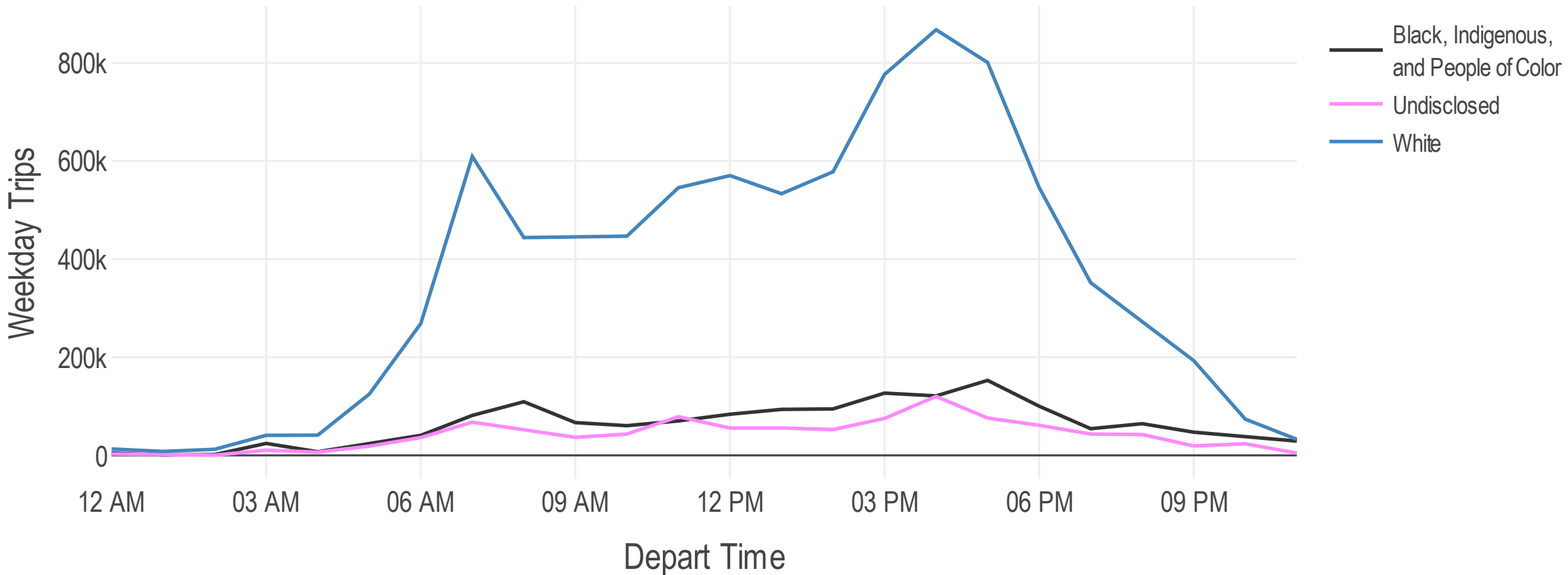
Source: TBI Household 2023



Travel time differ by race/ethnicity

Trip Departures Times by Race

Source: TBI Household 2023

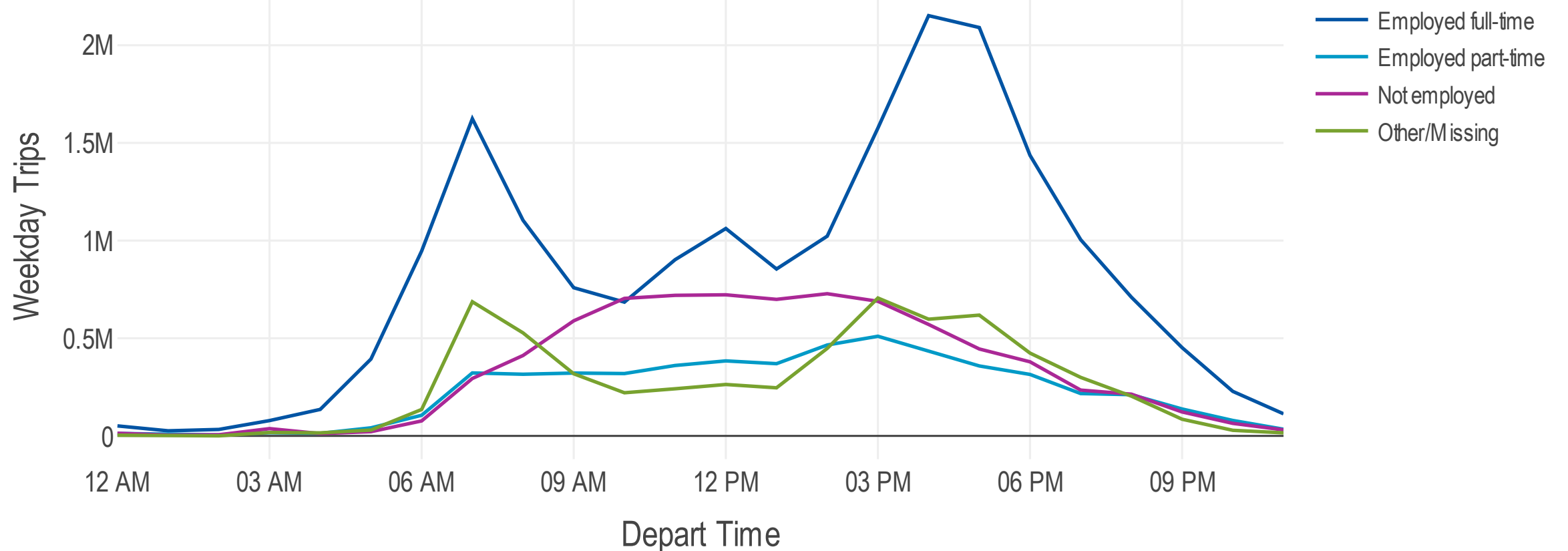


Not employed make trips during the day, while employed trips are more peaked



Trip Departures Times by Employment Status

Source: TBI Household 2023



Until Next Time...

Preview

- Why we travel (Trip Purposes)
- Telework
- VMT

