



# Twin Cities Emerging Normal, Part 2

Travel Behavior Inventory (TBI) Household Survey 2019 - 2023



March 2025 - Brandon Whited  
[metro council.org](https://metro council.org)

# Recap:

- What is the TBI household survey?
- **How much we travel:** Average trips are returning
- **How we travel:** Transit trips are returning
- **When we travel:** Peak travel time is returning

# Today

- Why we travel – Trip purpose
  - Telework trends
  - Vehicle Miles Traveled (VMT)
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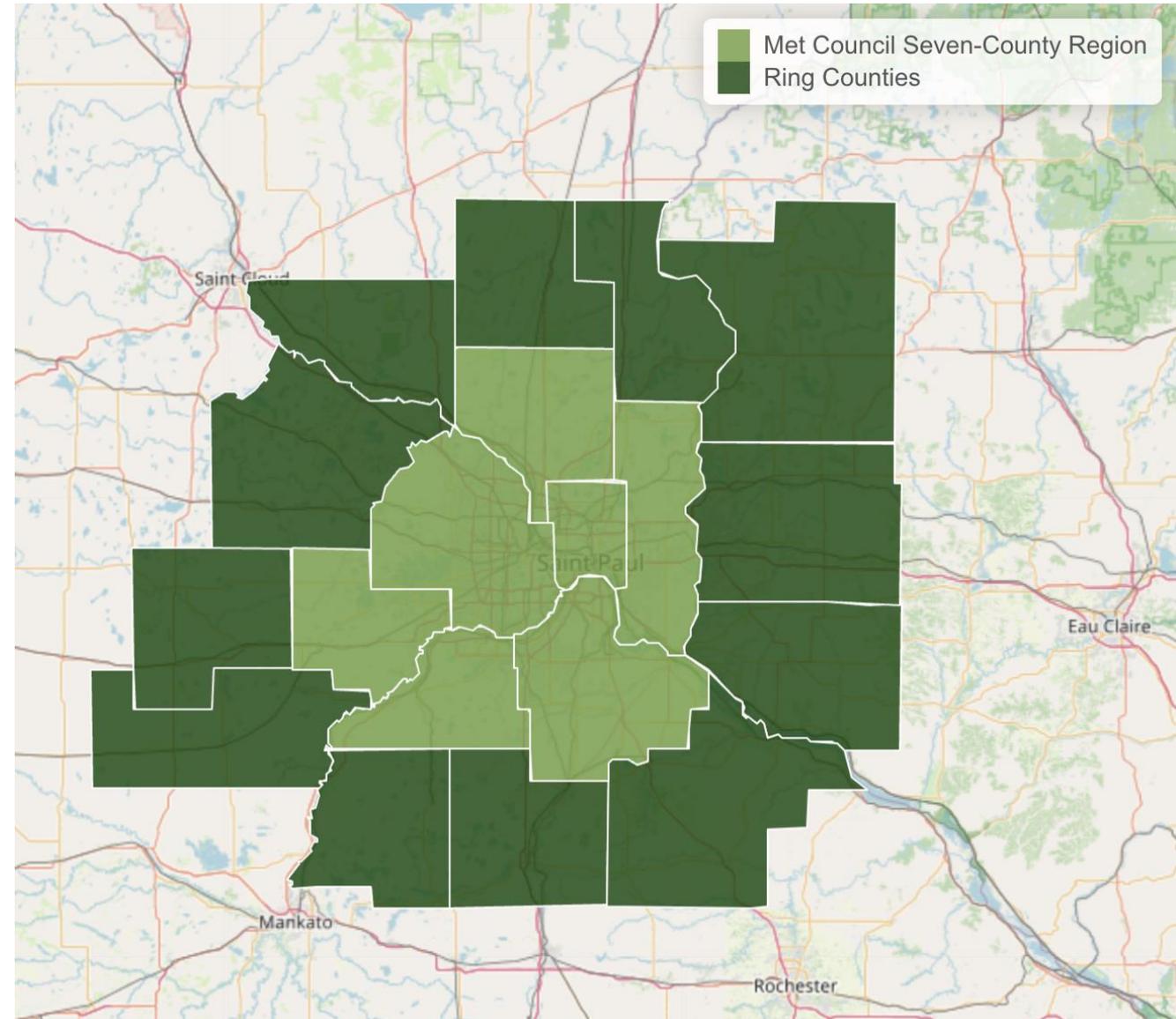


# TBI Household Survey

- 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

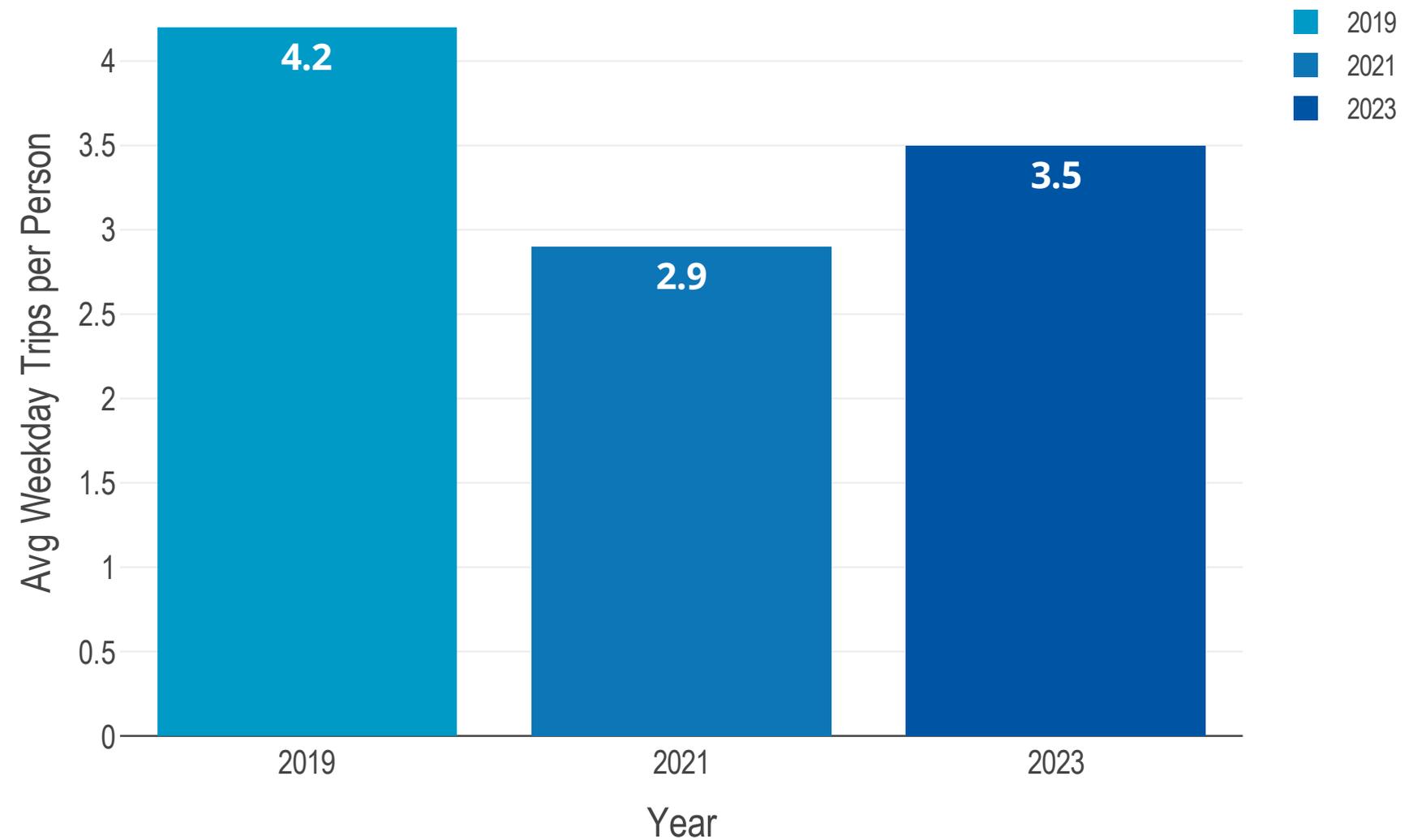


# How much we travel: Trip rate returning



### Trip Rate Across Survey Waves

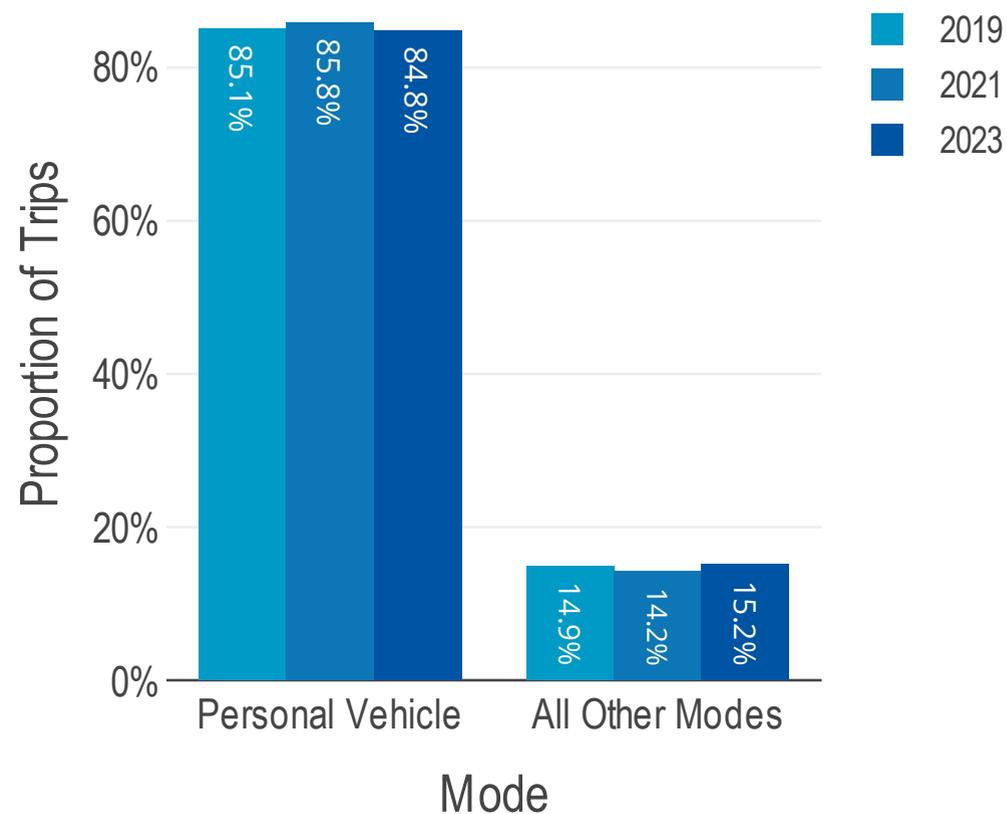
Source: TBI Household 2019-2023



# How we travel: Transit ridership is returning

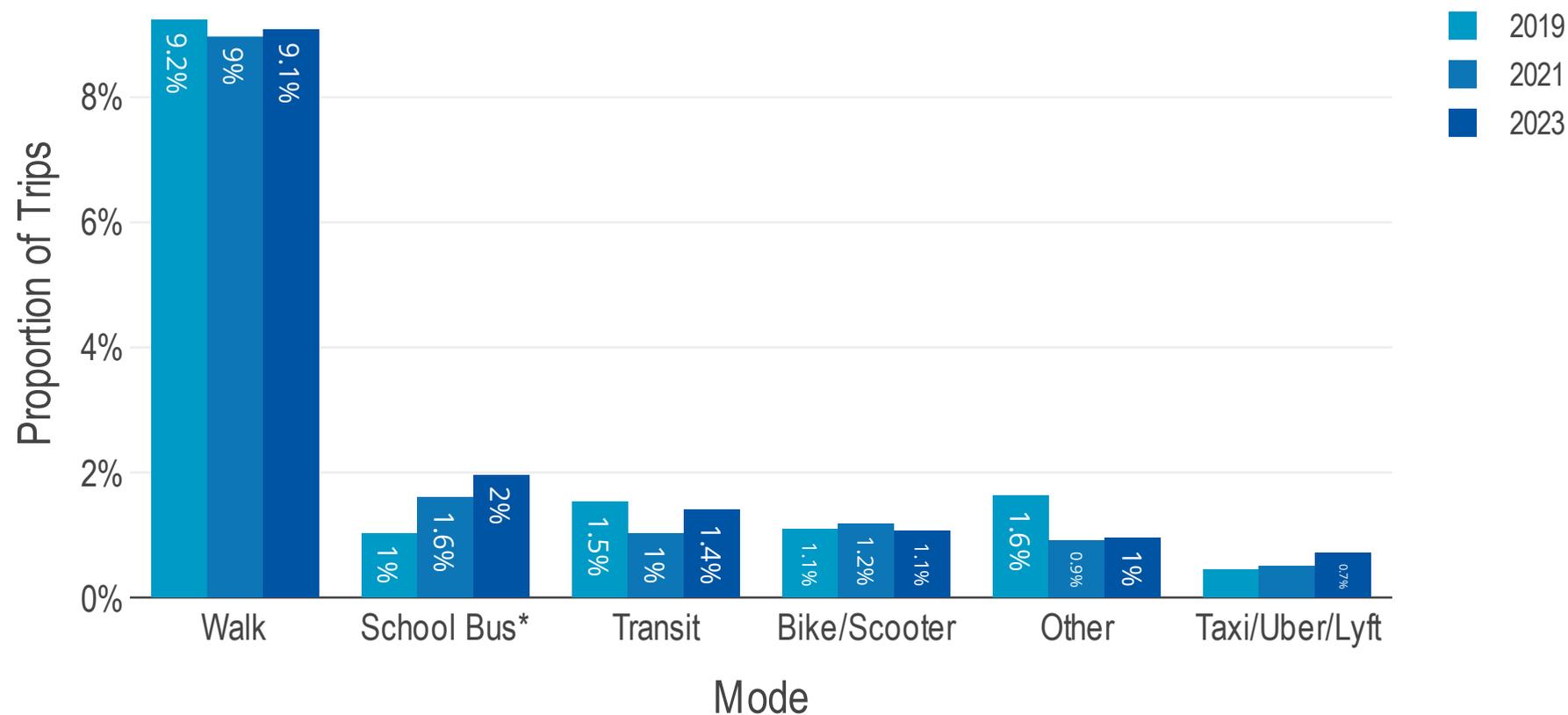
## Mode Share Across Survey Waves

Source: TBI Household 2019-2023



## Non-Personal Vehicle Mode Share Across Survey Waves

Source: TBI Household 2019-2023

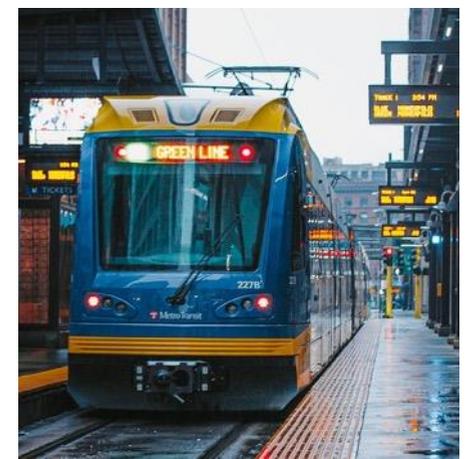
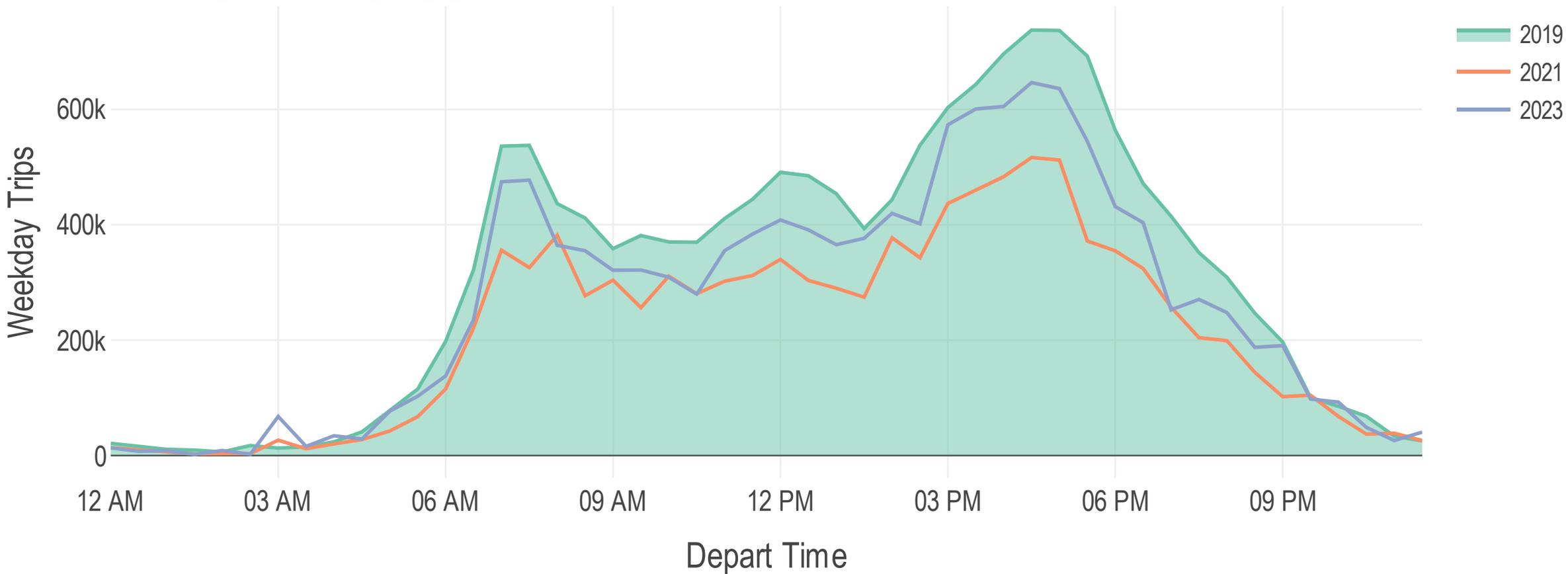


\* New survey methods are having trouble capturing school bus trips. This is an opportunity for future improvements

# When we travel: Peak travel times are returning

## Departures by Time of Day

Source: TBI Household 2019-2023



# Why we travel – trip purpose

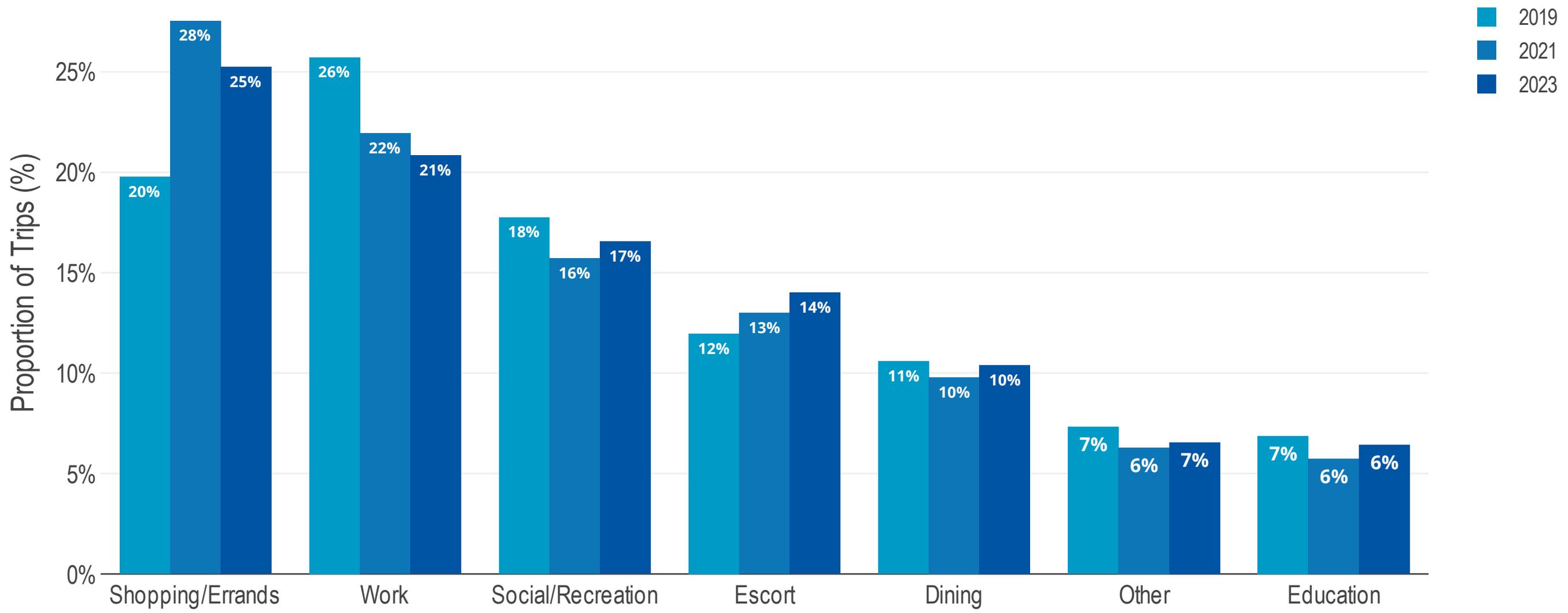
- Shopping and errands are the most common trips, followed by work.
- Black, Indigenous, people of color, and Hispanic households take more work and escort trips.
- Higher age categories take more shopping and errand trips, and fewer work trips.
- Larger households take more escort and school trips.
- Women take more shopping and escort trips, and men take more work and social trips.



# Shopping & errands remain most taken trips

Trip Purpose by Year

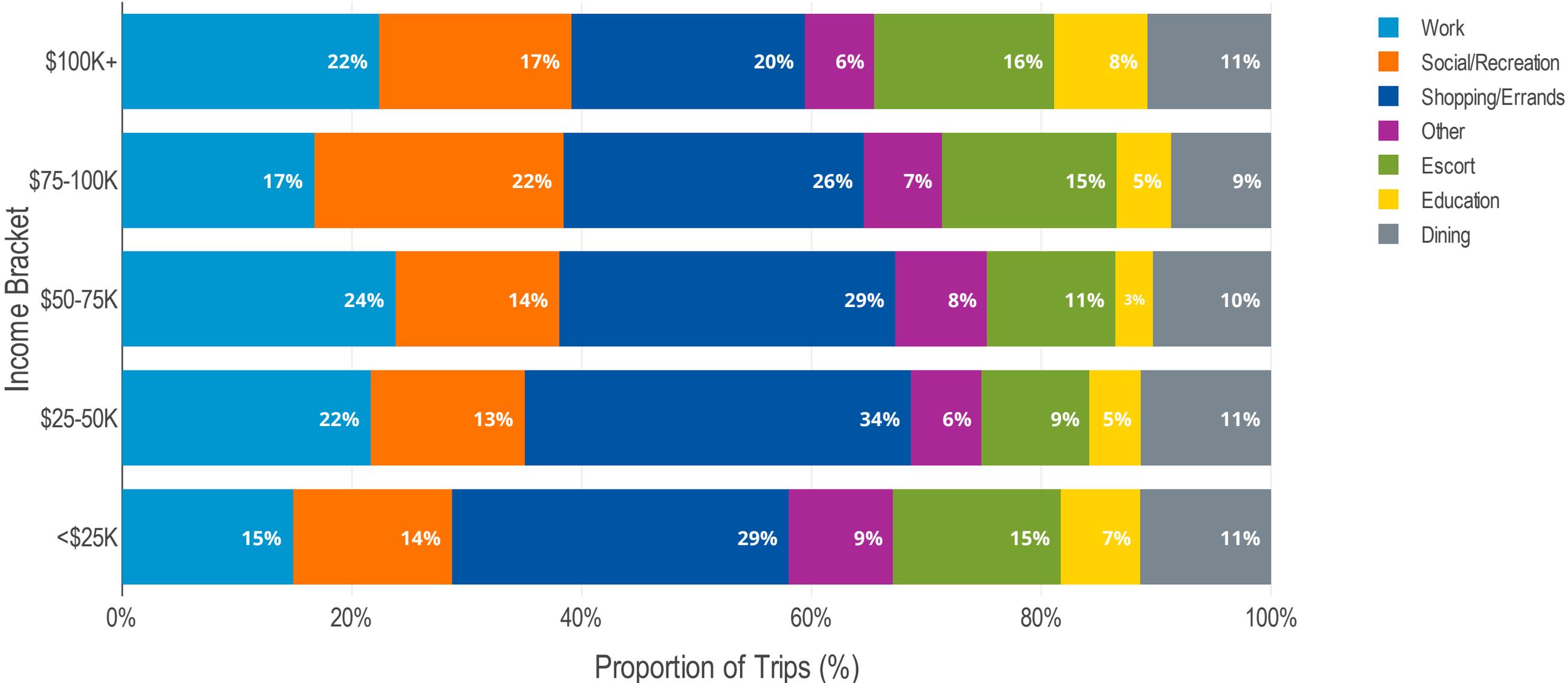
Source: TBI Household 2019-2023



# Trip purpose varies across income categories

2023 Trip Purpose by Household Income

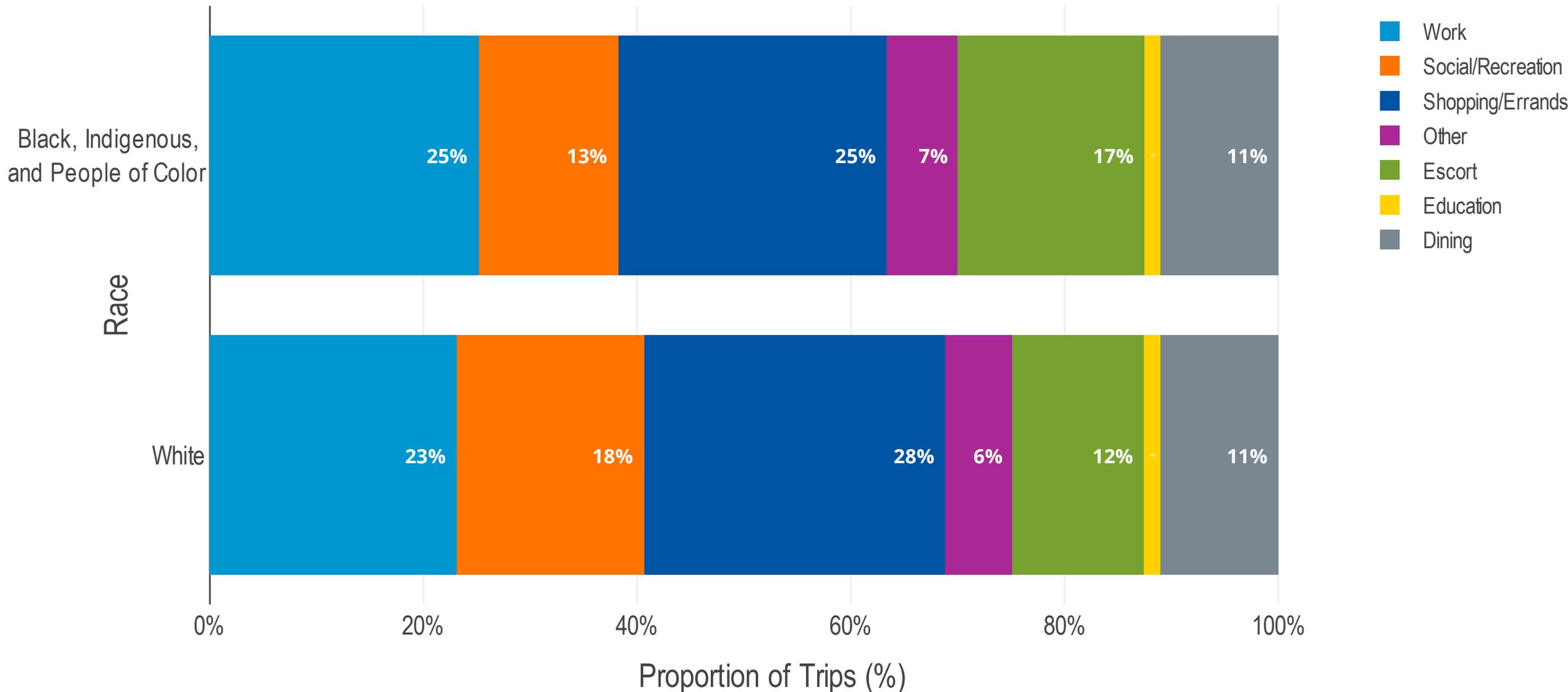
Source: TBI Household 2023



# Black, Indigenous, and People of Color travel more for work and escort

2023 Trip Purpose by Race (Non-Hispanic)

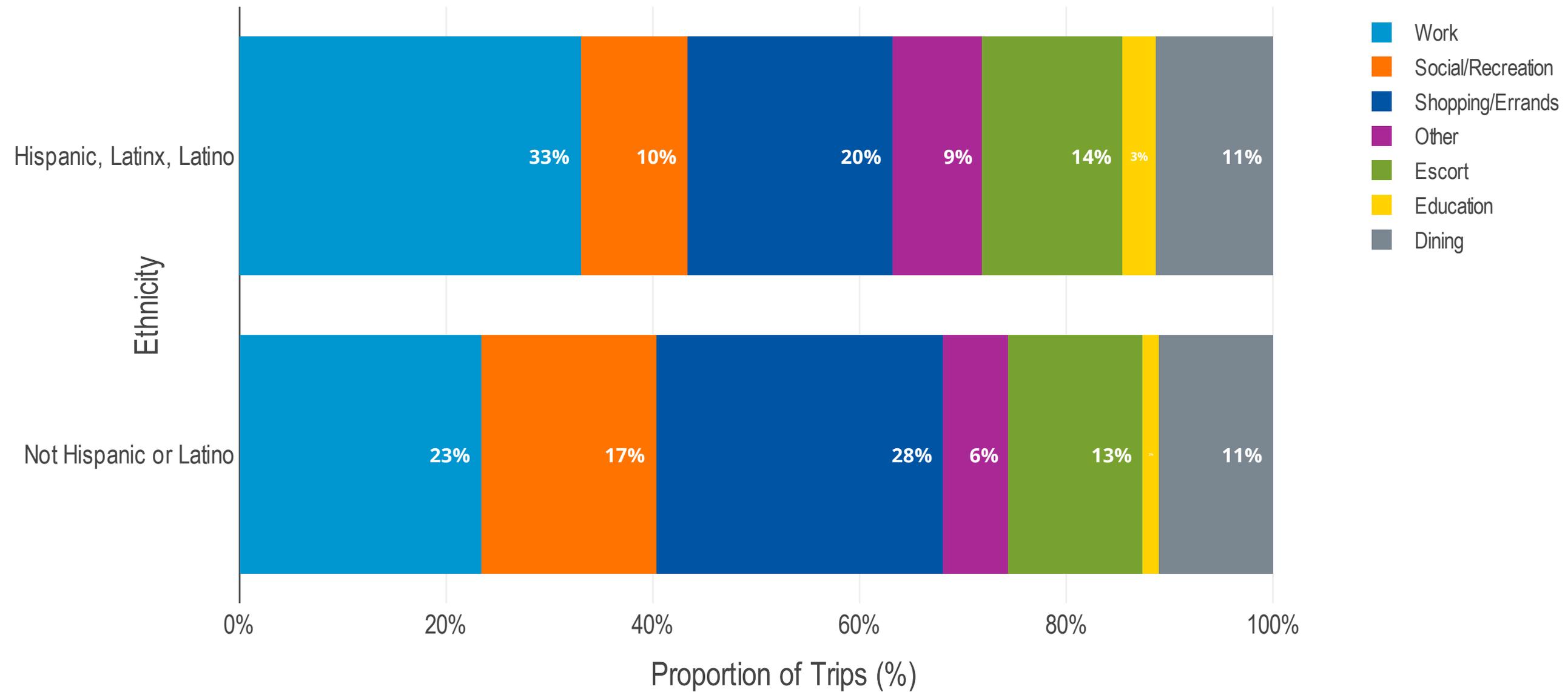
Source: TBI Household 2023



# Hispanic, Latinx, and Latino trips skew toward work

2023 Trip Purpose by Ethnicity

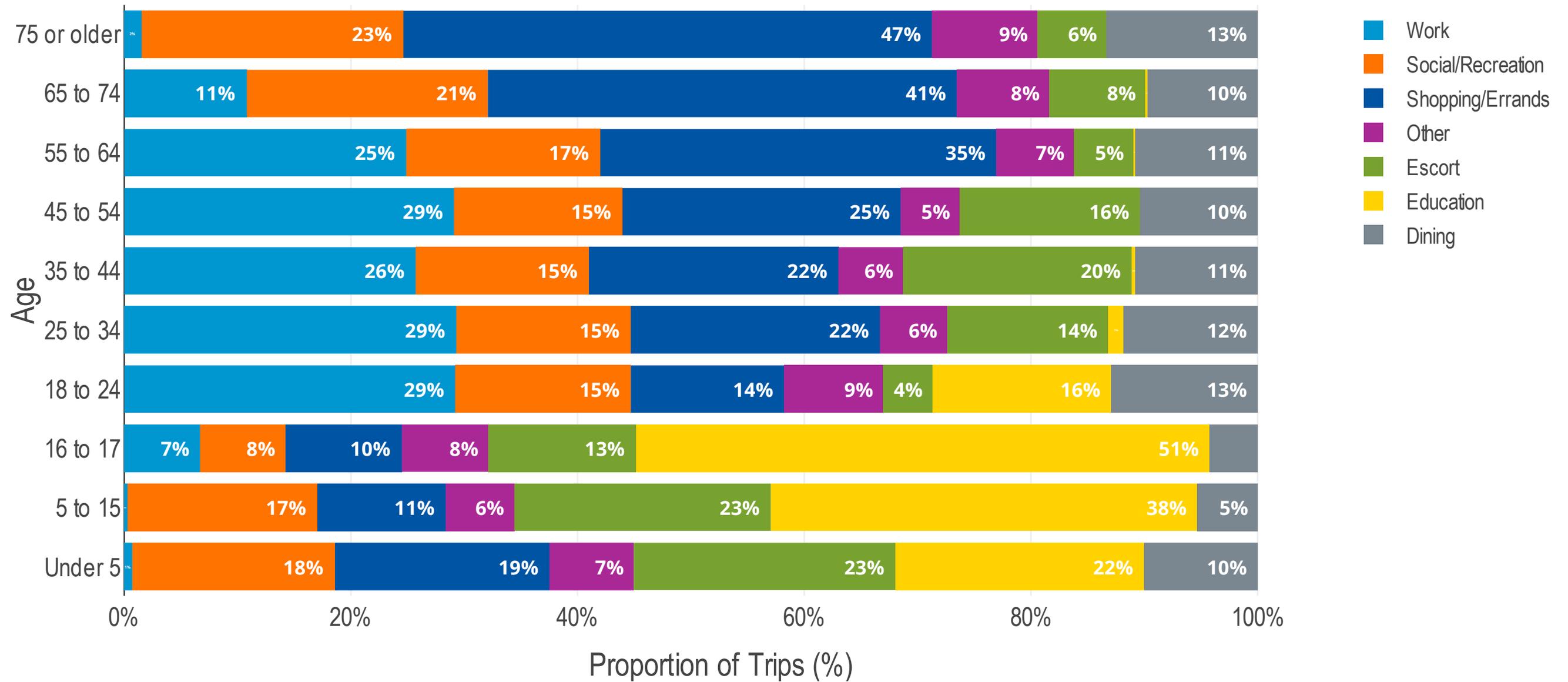
Source: TBI Household 2023



# Work is replaced by shopping/errands as people age

2023 Trip Purpose by Age

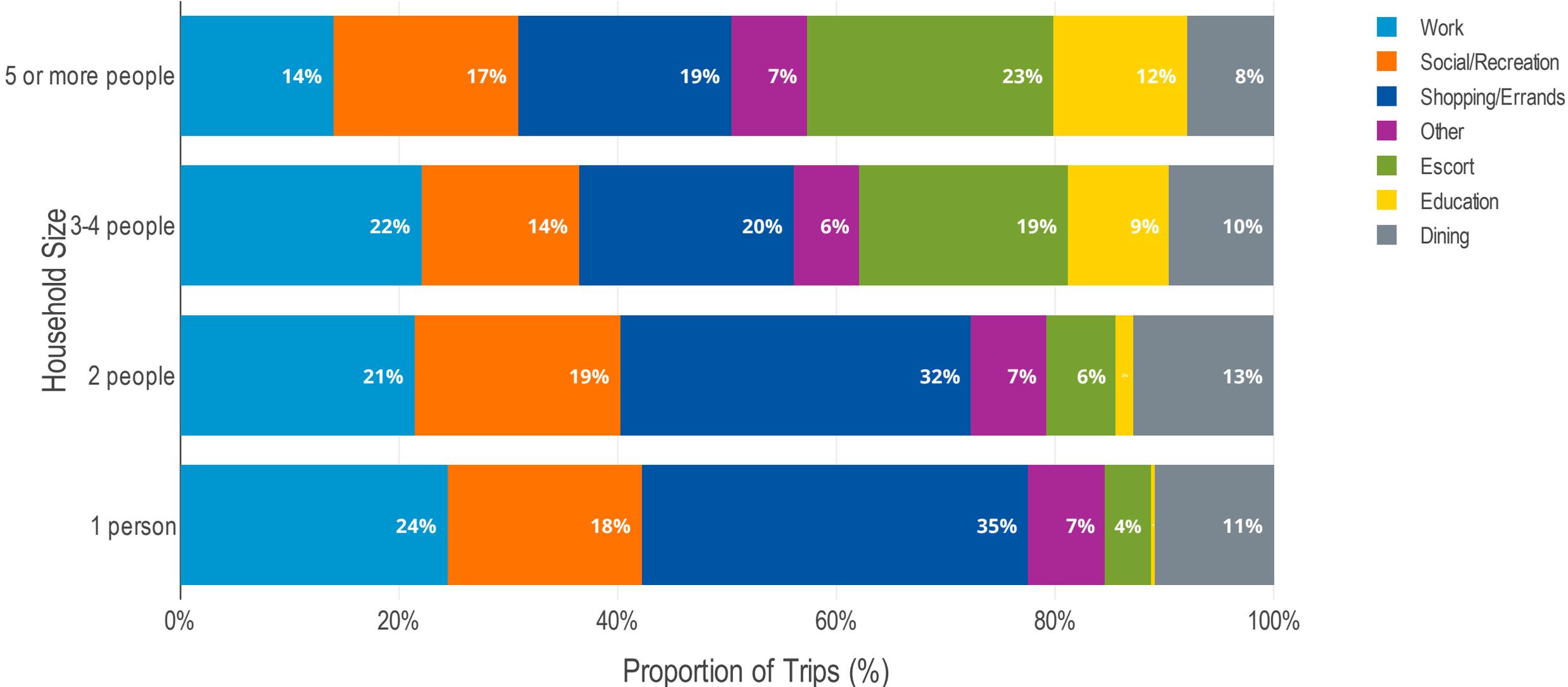
Source: TBI Household 2023



# Larger households do fewer shopping trips and more escort and education trips

2023 Trip Purpose by Household Size

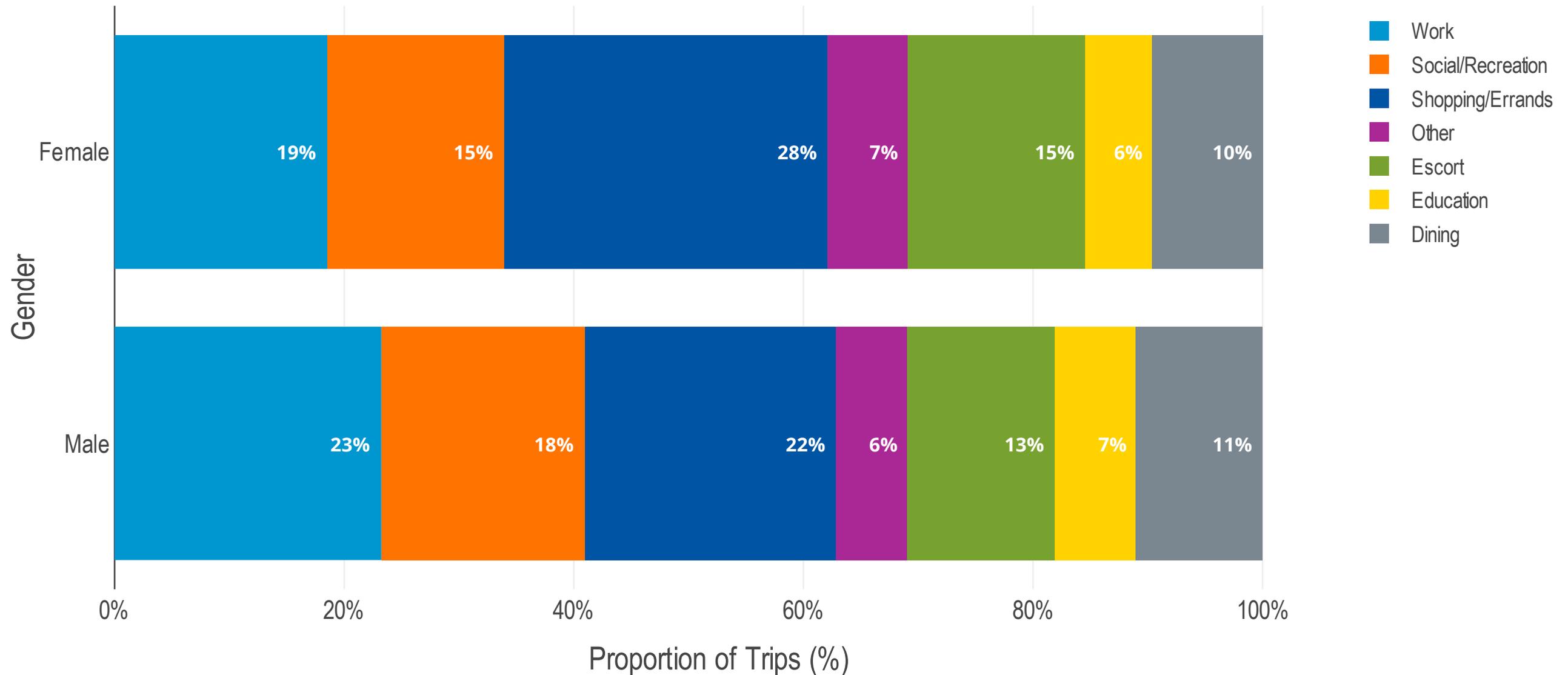
Source: TBI Household 2023



# Gender differences persist in travel patterns

2023 Trip Purpose by Gender

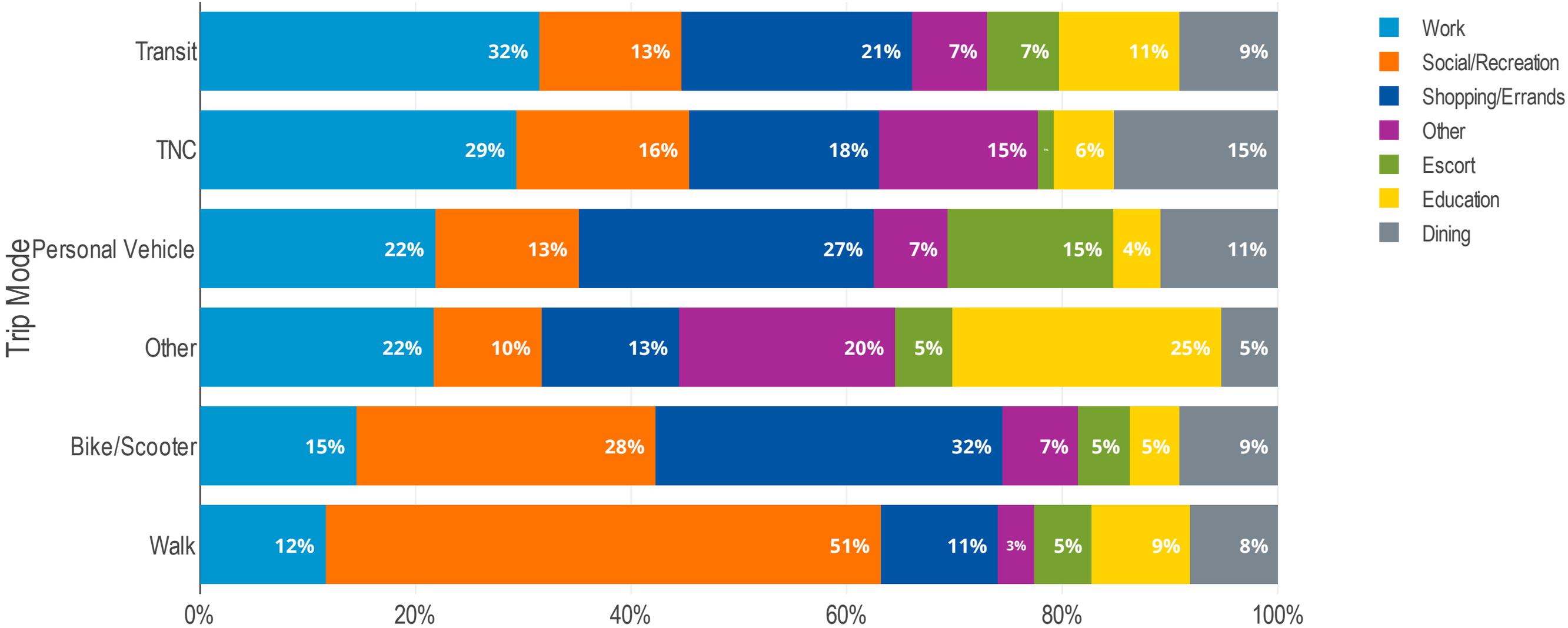
Source: TBI Household 2023



# More reliance on walking, bike, and scooter for social and recreation

Trip Purpose by Mode (2023)

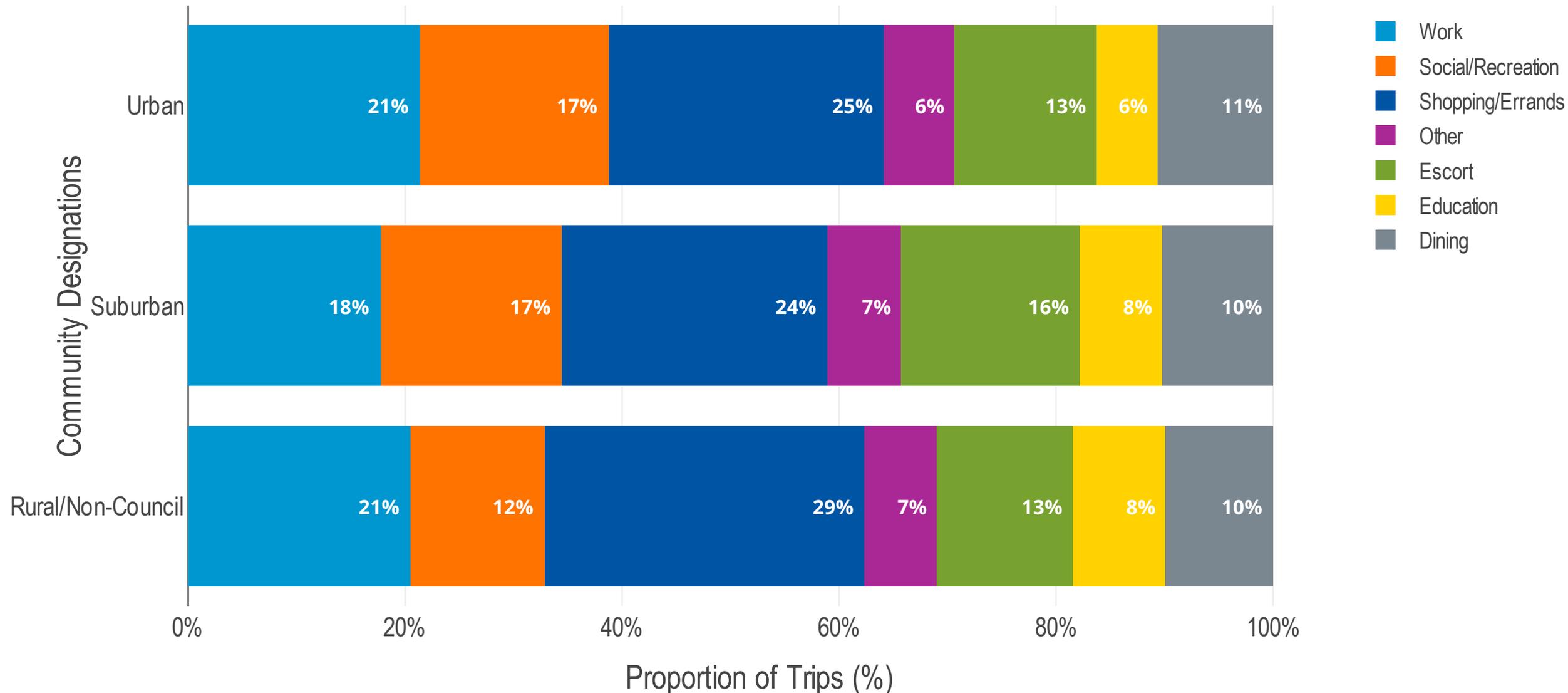
Source: TBI Household 2023



# Trip purpose varies by community type

## Trip Purpose by Community Designations (2023)

Source: TBI Household 2023



# Telework

- Telework adoption continues, but growth has slowed.
- Women and higher-income households are telework more.
- Younger adults (18-24 year old) telework patterns differ from higher age categories.

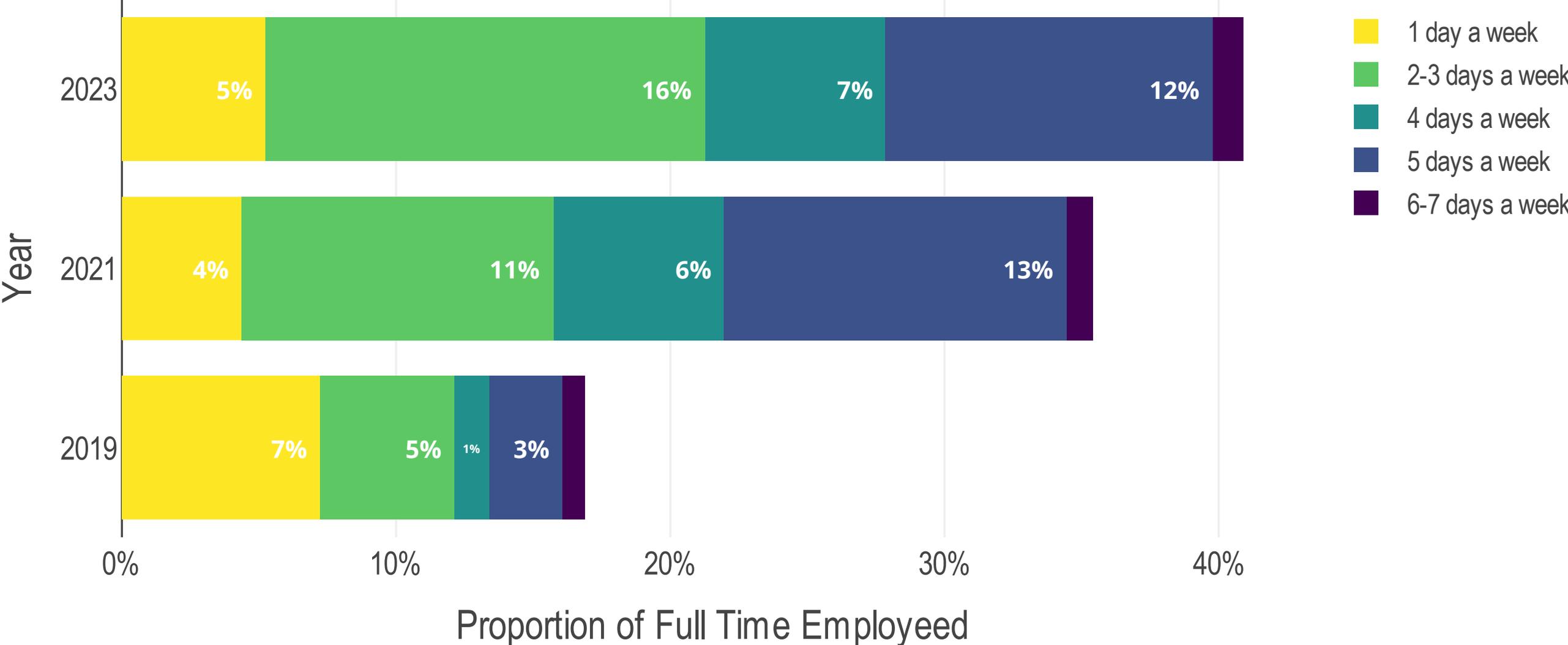




# Focusing on the teleworkers: Continued rise of telework

## Telework Frequency Across Survey Waves

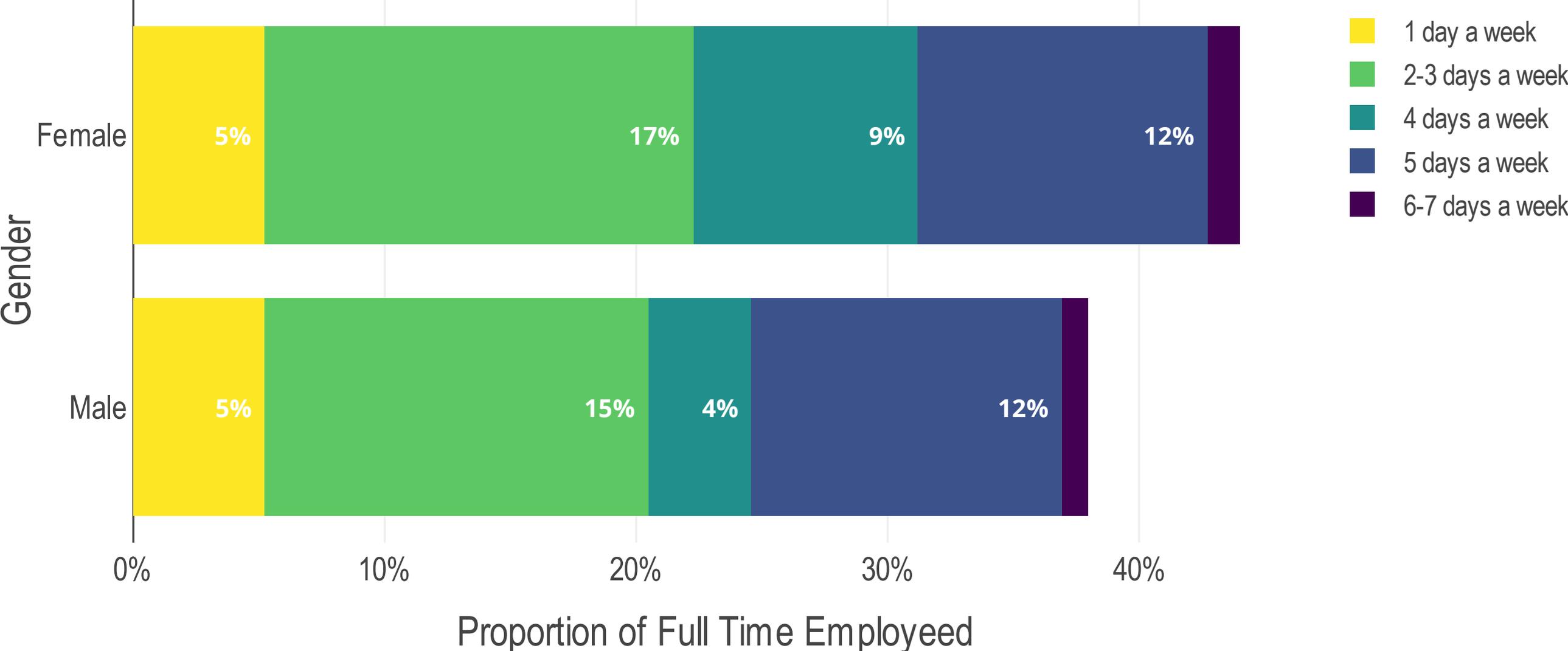
Source: TBI Household 2019-2023



# Women telework more

## 2023 Telework Frequency by Gender

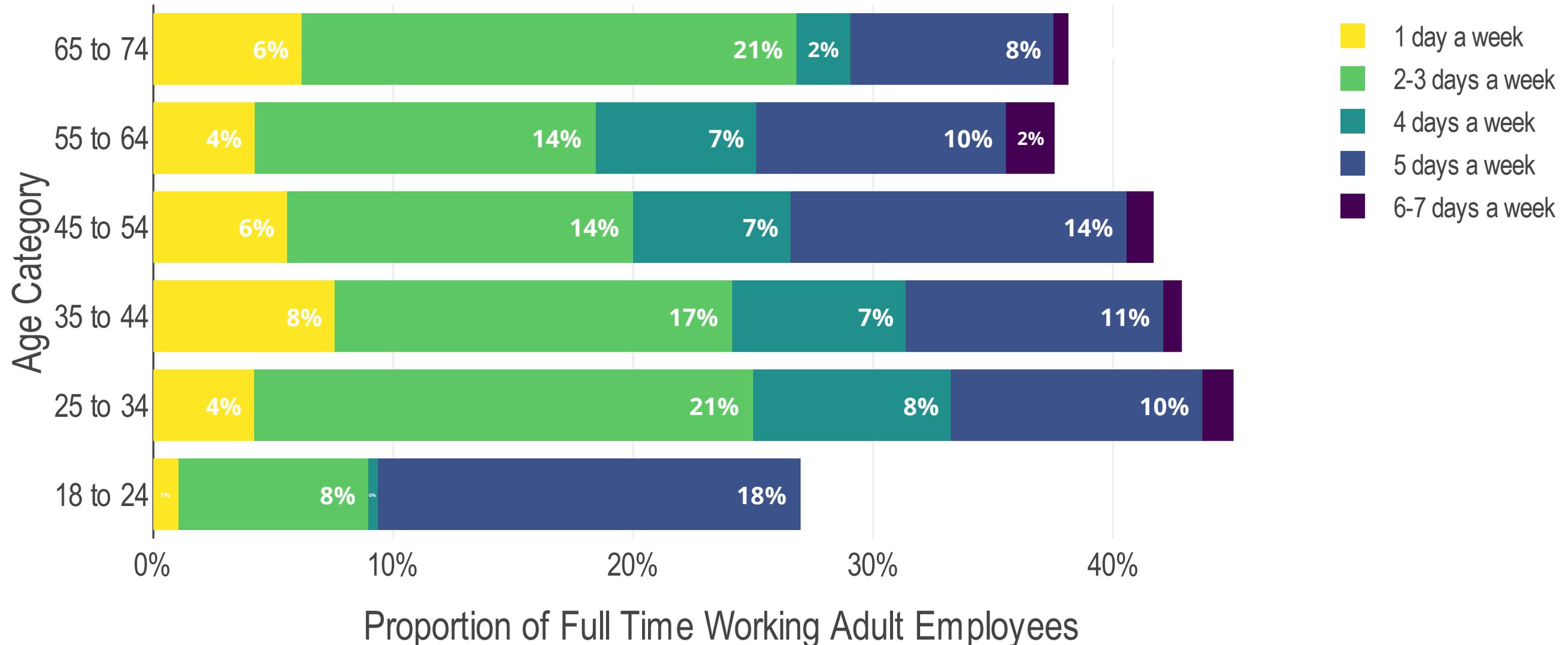
Source: TBI Household 2023



# 18 to 24 year olds differ in telework

## 2023 Telework Frequency by Age Among Working Age Adults

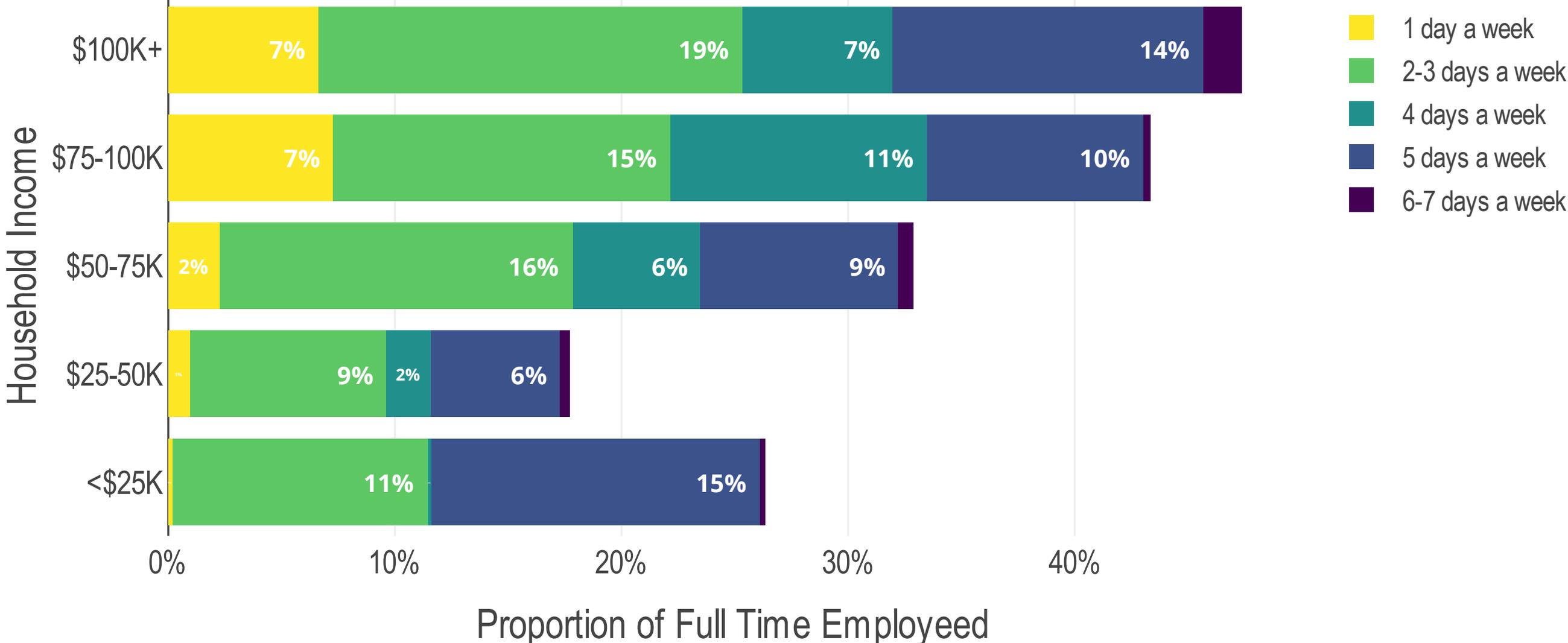
Source: TBI Household 2023



# High income household telework most

## 2023 Telework Frequency by Income

Source: TBI Household 2023



# Vehicle Miles Traveled (VMT)

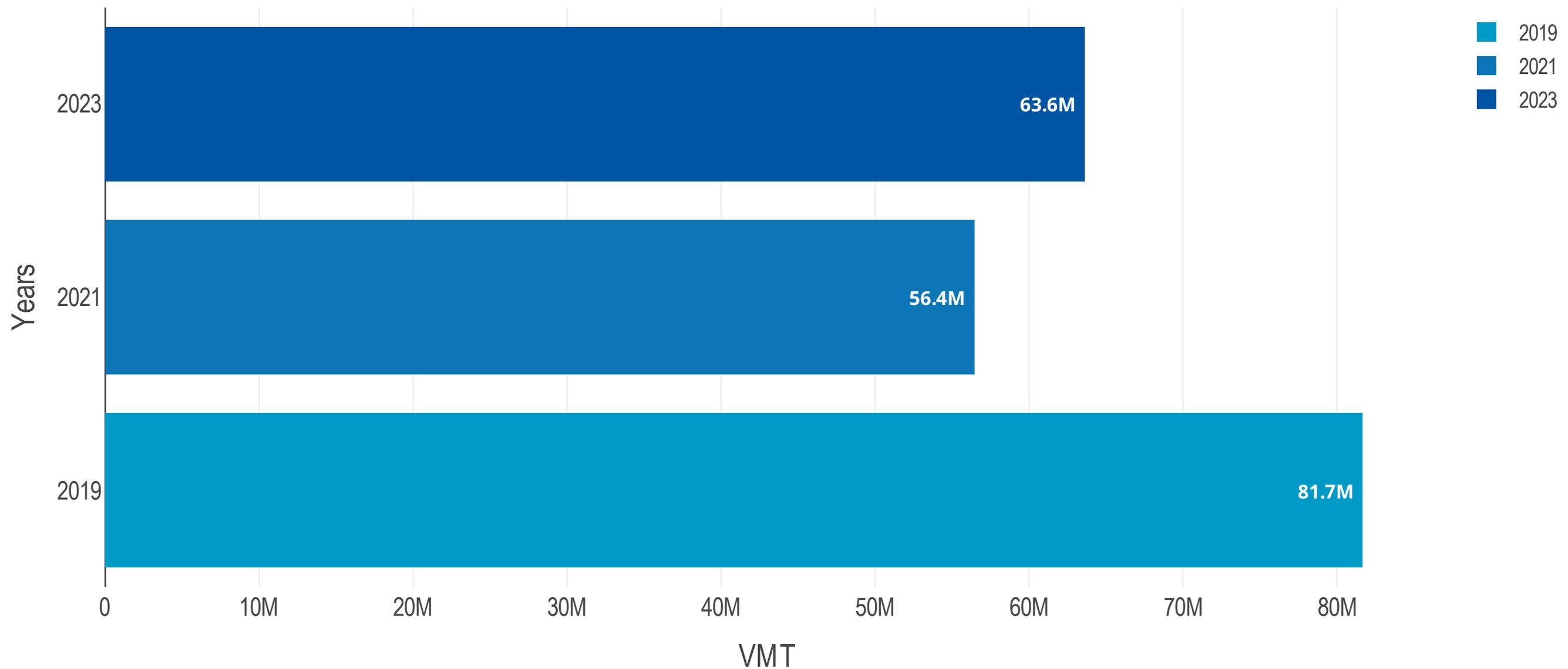
- VMT is rebounding in step with trip rates.
- Non-teleworkers create most VMT, but teleworker VMT is growing.
- Less VMT generated by work trips in 2021 and 2023.



# VMT Rebounding

Vehicle Miles Traveled (VMT) Over Survey Waves

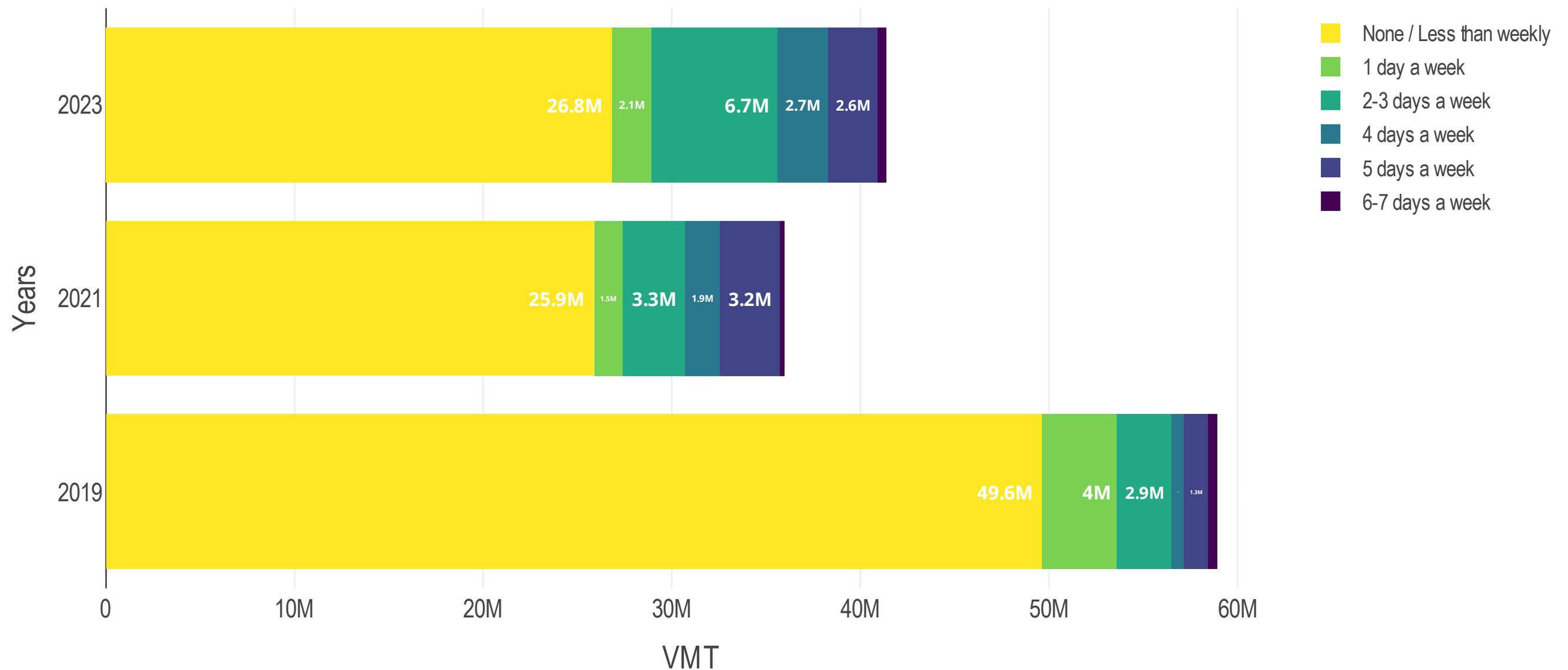
Source: TBI Household 2019-2023



# Non-teleworkers create most VMT, but teleworker VMT is growing.

## Vehicle Miles Traveled (VMT) by Telework Over Survey Waves

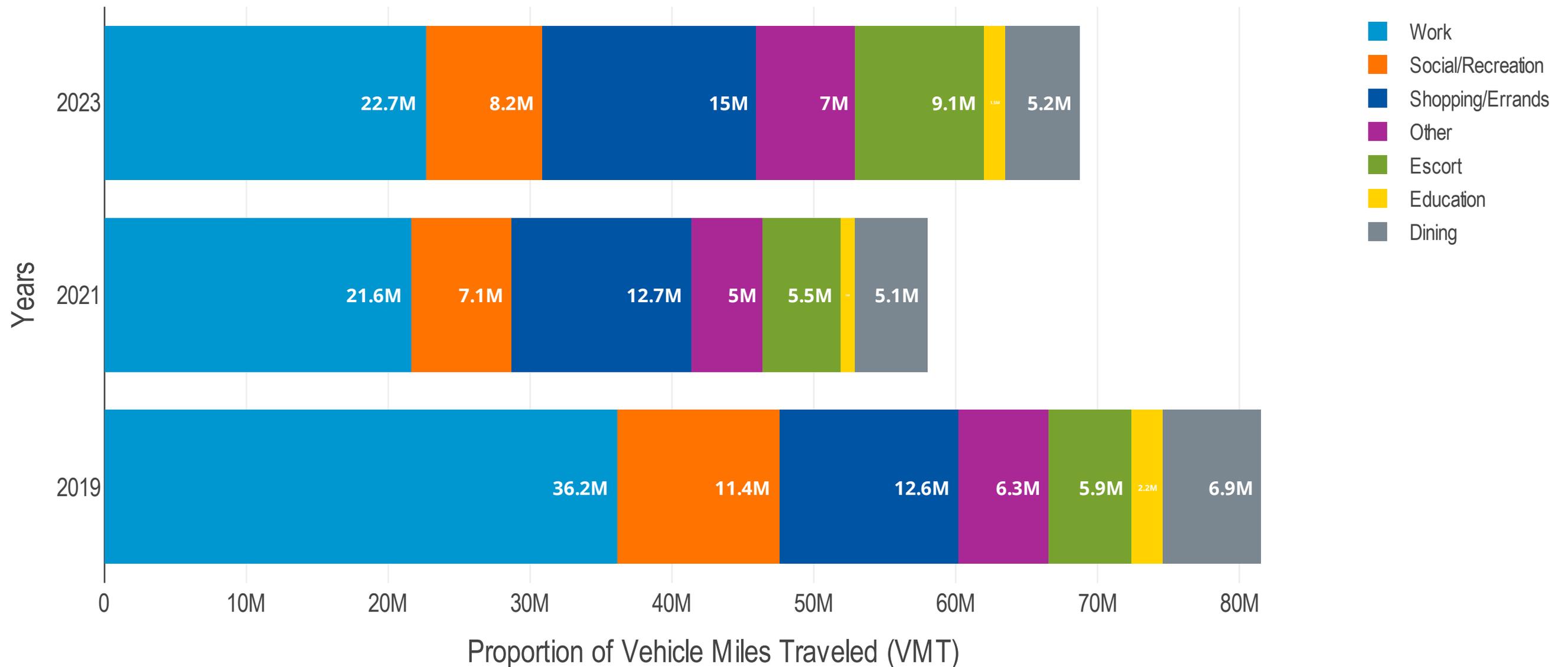
Source: TBI Household 2019-2023



# Work trips contributing less VMT

VMT by Trip Purpose

Source: TBI Household 2019-2023



# Thank you

Special thanks to

- Kenton Briggs
- Xinran (Cynthia) Zhang
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