# Puget Sound Regional Household Travel Survey Program

Bicycle Pedestrian Advisory Committee

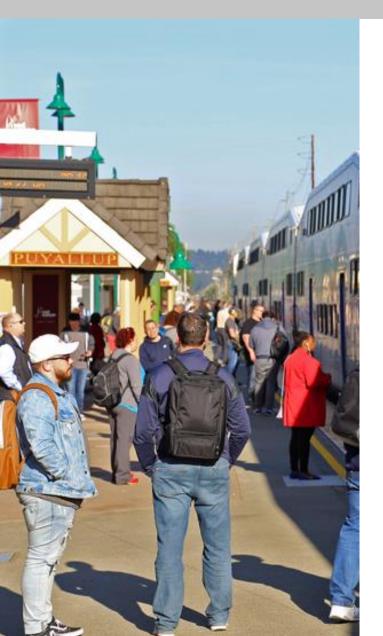




We are leaders in the region to realize equity for all. Diversity, racial equity and inclusion are integrated into how we carry out all our work.

psrc.org/equity

### Overview

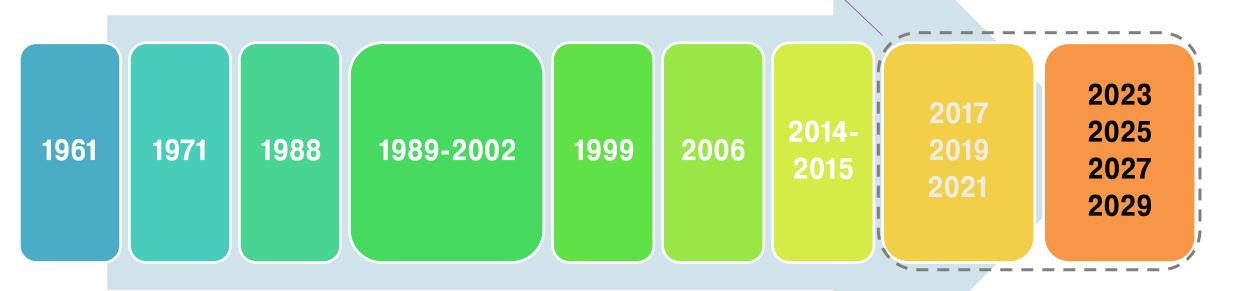


- Intro to the Household Travel Survey (HTS) Program
- Regional trends in walking & biking
- Walking & biking by geography and purpose
- Walking by demographics
- 2023 presentation schedule & 2025 survey

### **Puget Sound Regional Travel Studies**

#### More frequent snapshots

allows for more timely analysis & monitoring of trends. Data can be combined across years.





# Multi-year HTS Program

Program goal: The surveys seek to capture quality, regionally representative data for activity and travel behaviors of residents on a typical weekday.

#### **Motivations**

- Frequent snapshots, ability to combine years
- "Smoother" budgets & labor roles
- More flexibility & opportunities for addons



### **Uses of HTS data**



### **Analysis**

- Most recent regional travel behaviors & patterns
- Trends: comparisons with previous surveys

#### Model development

- SoundCast
  - Activity-based travel model system
  - Estimate activity/travel choice models
- UrbanSim
  - Parcel-based land use model system
  - Estimate residential location choice model

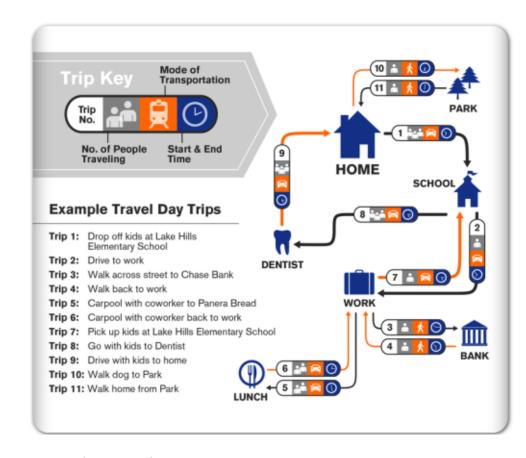


### Information in the HTS data

Who is traveling?
Where are they going?
When do they travel?
Why are they going?
How do they get there?

### Planning/policy questions

- How much do people walk?
- How does transit use vary by race?
- What kinds of households get home deliveries?
- How often do workers typically telecommute?
- · What households are displaced from their homes?





### 2017, 2019, & 2023 samples

#### Representative samples

### <u>2017 sample</u>

- 3,275 households
- Redmond & Seattle add-ons

#### <u>2019 sample</u>

- 3,044 households
- Seattle add-on

#### 2023 sample

- 3,661 households
- Bellevue & Seattle add-ons

### Sampling & stratifications

- Random address sample from USPS
- Targeted areas for oversampling
  - Low-income, no vehicles, renters, young, Regional Growth Centers
  - Lower expected response rates including rural areas





#### **TELL US HOW YOU GET AROUND**















### The 2023 HTS data – The connections are the magic

### Directly observed demographics:

- Age
- Disability (new)
- Education
- Gender
- Income
- Race & ethnicity
- Sexuality (new)

# Examples of planning topics for analysis:

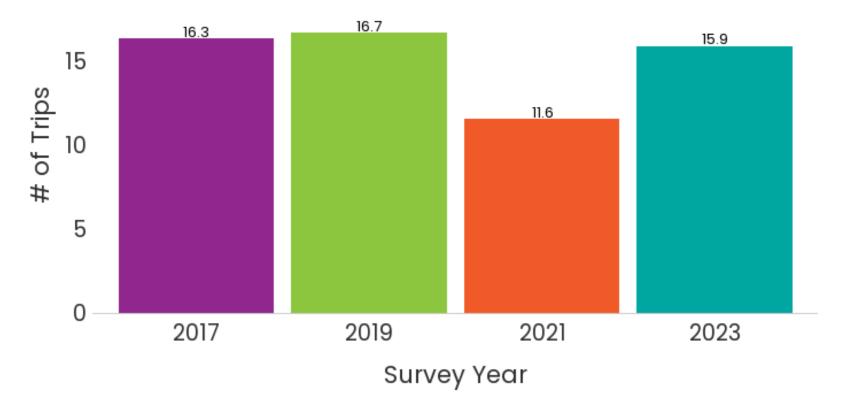
- Active travel
- Electric vehicle charging (new)
- Home deliveries
- Public transit use
- Residential displacement
- Shopping & travel purposes
- Working at home
- Vehicle miles travel & greenhouse gas emissions



### **Overall Trends**

 Number of trips made on an average weekday in 2023 is nearly back to prepandemic amount

# Total Trips in Region (in millions)

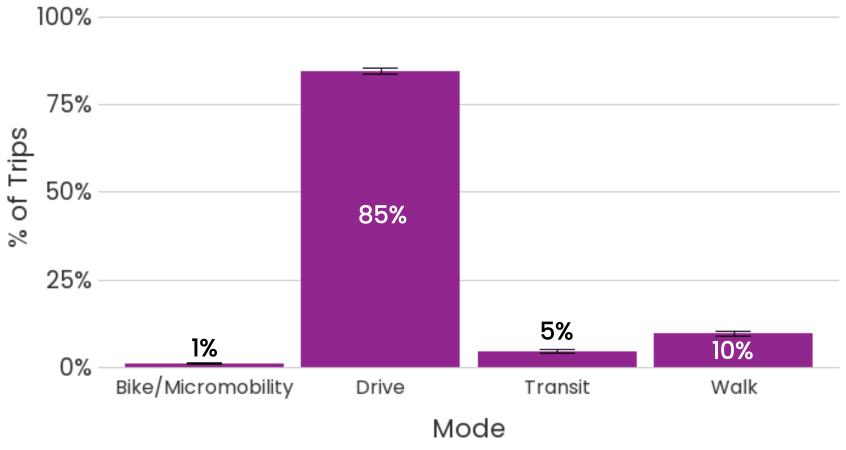




### **Overall Trends**

On an average weekday, people made 10% of trips by walking

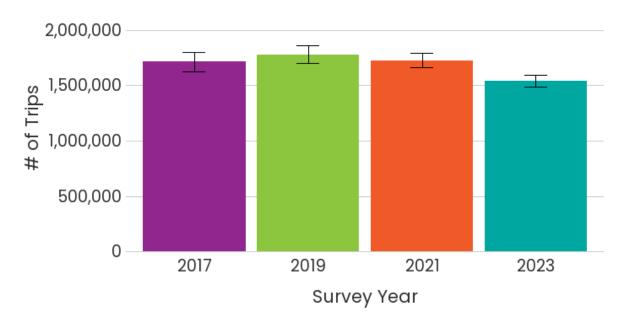
### Trips by Mode - Share (2023)



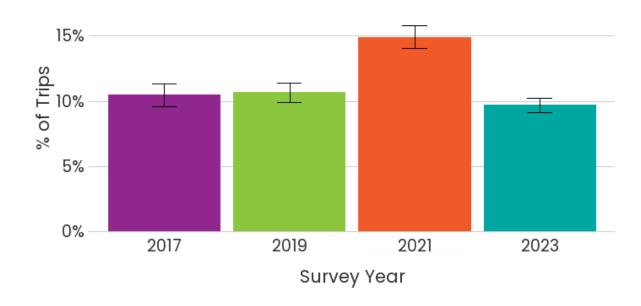
# Walking Trips

 Total number of walking trips on an average weekday decreased from 2021  Share of trips made by walking in 2023 is closer to pre-pandemic years

#### Walk Trips - Estimate



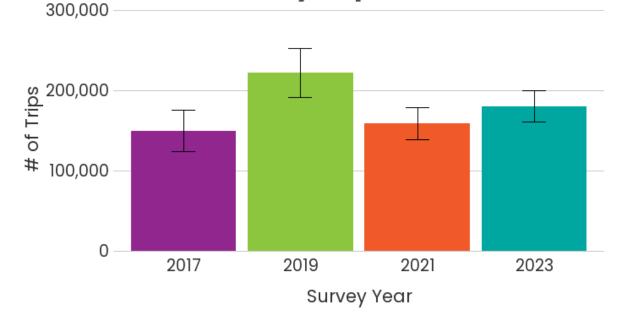
#### Walk Trips - Share



# **Biking Trips**

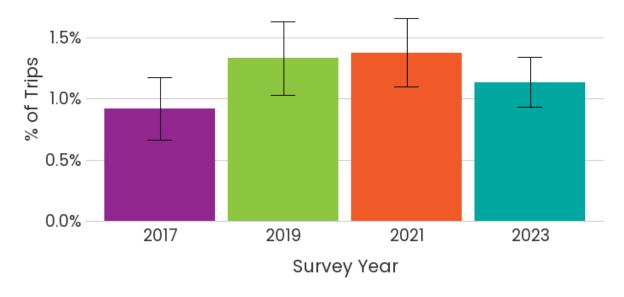
 Trips made by bicycle or micromobility fell in 2021 and began to recover in 2023

#### Bike & Micromobility Trips - Estimate



- Share of trips made by bicycle or micromobility has remained around 1% in all four survey years
- In 2023, 9% of people said they biked within the last 30 days

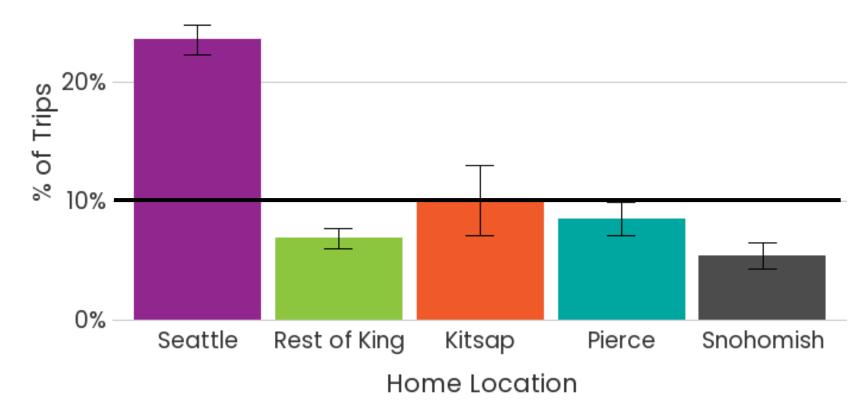
#### Bike & Micromobility Trips - Share



# Walking by Geography

- People who live in Seattle made 24% of trips by walking in 2023
- People who live in King County outside of Seattle and Snohomish County made lower share of walk trips than regional average

### Walk Trips by Home Geography - Share (2023)

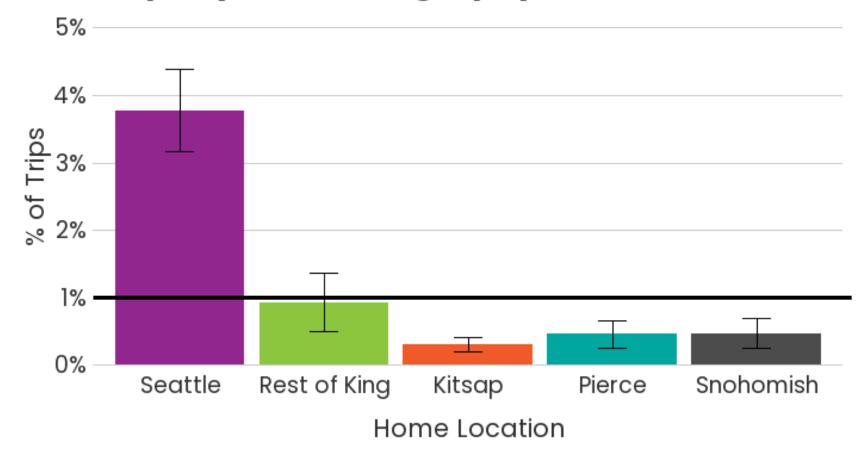




# Biking by Geography

- Share of trips made by bike/micromobility by people living in Seattle is more than 3x regional average
- People living in Kitsap, Pierce, Snohomish counties had shares lower than regional average

### Bike Trips by Home Geography - Share (2023)

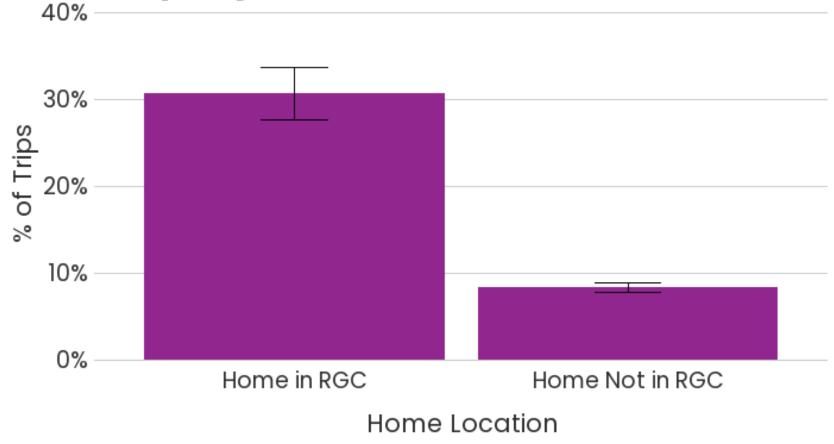




# Walking by Geography

 People who live in regional growth centers made 30% of trips by walking

### Walk Trips by Home in RGCs - Share (2023)

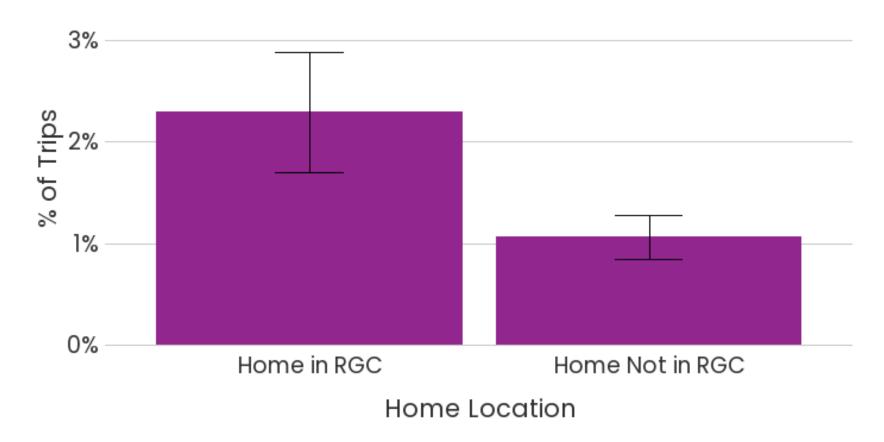




# Biking by Geography

 People living in regional growth centers had twice the share of bike & micromobility trips than those not in RGCs

### Bike Trips by Home in RGCs - Share (2023)



# **Trip Purpose**

- We ask survey respondents to select a purpose for each trip made
- Walking and biking is often done for personal recreation
- Desire to analyze walking and biking trips by recreational vs. utilitarian purposes



# **Trip Purpose**

### Recreation

- Personal exercise
- Social events with friends or family
- Family activities
- Movies or sporting events

### **Utility**

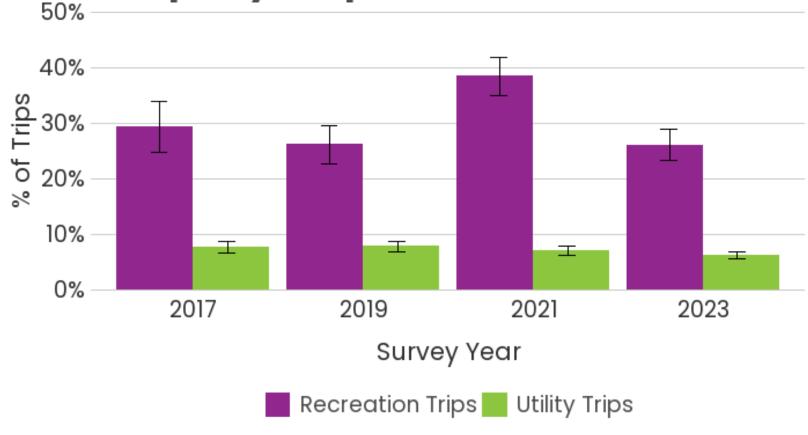
- Going to work
- Going to school
- Shopping and other errands
- Picking up/dropping off another person



### Walking Trips by Purpose

- Share of all recreation trips made by walking increased in 2021, then decreased in 2023
- Share of all utility trips made by walking decreased slightly from 2019 to 2023

### Walk Trips by Purpose - Share

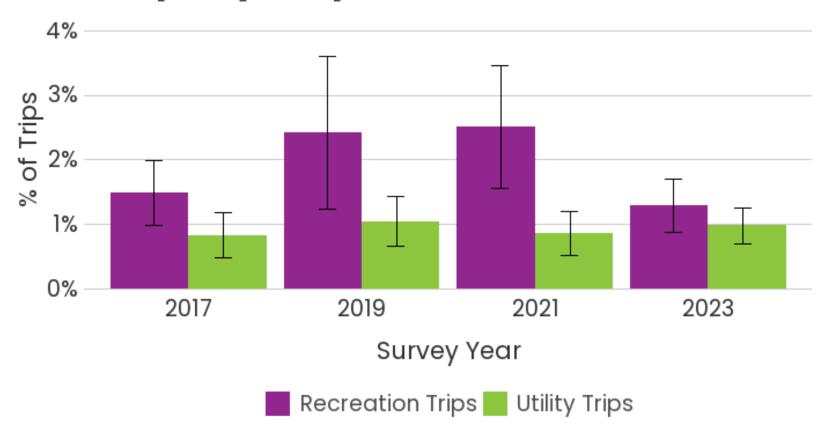




## **Biking Trips by Purpose**

- Share of all utility trips made by bike has remained around 1%
- Decrease seen in the share of all recreational trips made by bike from 2021 to 2023

### Bike Trips by Purpose - Share



### **Demographics of Walk Trips**

 Walking was 10% of trips made on an average weekday in 2023

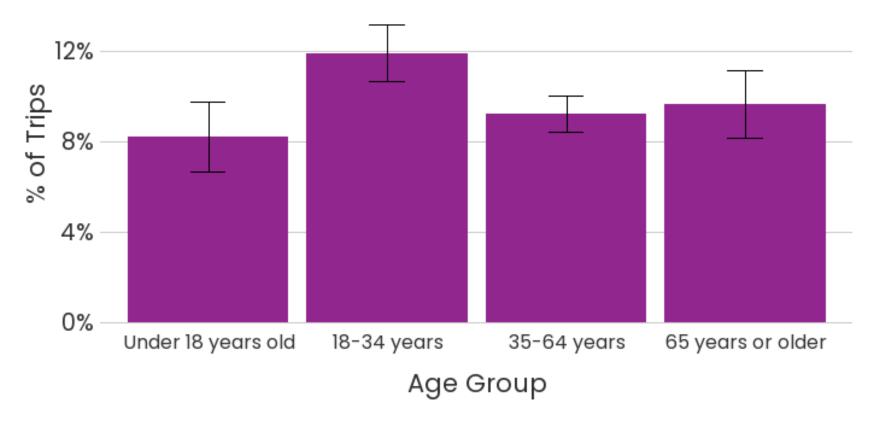
 How does that differ by age, income, and other demographics?



## Walking by Age

 Share of trips made by walking was 12% for 18-34 year olds vs. 8% for children

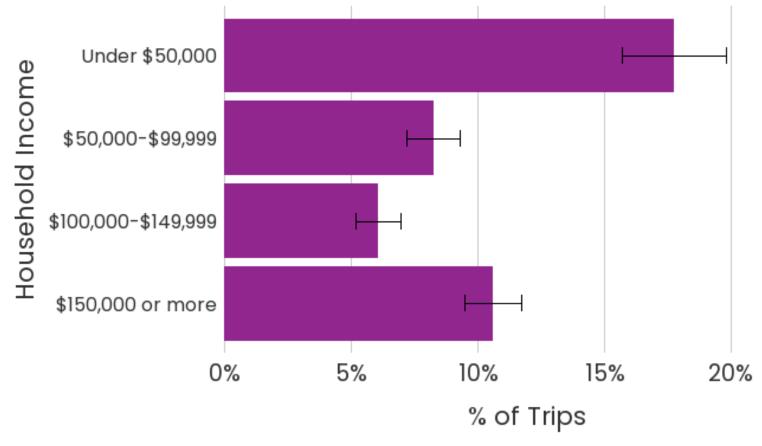
### Walk Trips by Age - Share (2023)



## Walking by Income

- People with household incomes under \$50,000 had the highest share of walk trips (18%)
- Shares of walk trips for people with household incomes \$50,000 - \$150,000 were below regional average of 10%

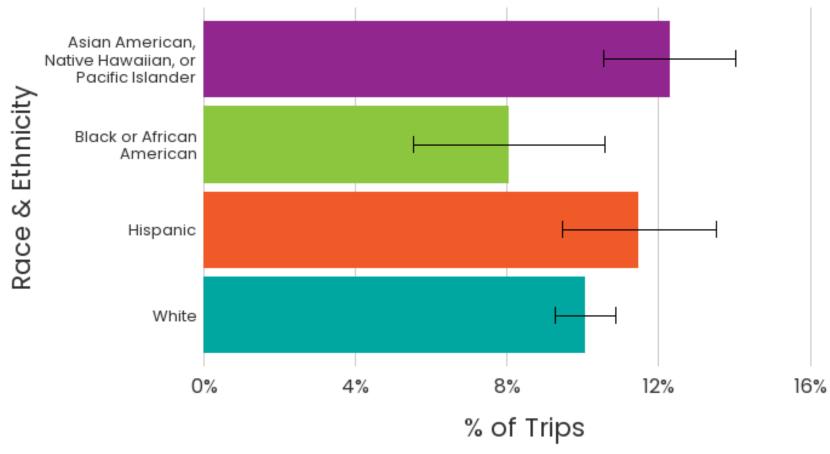
Walk Trips by Income - Share (2023)



# Walking by Race & Ethnicity

- Walking comprised a smaller share of trips made by Black or African American people compared with other groups
- Compared to other groups,
   AANHPI had the highest share of trips made by walking in 2023

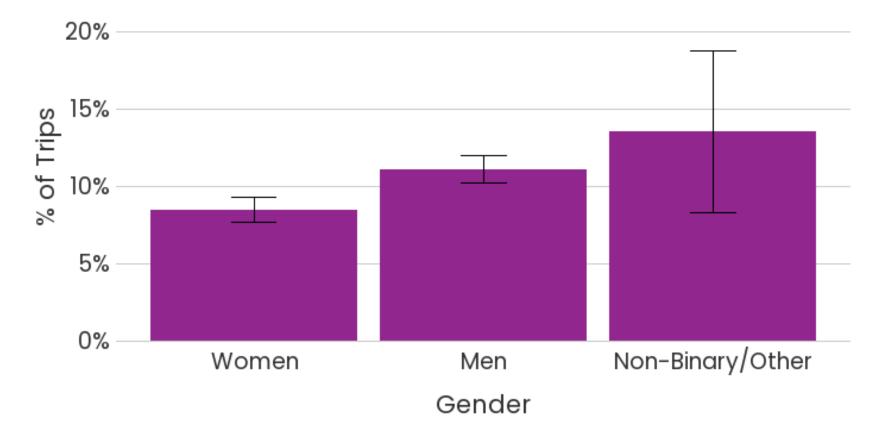
### Walk Trips by Race - Share (2023)



# Walking by Gender

 2023 survey shows men had larger share of walk trips (12%) than women (8%)

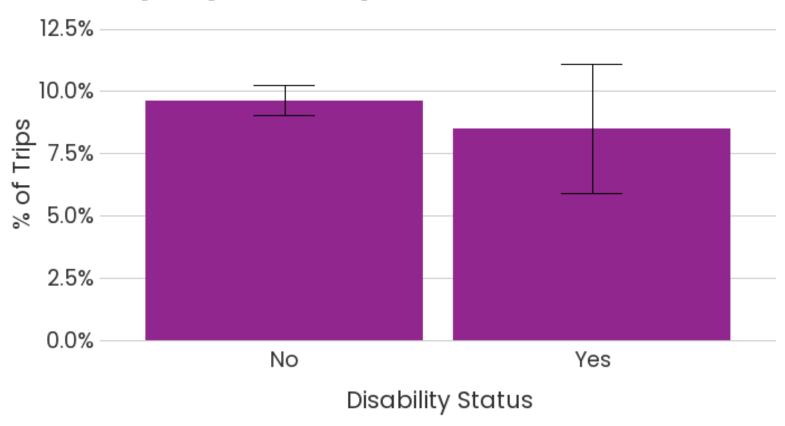
### Walk Trips by Gender - Share (2023)



# Walking by Disability Status

Survey Question: "Do you have a disability or illness that affects your ability to travel?"

### Walk Trips by Disability Status - Share (2023)



# 2023 HTS presentation schedule

Group	Date	Time	Topic
Transportation Demand Management (TDM)	8/27 Tue	10am- 12pm	Workplaces, commutes, telework
Bicycle Pedestrian Advisory Committee (BPAC)	9/10 Tue	10am- 12pm	Walk, bike, roll
Coordinated Mobility & Accessibility Committee (CMAC)	9/18 Wed	9:30- 11:30am	People with disabilities, older adults, youth, people with lower income, people with limited English proficiency
Transit-Oriented Development (TOD)	9/20 Fri	10am- 12pm	Transit & other modes, Regional Growth Centers (RGC) & High-Capacity Transit (HCT) communities
Freight Advisory Committee (FAC)	10/9 Wed	9:30- 11am	Deliveries & other travels induced by residents
Regional Staff Committee (RSC)	10/17 Thu*	9:30- 11:30am	Highlights from all topics
Transit Operator Committees (TOC)	10/23 Wed	10am- 12pm	Focus on transit behaviors

### 2025 HTS Timeline

2024 October Start 2025 HTS project with consultants

2025 February – June Data collection

July Data cleaning, processing, weighting begins

2026 March Final data delivery & publication

