

## Transportation Technical Committee Meeting Agenda

---

Wednesday, December 21, 2022 | 1:00 PM

Agenda items in highlighted text had presentations, which follow this page.

*Time Item*

- |      |   |   |
|------|---|---|
| 1:00 | 1 | Call to Order / Record of Attendance            |
| 1:02 | 2 | Approval of November 2022 TTC Meeting Minutes   |
| 1:03 | 3 | Public Comments                                 |
| 1:05 | 4 | TTC Member Comments                             |
| 1:10 | 5 | Chair Report on SRTC Board of Directors Meeting |

### ACTION ITEMS

- |      |   |   |
|------|---|---|
| 1:15 | 6 | <b>Human Services Transportation Plan: Consolidated Grant Rankings</b> (Jason Lien)     |
| 1:25 | 7 | <b>2023-2025 Transportation Improvement Program: January Amendment</b> (Eve McMenamy)   |
| 1:30 | 8 | <b>Recommend Board Presentation of Rail Corridor Identification Program</b> (Inga Note) |

### INFORMATION AND DISCUSSION ITEMS

- |      |    |  |
|------|----|--|
| 1:35 | 9  | <b>Preservation Call for Projects</b> (Eve McMenamy)                           |
| 1:50 | 10 | <b>DATA Project Update: Household Travel Survey Final Report</b> (Mike Ulrich) |
| 2:10 | 11 | <b>Bridge Program</b> (Mike Ulrich)  |
| 2:20 | 12 | <b>Transportation Performance Measures: PM1 Safety</b> (Mike Ulrich)           |
| 2:35 | 13 | <b>Agency Update and Future Information Items</b> (Ryan Stewart)               |
| 2:40 | 14 | <b>Adjournment</b>   |

# WSDOT Consolidated Grant Rankings

---

December 21, 2022

Transportation Technical Committee

Jason Lien

Agenda Item 6, Pg. 7

# Requested Action

---

**Recommend Board approval of 2023-2025 Consolidated Grant project rankings submitted through the Spokane County RTPPO, as shown in Memo Attachment 1**

# 2023-2025 WSDOT Consolidated Grants

---

- **Support for human services public transportation**
  - Capital or Operating projects
- **Funds from state and federal sources**

# Projects

---

- **Deer Park Dial-A-Ride and Community Shuttle**
- **Purchase Replacement Buses to Sustain Deer Park Services**
- **Spokane County Mobility Management Project**
- **SNAP Neighbors on the Go**



# Rankings

---

- Application process requires ranking by applicable RTPOs
- TTC and TAC volunteers assisted
- Summary in Attach. 1 with A-B-C rankings

# Application Scores

---

Project	Agency	Avg. Score	Top 3
Deer Park Dial-A-Ride & Community Shuttle	SMS	20.63	8
Neighbors on the Go	SNAP	19.69	6
Replacement Buses to Sustain Deer Park Services	SMS	18.69	8
Spokane County Mobility Management	SMS	16.06	2

# Recommended Rankings

---

Project	Agency	Avg. Score	Recomm. Ranking
Deer Park Dial-A-Ride & Community Shuttle	SMS	20.63	A
Neighbors on the Go	SNAP	19.69	A
Replacement Buses to Sustain Deer Park Services	SMS	18.69	A
Spokane County Mobility Management	SMS	16.06	B



# Decision Timeline

---

- **TTC and TAC recommendations this month**
- **Recommendation provided for Board action in January**
- **Board-approved rankings submitted to state**



# Requested Action

---

**Recommend Board approval of 2023-2025 Consolidated Grant project rankings submitted through the Spokane County RTP0, as shown in Memo Attachment 1**

Project	Agency	Avg. Score	Recomm. Ranking
Deer Park Dial-A-Ride & Community Shuttle	SMS	20.63	A
Neighbors on the Go	SNAP	19.69	A
Replacement Buses to Sustain Deer Park Services	SMS	18.69	A
Spokane County Mobility Management	SMS	16.06	B

# Thank You



Jason Lien

[jlien@srtc.org](mailto:jlien@srtc.org)

509.343.6370



## 2023-2026 Transportation Improvement Program

January Amendment (23-01)

FOR ACTION  
AGENDA ITEM 7  
Attachment  
12/21/2022 TTC Meeting

Agency	Project Title Amendment Description	Funding Adjustment	Amendment	
			New Project	Existing Project
Spokane	<b>Bemiss Elementary Walk Route Improvements</b> Remove from program. Construction was obligated 9/7/22 and all state funds awarded are obligated.			✓
Spokane	<b>Greene/Carlisle Crosswalk Improvements</b> Remove from program. Construction was obligated 10/26/22 and all state funds awarded are obligated.			✓
Spokane	<b>Nevada/Joseph Pedestrian Hybrid Beacon</b> Remove from program. Right of way was obligated 5/5/22 and Construction was obligated 9/14/22 and all state funds awarded are obligated			✓
Spokane County	<b>Sunset Hwy Br No. 0514 Removal</b> Remove from program. Right of way obligated 3/23/22 & construction obligated 5/26/22 – all federal funds awarded have been obligated			✓
WSDOT East	<b>2021-23 ER Region Wide Basic Safety - Signing</b> Update construction year from 2022 to 2023	No funding changes		✓
WSDOT East	<b>US 2/Sunset Interchange - Illumination Replacement</b> Update construction year from 2022 to 2023	No funding changes		✓
WSDOT East	<b>I-90/Sprague I/C TO SR 904 I/C - Illumination Rebuild</b> Update construction year from 2022 to 2023	No funding changes		✓

# Action

- Recommend Board approval of the January 2023 TIP Amendment





# SRTC 2024-2026 Preservation Call for Projects

---

SRTC Committees

For Information

Agenda Item 9 | Page 47

12.21.22



# Preservation Call for Projects

- High need
- Balances our transportation improvement program (TIP)
- Helps us deliver our federal funding targets



# Key dates

Date	Who	Action
January 25, 2023	<b>TTC &amp; TAC</b>	Recommend principles of investment & application
February 9, 2023	SRTC Board	Approve principles of investment & application
February 10, 2023	SRTC Staff	Call for projects released
April 14, 2023	<b>Local Agencies</b>	Application deadline
June 28, 2023	<b>TTC &amp; TAC</b>	Recommend awards
July 13, 2023	SRTC Board	Approve awards

# Principles of Investment-Draft

---

- • \$9.2M set aside by SRTC Board for 2024-2026
- The TIP Working Group offers the following points for discussion:
  - Limit project applications to include grind and overlays, chip seals & other sealant projects;
  - Limit project awards not to exceed \$1.5M; and
  - Limit any one jurisdiction total awards not to exceed \$3M

# Application-Draft

---

- Economic Vitality- 15 points
- Cooperation and Leadership- 15 points
- Stewardship- 15 points
- Systems Operations, Maintenance & Preservation- 40 points
- Quality of Life and Mobility- 15 points

# Application-Draft

**Describe the commitment of secured matching funds or other funds and the status of obtaining any unsecured funds.**

*Note: matching funds must be available at the time of fund obligation. The small towns of Fairfield, Latah, Rockford, Spangle and Waverly may utilize toll credits in lieu of local match.*

Please indicate if there are any circumstances that could delay the obligation of funds.

## 1. ECONOMIC VITALITY – 15 POINTS

### Employment and Destination Accessibility

**1a (5).** To be scored internally by SRTC staff with the maps ~~referenced in the table below~~ in Horizon 2045 in Figure 2.19 (See respective layers in online [map](#))

Project Score	Category	Criteria and Requirements
5	<del>Provides a</del> <u>Project location is a critical connection within or directly connecting to a regional activity center between two or more core areas (see employment core map)</u>	Increasing the efficiency of one or more modes to an employment core.
3	Serves a regionally significant <del>employment</del> <u>transportation center (see employment center map e.g. park and rides, airport, transit centers, etc.)</u>	Improving or enhancing the movement of workers, freight, and/or services to/from an employment center.
1	<del>Serves a regional transportation center (see transportation center map)</del> <u>Project location is a critical connection to a local activity center.</u>	Improving access to terminals (air, transit, or multimodal).

# Application-Draft

## 4. SYSTEMS OPERATIONS, MAINTENANCE AND PRESERVATION – 40 POINTS

### Condition

#### 4a (30). Structural Condition Preservation -30 points

What is the pavement OCI and what year was the last measurement?

- ☐ OCI 41-55 (10 points)
- ☐ OCI 56-65 (20 points)
- ☐ OCI 66-85 (30 points)

### National Highway System

#### 4b (10) Is the project on:

**Scored internally by SRTC staff.**

- ☐ The National Highway System (NHS) (10 points)? (Horizon 20402045, page 2-22figure 2.28)
- ☐ A Minor Arterial or Major Collector (5-8 points)? (This change supports need for other arterials and improves scoring for roads from smaller cities/towns)



# Application - Draft

## Bicycle and Pedestrian Improvements

**5a (5)** Does this project benefit pedestrian transportation and/or mobility? Example – Crosswalk enhancements. If the project does not require ADA upgrades but the project includes ADA upgrades please include here.

Explain

**6.0 Equity (Not scored)** SRTC will provide a map of the project over the Washington Environmental Health Disparities Map (Score  $\geq 7$ ) -and Areas of Potential Disadvantage from Horizon 2045, Figure 2.10.



An aerial night photograph of a city, likely Seattle, with numerous illuminated buildings and streets. In the background, dark mountains are visible under a twilight sky. The word "Questions" is written in a large, white, sans-serif font across the center of the image, with a thin white horizontal line underneath it.

# Questions





# DATA Project Update: Household Travel Survey Final Report

---

TTC Meeting

Agenda Item 10 | Page 55

December 21, 2022

# DATA Project

---

**Task 1: Household Travel Survey**

**Task 2: Passive Data**

**Task 3: Traffic Counts**

**Task 4: Model Updates**

**Task 5: Land Use Allocation Tool**

**Task 6: Online Data Hub**

# Household Travel Survey

---

- Timeline
- Objectives and Highlights
- Sampling Plan & Response Rates
- Survey Design & Materials
- Expansion and Weighting
- Results

# Timeline

**TABLE 1: STUDY TIMELINE**

Phase	Timeline
Design the study approach and questionnaire	August – October 2021
Create the sample plan, invitations, and outreach plan	September – November 2021
Program survey instruments	October – November 2021
SRTC test survey instruments	November – December 2022
Conduct household travel survey	February – April 2022
Clean and weight survey data	April – July 2022
Finalize study documentation	August – October 2022
Project closure	December 2022

# Objectives and Highlights

---

- **Two-part study**
  - Recruit survey
  - Travel diary
- **Multiple modes of data collection**
  - Smartphone app
  - Website
  - Call center
- **Address based sample**
  - Probability-based method; all households within each defined area have an equal chance of selection for the sample
  - Compensatory and targeted oversampling

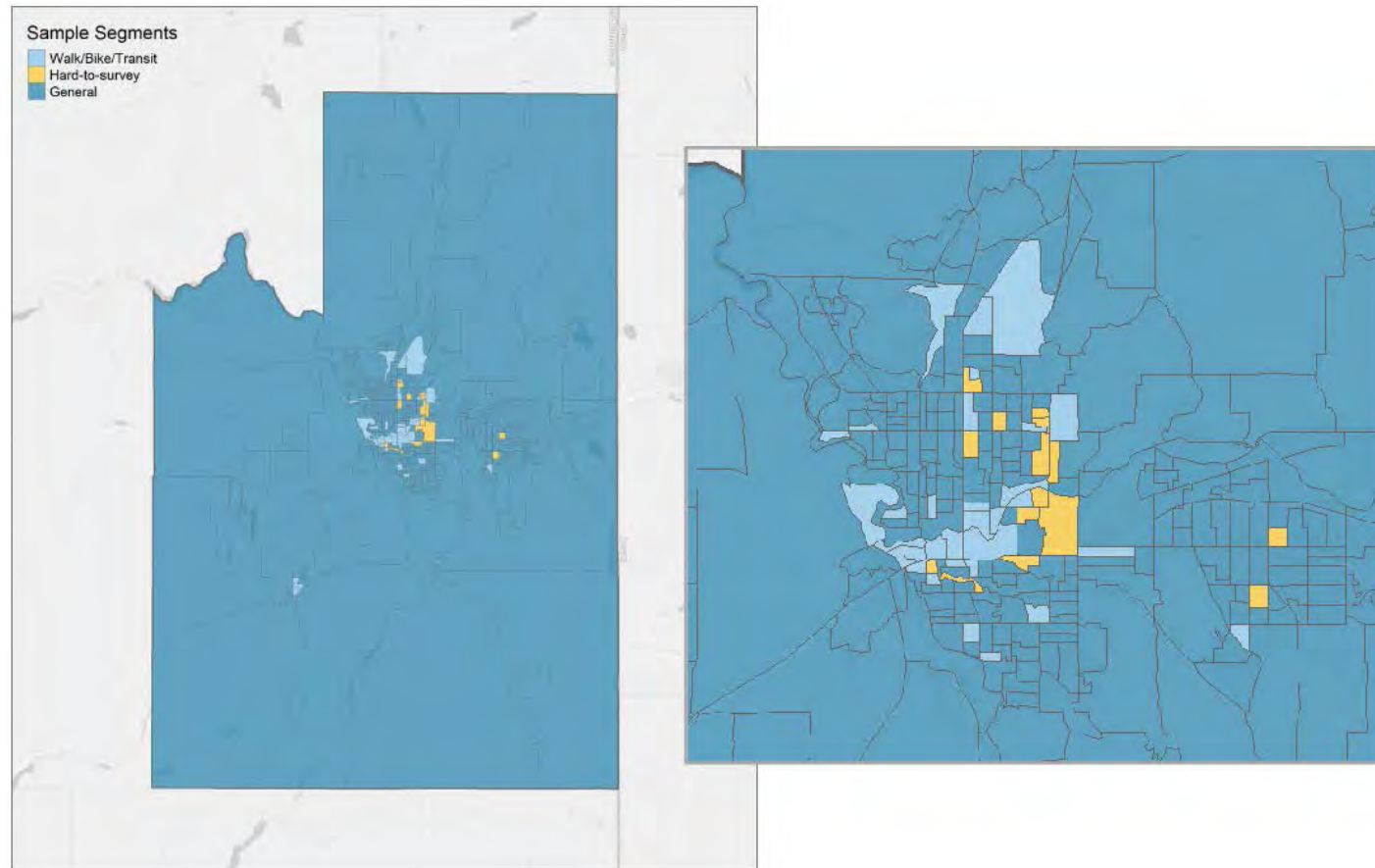
# Sampling Plan

- Goal: 1,500 households, resulting in a 0.7% target sample rate
- Sample Stratification/Segmentation
  - General population
  - Hard-to-survey Oversample
  - Walk/Bike/Transit Oversample

SAMPLE SEGMENT	CENSUS BLOCK GROUPS	TOTAL HOUSEHOLDS	TOTAL ADULTS	ADULTS PER HOUSEHOLD
Walk/Bike/Transit	36	18,228	36,727	2.01
Hard-to-survey	15	7,354	12,728	1.73
General	271	177,229	343,722	1.94
Total	322	202,811	393,177	1.94

SAMPLE SEGMENT	TOTAL HOUSEHOLDS	INVITATIONS	INVITATION RATE	ESTIMATED COMPLETED HOUSEHOLDS	SAMPLE RATE
Walk/Bike/Transit	18,228	10,645	58.4%	202	1.1%
Hard-to-survey	7,354	3,865	52.6%	54	0.7%
General	177,229	65,490	37.0%	1,244	0.7%
Total	202,811	80,000	39.4%	1,500	0.7%

# Sample and Oversample





# Survey Response

Segment	Invitations <sup>7</sup>	<i>Expected</i>			<i>Actual</i>		
		Response Rate	Complete Households	Sample Rate	Response Rate	Complete Households	Sample Rate
Walk/Bike/Transit	10,645	1.9%	202	1.1%	2.5%	267	1.5%
Hard-to-survey	3,865	1.4%	54	0.7%	3.0%	115	1.6%
General	65,490	1.9%	1,244	0.7%	2.4%	1,571	0.9%
<b>TOTAL</b>	<b>80,000</b>	<b>1.8%</b>	<b>1,500</b>	<b>0.7%</b>	<b>2.4%</b>	<b>1,953</b>	<b>1.0%</b>

# Survey Design

---

- Questionnaire aligned closely with the HTS for other agencies (i.e. – Skagit, Whatcom, etc.) in Washington
- Project team worked with STA and WSDOT to develop region specific questions
- Included questions about travel behavior changes due to COVID
- Invitation materials for the study were printed in English, Spanish, Russian, Chinese, and Vietnamese
- \$10–\$30 gift card participation incentives

# Materials

- Consistent branding
- Invitation letter
- Reminder post card
- Study website



SPOKANE REGIONAL TRANSPORTATION COUNCIL | 401 W. Riverside Ave. Suite 500 | Spokane, WA 99201

<First and last name/City name resident>  
<Street Address 1>  
<Street Address 2>  
<City, State <#####>

<Letter Date>

The Spokane Regional Transportation Council (SRTC) is inviting you to participate in the Spokane Regional Transportation Study. We are conducting this survey to collect accurate information about residents' day-to-day travel throughout the region.

By taking part, you'll help us understand how local roads, highways, public transportation, bike lanes, and sidewalks are used today, and how they can be improved to make travel better in the future. We want to hear from you even if you don't travel often. Your input will have a big impact because only a limited number of households have been invited to participate in the survey. Follow the instructions below to sign up today. Your voice can shape the future of your community.

Signatory  
Signatory Title  
Spokane Regional Transportation Council

GET STARTED TODAY

INVITATION ACCESS CODE: XXXXXXXXX

<b>OPTION 1</b>	 If you own a smartphone, download the smartphone app <b>rMove™</b> and sign up	Tell us about your travel for <b>7 Days</b>	Receive <b>\$XX per adult</b> after completing the survey
<b>OR</b>			
<b>OPTION 2</b>	 If you don't own a smartphone, sign up at <b>SpokaneTransportationStudy.com</b> or call <b>1-XXX-XXX-XXXX</b>	Tell us about your travel for <b>1 Day</b>	Receive <b>\$XX per household</b> after completing the survey

You can also participate in Russian, Spanish, Vietnamese, and Chinese by calling XXX-XXX-XXXX toll-free.

**РУССКИЙ** — Приглашаем Вас пройти опрос на тему используемых способов передвижения. Приняв участие в этом опросе, Вы поможете улучшить транспортную инфраструктуру в своем сообществе. После полного прохождения опроса в знак благодарности мы отправим Вам подарочную карту. Для регистрации посетите веб-сайт [SpokaneTransportationStudy.com](http://SpokaneTransportationStudy.com) или позвоните по номеру XXX-XXX-XXXX.

**ESPAÑOL** — Lo(s) invitamos a responder una encuesta sobre cómo viaja usted. Al participar, puede ayudarnos a mejorar las opciones de transporte de su comunidad. Una vez que haya respondido la encuesta, le enviaremos una tarjeta de regalo a modo de agradecimiento. Para registrarse, visite [SpokaneTransportationStudy.com](http://SpokaneTransportationStudy.com) o llame al XXX-XXX-XXXX.

**VIETNAMESE** — Chúng tôi mời quý vị hoàn thành một cuộc khảo sát về cách quý vị di chuyển. Bằng việc tham gia khảo sát này, quý vị có thể giúp chúng tôi cải thiện các lựa chọn về giao thông trong cộng đồng của quý vị. Sau khi quý vị hoàn thành khảo sát, chúng tôi sẽ gửi cho quý vị một thẻ quà tặng để thay lời cảm ơn. Để đăng ký, xin vui lòng truy cập [SpokaneTransportationStudy.com](http://SpokaneTransportationStudy.com) hoặc gọi XXX-XXX-XXXX.

**CHINESE** — 我們邀請您或貴家旅行方式的調查。通過參與本研究，您可以幫助我們瞭解未來如何改進您所在社區的交通運輸。在完成調查後，我們將會送您一張禮券，以表示感謝。如要登記加入，請瀏覽 [SpokaneTransportationStudy.com](http://SpokaneTransportationStudy.com) 或致電 XXX-XXX-XXXX。

Learn more at [SpokaneTransportationStudy.com](http://SpokaneTransportationStudy.com) or by calling 1-XXX-XXX-XXXX

# Expansion and Weighting

---

## Household-level:

- Total households
- Household size
- Number of household workers
- Household income
- Number of household vehicles
- Age of head of household
- Presence of children

## Person-level:

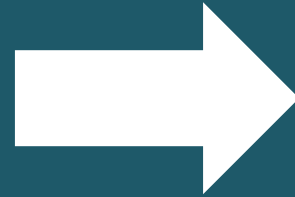
- Total persons
- Gender
- Age
- Worker status
- Race
- University student status

*The full weighting process is delineated in a separate weighting memo provided with the final dataset delivery.*

# Expansion and Weighting (cont.)

---

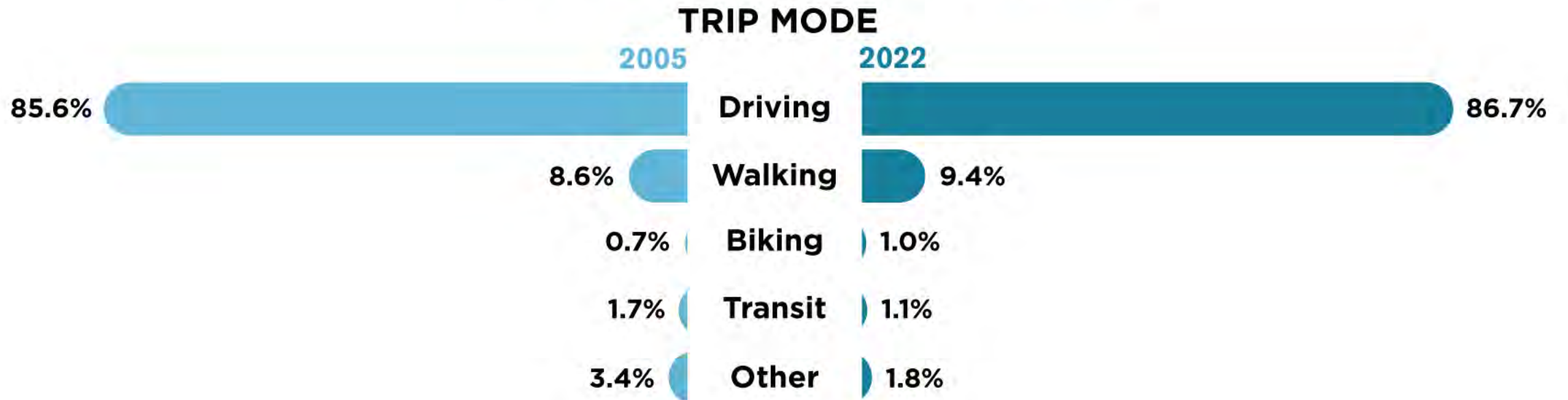
**Sample:**  
**1,953**  
Households



**Population:**  
**202,811**  
Households

# Results

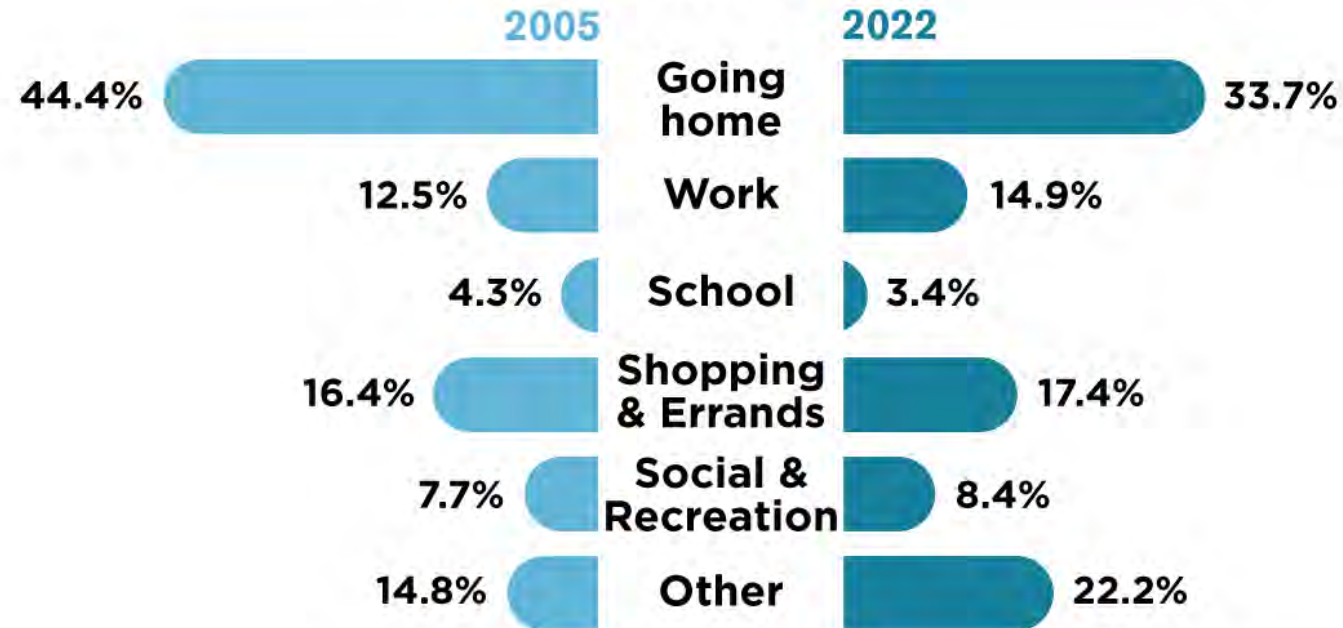
## How Do We Get There?



# Results

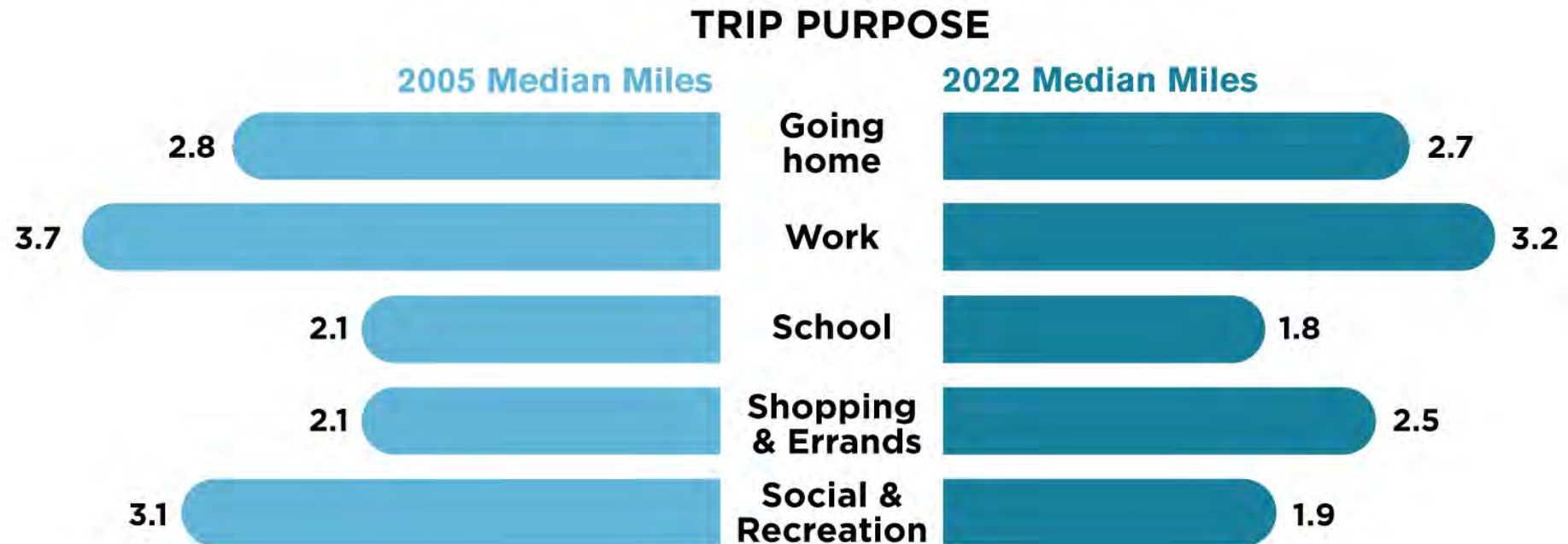
## Why Do We Travel

### TRIP PURPOSE



# Results

## How Far Do We Travel?





# Results

---

## How Has Travel Changed Since COVID-19?

Before March 2020,

**28%** of

workers teleworked  
at least once per week.



In spring 2022,

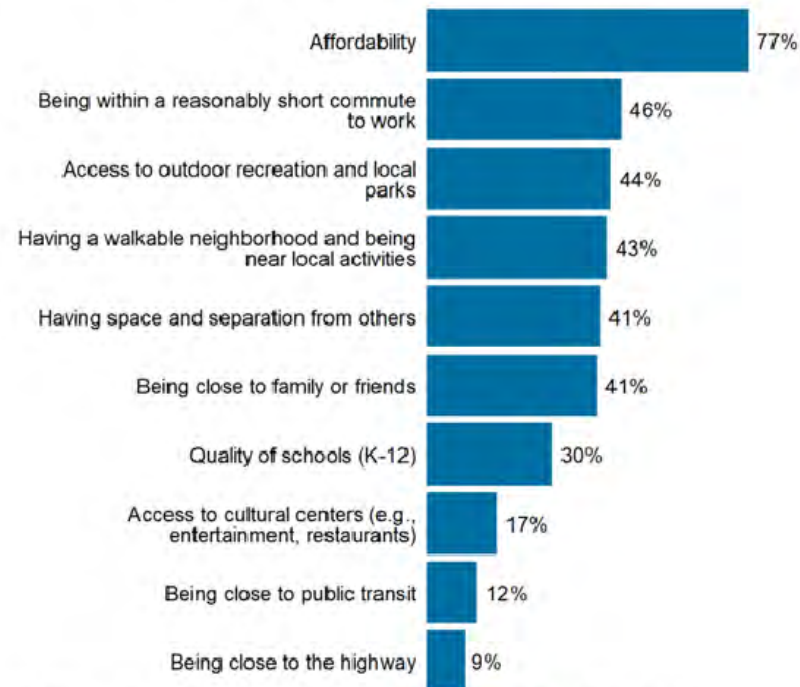
**34%** of

workers were teleworking  
at least once per week.

# Additional Questions

FIGURE 38: "WHICH FACTORS WERE IMPORTANT IN CHOOSING WHERE YOU LIVE NOW?" (WEIGHTED)

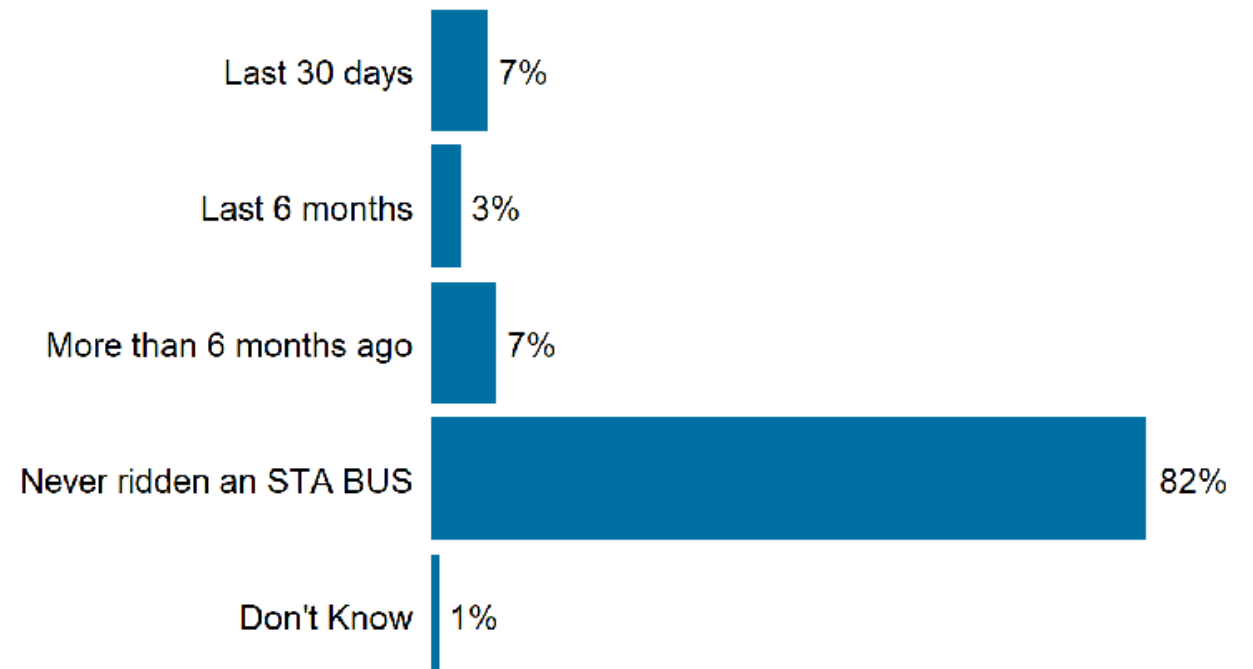
UNWEIGHTED N = 1,941, WEIGHTED N = 200,914



Note: Respondents could select more than one answer to this question.

FIGURE 37: "WHEN WAS THE LAST TIME YOU RODE AN STA BUS?" (WEIGHTED)

UNWEIGHTED N = 3,123, WEIGHTED N = 351,578



# Planning + Policy Applications

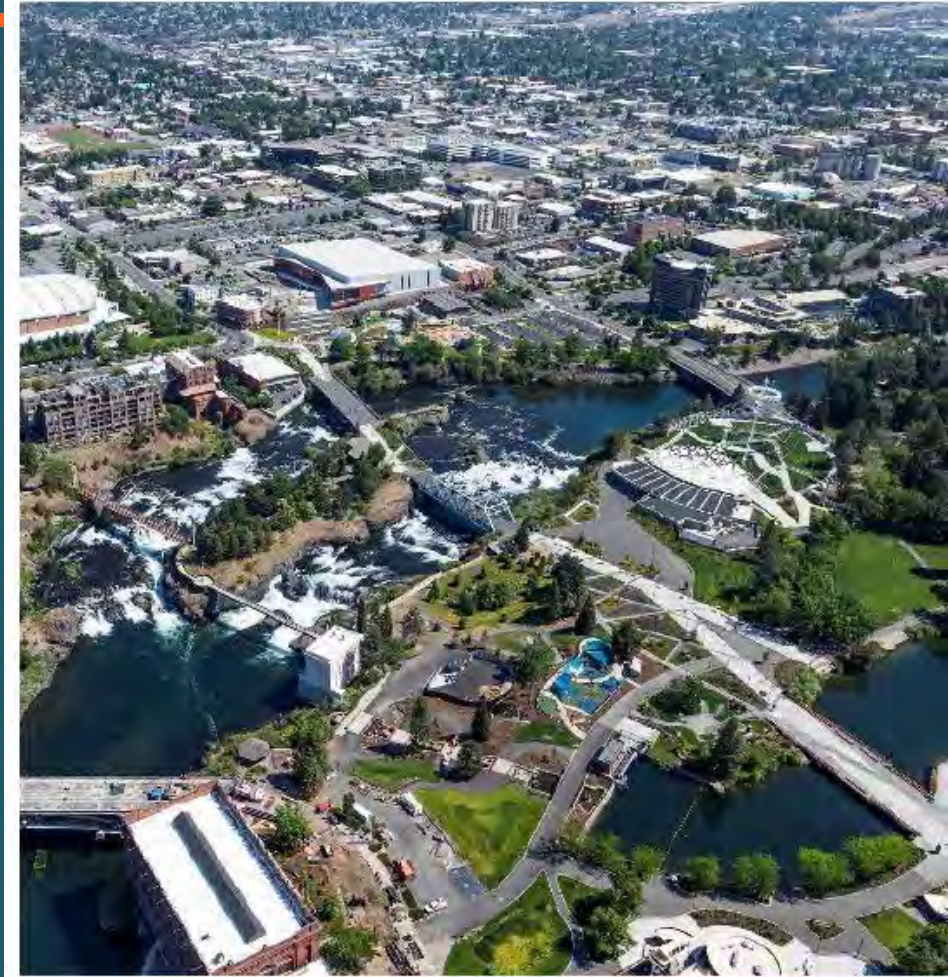
---

- Travel behavior
- Traffic safety
- Congestion
- The environment
- Demographic trends
- Bicycle and pedestrian studies
- The mobility sharing economy
- Transit planning

# Final Report

[srtc.org/2022-household-travel-survey/](https://srtc.org/2022-household-travel-survey/)

## 2022 SPOKANE REGIONAL TRANSPORTATION STUDY: FINAL REPORT



# Questions?

---

Mike Ulrich, AICP

Principal Transportation Planner

[mulrich@srtc.org](mailto:mulrich@srtc.org) | 509.343.6384





# Bridge Formula Program

---

TTC Meeting

Agenda Item 11 | Page 57

December 21, 2022

# Program Objective

---

**...to improve the condition of bridges through replacement, rehabilitation, and preventative maintenance**



# Program Funding Categories

---

- 1) Replacement and rehabilitation
- 2) Preventative maintenance
- 3) Bundled projects

# 2022 Funding Award

---

**Bridge: Chestnut Street Overcrossing Latah Creek**

**Award Amount: \$2,037,000**

**Project Type: Preventative Maintenance – Scour**

# 2023 Estimated Funding

---

- Nationwide: \$5.3B
- State of Washington: \$130M
- Locals: \$60M

# Spokane Bridge Condition

---

Poor	26
Fair	122
Good	157
<b>TOTAL</b>	<b>305</b>

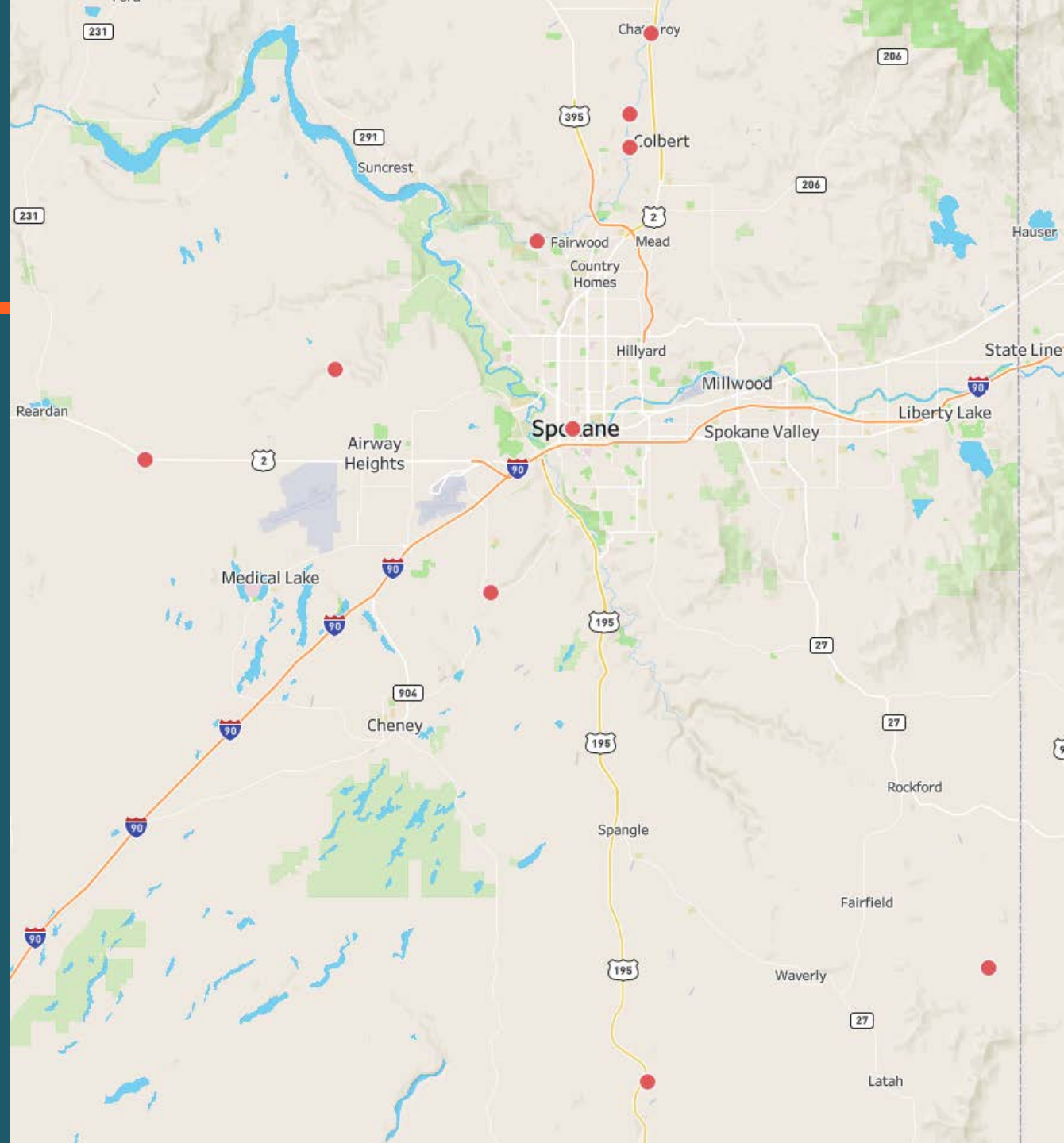
*6 of the bridges in poor condition have inspections older than 2 years*

# “Off-System” Bridges

...a highway bridge located on a public road, other than a bridge on a Federal-aid highway.

*23 U.S.C. 101(a)(6)*

Poor	10
Fair	60
Good	65
<b>TOTAL</b>	<b>135</b>



# Transportation Performance Management

---

**Percentage of NHS Bridges in Good Condition**

**Percentage of NHS Bridges in Poor Condition**

# Discussion

---

**What challenges do local jurisdictions face in impacting bridge performance?**

**Are there specific challenges to deliver projects once bridge funding has been obligated?**

**How can SRTC be of value to members relative to the Bridge Program?**

# Working Group Option

---

## Potential Stakeholders:

Local engineering staff

WSDOT bridge engineers

SRTC Staff to provide technical (data) assistance

Increased bridge money will be on the table in 2023. How do we improve bridge performance in the planning area?



# Questions?

---

Mike Ulrich, AICP

Principal Transportation Planner

[mulrich@srtc.org](mailto:mulrich@srtc.org) | 509.343.6384



# Transportation Performance Management: Safety Targets

---

TTC Meeting

Agenda Item 12 | Page 58

December 21, 2022

# Highway Safety Improvement Program (HSIP)

# Moving Ahead for Progress in the 21st Century (MAP-21)

# Federal Highway Administration (FHWA)

# Transportation Performance Management (TPM)

# Safety



1.Fatalities

2.Fatalities per 100M vehicle miles traveled

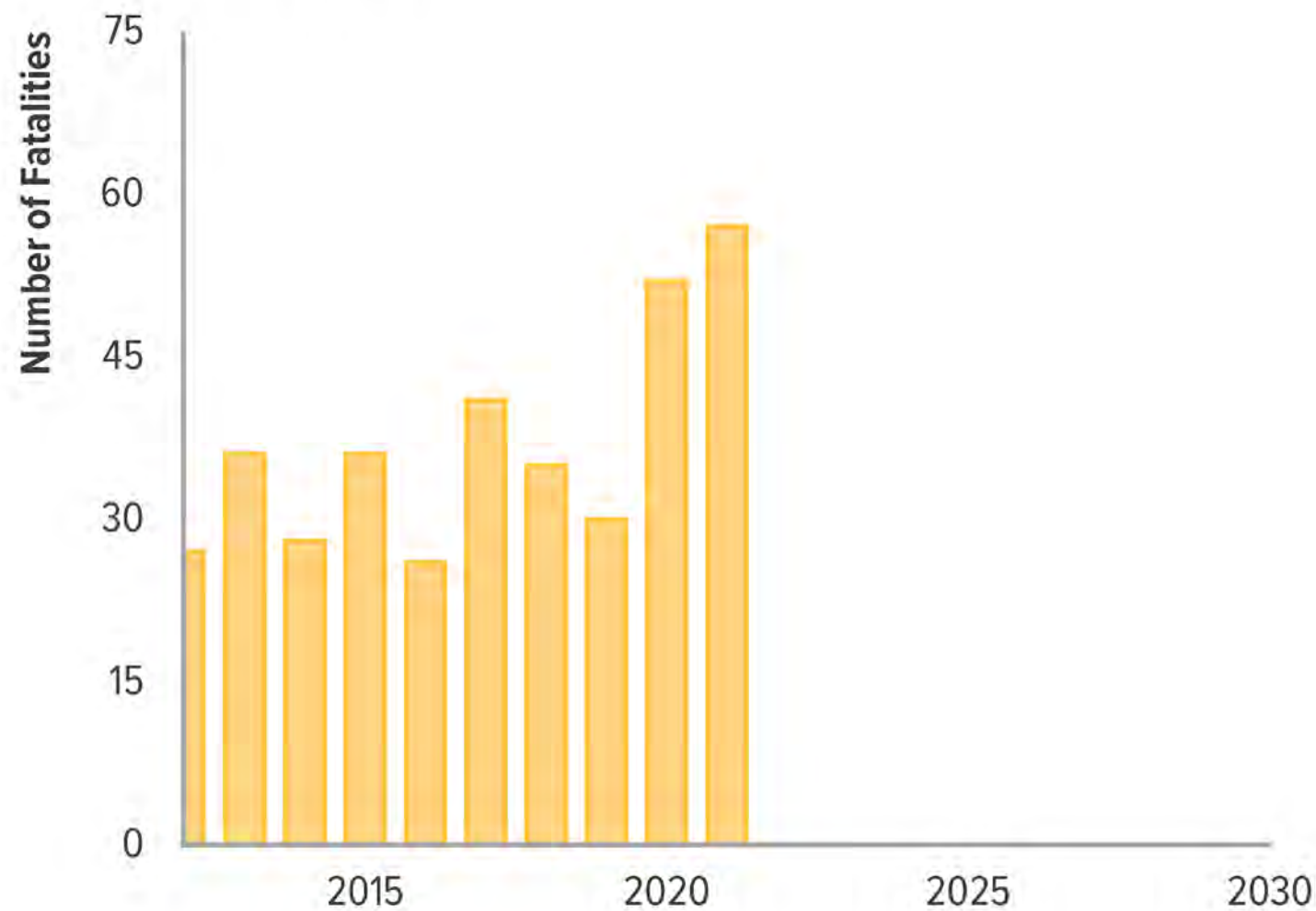
3.Serious injuries

4.Serious injuries per 100M vehicle miles traveled

5.Non-motorist fatalities and serious injuries

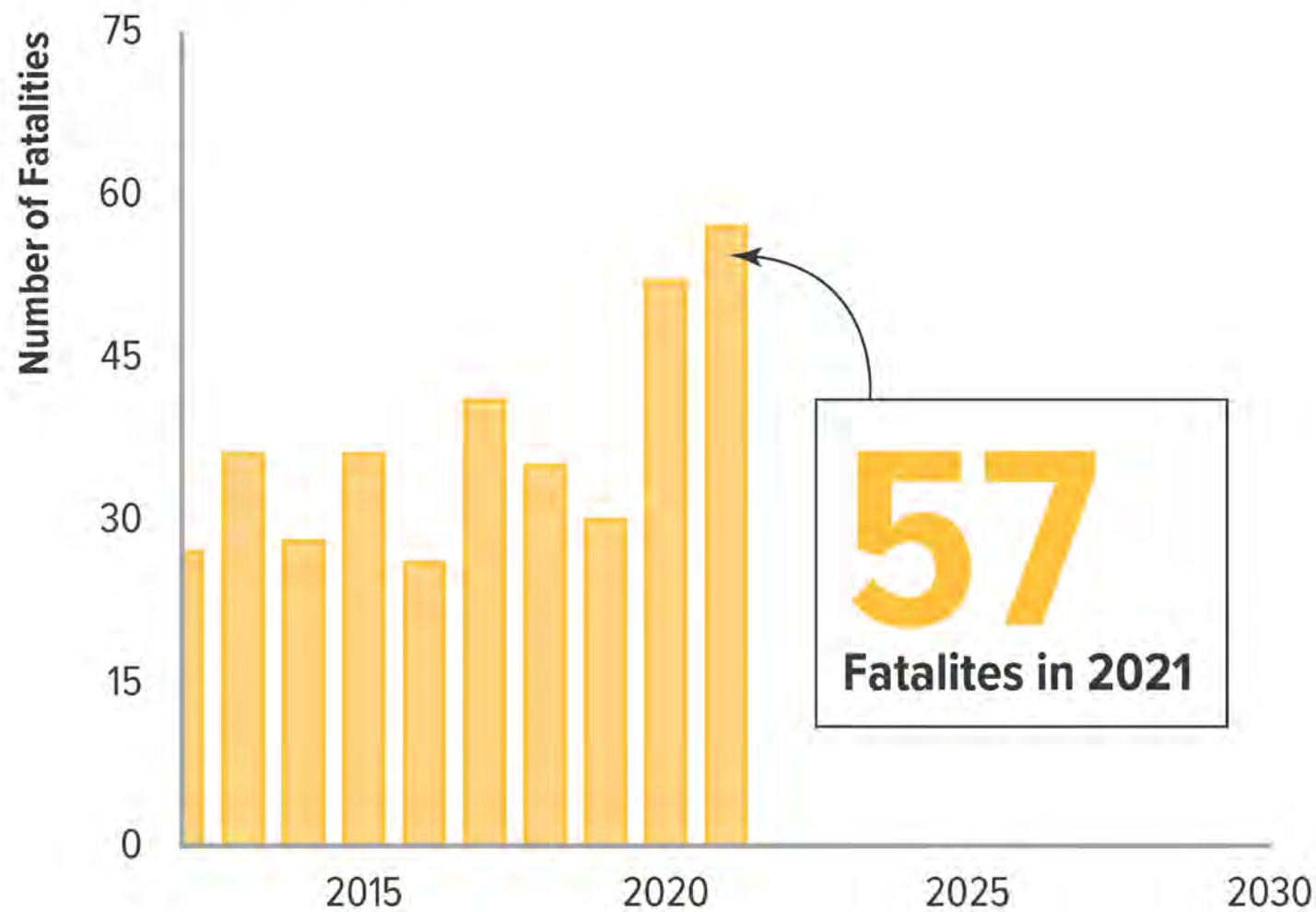
# SRTC Metropolitan Planning Area (Spokane County)

## Measure #1: Fatalities



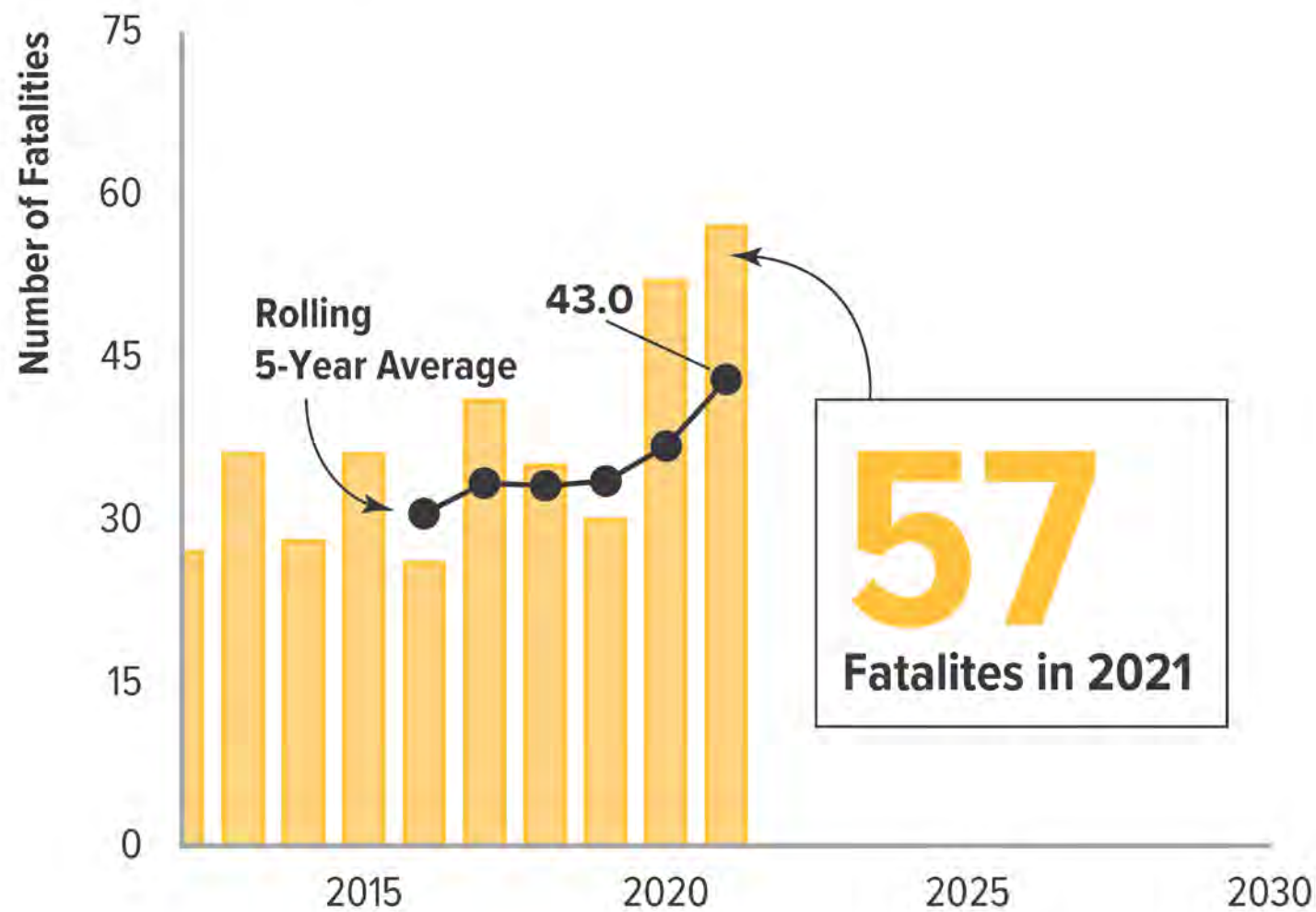
# SRTC Metropolitan Planning Area (Spokane County)

## Measure #1: Fatalities



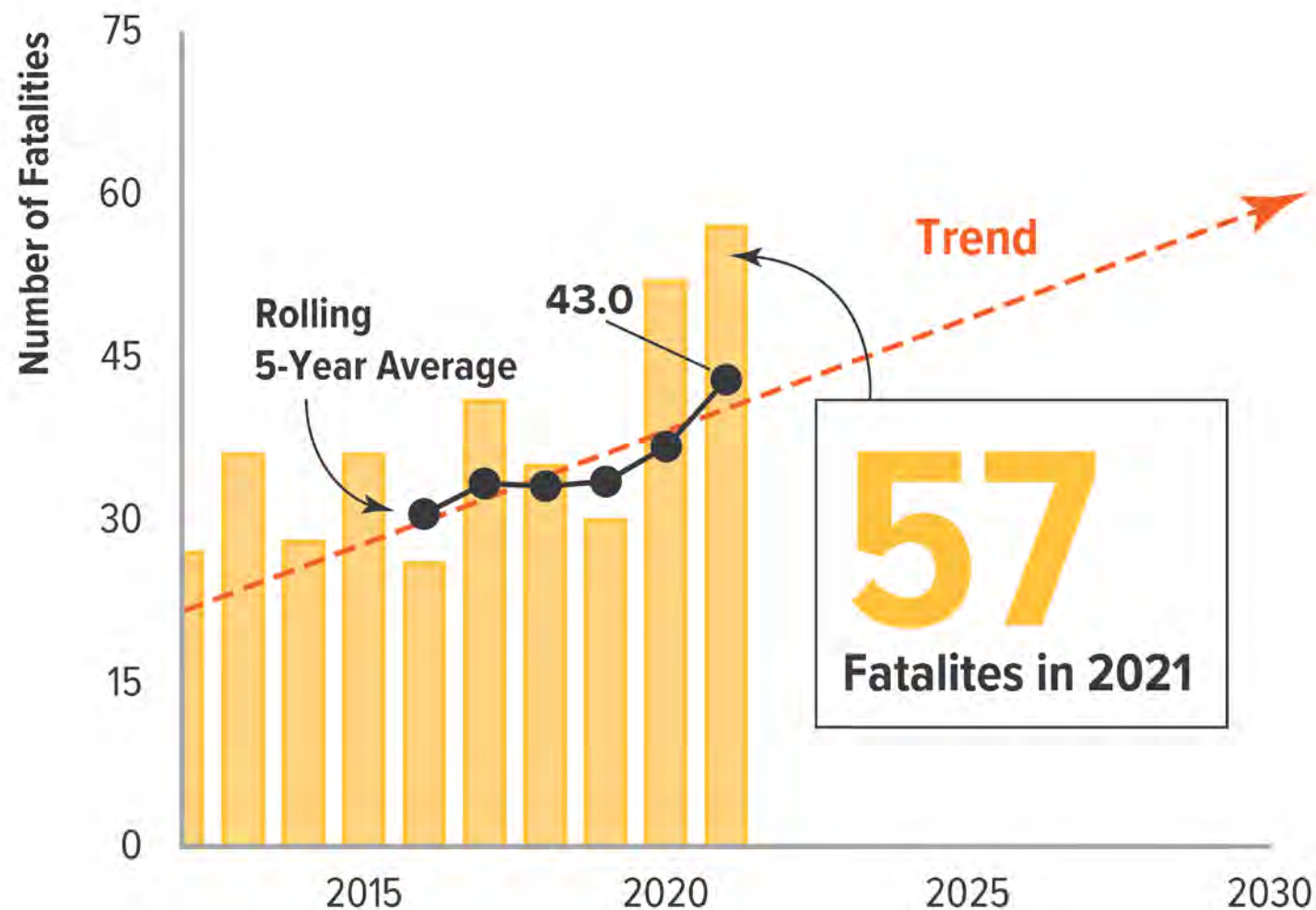
# SRTC Metropolitan Planning Area (Spokane County)

## Measure #1: Fatalities



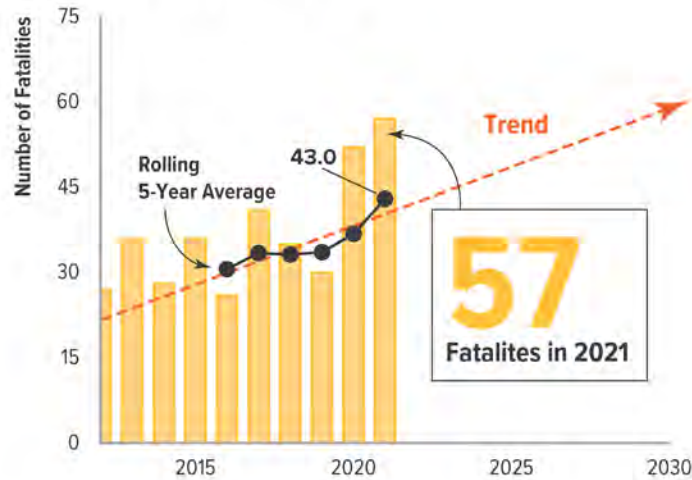
# SRTC Metropolitan Planning Area (Spokane County)

## Measure #1: Fatalities

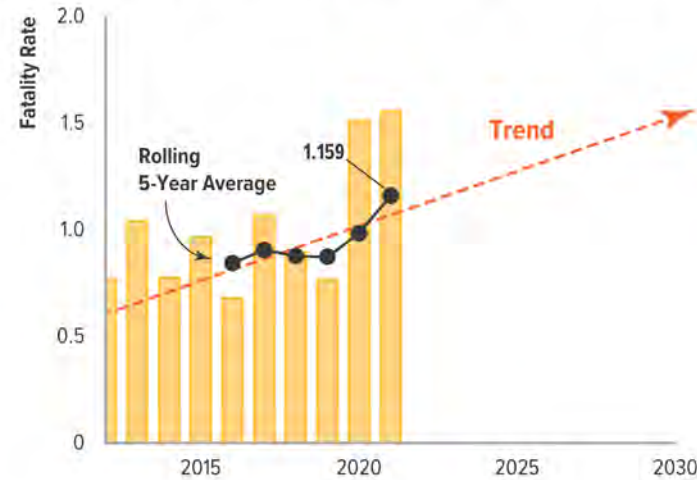


# SRTC Metropolitan Planning Area (Spokane County)

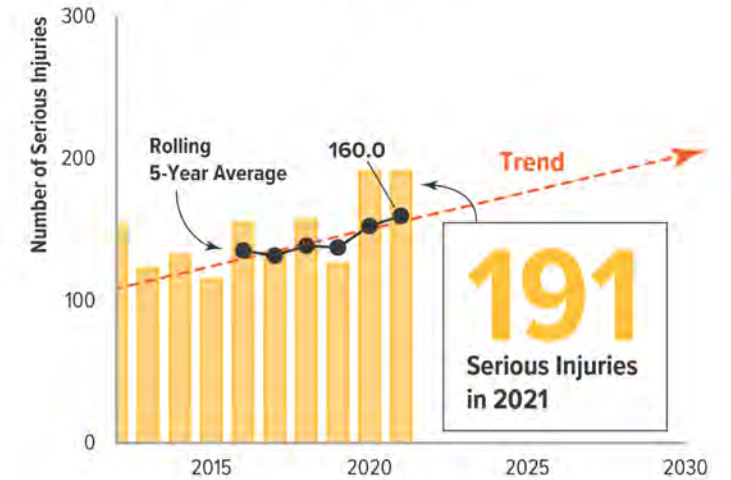
Measure #1: Fatalities



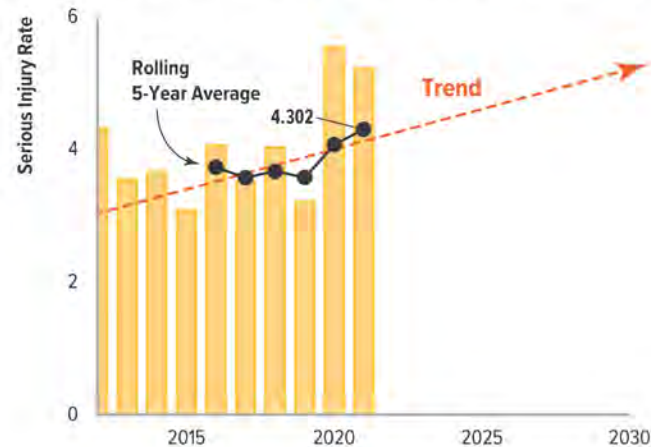
Measure #2: Fatality Rate *per 100 million VMT*



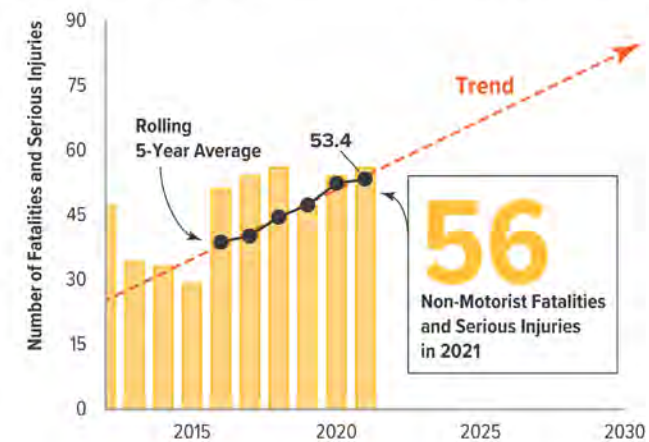
Measure #3: Serious Injuries



Measure #4: Serious Injury Rate *per 100 million VMT*



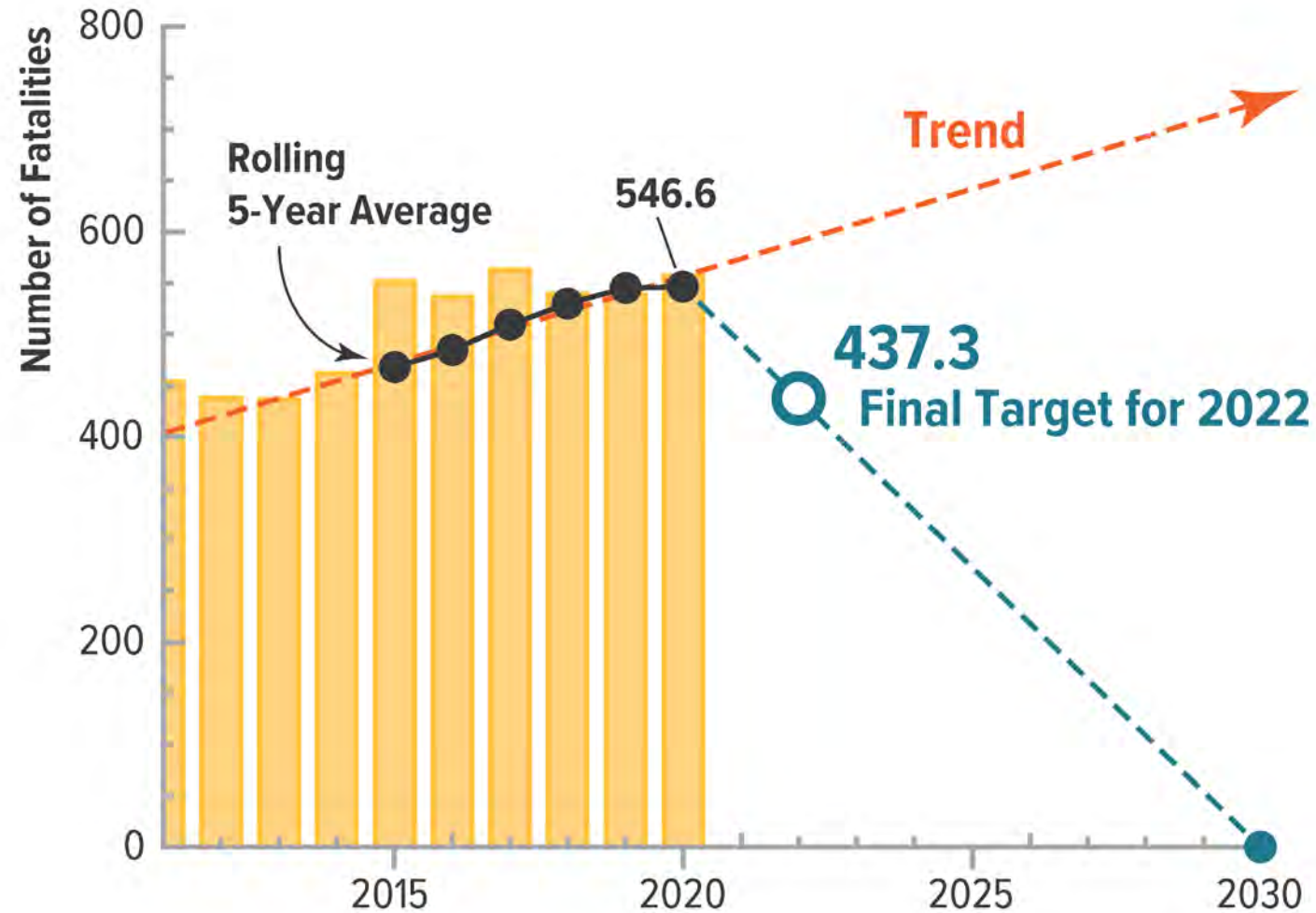
Measure #5: Non-Motorist *Fatalities and Serious Injuries*



# WSDOT Target Zero

# Washington - Statewide

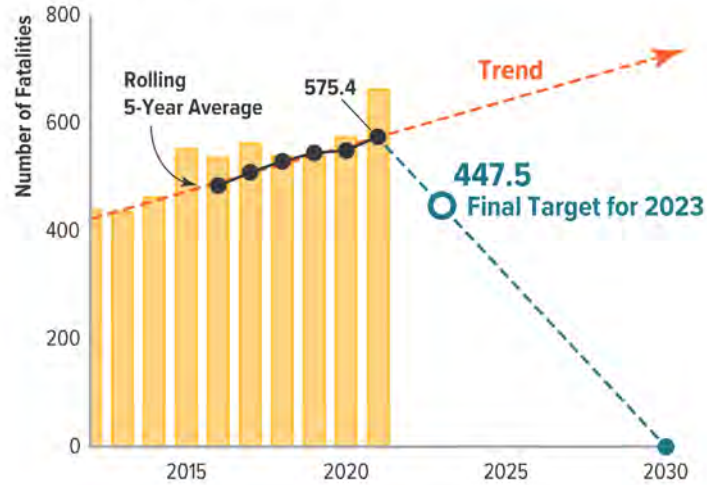
## Measure #1: Fatalities



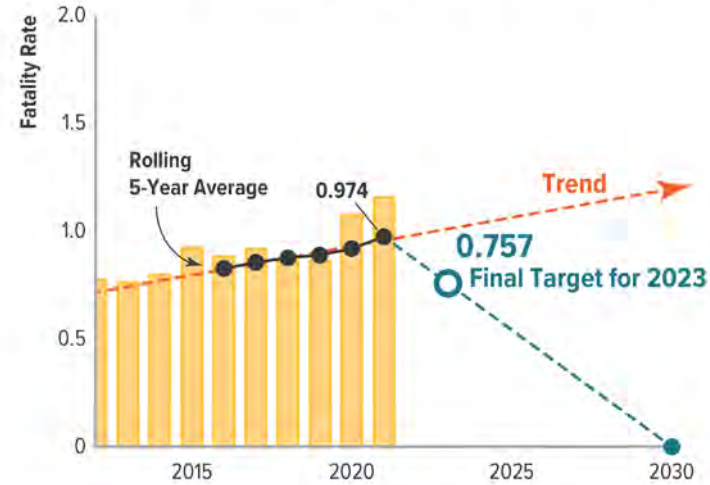


# Washington - Statewide

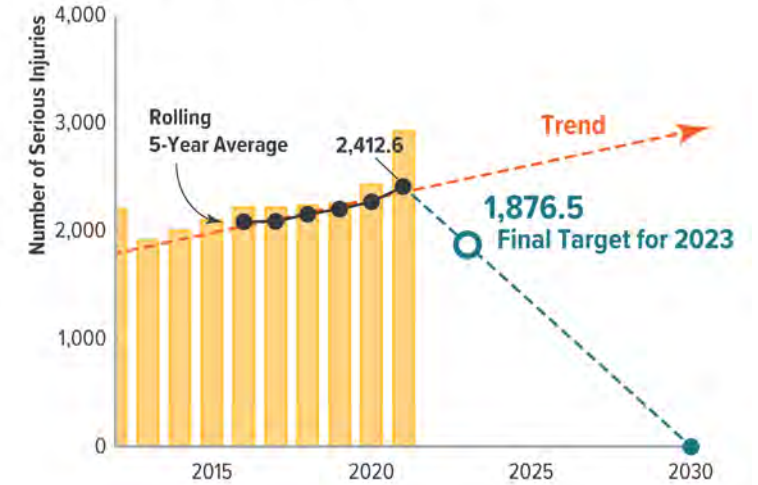
Measure #1: Fatalities



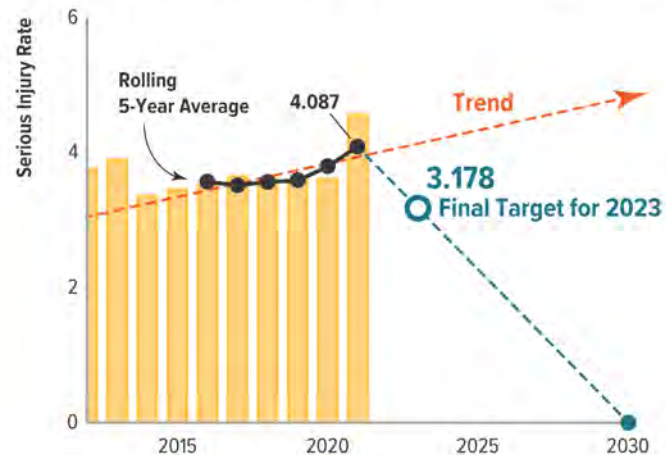
Measure #2: Fatality Rate *per 100 million VMT*



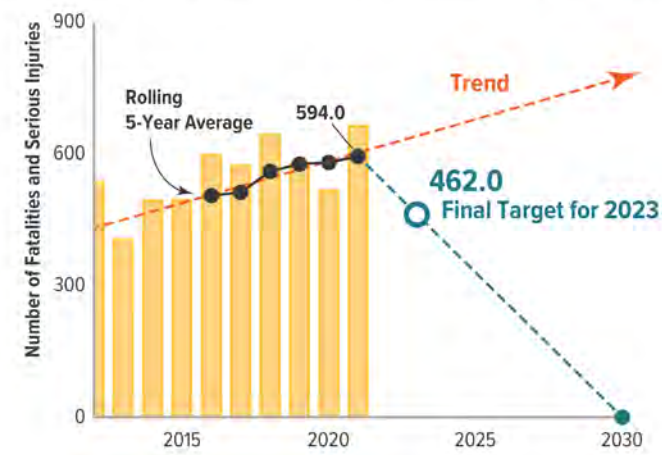
Measure #3: Serious Injuries



Measure #4: Serious Injury Rate *per 100 million VMT*



Measure #5: Non-Motorist *Fatalities and Serious Injuries*



*For [the safety] performance measure, the MPOs shall  
establish a target...*

Agree to plan and program projects so that they contribute toward the accomplishment of the WSDOT HSIP target

Commit to a quantifiable HSIP target for the metropolitan planning area

# Safe Streets and Roads for All (SS4A)

# Questions?

---

Mike Ulrich, AICP

Principal Transportation Planner

[mulrich@srtc.org](mailto:mulrich@srtc.org) | 509.343.6384