



April 22, 2024 TRPA Offices & Zoom

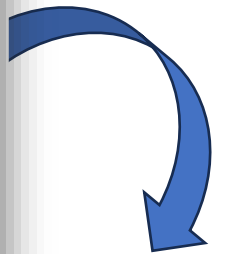
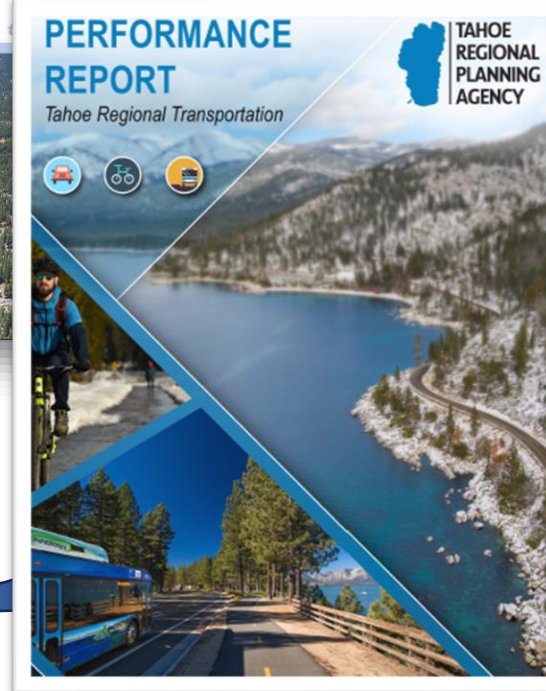
Transportation Performance Technical Advisory Committee

Agenda:

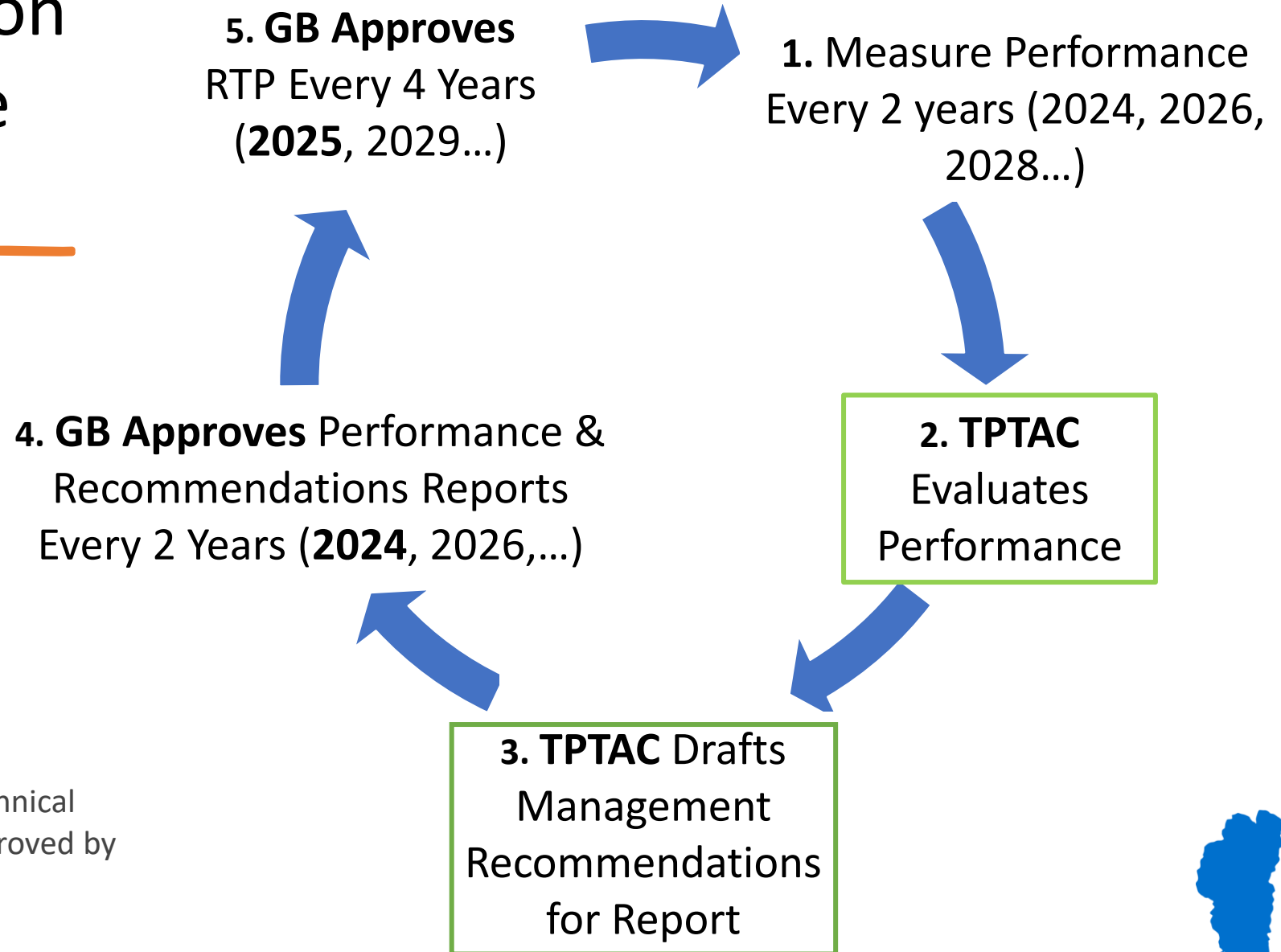
1. Introductions
2. Approval of January Minutes
3. Review of transportation metric trends
4. Possible Recommendations
5. Public Interest Comments
6. Schedule



2024 Draft Regional Transportation Plan Sustainable Community Strategy Analysis and Recommendations Report



Transportation Performance Reporting



- Preparation of reports by the Technical Advisory body, reviewed and approved by TRPA /TMPO

Primary Metrics

Biennial
Reporting

Transit

Total Ridership

Population/Neighborhoods
Served by Frequent
Service (20-min headway)

Population/Neighborhoods
Served by Basic Coverage
Service (60-min headway)

Active Transportation

Bike/Ped Overall
Mode Share

Low Stress Bike and
Ped Lane Miles

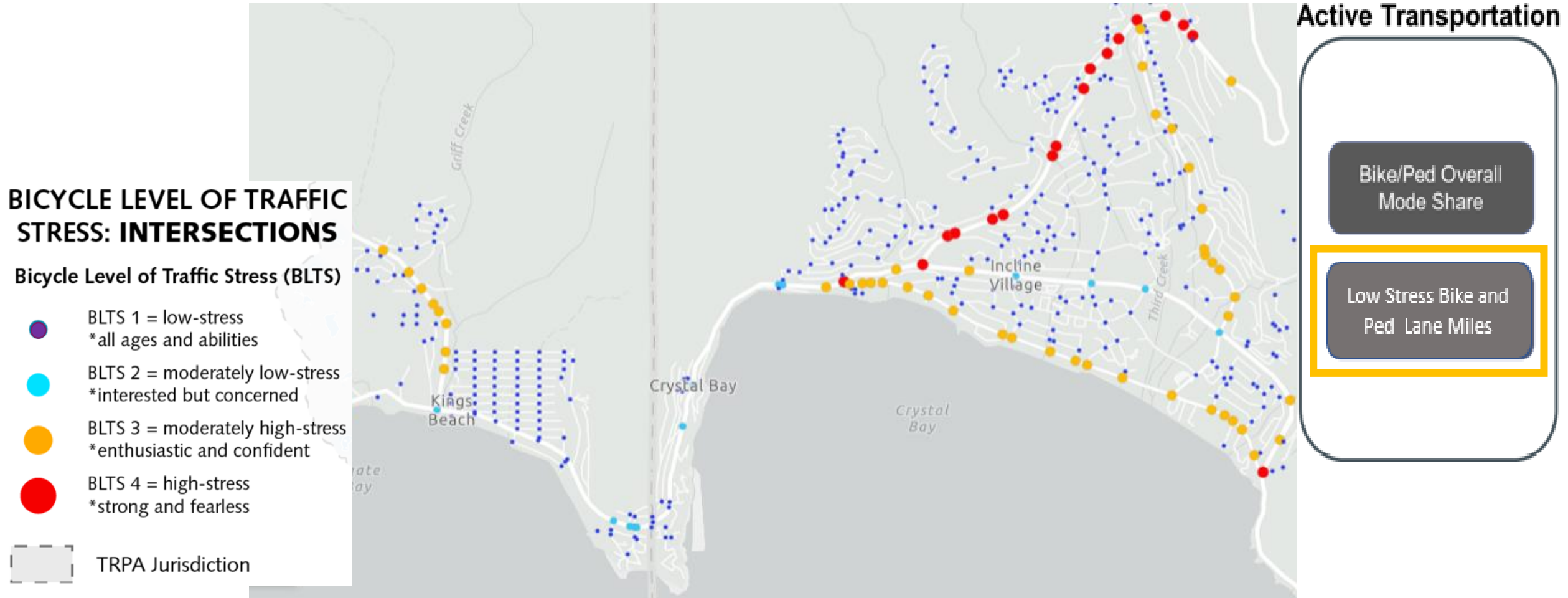
Auto

Median travel time
(between key
destinations, along
corridors)

Average daily VMT
per capita

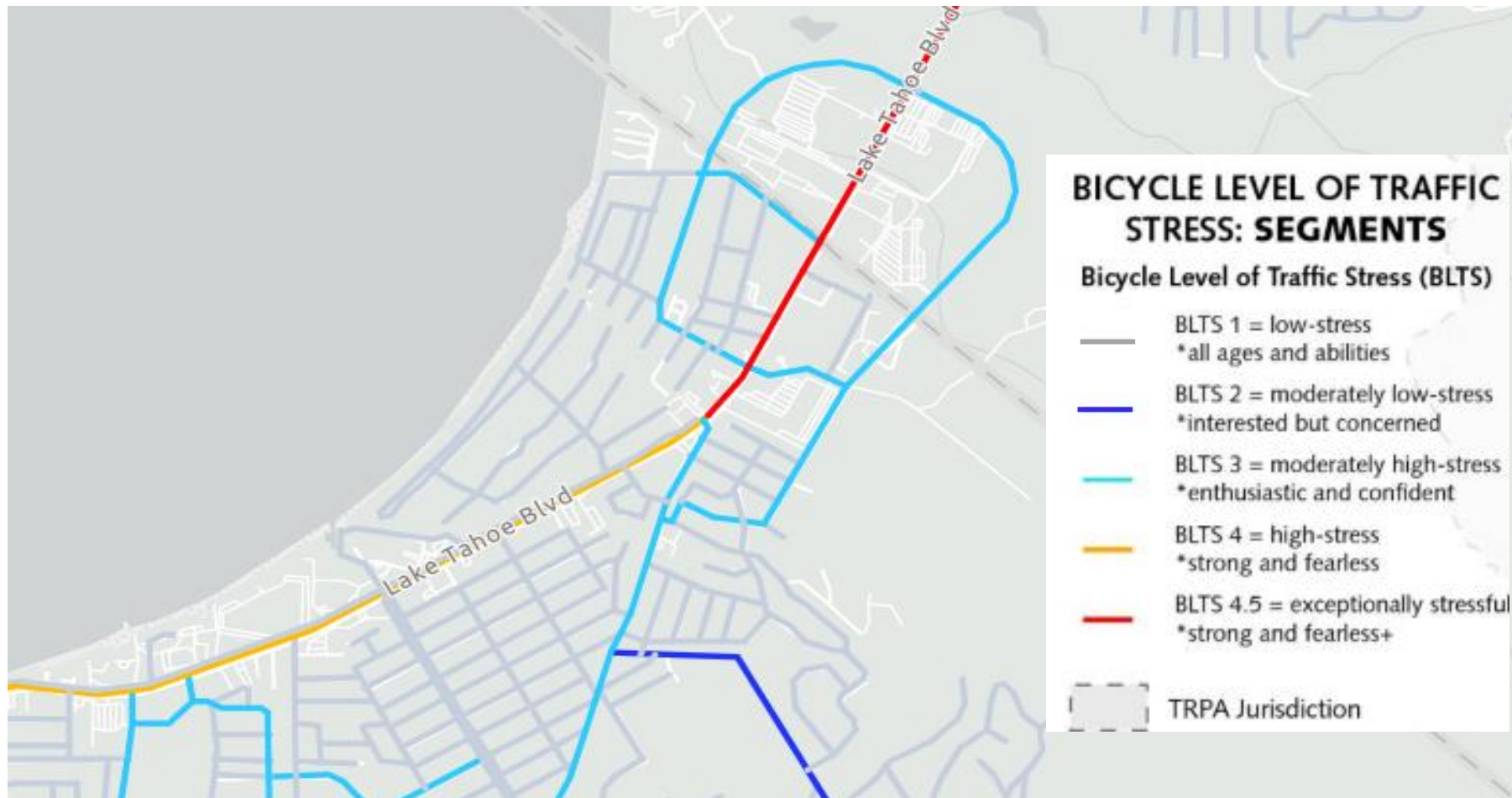
Example of Bicycle Level of Traffic Stress – Intersections

1. Measure Performance



Example Bicycle Level of Traffic Stress - Segments

1. Measure Performance



Active Transportation

Bike/Ped Overall
Mode Share

Low Stress Bike and
Ped Lane Miles

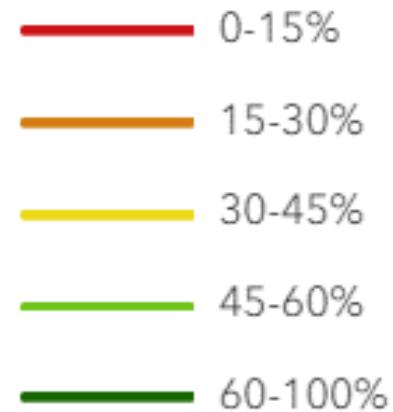
Example Pedestrian Experience Index

1. Measure Performance



Pedestrian Experience Index

Quality of Experience (%)



Active Transportation

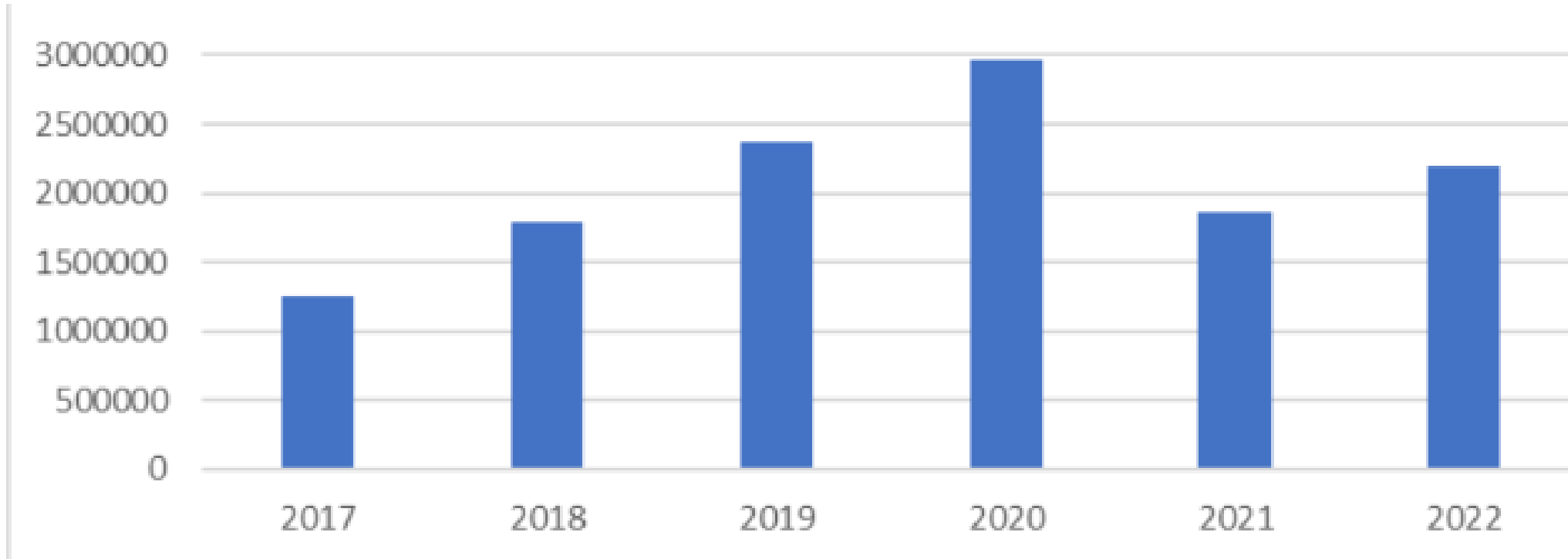
Bike/Ped Overall
Mode Share

Low Stress Bike and
Ped Lane Miles

TRPA Bicycle and Pedestrian Monitoring

1. Measure Performance

**PED & Bike Total Annual Counts
at 48* Monitoring sites**

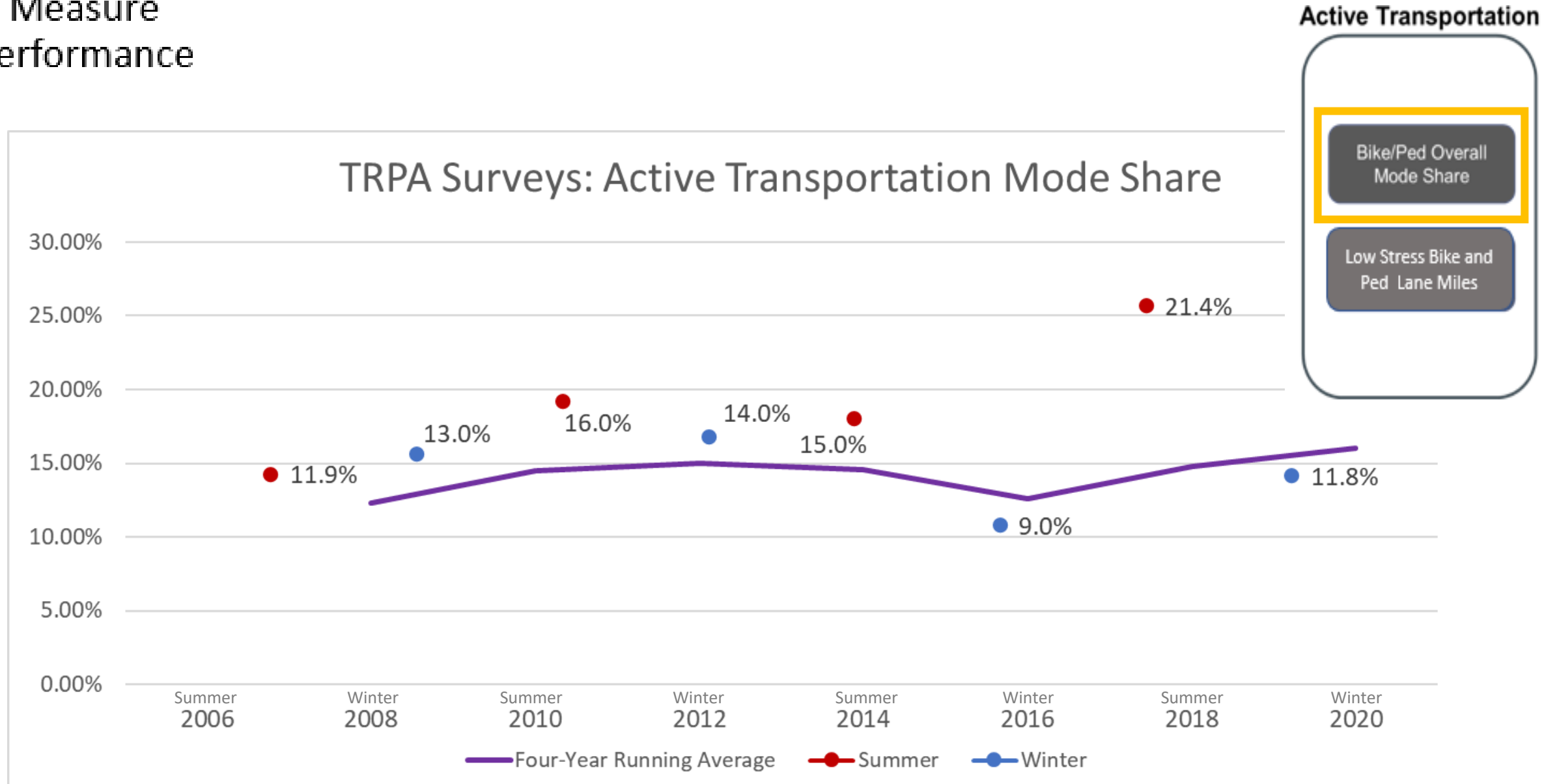


Active Transportation

- Bike/Ped Overall Mode Share
- Low Stress Bike and Ped Lane Miles

Bicycle and Pedestrian Mode Share – TRPA Surveys 2006-2020

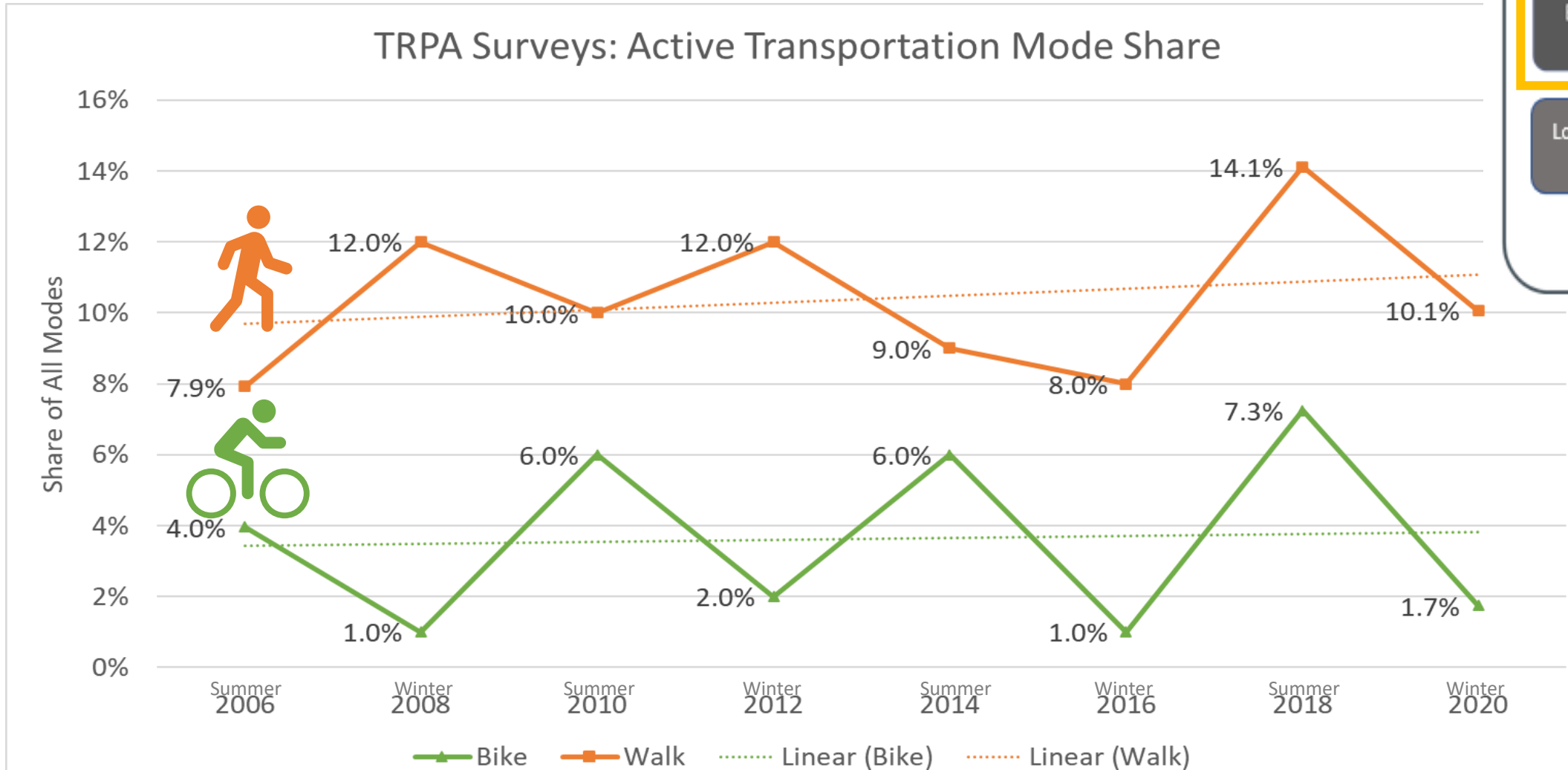
1. Measure Performance



Bicycle and Pedestrian Mode Share – TRPA Surveys 2006-2020

1. Measure Performance

Active Transportation

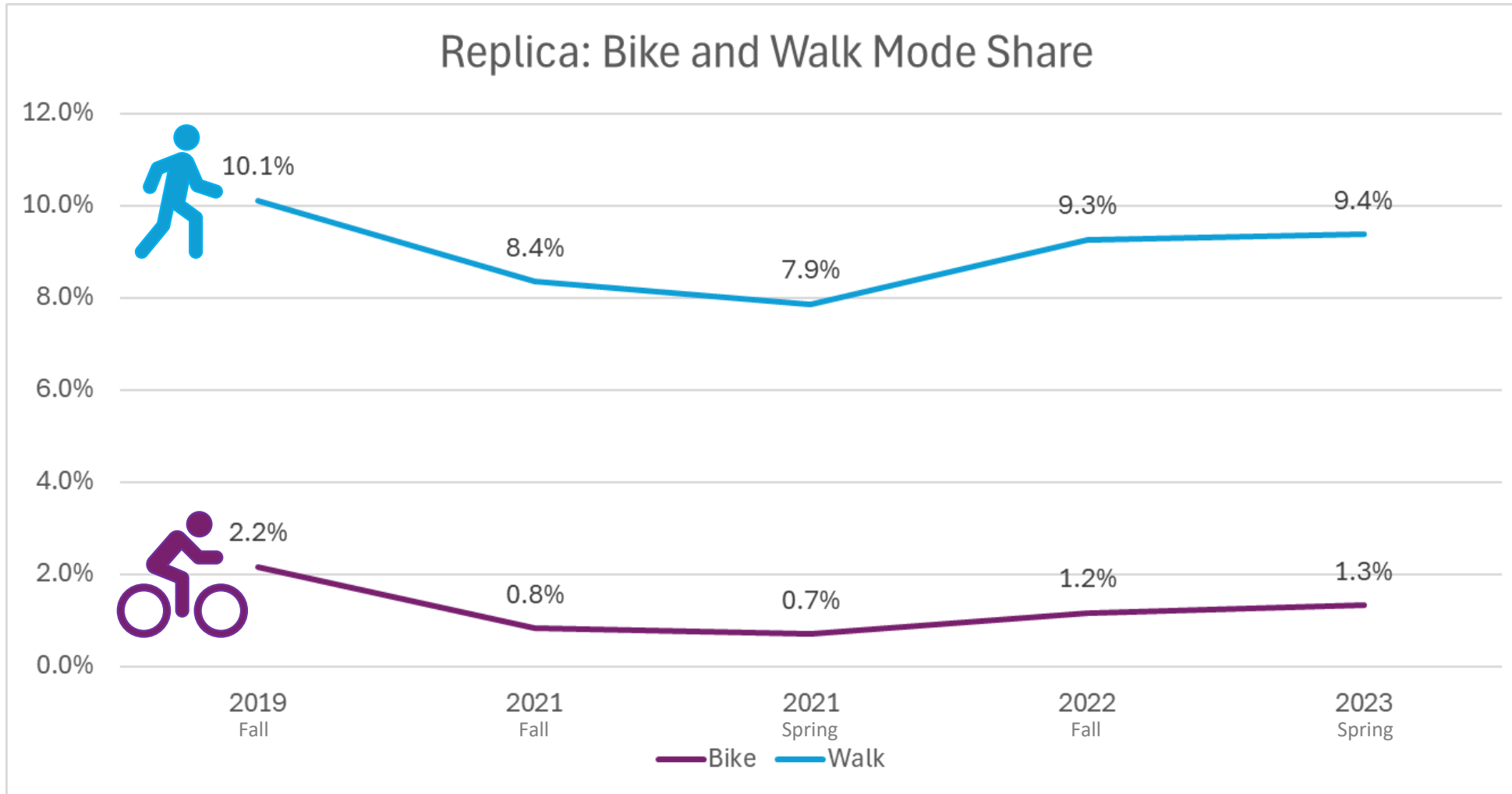


Bike/Ped Overall Mode Share

Low Stress Bike and Ped Lane Miles

Bicycle and Pedestrian Mode Share – Replica 2019-2023

1. Measure Performance



Active Transportation

Bike/Ped Overall Mode Share

Low Stress Bike and Ped Lane Miles

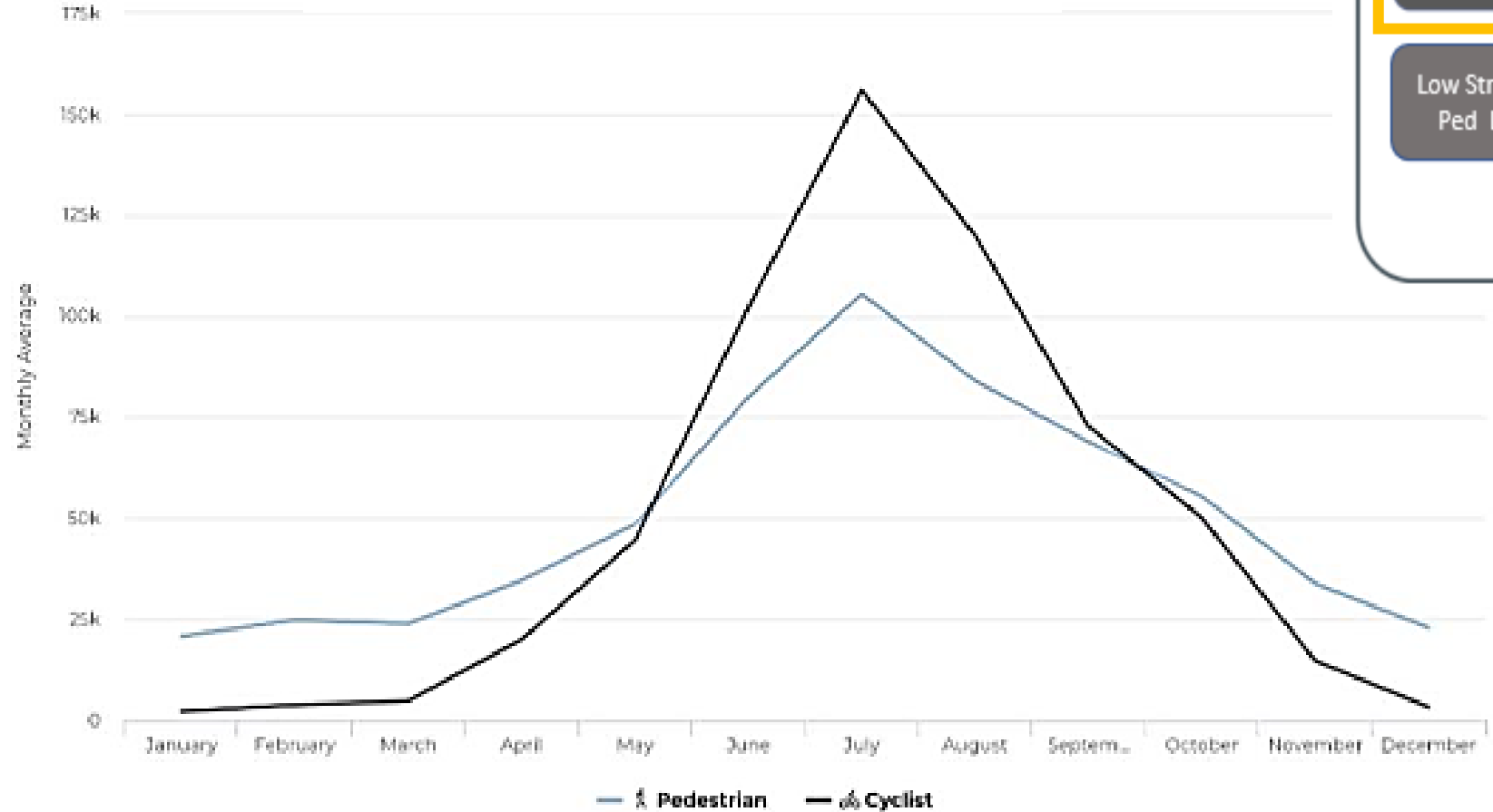
1. Measure Performance

Average Usage

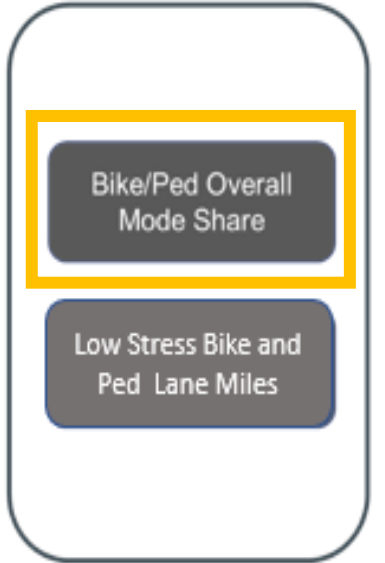


13% Winter: Dec.-Mar.
25% Off-Season: Apr.-May, and Oct.-Nov.
62% Summer: Jun.-Sep.

PED & Bike Monthly Usage at Monitoring sites (2017-2023)



Active Transportation



Primary Metrics



Transit

Total Ridership

Population/Neighborhoods Served by Frequent Service (20-min headway)

Population/Neighborhoods Served by Basic Coverage Service (60-min headway)

Active Transportation

Bike/Ped Overall Mode Share

Low Stress Bike and Ped Lane Miles

Auto

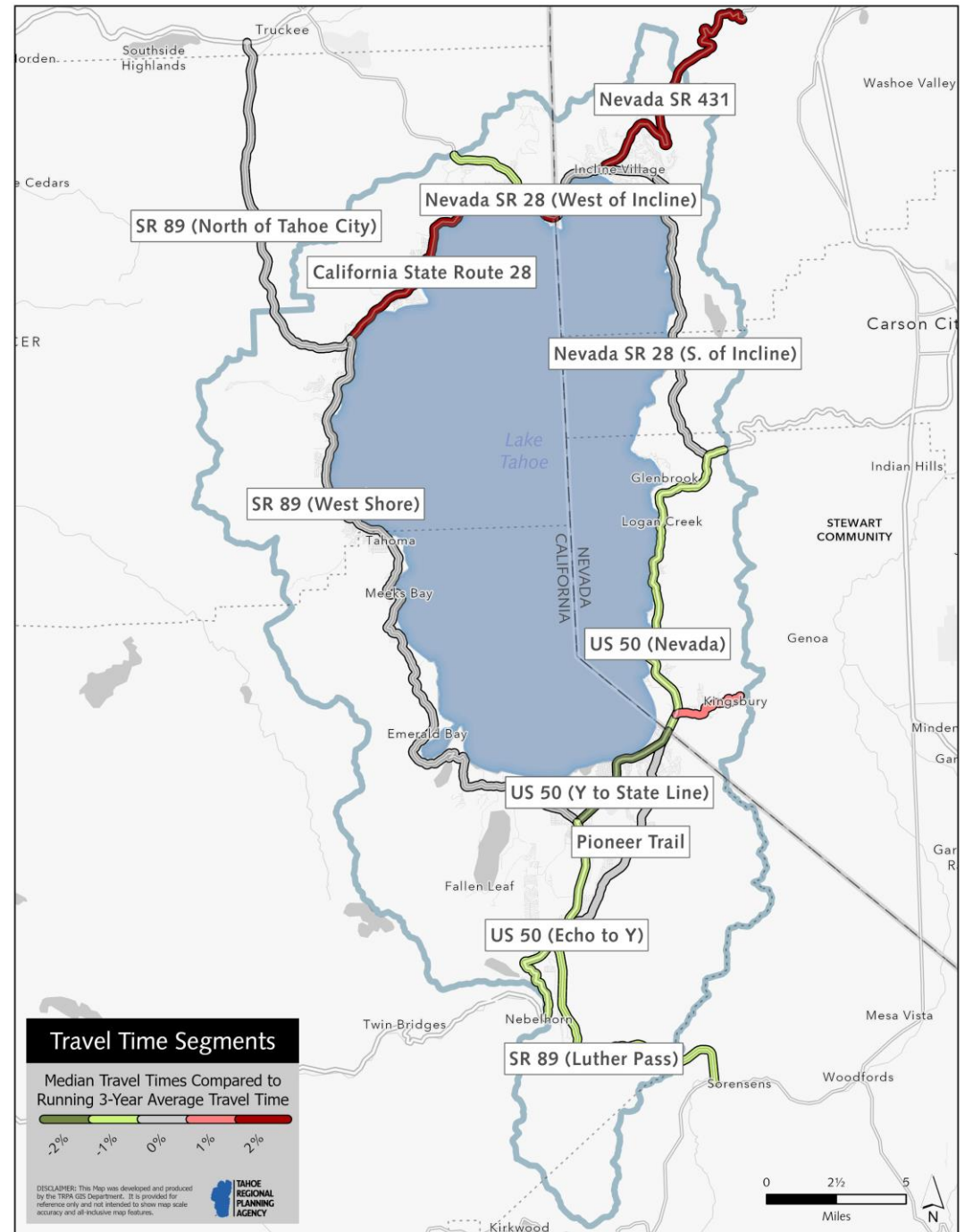
Median travel time (between key destinations, along corridors)

Average daily VMT per capita

1. Measure Performance

Median Travel Time

Median Travel Times Compared to Running 3-Year Average Travel Time					
Segment	2018	2019	2020	2021	2022
CA 267	1%	-1%	-2%	-1%	-1%
NV 28 (Country Club - US 50)	8%	-3%	-5%	-2%	0%
NV 28 (California - Country Club)	2%	-1%	-1%	0%	0%
CA 28	-1%	-2%	0%	2%	2%
CA 89 (CA 28 - I-80)	0%	0%	-2%	-1%	0%
CA 89 (CA 88 - US 50)	3%	-3%	-2%	-1%	-1%
NV 207	0%	0%	0%	1%	1%
NV 431	-1%	0%	-2%	-1%	2%
Pioneer Trail	1%	-1%	-2%	1%	0%
US 50 (Echo Summit - South Lake Y)	-1%	1%	0%	0%	-1%
US 50 (South Lake Y - State Line)	-2%	-2%	-5%	-2%	-2%
US 50 (State Line - Spooner Summit)	0%	-1%	-3%	-1%	-1%
All Segments	1%	-1%	-2%	-1%	0%



1. Measure Performance

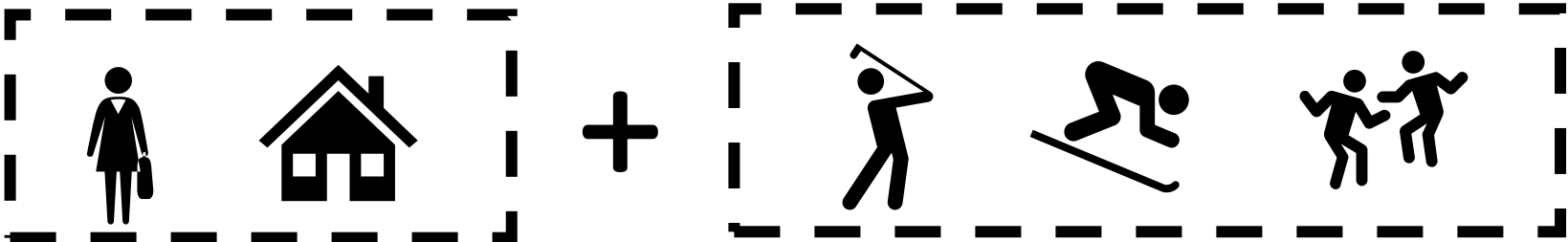
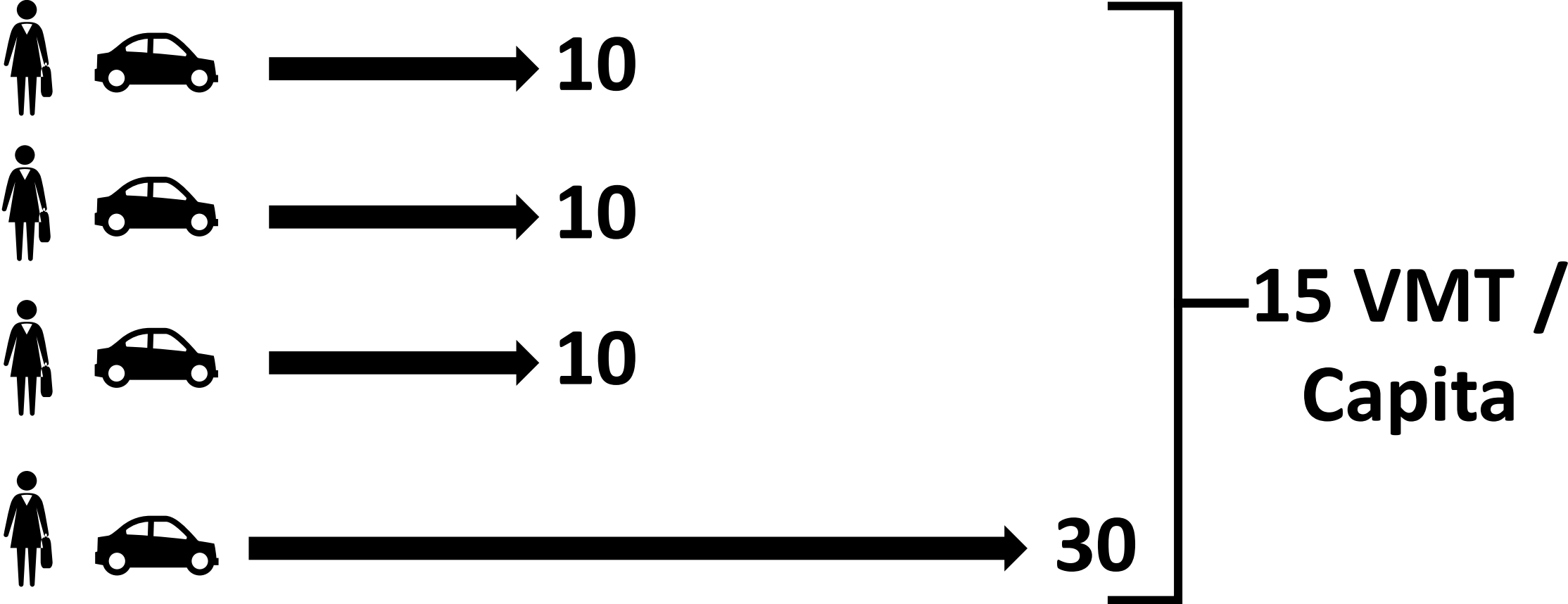
95th Percentile Travel Time

- Increased travel times correlate with construction and weather delays.

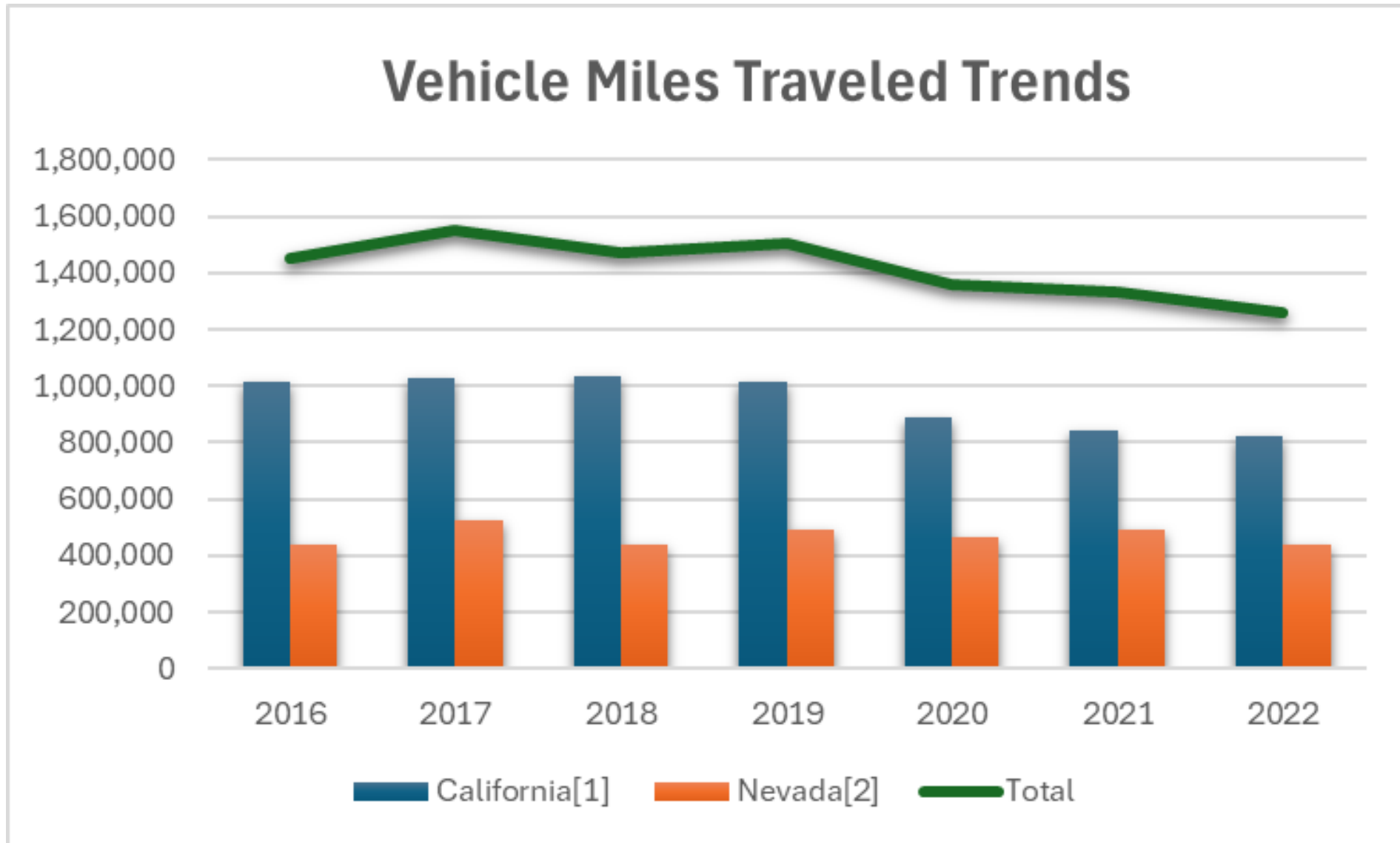
Segment	2018	2019	2020	2021	2022
CA 267	3%	-2%	-4%	0%	-2%
NV 28 (Country Club - US 50)	9%	-7%	-7%	-1%	1%
NV 28 (California - Country Club)	1%	1%	0%	3%	-2%
CA 28	-2%	1%	0%	6%	4%
CA 89 (CA 28 - I-80)	-3%	1%	-4%	0%	2%
CA 89 (CA 88 - US 50)	5%	-5%	-2%	0%	-1%
NV 207	2%	5%	0%	0%	0%
NV 431	2%	0%	-3%	0%	5%
Pioneer Trail	2%	0%	-3%	5%	0%
US 50 (Echo Summit - South Lake Y)	0%	3%	-3%	3%	1%
US 50 (South Lake Y - State Line)	-4%	-4%	-9%	-3%	-5%
US 50 (State Line - Spooner Summit)	1%	0%	-3%	0%	-3%
All Segments	1%	-1%	-3%	1%	0%

Segment	2022 Median Time in Minutes	2022 95th Percentile Time in Minutes	Difference
CA 267	4	5	+1
NV 28 (Country Club - US 50)	16	19	+3
NV 28 (California - Country Club)	9	10	+2
CA 28	20	26	+6
CA 89 (CA 28 - I-80)	17	21	+3
CA 89 (CA 88 - US 50)	13	15	+2
NV 207	5	6	+1
NV 431	16	21	+5
Pioneer Trail	13	15	+3
US 50 (Echo Summit - South Lake Y)	13	18	+5
US 50 (South Lake Y - State Line)	10	13	+3
US 50 (State Line - Spooner Summit)	18	21	+4
All Segments	153	191	+38

VMT/ Capita



VMT



3-year Average VMT

<i>Years</i>	California	Nevada	Total
<i>2016-2018</i>	1,025,577	466,184	1,491,761
<i>2017-2019</i>	1,024,920	483,216	1,508,136
<i>2018-2020</i>	979,720	463,242	1,442,962
<i>2019-2021</i>	915,707	481,764	1,397,471
<i>2020-2022</i>	851,203	464,947	1,316,150

Revised 3-year average estimates are presented below.


Effective Population model

Tahoe Effective Population Model (TEPM)



Model Tool

Model Background Info



This tool demonstrates the parameters of the Tahoe Effective Population Model and allows the user to experiment with different quantitative assumptions to observe the impact on the estimated effective population of the Tahoe region. For more information on the model methodology, click on the background info tab above. This dashboard is under development and is not currently an official source of TRPA data.

Select Model Assumptions


Annual Average Daily Entry Traffic Volumes 25281	Number of Annual STR Units Rented 482940
Full Time Resident Population 51577	Number of Vehicles Per STR Rented 2.07
Number of Non-Resident Commuters 4949	Average Length of STR Overnight Visitor Stay 4.28
Number of Resident Commuters 1800	Number of Annual Hotel/Resort/Casino Units Rented 1754130
Number of Freight Entry Trips 758	Number of Vehicles Per Hotel/Motel/Resort/Casino Room Rented 1.08
Number of Discretionary Entry Trips 8299	Average Length of Hotel/Motel/Resort/Casino Stay 3.44
Day Visitor Vehicle Occupancy 2.62	Overnight Visitor Vehicle Occupancy 3.26
Number of Second Homes 20580	
Second Home Occupancy	

Model Results

Effective Population

118,856

This tool was created with [R-Shiny](#)
The full model methodology (code) can be found on [Github](#)



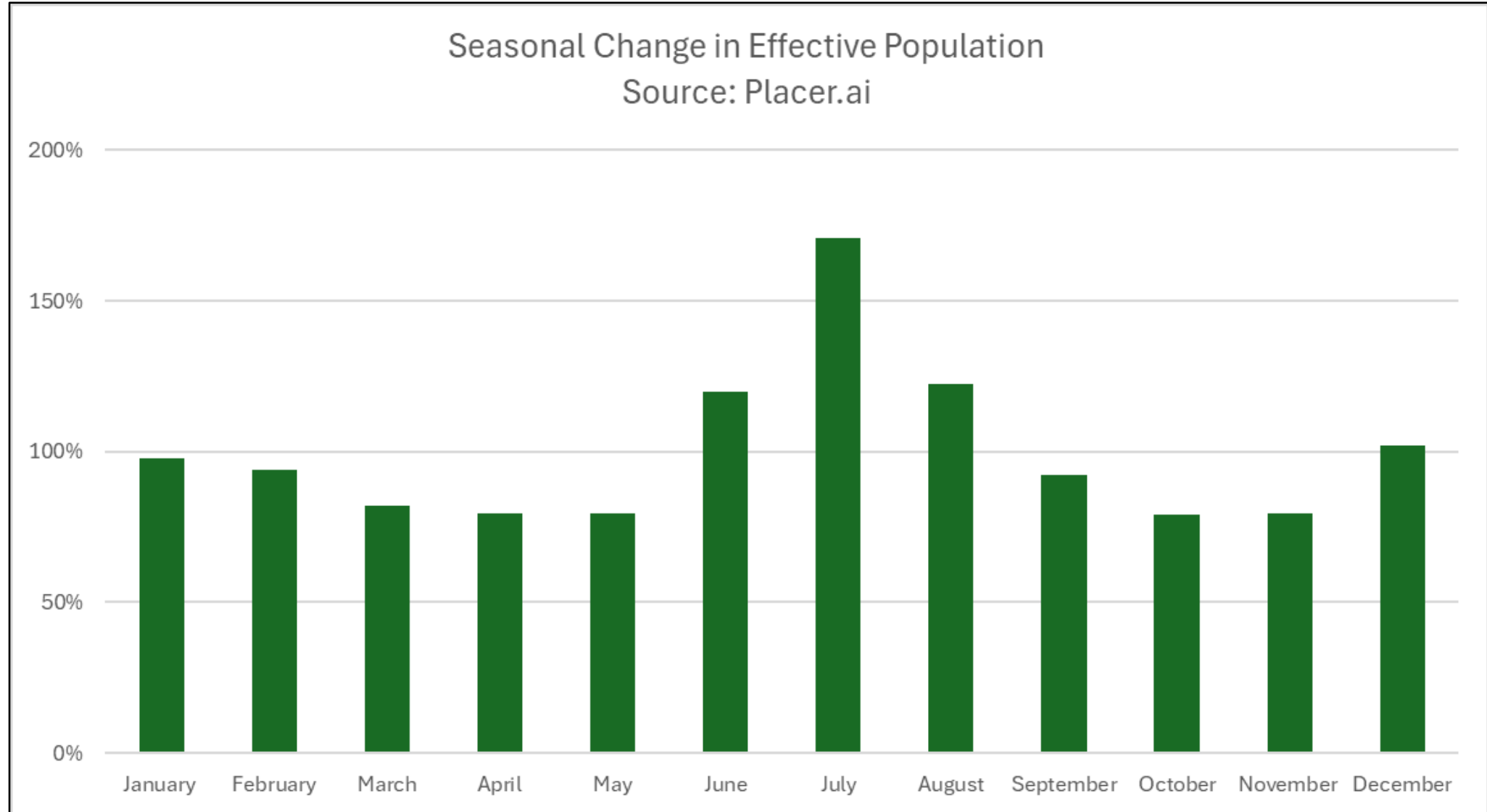
Full Time Residents 51,577	Commuters 4,949	Day Visitors 15,924
Overnight Visitors 36,418	Second Home Owners 9,989	

Key Effective Population Model Inputs

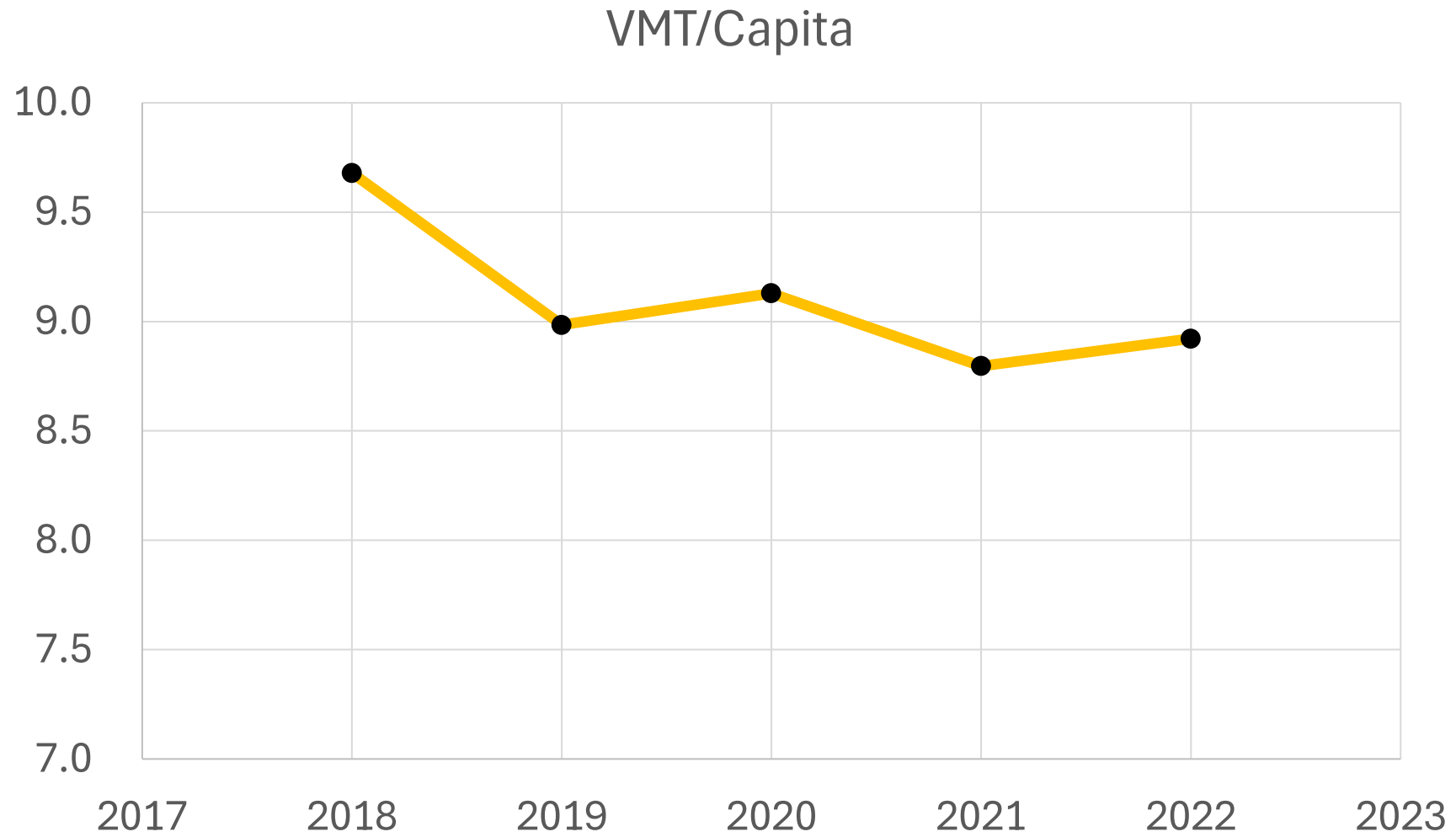
Effective Population Model Inputs Comparison (2018/2022)

Value	2018	2022	% Change
Hotel Rooms Rented (Source: County TOT reports)	1,754,130	1,344,276	-23%
Short Term Rentals (Source: County TOT reports)	482,940	552,973	+15%
DOT Entry Volumes (Source: Caltrans, NDOT)	31,325	29,925	-4%
Second Homes (Source: American Community Survey 5-year estimates, subtracting out known short-term rental units)	20,580	19,773	-4%

Tahoe Effective Population Model Alternative



3-year average VMT/Capita



Overview of Possible Recommendations

DP-5.3 THE TECHNICAL ADVISORY BODY WILL PREPARE AND TRANSMIT A REGIONAL TRANSPORTATION PLAN SUSTAINABLE COMMUNITY STRATEGY ANALYSIS AND RECOMMENDATIONS REPORT.

- Modifications to the FTIP/STIP project selection process
- Allocation of budget to Regional Transportation Plan projects (Transit, Corridors, Trails, Technology, Operations and Maintenance, etc.)
- Modifications to the TRPA Regional Grant Program project selection criteria
- Modifications to fee structures or transfer incentives
- Modifications to the transportation project impact assessment framework



Transit Recommendations

- I. Support local agency strategies for obtaining **flexible operating dollars** for increased frequency and coverage of services.
- II. Ensure all transit operations are efficient including, integration across operations to establish the most **efficient services** possible when complementary services such as microtransit and fixed route are present.
- III. Prioritize TRPA **Regional Grant Program** funding for transit operations where possible





Active Transportation Recommendations

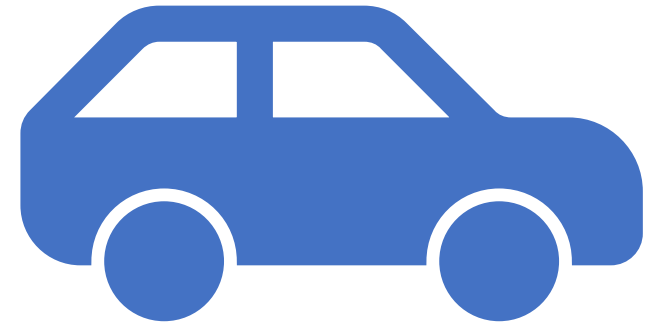
- I. **Prioritize active transportation projects** in the RTP/SCS and in the **Regional Grant Program** with safety benefits and either decrease level of traffic stress for cyclists or increase the pedestrian experience index.
- II. Support funding for local jurisdictions and other partners to complete necessary **maintenance and operations** for clearing paths and sidewalks and improving wayfinding.
- III. Continue to seek **better sources of data** for 1. mode share and commute trips 2. restart the on-the-ground surveys.
- IV. Utilize the 2024 Active Transportation Plan (ATP) Recommendations to review and revise **TRPA code of ordinances and updates** including Areas Plans to further the goals and policies of the ATP.





Auto Recommendations

- I. Continue to implement Regional Plan Policy to reduce reliance on the automobile
- II. Coordination of information on construction projects to minimize delay
- III. Updating Effective Population Data sources
- IV. Update VMT Threshold calculation



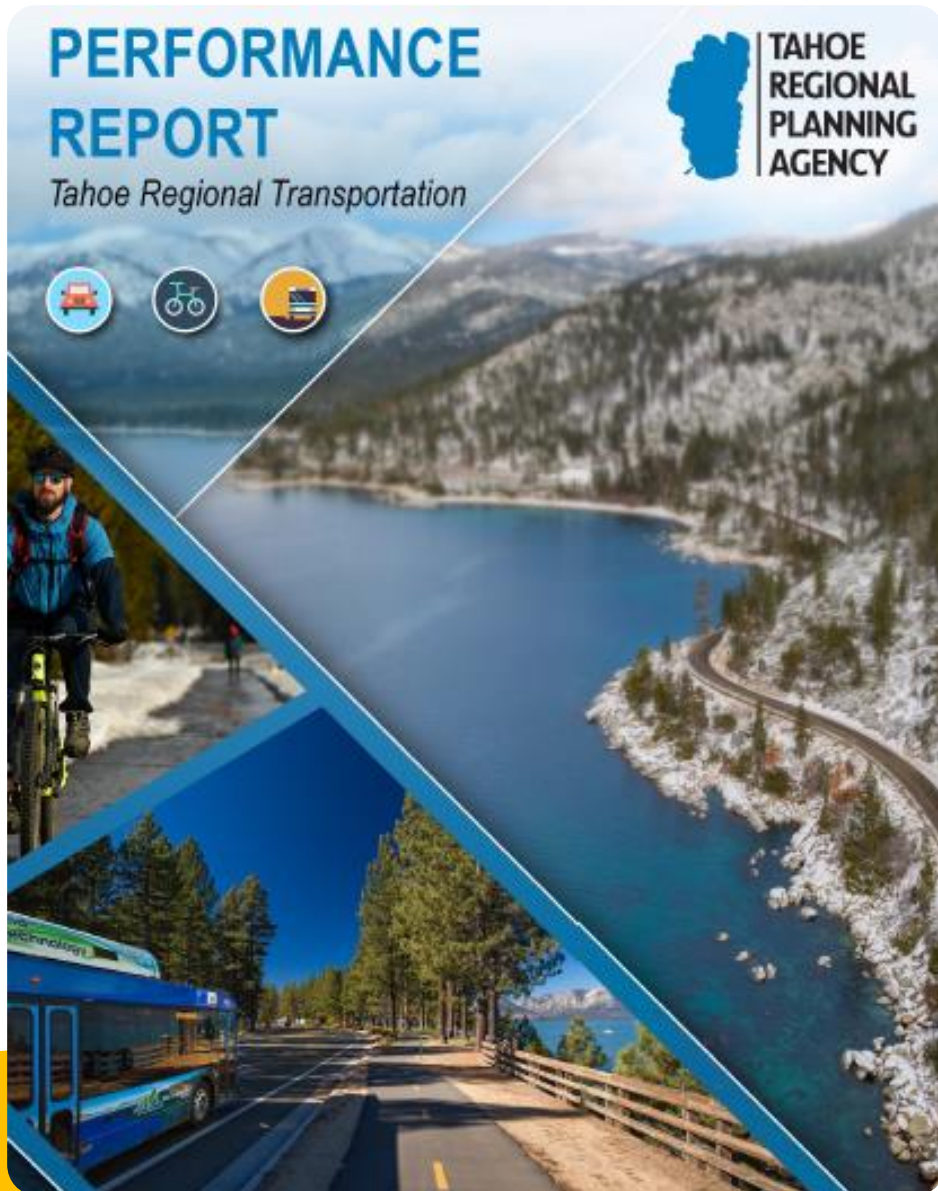


April 22, 2024 TRPA Offices & Zoom

Transportation Performance Technical Advisory Committee

Public Interest Comments





Schedule

- May Meeting Poll
5/29/24 9:30 to 11:00

-
- 5/03/24 - Post revised Draft Report with recommendations section from today
 - 5/13/24 - Draft Report with Comments due to Michelle Glickert
 - 5/20-22/24 – Final Draft out 7 to 10 days prior to May Meeting
 - 5/29/24 - May meeting if needed to circle back for Final Draft
 - 6/19/24 - transmittal to TRPA Governing Board 6/26/24 mtg