

# Technical Advisory Committee Meeting January 9, 2024

# Agenda Item #1: Call to Order & Introductions – Tyler Deke



#### **TAC** members

- Sharon Smith, Bend La Pine Schools
- Henry Stroud, Bend Park & Recreation
- Robin Lewis, City of Bend
- Eric Lint, CET
- Greg Bryant, resident
- Liza Hamada, resident
- Joshua Clawson, COCC
- Brian Potwin, Commute Options
- Tarik Rawlings, Deschutes County
- Dave Thomson, Deschutes BPAC
- Ken Shonkwiler, ODOT Region 4
- Casey Bergh, OSU Cascades
- Angie Brewer, DLCD\*
- Jasmine Harris, FHWA\*
- Ned Conroy, FTA\*

#### **Bend MPO Staff**

- Tyler Deke, Manager
- Andrea Napoli, Senior Planner
- Kelli Kennedy, Program Coordinator

#### **Consultant Staff**

- Chris Maciejewski, DKS
- Aaron Berger, DKS
- Becky Hewitt, ECONorthwest
- Karen Swirsky, Kittelson & Associates
- Matt Kittelson, Kittelson & Associates

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 Members of the public, visitors and presenters will be asked to introduce with name and entity.

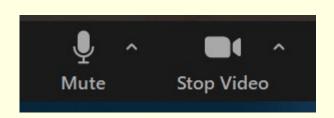
<sup>\*</sup>Non-voting

### Agenda Item #2: Remote Participation Guidelines

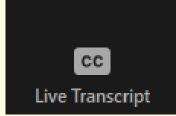
#### Tyler Deke



- You will be on mute when you first join the meeting.
- Technical difficulties during the meeting? Raise Hand







- Please use the raise hand to speak next.
- If you join the webinar by phone, dial \*9 to raise/lower hand.
- This meeting will be recorded and is available as a live streaming event on YouTube. You can review this YouTube event on the City of Bend YouTube Channel.



Image (Left) shows you are muted and camera is off.



## Agenda Item #3: Public Comment



# Agenda Items 4 - 9: TAC Workshop, MTP Update – MPO, DKS, and ECONorthwest

# PROJECT LIST EVALUATION AGENDA ITEMS

- 1 / PROJECT LIST
  DEVELOPMENT PROCESS
  RECAP
- 2 / OUTREACH UPDATE
- 3 / FUNDING UPDATE
- 4 / NEEDS SUMMARY
  - Existing Conditions
  - Future Conditions
- 5 / MTP DRAFT PROJECT LIST EVALUATION
- 6 / NEXT STEPS





# PROJECT LIST DEVELOPMENT PROCESS RECAP

#### PROJECT LIST DEVELOPMENT PROCESS RECAP

- Used a "bottom-up" approach, compiling project recommendations from most recent relevant local planning efforts within the MPO – <u>Draft MTP Project List (Last TAC Meeting)</u>
- Consider new/changing needs based on updated travel demand model and new forecast horizon (2045) – <u>Presented</u> today
- Refine MTP Project List to address new/changing needs <u>Discuss with TAC today</u>
- Evaluate individual projects using the Evaluation Criteria to inform prioritization
- Develop Near, Mid, and Long-Term project recommendations and separate into Committed, Financially Constrained, and Aspirational lists using the Funding Projections



# OUTREACH UPDATE

# MTP Update Public Outreach & Engagement



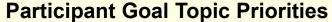
#### Wrapped up "Round 1" outreach effort

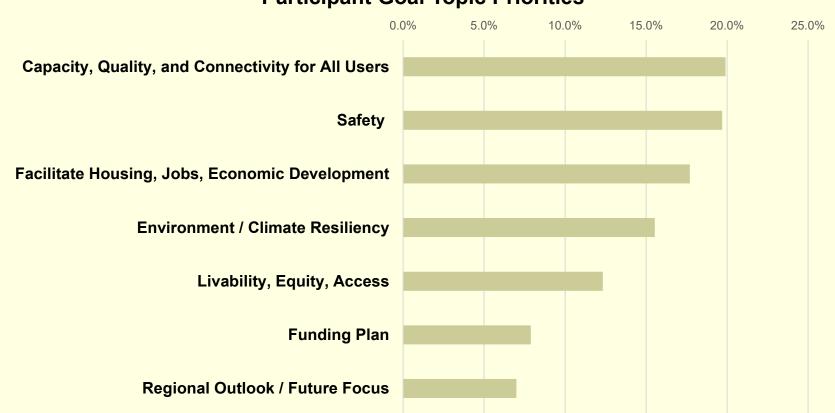
- Notifications to "interested parties" email lists (City TSP & MPO)
- Online MTP goals survey (Oct. 5 thru Nov. 20) & email sign-up
- Events / presentations (feedback on MTP goals):
  - State of the City event, Sept. 8
  - Farmer's Market at The Commons, Sept. 13
  - BPRD Fall Community Celebrations, Oct. 6
  - Regional Public Transportation Advisory Committee (RPTAC), Oct. 18
  - City of Bend Climate Friendly Areas Open House, Nov. 10
- City website "News Item" posts
- Invitations to tribes (Klamath, Burns Paiute, Warm Springs)



#### MTP Update Final Outreach Results of Goal Priorities







#### **Local Committee Input**

Top 3 Goal Priorities:

- Capacity, Quality, Connectivity for All Users
- Livability, Equity, Access
- Regional Outlook / Future Focus

\*MTP goals/policies to be used as criteria in project prioritization for MTP Project List.



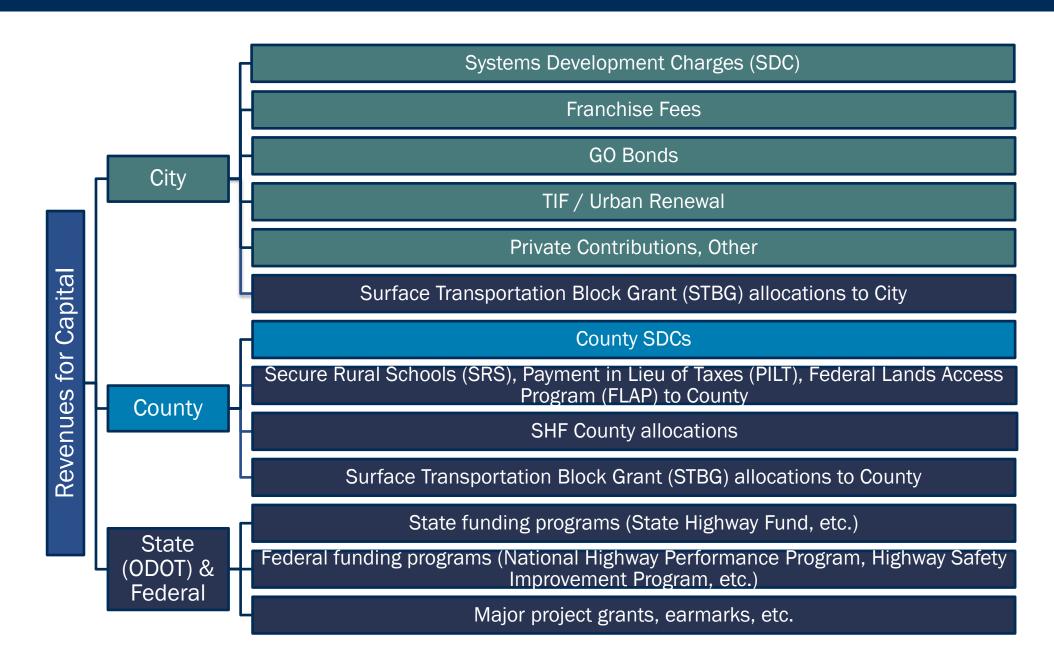
# FUNDING UPDATE

# Bend MPO MTP Update

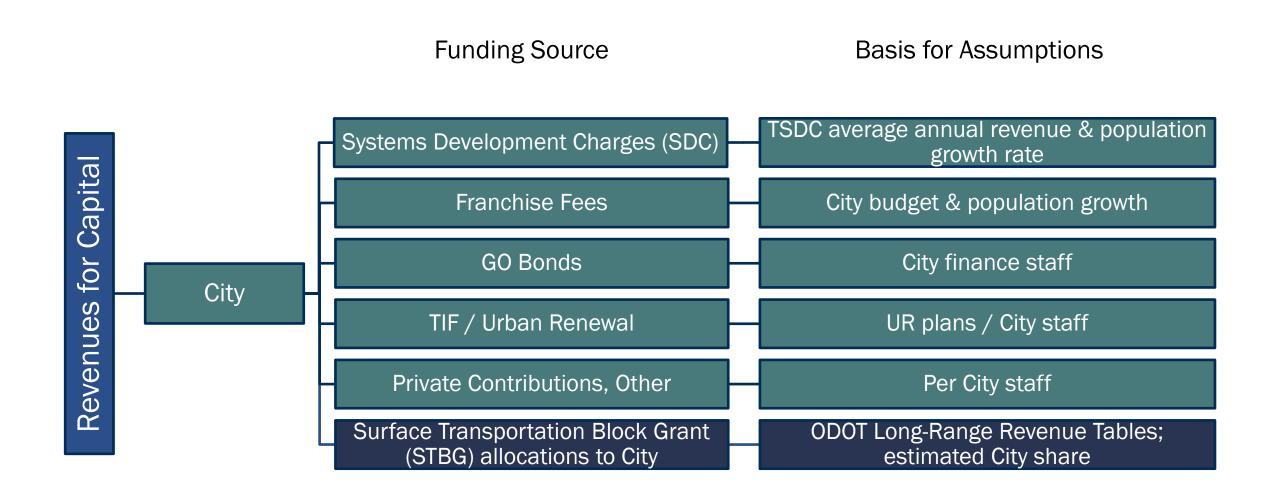
Revenue Forecasting
TAC Update 1/9/24



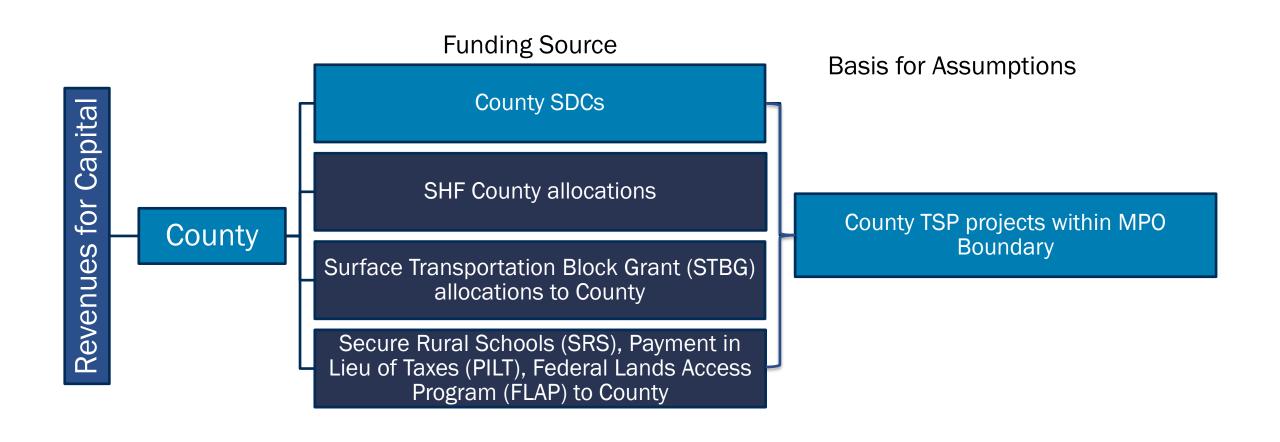
#### Capital Revenue Forecast: Funding Sources by Agency



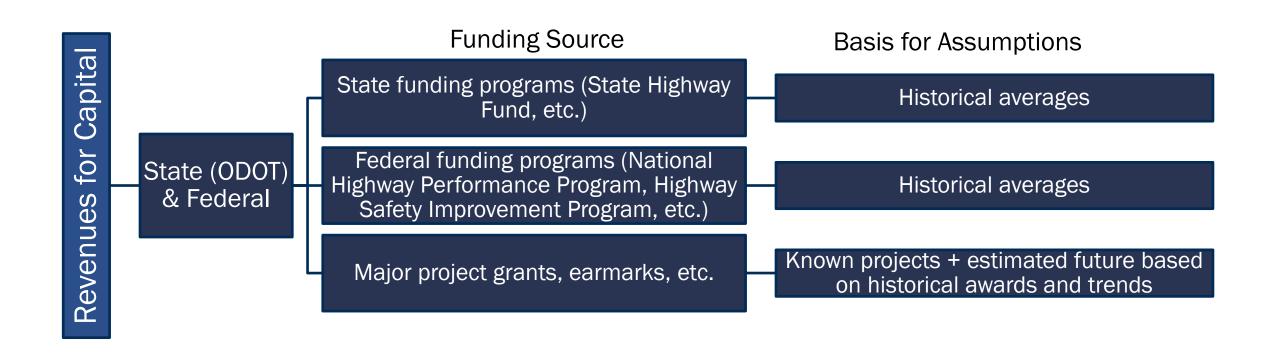
#### Capital Revenue Forecast: Funding Sources and Assumptions



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#### Capital Revenue Forecast: Funding Sources and Assumptions



#### Capital Revenue Forecast: What's Committed vs. Flexible

Flexible

No specific eligibility limitations, use determined by agency

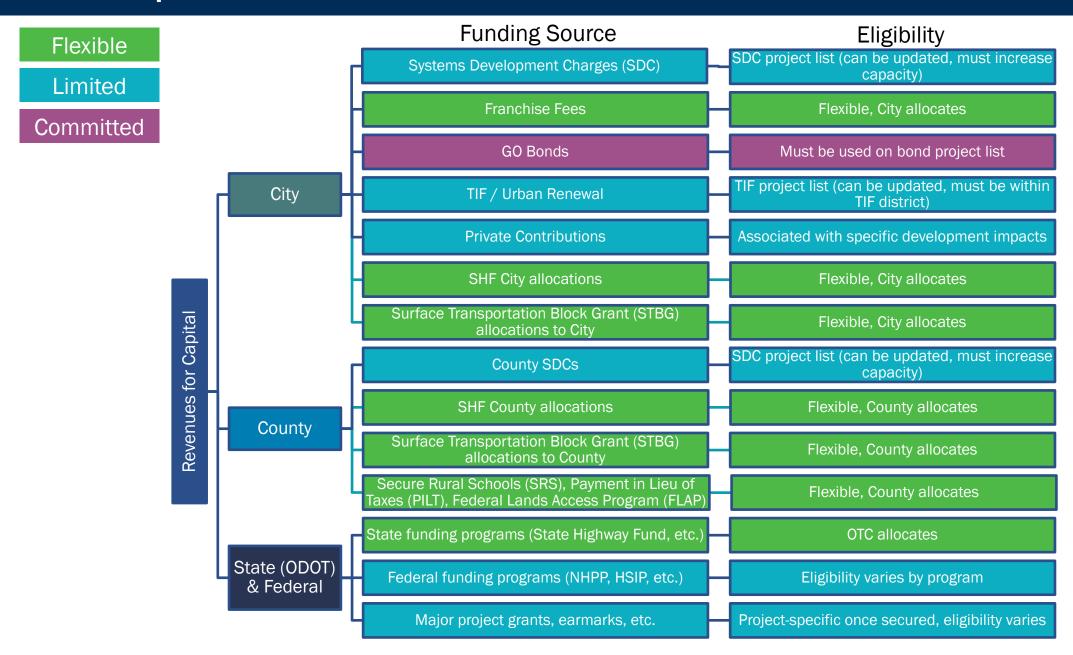
Limited

Eligibility limited by law

Committed

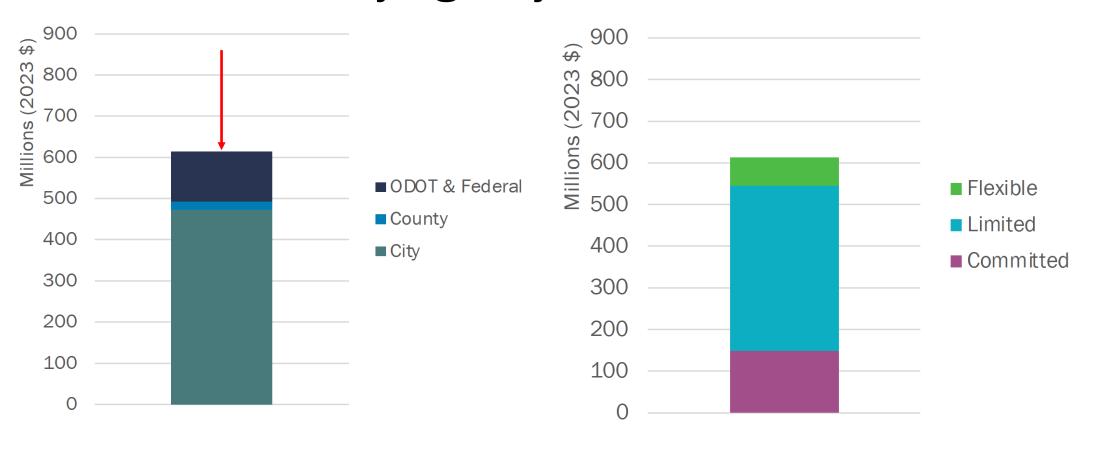
Project list is set and cannot vary

#### Capital Revenue Forecast: What's Committed vs. Flexible



#### Preliminary Revenue Estimates

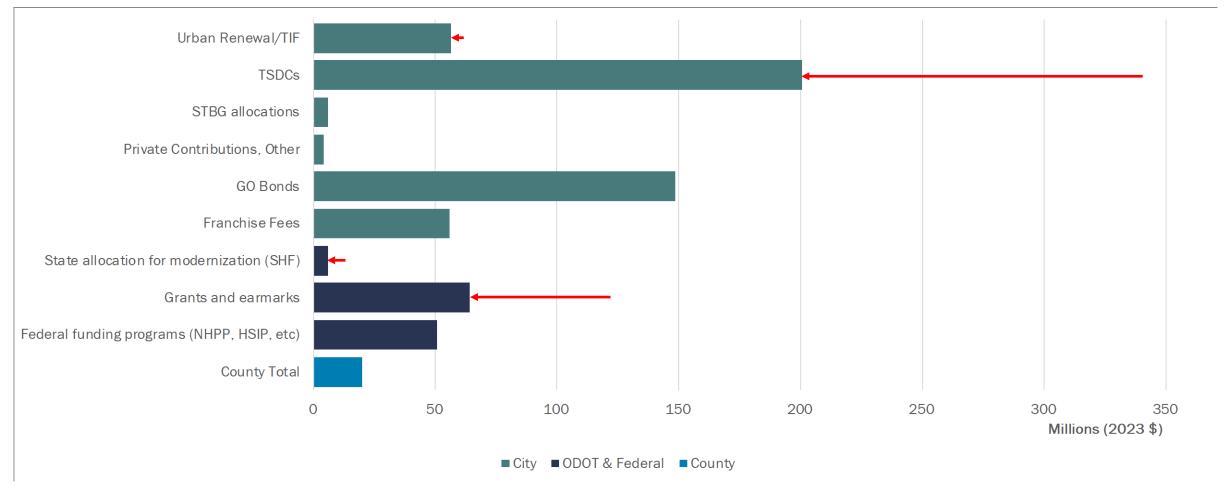
#### Revenue totals by agency and committed vs. flexible



Preliminary estimate of 20-year total: **870 million** (2023 \$) Updated estimate of 20-year total: **613 million** (2023 \$)

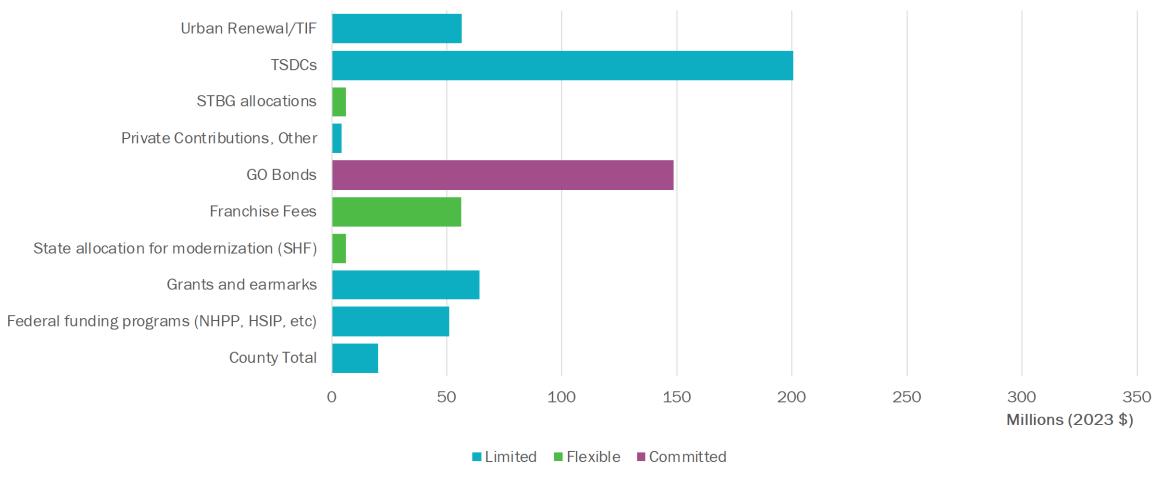
#### Preliminary Revenue Estimates

## Revenue by agency & source



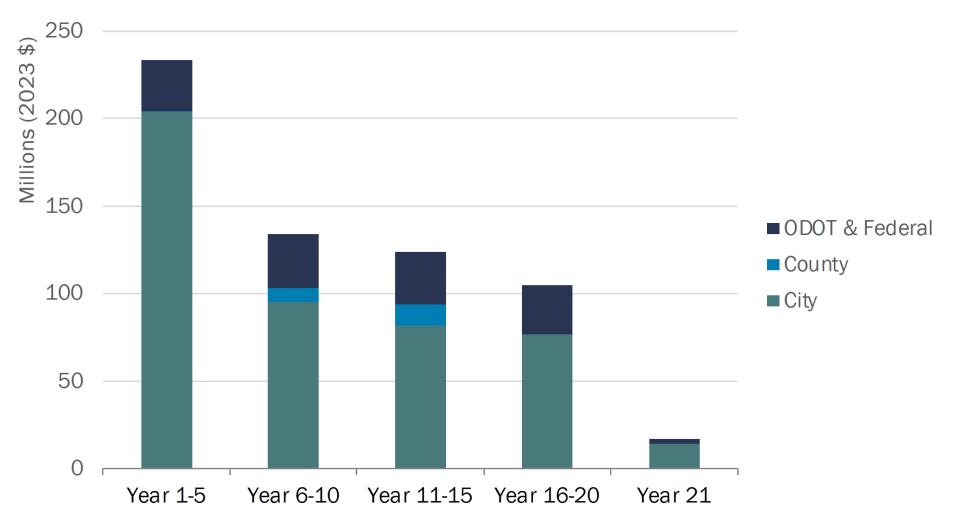
#### Preliminary Revenue Estimates

## Revenue by source & committed vs. flexible



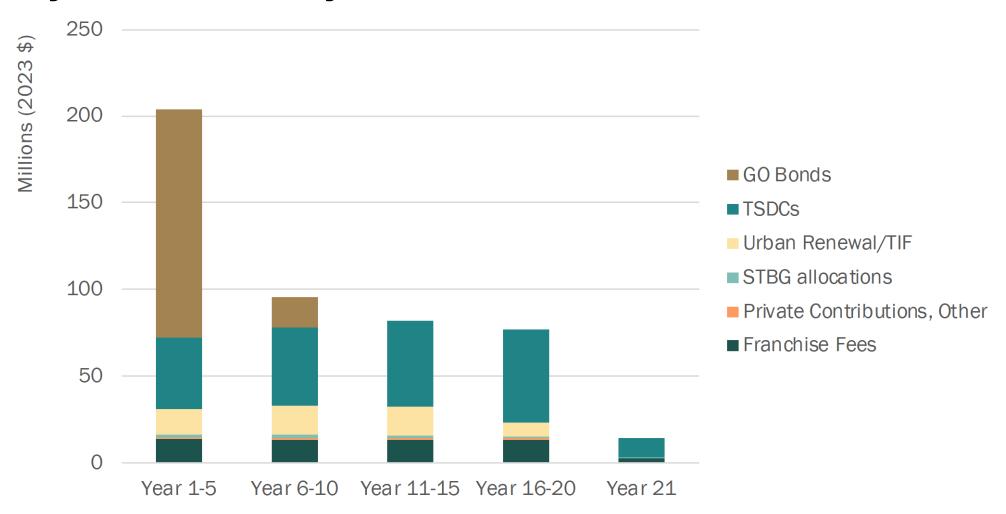
#### Capital Revenue Over Time

## Revenue by agency



#### Capital Revenue Over Time

### City Revenue by source

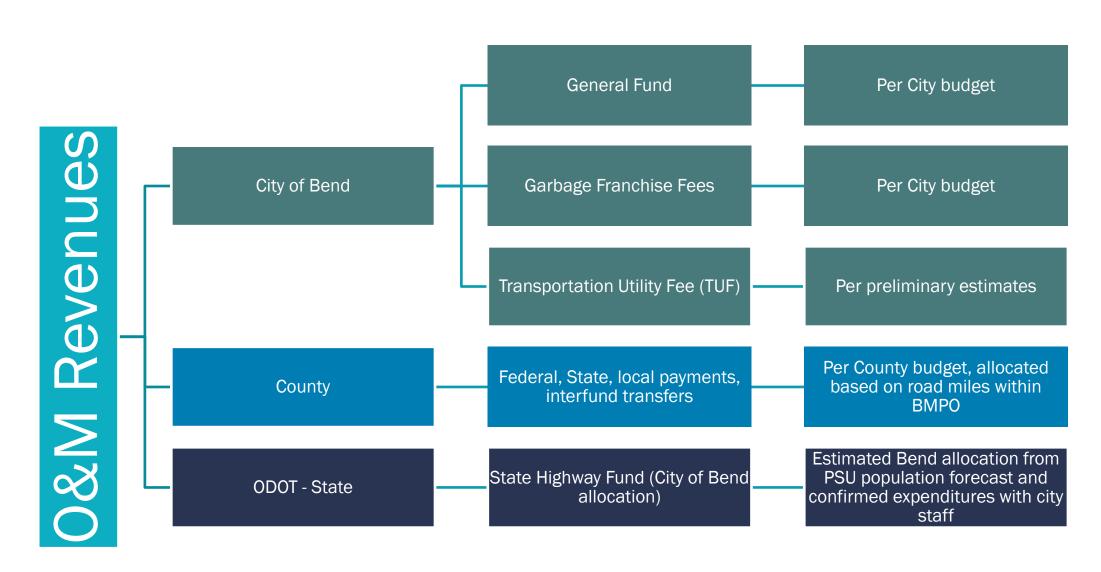


#### Capital Revenue Over Time

### Revenue by source & committed vs. flexible

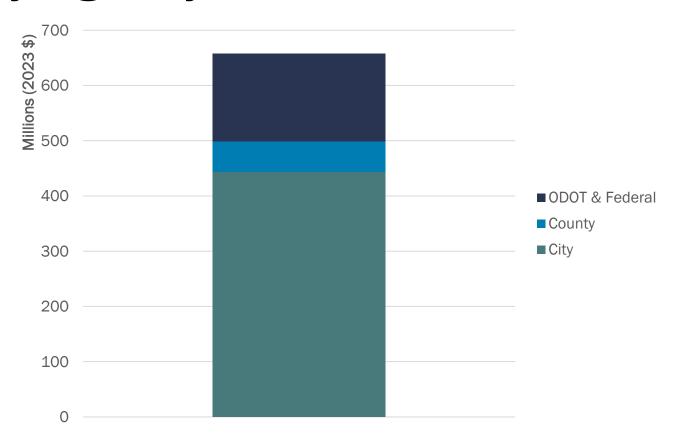


#### Overview of O&M revenues by agency

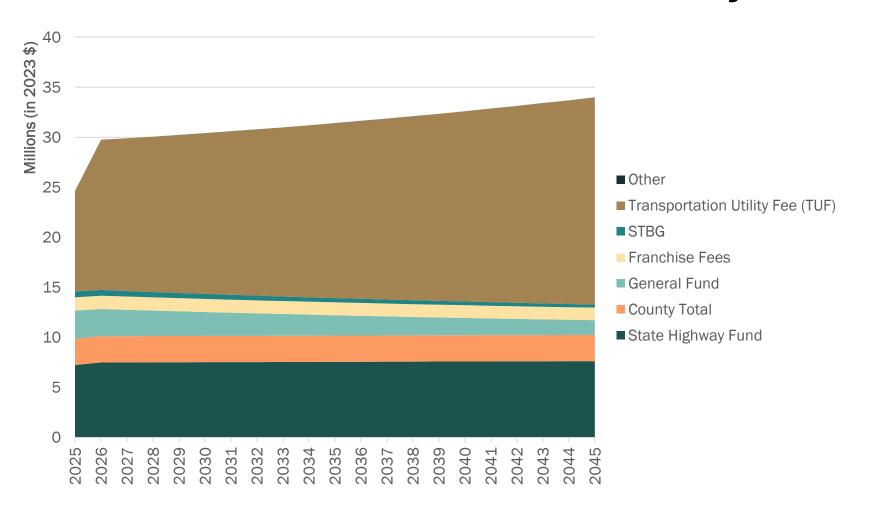


## O&M 20-year totals

## Revenue by agency



## **Estimated Annual O&M Revenue by Source**













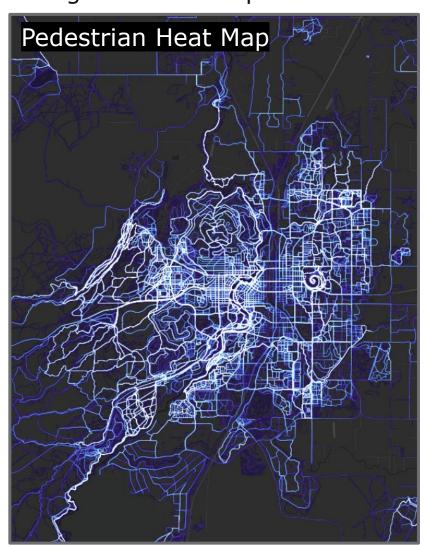
Los Angeles Portland Seattle Boise

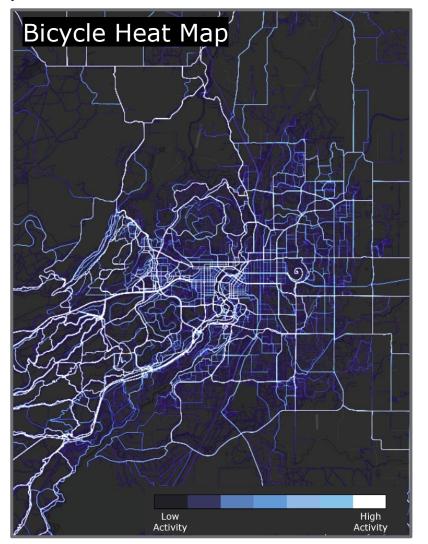


# NEEDS SUMMARY

#### **ACTIVE TRANSPORTATION TRENDS**

High active transportation activity on the west side of the river







#### **ACTIVE TRANSPORTATION TRENDS**

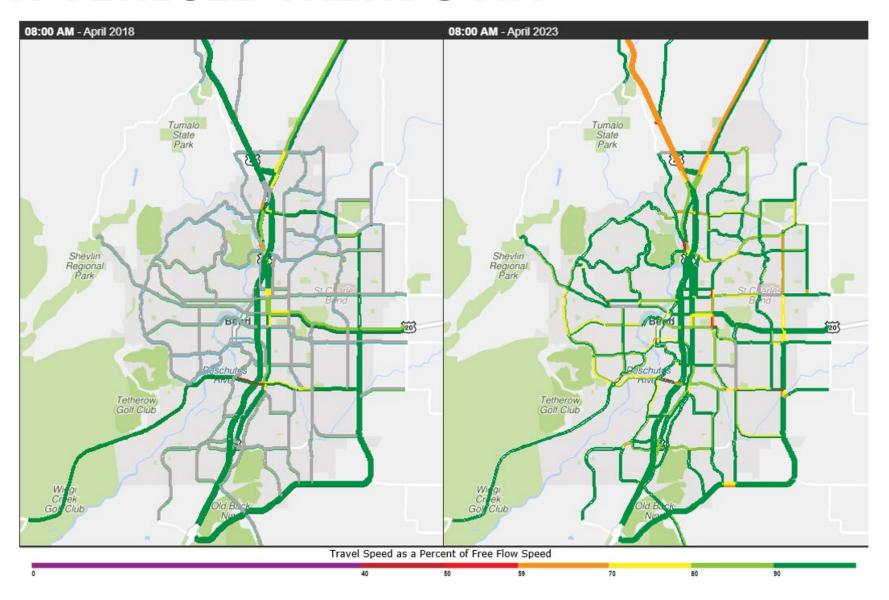
#### DAILY AVERAGE PEDESTRIAN AND BICYCLIST COUNTS

LOCATION	2018		2023		CHANGE	
	Pedestrian	Bicyclist	Pedestrian	Bicyclist	Pedestrian	Bicyclist
FRANKLIN AVENUE	116	74	99	86	-15%	16%
COLORADO AVENUE	45	45	63	41	40%	-9%
GALVESTON AVENUE	355	92	450	131	27%	42%

#### TRANSIT TRENDS

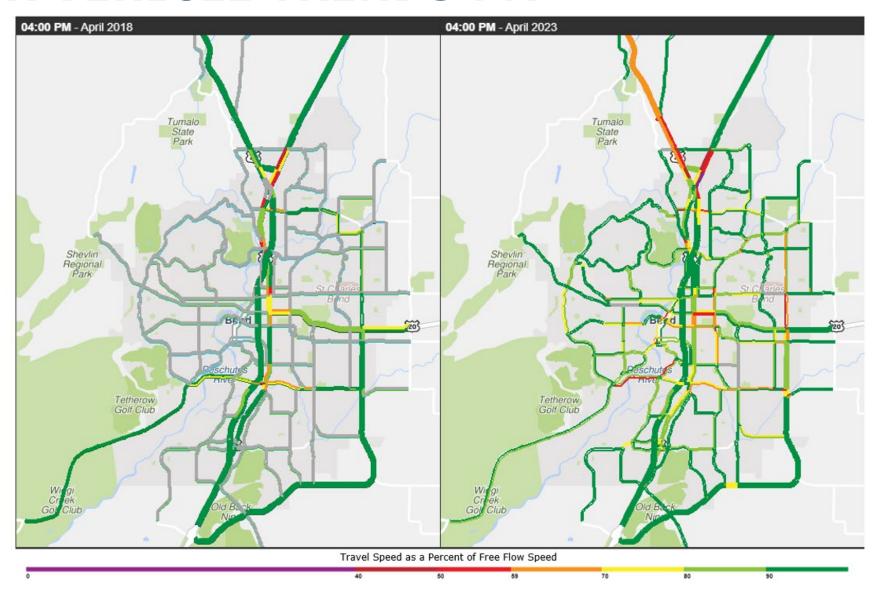
- Fare free system since 2020
- Route 10 suspended in 2021 due to driver shortages
- Route 11 upgraded to 30-minute peak period headways
- Route 9 added in 2023, serving SE Bend along 15<sup>th</sup> Street and Murphy Rd
- Driver shortages continue to strain CET operations and limit immediate expansion or increased service opportunities

#### **MOTOR VEHICLE TRENDS AM**





#### **MOTOR VEHICLE TRENDS PM**





#### **MOTOR VEHICLE CONGESTION TRENDS**

- Key Changes
  - > US 20 (north of Empire)
    - Driven by construction on US 20
  - > Empire Ave /27<sup>th</sup> Street
    - Empire Extension has increased demand on this corridor by providing a more direct connection for US 97 and US 20
  - > US 20/Greenwood East of 8th Street
    - Reduced congestion due to Empire Extension
- Key Similarities
  - > US 97 North Corridor
    - Congestion from Cooley to Empire
  - > Reed Market Road
    - Congestion from Century Drive to 15<sup>th</sup> Street
  - > US 20/Greenwood Ave
    - Congestion from 3<sup>rd</sup> St to 8<sup>th</sup> St



# **US 97 TRAFFIC VOLUME TRENDS**

#### 2018 & 2022 AADT AT AUTOMATIC TRAFFIC RECORDERS ALONG US 97

LOCATION ID	NEAR	2018 AADT (VEHS)	2022 AADT (VEHS)	GROWTH
09007	South of Empire Ave	55,100	56,862	3%
09009	Revere Avenue Interchange	54,685	55,763	2%
09025	Pinebrook Boulevard	21,754	22,839	5%
09003	China Hat Road	26, 542	27,502	4%

# GROWTH TRENDS AND PROJECTIONS

	2018 <sup>A</sup>	2019	2020 <sup>8</sup>	2021	2022	GROWTH 2018-2022
DESCHUTES COUNTY OVERALL	188,980	193,000	199,263	203,916	207,561	18,581 (9.8%)
CITY OF BEND	89,505	91,385	99,453	101,153	102,834	13,329 (14.8%)

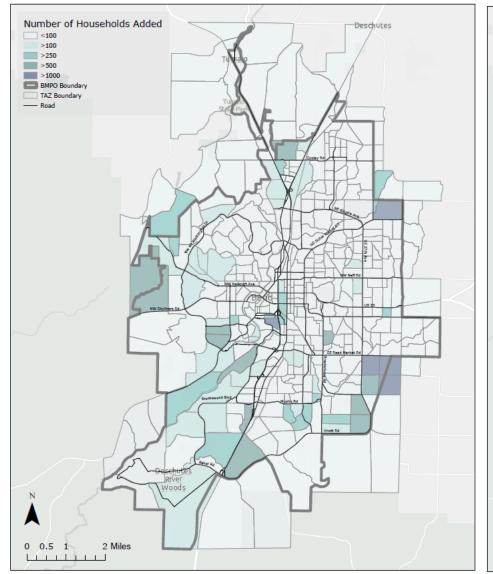
A. 2018 & 2019 values were obtained from the Population Research Center at Portland State University 2020 Annual Oregon Population Report Tables published 4/15/2021.

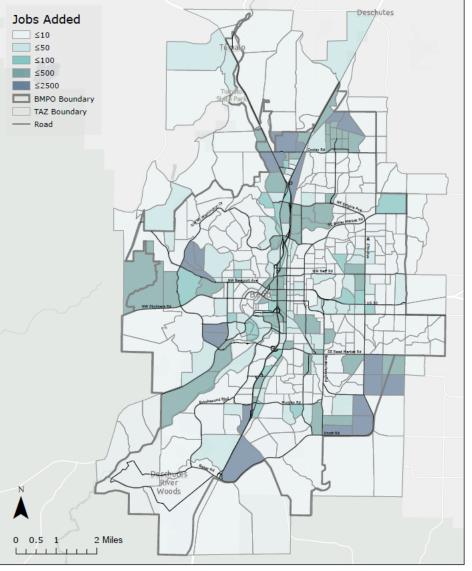
B. 2020-2022 values were obtained from the Population Research Center at Portland State University 2022 Annual Oregon Population Report Tables 4/24/2023.

AREA	YEAR 2020	YEAR 2045	% GROWTH
DESCHUTES COUNTY OVERALL	198,253	292,443	48%
BEND UGB	99,598	155,806	56%

Source: Chen, C., Sharvgin, E., Whyte, M., Loftus, D., Rynerson, C., Alkitkat, H. (2022). Coordinated Population Forecast for Deschutes County, its Urban Growth Boundaries (UGB), and Area Outside UGBs 2022-2072. Population Research Center, Portland State University

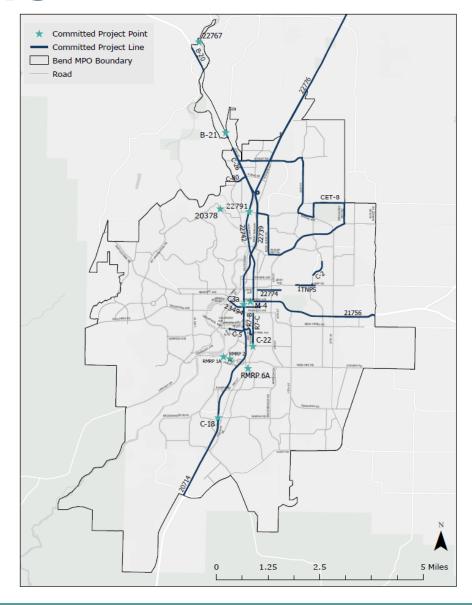
# **2019-2045 LAND USE GROWTH**





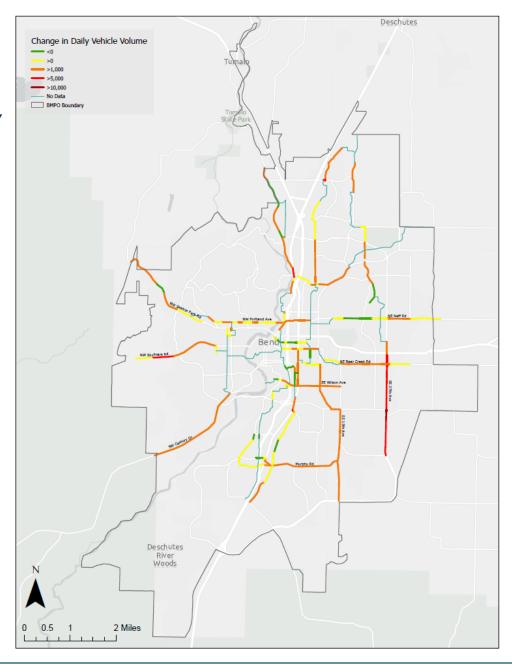
## **2045 NO BUILD PROJECTS**

- Baseline 2045 No Build (Committed) Project Scenario
- Projects from Bend's CIP,
   ODOT's STIP, or BMPO's MTIP
   – includes only projects with
   short-term, committed
   funding obligations and clear
   scopes (roughly a 5-year
   project list)
- Bend MPA will experience its projected growth in population and employment and demand for transportation facilities will increase



# FUTURE ACTIVE TRANSPORTATION NEEDS - INCREASED MOTOR VEHICLE DEMAND ON KEY ROUTES

- SE 27th Street.
- SE 15th Avenue
- Murphy Road
- SE Wilson Avenue
- SW Century Drive



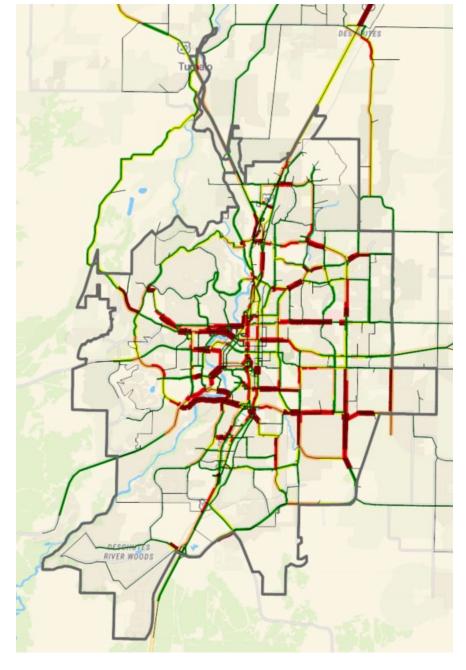
# FUTURE MOTOR VEHICLE NEEDS

- East-West Corridor Congestion
  - > NE Butler Market Rd
  - > NW Galveston Ave
  - > NE Neff Rd
  - > NW Portland Ave
  - > NE Newport Ave
  - > SE Reed Market Rd
  - > SE Wilson Ave
  - > SE 15<sup>th</sup> St
  - > Colorado Ave

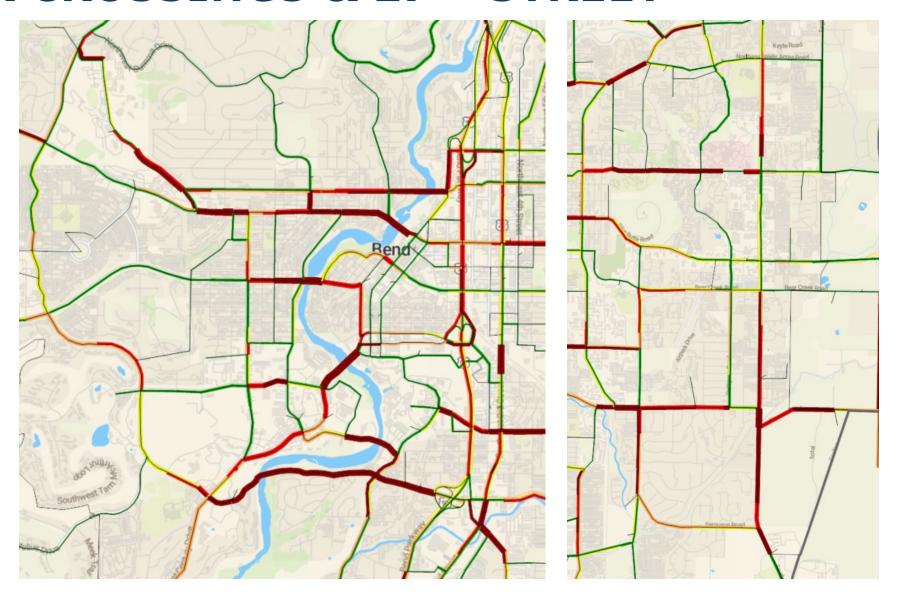
- North-South Corridor Congestion
  - > SE 15<sup>th</sup> St
  - > 3<sup>rd</sup> Street
  - > 27<sup>th</sup> Street

#### Safety

- > US 20 (Greenwood) Corridor
- > Bear Creek Corridor
- > 3<sup>rd</sup> Street (south of Butler Market)



# RIVER CROSSINGS & 27<sup>TH</sup> STREET





# PROJECT LIST EVALUATION

### PRELIMINARY PROJECT LIST - OVERVIEW

- 318 Capital Projects (does not include O&M)
- 135 Programs
- Sourced from 17 different local plans
- Includes projects from:
  - > City of Bend
  - > ODOT
  - > Deschutes County
  - > CET
- Preliminary Estimated Cost (Projects and Programs)
  - > \$1.4 Billion

# PRELIMINARY PROJECT LIST SOURCES

Local Plan	Year Adopted	Local Plan	Year Adopted
Bend TSP	2020	Deschute Co. TSAP	2019
Bend MPO MTP	2019	US 20 Bend Facility Plan	In Process
US 97 Parkway Plan	2021	US 97 Reed Mkt. Plan	2023
Deschutes Co. TSP Update	In Process	US 97 Baker IAMP	In Process
Deschutes Co. ITS Plan	2020	US 97 North Int. Study	2021
ODOT STIP	2023	SE Area Plan	2021
CET Master Plan	2020	Stevens Ranch Master Plan	2021
Bend Parks and Rec. Master Plan	2018	Stevens Rd Tract Master Plan	2023
Bend TSAP	2019		

## PRELIMINARY RESULTS - MODAL

#### Active Transportation Mode Share

MODE	2019 BASE	2045 COMMITTED	2045 PROJECT LIST	% CHANGE BETWEEN COMMITTED AND PROJECT LIST
PEDESTRIAN	10.2%	11.9%	12.4%	4.8%
BICYCLE	3.4%	3.4%	3.5%	2.3%

#### Transit Mode Share

MODE	2019 BASE	2045 COMMITTED	2045 PROJECT LIST	% CHANGE BETWEEN COMMITTED AND PROJECT LIST
TRANSIT DEMAND	0.14%	0.15%	0.59%	400%

#### Transit Coverage

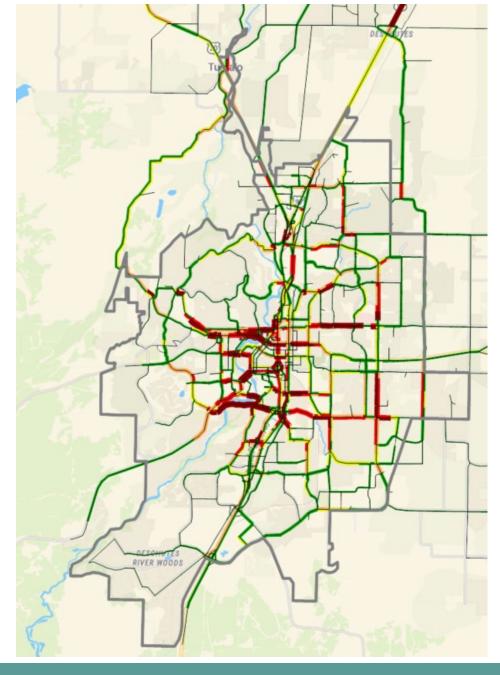
MODE	2019 BASE	2045 COMMITTED	2045 PROJECT LIST	% CHANGE BETWEEN COMMITTED AND PROJECT LIST
HOUSEHOLDS	49%	44%	50%	14%
JOBS	79%	55%	60%	9%

# ACTIVE TRANSPORTATION – MTP PROJECT LIST PERFORMANCE

- Improved Corridors due to reduced motor vehicle traffic
  - > Skyliners Road NW 17th St to NW Crossing Dr
  - > Shevlin Park Road Mt Washington Dr to Skyline Ranch Rd
  - > Bear Creek Road NE 15th St to Ward Rd
  - > Hawthorne Ave NW Harriman St to US 97
  - > SE 9th Street SE Glenwood Dr to Reed Market Rd
- Degraded Corridor (increased motor vehicle traffic)
  - > NE Franklin Ave NW Harriman St to NE 3rd St
  - > Parrell Rd China Hat Rd to Murphy Rd
  - > NE 18th St NE Talus Pl to Egypt Dr

# DRAFT MTP PROJECT LIST – MOTOR VEHICLE PERFORMANCE

 Even with the projects listed in the preliminary project list there are still capacity issues throughout the network



### **KEY FINDINGS - NEW NEEDS**

Proposed new interchange connecting NE 18th Street to US 97 (Project 97.A in Attachment A) clearly impacts a designated Key Routes for Walking and Bicycling. This new connection would attract more motor vehicle traffic to the portion of the NE 18th Street.

**Desire for higher levels of treatments for active transportation improvements** from community input than was originally scoped for the Key Routes project.

The 2045 Draft MTP Project List **does not provide sufficient transit coverage** to fully serve the new growth areas on the urban fringe of the Bend Metropolitan Planning Area (MPA).

**OB Riley Road** – The corridor capacity need identified in the prior local planning efforts consolidates to a smaller bottleneck issue at Archie Briggs due to lower land use growth assumptions in this area (e.g., Gopher Gulch).

### **KEY FINDINGS – CHANGING NEEDS**

**OB Riley Road** – The corridor capacity need identified in the prior local planning efforts consolidates to a smaller bottleneck issue at Archie Briggs due to lower land use growth assumptions in this area (e.g., Gopher Gulch).

**Shevlin Park Road** – New traffic congestion need east of Skyline Ranch Road.

**Neff Road** – Heightened congestion need between 8th Street and 27th Street, with potential of increasing neighborhood cut-through traffic.

**Hamby Road** – New traffic congestion need from Stevens Road to Bear Creek Road, driven by growth in the Stevens Ranch and Department of State Lands (DSL) areas.

**Powers Road** – New congestion need between US 97 and Brookswood Boulevard.

### **KEY FINDINGS - UPDATED NEEDS**

**East-West River Crossings** – This congestion issue was a key need identified in the City's TSP and was flagged for monitoring. Current travel demand model forecasts indicate that these crossings will experience traffic demand well beyond existing capacity, indicating a need to move forward with a study for new/enhanced river crossings.



# KEY FINDINGS UPDATED NEEDS

27th Street – This corridor was flagged for monitoring in the City's TSP, with the year 2040 analysis indicating a need for a five-lane cross section from Empire Boulevard to Ferguson Road. The 2045 Draft MTP Project List evaluation indicates that by the year 2045 Horizon, a five-lane cross section is only needed between St. Charles Hospital in the north and Reed Market Road in the south.





# NEXT STEPS

### **UPCOMING TASKS**

- Comments from TAC on Existing/Future Needs Memo 1/17/2024
- Comments from TAC on MTP Draft Project List Evaluation Memo – 1/17/2024
- Policy Board Presentation (same topics) on 1/19/2024
- Refined MTP Project List Evaluation (next memo and TAC Meeting) – will include updated cost estimates
- CFA Sensitivity Scenario Development

# THANK YOU

#### **AARON BERGER**

PROJECT MANAGER adb@dksassociates.com 503-972-7853







# **Agenda Item #10: Public Comment**

# Agenda Item #11: Next TAC meeting

■ The next TAC meeting is scheduled for February 7<sup>th</sup> at 10 am

Agenda Item #12: Adjournment