

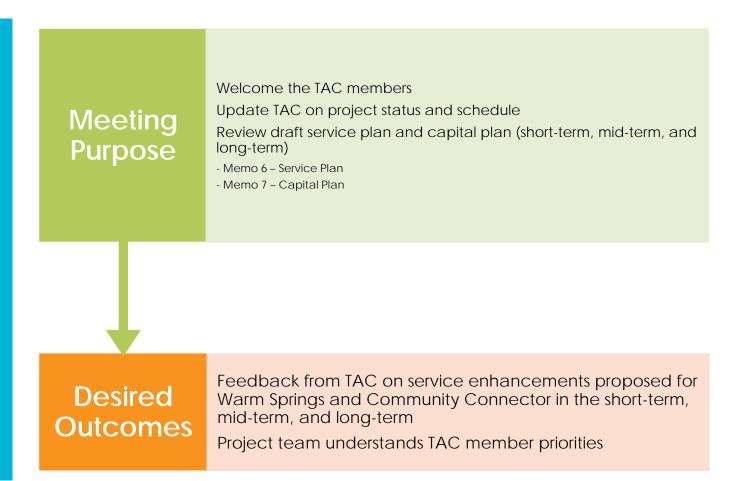
CET 2040 Transit Master Plan

Local TAC Meeting #2 – Warm Springs January 22nd, 2020





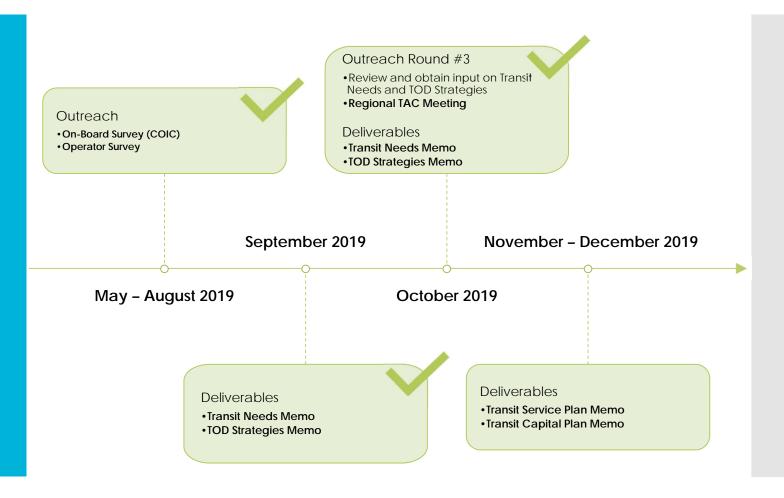
Meeting Purpose and Desired Outcomes





Project Status and Schedule

(Month 7-14)





Project Status and Schedule

(Month 15-18+)

Outreach Round #4

- •Review and obtain input on Transit Service Plan and Capital Plan
- Local TAC Meetings (6)
- Online Open House
- Project Steering Committee Meeting

Deliverables

- •Transit Service Plan Memo
- •Transit Capital Plan Memo

Local Agency Briefings - Review and obtain input on CET Development Plan and Community Pullout Sections

Project Steering Committee Meeting

Deliverables

- •Transit Implementation Plan Memo
- Draft CET Development Plan
- Draft Community Pullout Sections

March - April 2020

July 2020

January - February 2020

May - June 2020

Deliverables

- Transit Implementation Plan Memo
- Draft CET Development Plan
- Draft Community Pullout Sections

Deliverables

Adoption Support

Outreach

- •COIC Board Adoption Hearing
- Local Adoption Hearings



Memos 6 & 7



Memo 6 - Transit Service Plan

- Plan Phases & Funding Assumptions
- Service Types
- •Community Connector Service
- •Local Service in Smaller Communities
- Recreational Services
- •Summary of Community Connector/Local Service



Memo 7 - Transit Capital Plan

- Transit Vehicles
- Transit Facilities
- Transit Technology
- Transit Asset Management



Memo 6: Plan Phases & Funding Assumptions



Funding Level Assumptions

2

Existing Funding Source Assumptions



Future Funding Scenarios



Cost Assumptions



Rec's



Memo 6: Plan Phases & Funding

Assumptions

Funding Level Assumptions

- CET's fiscal year 2019-20 projected revenue budget = \$9.4 million (includes \$3.6 million from STIF)
- May be able to increase to \$16 million annually over 20 years
- Planned phasing and funding levels:
 - Existing: 0-2 years (FY 2019-21, includes STIF)
 - Short-Term: 3-5 years (FY 2022-23 and FY 2023-24, includes STIF)
 - Mid-Term: 6-10 years (Potential sources in addition to STIF)
 - Long-Term: 11-20 years (unconstrained financially)



Memo 6: Plan Phases & Funding Assumptions

Existing Funding Source Assumptions

- Revenue sources: federal, service contracts, state, local, fares, one-time revenues, and advertising/other
- Fluctuate year by year
- 1.0% growth rate assumed on non-STIF, 0% on state and local funds, and 2-5% increases in fare and contract revenues for future years
- STIF projections have been provided by ODOT through FY 2023
 - Stable for Warm Springs and vary for counties with 4% growth rate assumed after 2021

Funding	Sub-System or		Sample Fiscal Year						
Source	Qualified Entity	2019-2020	2024-2025	2029-2030	2039-2040				
Total Existing	Bend System	\$3,544,090	\$3,724,874	\$3,914,880	\$4,324,463				
Revenue		\$2,287,650	\$2,404,343	\$2,526,989	\$2,791,368				
	Confederated Tribes of the Warm Springs	\$100,000	\$100,000	\$100,000	\$100,000				
STIF	Crook County	\$223,000	\$313,664	\$381,620	\$564,891				
	Deschutes County	\$3,049,000	\$4,327,482	\$5,265,043	\$7,793,550				
	Jefferson County	\$222,000	\$314,746	\$382,936	\$566,839				
TOTAL		\$9,425,740	\$11,185,109	\$12,571,468	\$16,141,111				



Memo 6: Plan Phases & Funding Assumptions

Future Funding Scenarios

- Seven future funding scenarios
- All use existing funding source projections as a base

ID	Funding Soonaria	Variation	Fiscal Year						
ID	Funding Scenario	variation	2019-2020	2024-2025	2029-2030	2039-2040			
Α	Existing Revenue Sources (excluding STIF)	Includes both sub-systems	\$5,831,740	\$6,129,217	\$6,441,869	\$7,115,831			
В	Existing + STIF	N/A	\$9,425,740	\$11,185,109	\$12,571,468	\$16,141,111			
C1	Existing + STIF +	Within counties	-	\$18,832,255	\$22,331,381	\$32,038,980			
C2	0.02% Property Tax	Within incorporated areas	-	\$15,427,578	\$17,986,054	\$24,960,900			
D	Existing + STIF + Employer-Based Payroll Tax	N/A	-	\$16,241,000	\$18,701,068	\$25,166,391			
D1	Existing + STIF +	0.02% property tax within counties	-	\$23,888,147	\$28,460,980	\$41,064,260			
D2	Property Tax + Payroll Tax	0.02% property tax within incorporated areas	-	\$20,483,469	\$24,115,653	\$33,986,180			



Memo 6: Plan Phases & Funding Assumptions

Cost Assumptions

- Used in estimating service operating costs based on projections from CET's fiscal department
- "Existing" timeframe reflects CET's current costs for FY 2020 (2019-21), predating new service launched from 2019-21 STIF Plan)

Sub System	Existing ¹	Near-Term ²	Short-Term ²	Mid-Term ²	Long-Term ²
Sub-System	2019-2020	2020-2021	2024-2025	2029-2030	2039-2040
Bend Dial-A-Ride	\$74.15	\$81	\$101	\$132	\$220
Bend Fixed-Route	\$75.18	\$82	\$102	\$133	\$223
Rural Dial-A-Ride	\$87.14	\$94	\$116	\$151	\$251
Rural Community Connector	\$95.34	\$103	\$128	\$166	\$277
Rural Route 20	\$79.26	\$86	\$107	\$139	\$231
Peer Median ³	\$91	\$101	\$123	\$156	\$256

Notes: 1. Existing costs for 2019. 2. An additional approximately \$2 per revenue hour was added to the 2019 Existing cost to account for vacant positions. This cost was subsequently increased by 5% annually. 3. A peer median cost of \$85.40 for peer agencies in FY 2017 was identified in Memo #1, and similarly escalated by the 4% annually. 2. Costs for subsequent time frames reflect assumed 3% annual cost increases.



Memo 6: Plan Phases & Funding Assumptions

Recommendations

- Existing funding sources (including STIF) provide a base to continue funding existing transit services and enhance future transit services (some existing funding resources are declining/not increasing to keep up with inflation)
- Service and Capital Plan mid-term and long-term recommendations require additional funding
- Starting in the mid-term timeframe, additional funding resources are assume based on funding scenario C2, for illustrative purposes (0.02% property tax within incorporated areas only)
- Estimates can change quickly CET should continually monitor funding environment and update future revenue forecast





Overall Service Needs



Summary of Service Enhancements



Modifications to Existing Services



New Services



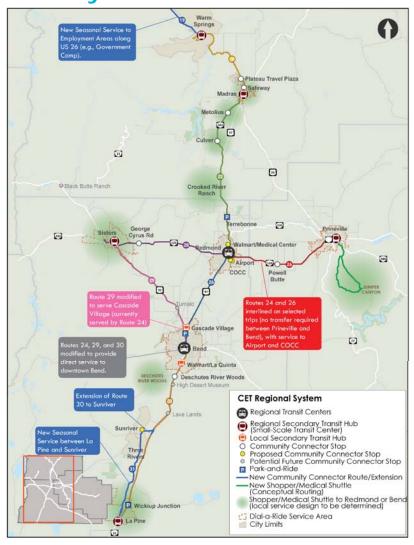
Overall Service Needs

 Existing and future needs for CET intercity system (noted in Needs Memo)

Transit Service Need	Time Frame
More frequent Community Connector service (various routes)	Short to Mid
Community Connector service on Saturdays (various routes)	Short
New Community Connector route between Warm Spring and Government Camp	Short
More direct trips between Prineville and Bend during peak periods (via interlining)	Short to Mid
Service to Redmond Airport (using Route 26) Serve Redmond Airport early morning departures and afternoon arrivals	Short to Mid
Add service to Sunriver (e.g., via Huntington) – possibly include Mount Bachelor). See Needs Memo for details.	Short to Mid



Summary of Service Enhancements





Modifications to Existing Services

Route 20: Warm Springs-Madras

- Improved connection to Central Oregon Breeze (see Capital Plan)
- Add Saturday service



New Services

Route "19": Warm Springs Employment Center Service

- Add service between Warm Spring and regional employment along US 26, such as Government Camp and ski resorts.
 - Phasing options: Initial seasonal service, 5 weekdays per week (Wednesday-Sunday), 4 months per year (December-March) expanding to year-round service.
 - This service could potentially connect to expanded transit options in the Mt Hood area in the future.



Memo 6: Local Service in Smaller Communities

Service Enhancements

Warm Springs

- Develop a local mobility hub, including a stop for the Central Oregon Breeze, existing Route 20, and proposed Route 21.
- Provide Saturday service on Route 20, which includes a local flex-route in Warm Springs.



Memo 6: Recreational Services

Recreational Services

The locations identified as potential needs and opportunities to seek out or evaluate partnerships include:

- Sunriver (year-round)
- Black Butte Ranch (year-round)
- High Desert Museum (year-round to/from Bend and/or Sunriver)
- Lava Lands Visitor Center (seasonal to/from Bend and/or Sunriver)
- OSU Cascades (year-round)
- Smith Rock (summer)
- Popular Central Oregon sno-parks (winter)













Finance Summary

Summary of Costs and Funding by Plan Time Frame

Phase Name	Existing	Near-Term	Short-Term	Mid-Term	id-Term Long-Term	
Plan Years	2019-2020	2020-2021	2022-2025	2026-2030	2031-2040	Term)
Representative Year	2019-2020	2020-2021	2024-2025	2029-2030	2039-2040	
Service Costs - Existing/Maintain	\$6,456,000	\$7,011,000	\$8,706,000	\$11,341,000	\$18,928,000	76%
Service Costs - Enhancements	\$0	\$1,986,000	\$1,849,000	\$10,345,000	\$24,268,000	236%
Service Costs - Total Capital/Match Req't (Average)	\$6,456,000	\$8,997,000 \$756,000	\$10,555,000 \$818,000	\$21,686,000 \$903,000	\$43,196,000 \$1,101,000	230%
Existing + STIF Funding Only	\$6,456,000	\$9,890,000	\$11,000,000	\$12,500,000	\$16,000,000	94%
STIF Carryover Funding Surplus (Deficit)	\$0	\$756,000 \$893,000	(\$373,000)	(\$10,089,000)	(\$28,297,000)	
Existing + STIF + 0.02% Property Tax (incorporated areas)	\$6,456,000	\$9,890,000	\$11,000,000	\$17,900,000	\$24,800,000	177%
STIF Carryover	\$0,430,000	\$9,890,000	\$11,000,000	\$17,900,000	ΦΖ4,δUU,UUU	177%
Funding Surplus (Deficity)	\$0	\$893,000	(\$373,000)	(\$4,689,000)	(\$19,497,000)	



Finance Summary

Costs and Funding by Service Type and Area

Memo 6: Summary of Community Connector and Local Service

Phase Name	Existing /	Near-	Short-Term	Mid-Term	Long-Term	% Change (Exist.
7 11000 11011110	Near-Term	Term				to Mid-Term)
Plan Years	2019-2020	2020-2021	2023-2025	2026-2030	2031-2040	
Representative Year	2019-2020	2020-2021	2024-2025	2029-2030	2039-2040	
Total Service Cost	\$6,457,000	\$8,997,000	\$10,555,000	\$21,686,000	\$43,196,000	
Existing + STIF Funding	\$6,456,000	\$9,890,000	\$11,000,000	\$12,500,000	\$16,000,000	
By Service Type						
Community Connector	\$1,363,000	\$2,441,000	\$2,861,000	\$4,390,000	\$8,655,000	222%
Fixed-Route	\$2,290,000	\$3,298,000	\$3,896,000	\$11,496,000	\$21,924,000	402%
Dial-A-Ride (All Communities)	\$2,804,000	\$3,258,000	\$3,798,000	\$5,800,000	\$12,617,000	107%
Community Connector						
Warm Springs - Madras: CC	\$229,000	\$273,000	\$340,000	\$442,000	\$802,000	93%
Madras - Redmond: CC	\$233,000	\$474,000	\$134,000	\$754,000	\$1,332,000	224%
Redmond - Bend: CC	\$342,000	\$493,000	\$664,000	\$928,000	\$1,659,000	171%
Prineville - Redmond: CC	\$164,000	\$468,000	\$581,000	\$810,000	\$1,415,000	394%
Sisters - Redmond: CC	\$91,000	\$125,000	\$155,000	\$201,000	\$335,000	121%
Sisters - Bend: CC	\$106,000	\$165,000	\$246,000	\$344,000	\$637,000	225%
La Pine - Bend: CC	\$198,000	\$133,000	\$355,000	\$460,000	\$861,000	132%
Warm Springs / Employment Areas: CC	\$0	\$79,000	\$99,000	\$0	\$859,000	-
La Pine - Sunriver: CC	\$0	\$214,000	\$266,000	\$345,000	\$576,000	-
Crooked River Ranch - Redmond: CC	\$0	\$16,000	\$20,000	\$53,000	\$89,000	-
Deschutes River Woods - Bend: CC	\$0	\$0	\$0	\$53,000	\$89,000	-
Bend Local Service						
Bend: Fixed-Route	\$2,290,000	\$2,901,000	\$3,595,000	\$9,423,000	\$17,825,000	311%
Bend: Dial-A-Ride (Including microtransit)	\$1,141,000	\$1,181,000	\$1,551,000	\$3,270,000	\$5,918,000	187%
Non-Bend Local Service						
Redmond: Fixed-Route and/or Dial-A-Ride	\$912,000	\$1,381,000	\$1,516,000	\$3,260,000	\$6,411,000	257%
La Pine: Dial-A-Ride and/or Flex-Route	\$272,000	\$293,000	\$362,000	\$471,000	\$1,566,000	73%
Sisters: Dial-A-Ride and/or Flex-Route	\$14,000	\$30,000	\$37,000	\$48,000	\$80,000	243%
Madras: Dial-A-Ride and/or Flex-Route	\$227,000	\$257,000	\$317,000	\$412,000	\$1,370,000	81%
Prineville: Dial-A-Ride and/or Flex-Route	\$238,000	\$513,000	\$317,000	\$412,000	\$1,370,000	73%



Finance Summary

Costs and Funding by Qualified Entity, Existing Through Short-Term

	2 - 11111)				
	Warm Springs				
Phase Name	Existing	Short-Term	Mid-Term		
Plan Years	2023-2025	2023-2025	2026-2030		
Representative Year	2024-2025	2024-2025	2029-2030		
Service Cost	\$153,000	\$327,000	\$296,000		
STIF Funding Only	N/A	\$100,000	\$100,000		
By Service Type					
Community Connector	\$153,000	\$327,000	\$296,000		
Fixed-Route	\$0	\$0	\$0		
Dial-A-Ride (All)	\$0	\$0	\$0		
Community Connector					
Warm Springs - Madras	\$153.000	\$228.000	\$296.000		
Madras - Redmond	\$0	\$0	\$0		
Redmond - Bend	\$0	\$0	\$0		
Prineville - Redmond	\$0	\$0	\$0		
Sisters - Redmond	\$0	\$0	\$0		
Sisters - Bend	\$0	\$0	\$0		
La Pine - Bend	\$0	\$0	\$0		
Warm Springs / Employment Areas	\$0	\$99,000	\$0		
La Pine - Sunriver	\$0	\$0	\$0		
Crooked River Ranch - Redmond	\$0	\$0	\$0		
Deschutes River Woods - Bend	\$0	\$0	\$0		
Bend Local Service					
Bend: Fixed-Route	\$0	\$0	\$0		
Bend: Dial-A-Ride	\$0	\$0	\$0		
Non-Bend Local Service					
Redmond: Fixed-Route / DAR	\$0	\$0	\$0		
La Pine: DAR / Flex-Route	\$0	\$0	\$0		
Sisters: DAR / Flex-Route	\$0	\$0	\$0		
Madras: DAR / Flex-Route	\$0	\$0	\$0		
Prineville: DAR / Flex-Route	\$0	\$0	\$0		



Community Connector

Community Connector Service Plan Summary

Plan Phase	Existing/Near- Term	Short-Term	Mid-Term	Long-Term
Funding Level:	Existing + STIF FY19-21	STIF FY22-23, FY23-24	STIF+Additional Sources	STIF+Additional Sources
Route 20 Warm Springs - Redmond	 Maintain existing weekday service (6 daily trips) 	 Add Saturday service (3 trips) 	 6 weekday and 3 Saturday trips 	 6 weekday and 3 Saturday trips Add Sunday service (3 trips)
Route "19" Warm Springs Employment Service	 New Seasonal Service, Wed- Sun, 3 trips per day, 4 months per year 	 Maintain seasonal service 	 Maintain seasonal service 	 7 days per week, 3 daily trips
Route 22 Madras - Redmond	 Add 1 peak or midday trip (7 total) Add midday shopper/medical shuttle trip (5 days) Add 3 Saturday trips 	 7 weekday, 3 Saturday trips Midday shopper/ medical shuttle (5 days) 	J	 Saturday trips Midday shopper/ medical shuttle (5 days)



Local Service

Local Service Plan Summary

Plan Phase	Existing/Near- Term	Short-Term	Mid-Term	Long-Term
Funding Level:	Existing+ STIF FY19-21	STIF FY22-23, FY23-24	STIF+Additional Sources	STIF+Additional Sources
Madras	Dial-A-Ride • 7:30 am – 5:30 pm Flex-Route as part of Route 20	Dial-A-Ride/Flex-Route • 7:30 am - 5:30 pm Early evening and Saturday limited circulation as part of Route 20/22 flex-routes	Dial-A-Ride/Flex-Route • 7:30 am - 5:30 pm Early evening and Saturday limited circulation as part of Route 20/22 flex-routes	Dial-A-Ride/Flex-Route • 7:30 am - 5:30 pm Early evening, Saturday, and Sunday limited circulation as part of Route 20/22 flex-routes
Warm Springs	Flex-Route (part of Route 20) • 6 am – 7 pm (6 trips) Add flex-route as part of 3 Saturday Route 20 trips Flex-Route (part of Route 20) • 6 am – 7 pm (6 trips) 3 Saturday Route 20 flex-route trips		Flex-Route (part of Route 20) • 6 am – 7 pm (6 trips) 3 Saturday Route 20 flex-route trip	Flex-Route (part of Route 20) • 6 am – 7 pm (6 trips) 3 Saturday and Sunday Route 20 flex-route trip



Fleet and Facility Requirements

Memo 6: Summary of Community Connector and Local Service

Fleet Requirements

Vehicles Required	Total	Buses by	y Time P	Incremental Buses by Time Period (vs. previous time period)			
	Existing	Short-	Mid-	Long-	Short-	Mid-	Long-
	LXISTIIIG	Term	Term	Term	Term	Term	Term
By Community or Connection	26	33	50	54	7	17	4
Bend	13	15	27	27	2	13	0
Redmond	4	5	8	8	1	4	0
Redmond - Bend	1	2	2	2	1	0	0
La Pine	1	1	1	2	0	0	1
La Pine - Bend	1	1	1	1	0	0	0
La Pine - Sunriver	0	1	1	1	1	0	0
Sisters	0	0	0	0	0	0	0
Sisters - Redmond	1	1	1	1	0	0	0
Sisters - Bend	1	1	1	1	0	0	0
Madras	1	1	1	2	0	0	1
Madras - Redmond	1	0	2	2	-1	2	0
Prineville	1	1	1	2	0	0	1
Prineville - Redmond	1	2	2	2	1	0	0
Warm Springs (incl in WS - Madras)	0	0	0	0	0	0	0
Warm Springs - Madras	1	1	1	1	0	0	0
Warm Springs / Employment Areas	0	1	0	1	1	-1	1
Crooked River Ranch - Redmond	0	1	1	1	1	0	0

 Do you have comments on the summary of recommended Community Connector and local services?



2040 TMP Fleet

Memo 7: Transit Vehicles

- When replacing existing and purchasing new vehicles, CET should consider the following amenities:
 - Low-floor vehicles for routes with high levels of wheelchair boardings and improved wheelchair equipment
 - Alternative fuel propulsion (energy efficient buses)
 - Enhanced communication equipment (e.g. bus radios)
 - Wifi equipped
 - Real-time arrival displays on buses













Transit Stops

2040 TMP Transit Stops Cost Estimate

Service	Existing Transit Stops (\$1K/stop)	New Transit Stops (\$15K/stop)				
Bend Fixed-Route	253	98				
Community Connector	31	26				
Redmond Fixed-Route	-	100				
Madras Flex-Route	-	10				
Prineville Flex-Route	-	10				
Base Average Annual Cost	\$19	97K				
Inflated Average Annual Cost	\$25	52K				
Base Annual Average Cash Match (15%)	\$30K					
Inflated Annual Average Cash Match (15%)	\$3	8K				



Transit Stops

- Transit stop investments should also incorporate the following amenities where appropriate:
 - Real-time arrival displays on shelters
 - Improved maps
 - Improved signage
 - Visitor kiosks
 - Crossing and safety improvements
- Low stress active transportation networks are critical to providing access to public transportation services.
 - Improving walking and biking routes along and cross roadways around bus stops makes it safer and more comfortable to access transit.
 - CET should coordinate with local partners to prioritize and improve pedestrian and bicycle access on these routes.



Transit Centers/Mobility Hubs

Туре		Example Locations	Со	ntext (Transit and Land Use)		Mobility Services	Tecl	nnology Features
Transit Center	•	Hawthorne Station (or future replacement in central eastside)	•	Central transit hub with multiple local and Community Connector routes	* * * *	Context-sensitive park-and-ride Drop-off area Car sharing Micromobility	**	Real-time information Off-board fare payment
Secondary Hub	* * * *	Cascade Village (North) Walmart (South) OSU (West) St. Charles (East) Hawthorne Station (if Transit Center is relocated) South Downtown Bend/Old Mill (vicinity of Colorado / Arizona); upgrade if transit center is relocated	>	Major activity center with 2+ connecting routes Potential Community Connector stop	*	Context-sensitive park-and-ride Drop-off area Car sharing Micromobility	>	Real-time information Off-board fare payment
Major Activity Center	* * * *	North Downtown Bend (vicinity of Newport/Hawthorne) COCC Forum Shopping Center Major employment areas	•	High ridership stop	•	Micromobility	*	Real-time information Off-board fare payment
Local Neighborhood	>	Local route terminus Neighborhood stop (fixed- route or deviated route)	*	Low-to-medium density residential land uses Can be employed with micromobility where urban form limits transit access	>	Drop-off area Micromobility	•	Real-time information
Local stops	•	Typical stop	•		•	Bike parking		
Park-and-ride lots (major or minor)	>	ODOT P&R Mt. Bachelor	>	City edge for unstructured parking Structured parking opportunities in central city, dense mixed use development areas	* * *	Micromobility Bike parking Drop off area	•	Real-time information



Transit Centers/Mobility Hubs

Memo 7: Transit Facilities

- The Needs Analysis (Memo 4) identified the need for a new, small-scale transit center in Warm Springs and Madras
- This is estimated to cost approximately \$1 million each

 Do you have comments on the recommended transit facilities?

Meetings

- Local TAC Meetings (January – February 10th, 2020)
- Online Open House (January 29th - February 17th, 2020)
- Steering Committee Meeting (March 11th, 2020)

Next Steps

Next Memos

- Implementation Plan
- Draft Transit Development Plan
- Local Agency Briefings Summer 2020
- Final Steering Committee Meeting Summer 2020
- COIC Board and Local Adoption Fall 2020

Adjourn