TriMet Red Line Extension and Operational Improvements Project

Project Briefing

October 25, 2017



Regional Growth

- 400,000 more people and 260,000 more jobs in less than 20 years
- Concentrated in Regional Centers, Town Centers, Station Areas, and Main Streets
- \$13.1 billion worth of development in station areas since decision to build
- 5% of the area (MAX station areas) had 39% of all the housing units developed on it since the decision to build each line

Running Time Variability on MAX





Reliability Challenges Accumulate



Gateway Transit Center

	Departure from			
Departure from	Clackamas Town	Departure	Arrival at	
Ruby Junction	Center	from PDX	Gateway	
				5:00 PM
4:42 PM			5:01 PM	5:01 PM
				5:02 PM
	4:46 PM		5:03 PM	5:03 PM
				5:04 PM
				5:05 PM
4:48 PM			5:06 PM	5:06 PM
				5:07 PM
Space left for merge with			5:08 PM	
Yello	w Line at Steel	Bridge		5:09 PM
				5:10 PM
				5:11 PM
		4:57 PM	5:12 PM	5:12 PM
				5:13 PM
				5:14 PM
4:57 PM			5:15 PM	5:15 PM
				5:16 PM
				5:17 PM
	5:01 PM		5:18 PM	5:18 PM
				5:19 PM
				5:20 PM
5:02 PM			5:21 PM	5:21 PM
				5:22 PM
Space left for merge with				5:23 PM
Yellow Line at Steel Bridge			5:24 PM	
				5:25 PM
				5:26 PM
		5:12 PM	5:27 PM	5:27 PM
				5:28 PM
				5:29 PM
5:11 PM			5:30 PM	5:30 PM

- 2+ minute buffer required between trains
- Almost no recovery time in schedule once trains are late



Proposed Project Elements

Element	Description
Extend to Fair Complex	Address over-crowding and add service to 10 stations Track and switch work Signalization Construction of operator break facility
Gateway	Improve system operations and reliability Convert single-track section to double-track
Portland Airport	Improve system operations and reliability Convert single-track section to double-track
New Vehicles	 8 more cars needed to operate extension 6 in service 2 spares
Ruby Junction	Extend existing storage tracks to hold 8 more cars



Benefits of the Project

- More service for crowded Westside
- Fixing Gateway will have the largest impact on our on-time performance of any capital improvement we have tested via simulation
- Leverages federal funds to improve existing MAX system



Extend Red Line





Fair Complex





Gateway – Existing Alignment and Conflict Points

- Single-track section
- 498 trains per day in all directions





Gateway



Airport Double Track (Proposed)

Conflicts: -IB Red w/ OB Red -OB Red w/ IB Red

> Conflicts: -IB Red w/ OB Red -OB Red w/ IB Red

> > Google earth

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Add second track

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Vehicles Needed

- 6 cars to operate extension (3 2-car trains)
- 2 cars are spares
- 8 total



Ruby Junction

- This option is preferred by REM but impacts storage space
- Also provides capacity for 8 cars
- Does not require new ROW





Project Status

- Conceptual design
- Current estimate approximately \$205 million, with \$100 million projected from FTA Small Starts program
- Working with Port of Portland, City of Portland, ODOT, and others
- Broader public outreach this Fall

Future Steps

- Project Development application would occur in 2018, formally kicking off FTA process
- Further design and NEPA would involve greater detail and involvement of any public and stakeholders potentially impacted
- Local contributions to project would need to start in FY2019 to maintain currently assumed timeline