



# PORTLAND STREETCAR

#### SERVICE PLAN NORTH/SOUTH LINE (6 STREETCARS); A/B LOOPS (4 STREETCARS EACH)

**3** SPARE STREETCARS; **56** OPERATORS AND **10** MECHANICS

WEEKDAY RIDERSHIP ~ 15,800/DAY

## Growing the Streetcar Community

Operating: Portland, Tacoma, Seattle, Washington, DC, Dallas, Cincinnati, Kansas City, Atlanta, Tucson, Charlotte, Salt Lake City

Coming Soon: Oklahoma City, Detroit, Milwaukee, Sacramento, and others

#### **Cincinnati: September 2016**



### Kansas City: April 2016



## Maturing System









PORTLAND STREETCAR



## Generating Ridership: Housing Units within ¼ mile of Streetcar, and Avg. Weekday Ridership on Streetcar



#### Affordable Housing Units within ½ mile of Portland Streetcar



#### Demographics of Portland Streetcar Users



## Planning for the Future

### **Short-Term Investments**

- 3 5 Additional Streetcars
  - Additional Maintenance Facility required after 5 additional cars
- Cameras Installed on All Streetcars
- Automatic Passenger Counters on All Streetcars
- Responsive to Changes Occurring on and Around our System
  - Zidell and SW Bond
  - South Portal/Moody
  - I-5 Rose Quarter

### **Long-Term Investments**



- Inclusion of Planned Extensions in Metro's RTP
- Growing the Maintenance and Operations Facility to Better Meet Demands.
- Improved Service and Schedules to Meet Growing Demand



## Portland Streetcar: Planning Context

### 2014 RTP Project List

- Streetcar Alternatives Planning
- Tilikum/OMSI Connection (Complete)
- NW 18<sup>th</sup>/19<sup>th</sup> to Montgomery Park
- NE MLK Jr. BLVD to Killingsworth
- Streetcar Extension to Hollywood
- John's Landing to Willamette Park
- Burnside/Couch to NE 14<sup>th</sup> to NW 23<sup>rd</sup>

### 2035 Comprehensive Plan Project List (Streetcar and Related)

- Hollywood Streetcar Extension Alternatives Analysis (Sandy vs Broadway)
- MLK Jr Blvd (Broadway to Killingsworth)
- Montgomery Park Streetcar
- John's Landing Streetcar Alternatives analysis
- Moody Ave Extension (SW Bancroft to SW Hamilton)
- SW Bond Ave (Gibbs to River Pkwy)
- I-5 Rose Quarter Project
- TriMet MLK Jr Transit Improvements
- Hollywood Town Center Improvements
- NE Broadway Safety and Streetscape Improvements

### System Expansion: Priority Routes from City's TSP and Comp Plan



## Evaluation Criteria and Methodology

Goal	Ref. #	Criteria	Mathadalagy/Maasuramant					
Guai	Kel. #	Cinteria	Methodology/Measurement					
	CE.1	Estimated capital cost	Community Streetcar Coalition (and comparable project) per-mile estimates calibrated for complexity of infrastructure. Note: Costs are in 2018 dollars					
Build and operate an efficient and cost effective system	CE.2	Estimated operating cost (per ride)	Cost per ride is determined by dividing the estimated annual operating cost by annualized estimated ridership. The estimated cost per ride is compared to cost per ride for TriMet frequent service bus routes					
	CE.3	Leverages existing system investments	Interlines with currently operating streetcar lines to achieve shorter headways and add capacity to existing system					
	M.1	Estimated transit ridership	Extracted person and transit trips for existing and horizon year (2040) using Metro's Travel Demand Model.					
Increases mobility for transit system users	M.2	Connects to other transportation facilities	Connects to transit centers, MAX, streetcar lines, bus lines and the tram					
	M.3	Potential transit benefit on future congested corridors	Forecasted congestion in proposed corridors in 2040 (as expressed by mid-day and PM volume to capacity ratios)					
Streetcar system equitably distributes	E.1	Provides new connections to essential destinations for populations of concern identified in TriMet's Equity Index	Composite score of the ten metrics that comprise TriMet's Equity Index					
benefits and burdens	E.2	Displacement risk	Level of vulnerability to displacement for corridor residents					
	TG.1	Consistent with City of Portland Comprehensive Plan designations	Land use reflects transit-supportive densities of commercial, residential and employment uses					
Supports targeted growth in designated corridors	TG.2	Serves anticipated housing growth in streetcar corridors	Allocated development closely matches comprehensive plan allowable density					
	TG.3	Connects to key destinations	Connects to high densities of jobs and services and/or Metro's Essential Destinations (parks, food, civic buildings, and retail locations)					
	F.1	Corridor redevelopment potential	Real market value per acre					
	F.2	Potential for tax increment financing	Potential for tax increment financing (nominal dollars in millions)					
Project feasibility	F.3	Value capture within the corridor	Value capture: tax increment financing as a percent of construction cost					
	F.4	Value capture to fund construction	Value capture potential: LID as a percent of construction cost					
	F.5	Potential for FTA Small Starts funding	Meets existing ridership threshold for FTA Warrants consideration					

Alignment	Capital Cost (Excludes Vehicles)	New Streetcars + Spares (\$4.5m/each)	Annual Operating Cost	Estimated Transit Trips in 2040	TriMet Equity Index Score (0-30)	LID % of Capital	FTA Consistency
John's Landing to Boundary	\$32,539,015	2+1 (\$14m)	\$2m	$\bigcirc$	10		$\bigcirc$
Macadam to Nevada	\$90,000,000	2+1 (\$14m)	\$3m	$\bigcirc$	10		$\bigcirc$
Broadway to Montgomery Park	\$119,688,000	8+2 (\$45m)	\$7.4m		18		
Sandy: Burnside/Couch to Tilikum to Pearl	\$84,423,485	9+2 (\$49.5m)	\$4-8m depending on terminus		14		
MLK: Killingsworth to Riverplace via Tilikum	\$67,140,341	7+2(\$40.5m)	\$6-7m		16		





**Expansion Study** STREETCAR SANDYSEGMENT NE BROADWAY 84 NE HALSEY ST 4 ÛÛ 18 110 O Hollywood NE Sandy Boulevard Transit Genter Ť. 3RD P Î P -11 **Option Enlargement** NE Couch Street HE SANDY BLVD -19TH NE GLISAN ST AVE NE HALSEY ST Hollywood -NE COUCH ST Transit Center E BURNSIDE ST S In MLK Str. 0 32 RAN S. 2 P 企工企 P 11 11 E Burnside Street Legend SE STARK ST - Existing Streetcar Route SE WASHINGTON ST - Existing TriMet Max Line - Proposed Streetcar Alignment P P 41 8 19 - Proposed Streetcar Alignment Options SE Sandy Boulevard Ν DRAFT 

09.22.2016



SANDY: HOLLYWOOD TO TILIKUM CROSSING



#### **NE Sandy Routing Options**

Burnside Bridge vs Tilikum Crossing

#### **Considerations:**

- Ridership
- Travel Time
- Operating Costs
- Fleet Size
- Bus Overlap

#### Expansion Study

#### BROADWAY: HOLLYWOOD TO MONTGOMERY PARK



LEGEND

- EXISTING STREETCAR
- ROUTE EXISTING TRIMET
- MAX LINE PROPOSED
- STREETCAR ALIGNMENT PROPOSED STREETCAR ALIGNMENT OPTIONS



	Housing	g Units: 2035	Real Market Value (Billion \$): 2035			
Alignment	Base	W/Streetcar	Base	W/Streetcar		
Macadam	8,297	11,904	\$2.586	\$3.503		
Broadway	3,192	10,521	\$1.445	\$3.205		
Montgomery Park	5,548	7,672	\$2.108	\$2.550		
MLK JR Blvd	2,690	3,428	\$1.098	\$1.208		
Sandy	5,644	15,012	\$2.175	\$4.443		

Source: Johnson Economics



RMV 2035: (\$B)

MLK JR Blvd

Sandy

### TriMet Equity Index: Potential Streetcar Alignments

	Composite Score (30 pts possible)	Pop. of Color	Low-Income Pop.	LEP Pop.	Senior Pop.	Youth Pop.	Pop w/ Disab.	HHs w/ Poor Veh. Access	Low/ Med Wage Jobs	Afford. Housing	Services
Hollywood/ Montgomery EAST	18										
Hollywood/ Montgomery WEST	18										
North MLK	16										
Sandy Blvd	14										
John's Landing	10										

#### **Relative Score**



High (3 pts)

Med-High (2 pts)

Med-Low (1pt)

Low (0 pts)

## Public Support and Next Steps

- Letters of support: Broadway to Montgomery Park
  - Hollywood Boosters
  - Hollywood Neighborhood Assoc.
  - Broadway/Weidler Alliance (all neighborhoods along NE Broadway)
  - Northwest District Association (NWDA)
  - Pearl Neighborhood Assoc.
  - Bill Naito Co (Montgomery Park)
  - Streetcar Citizen Advisory Committee



### • Next Steps

- PSI Recommendation to City of Portland:
  - Immediately procure more streetcars to support existing service.
  - Include Broadway/Montgomery Park alignment in Financially Constrained RTP
- Recommend other alignments be included as non-financially constrained
- City led efforts: NW Portland and NE Broadway Circulation and Access Plans
- Examination of ridership potential, bus service, and land use/housing opportunities.



## Thank You

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