SW Corridor Light Rail Project

Adoption of Preferred Alternative

Nov 1, 2018

WE KEEP PORTLAND MOVING.

Teresa Boyle - PBOTMalu Wilkinson - MetroEric Engstrom - BPSDave Unsworth - TriMet



Session Overview

Staff Presentation:

- Project Overview
- Land Use Perspective; Housing Strategy & MOU
- Work Plan
- Next Steps

Public Testimony

Council Q&A, Discussion & Action

Near Term Milestones

Council - accept Preferred Alignment Today

Council - authorize Jurisdictional Transfer Nov 7th

Metro Council adopts LPA, updatesNov 15thRTP and holds hearing on LUFO

Steering Committee established early 2019

Community Advisory Committee created early 2019

Project Development Phase

- Advance designs through technical analyses, urban design, community engagement
- Advice from CAC
- Decisions by Steering Committee
- Conceptual Design Report to illustrate design and how it addresses City priorities and community values
- Publish FEIS

Big Picture

- 2019/2020: Project Development and FEIS
- Early 2020: Portland commits local match
 - 2020: Voters decide on regional funding
 - 2021: Construction starts with local funds
 - 2023: FTA commits rest of funds
 - 2027: Light rail opens for Service

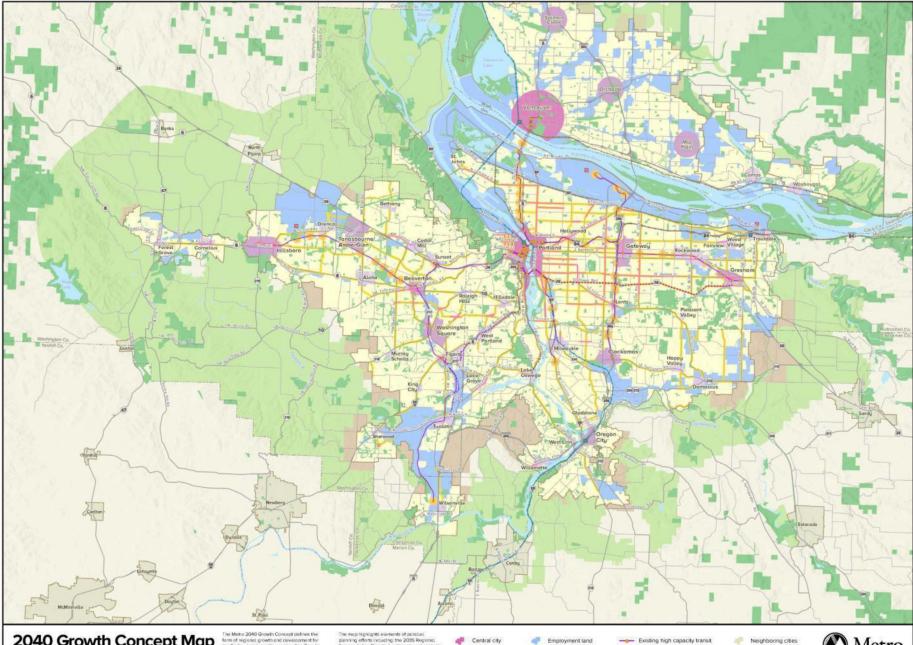
Project Overview

Malu Wilkinson

Metro

Dave Unsworth

TriMet



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2040 Growth Concept Map

September 2014

miles 4 2 (detabases of Metrics GE, Gain was taken in the coeffort of this map. Metric barriest eccept any and there are no warrantics, requirations or region, including the warranty of merchanisticity or reserve. The Metro 2040 Growth Concept defines the form of regional growth and development for the Portian tencooitlan region. The Growth Concept was accepted in December 1995 through the Region 2040 paraming and sub-involvement process. The concept is intended to provide Ling term growth management of the region.

The map highlights elements of porisitiel planning efforts including: the 2035 Regional licensportation Plan that outlines investments in multiple moese of benepartated on and a commitment to local policies and investments that will not be region better accommodate growth within its centers, corridon and employment trades. employment dreps. For more information on these initiatives, visit http://www.oregonmetro.gov/2040

Regional center Parks and natural areas -Town center Neighborhood Station communities 1 Rural reserve Main streets Urban reserve C Urban growth boundaries ---- County boundaries Corridors

--- Planned high capacity transit ••••• Proposed high capacity transit tier 1 Intercity rail terminal ---- Mainline freight

High speed rail

Airports



There could be 340,000 residents in the Southwest Corridor by 2035–

Bowl of Soul Mocha

IO

7070 more than today.

swcorridorplan.org

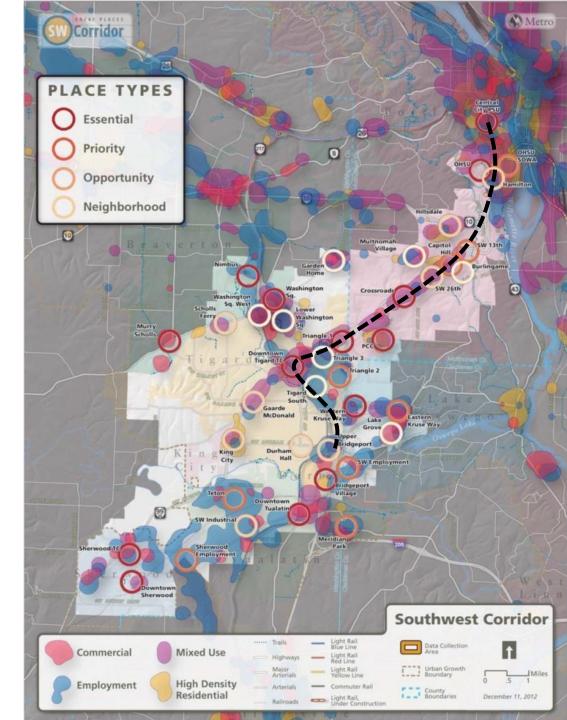
of Barbur Boulevard

5%

doesn't have a sidewalk on both sides. The Southwest Corridor Plan would fix that. swcorridorplan.org



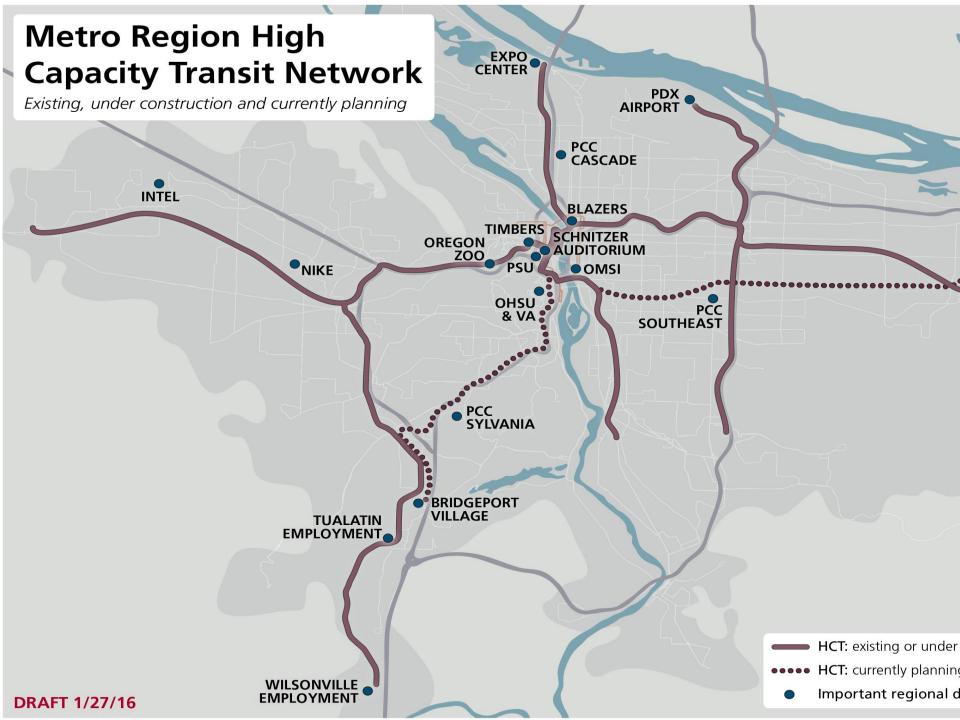
We started with land use to connect to places

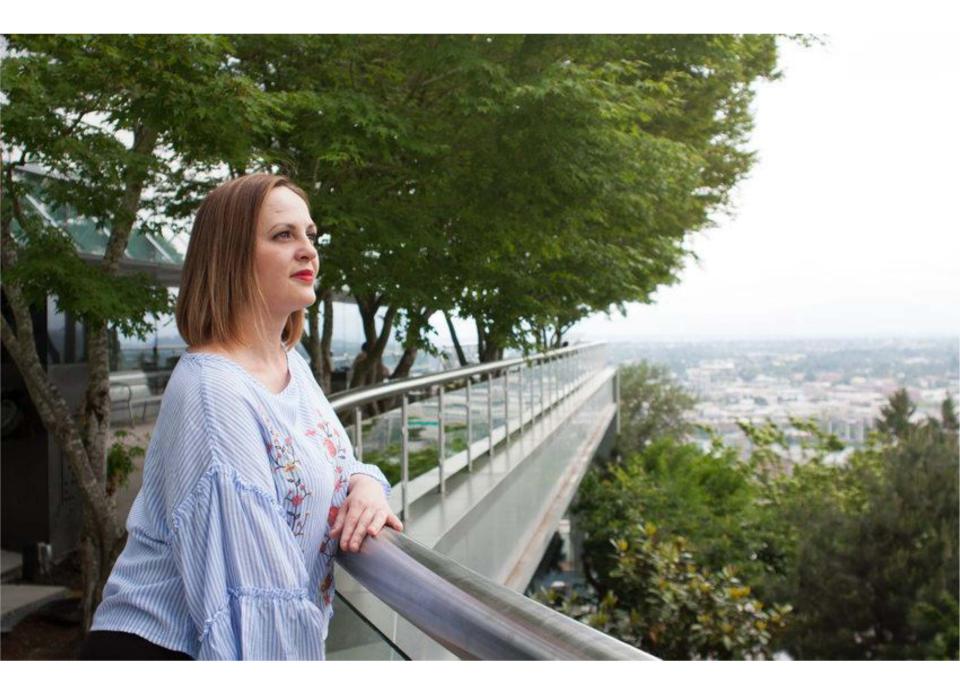


Shared Investment Strategy

Road, active transportation and green projects combine together to make a great place.









Community Advisory Committee

- 19 positions
- Representing Portland, Tigard, Tualatin and Washington County
- Business, community groups & institutions represented
- 14 monthly meetings
- Consensus on LPA





Engagement















Inclusive Growth

Housing

- Portland / Tigard Equitable Housing (funded with Metro grant)
- TriMet's commitment on housing
- Metro bond: \$653M

SW Equitable Development Strategy

- Housing
- Workforce development
- Business stabilization
- Pilot programs



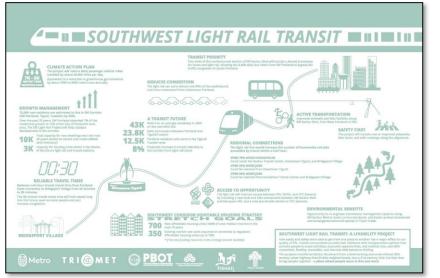
Project Benefits



43,000 riders on the line on an average weekday in 2035



1 in 5 commuters on MAX going southbound from downtown during the 2035 PM rush hour









Adds travel capacity

Fast — 30 min PSU to Bridgeport

Reliable — PM peak driving \bullet averages 29 mins but ranges up to 58 mins

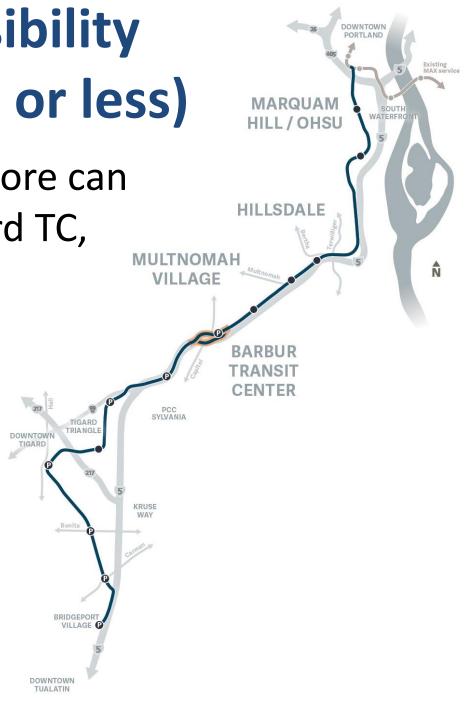
Popular — 43,000 daily rides in 2035





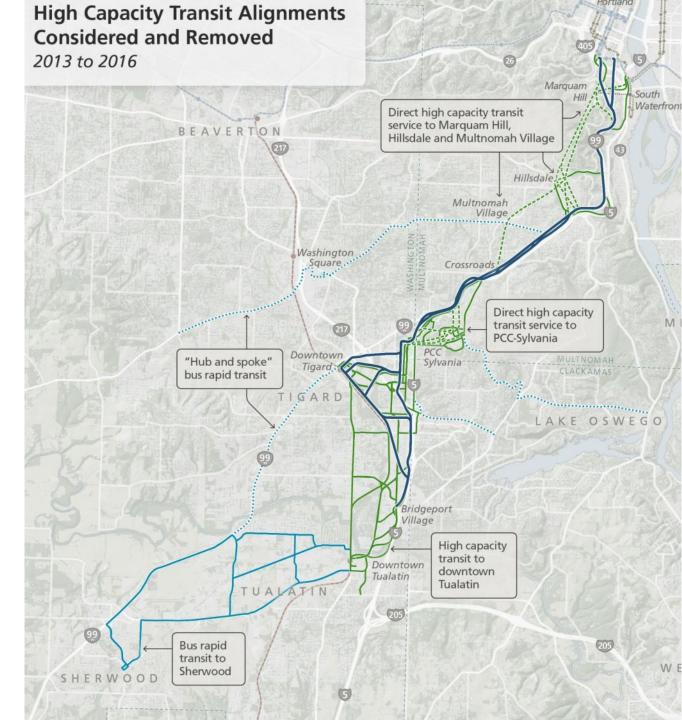
Accessibility (30 mins or less)

- Households 70% more can reach Barbur TC, Tigard TC, and Bridgeport
- Jobs
 - 35% more reached from Tigard TC
 - 60% more reached from Barbur TC and Bridgeport



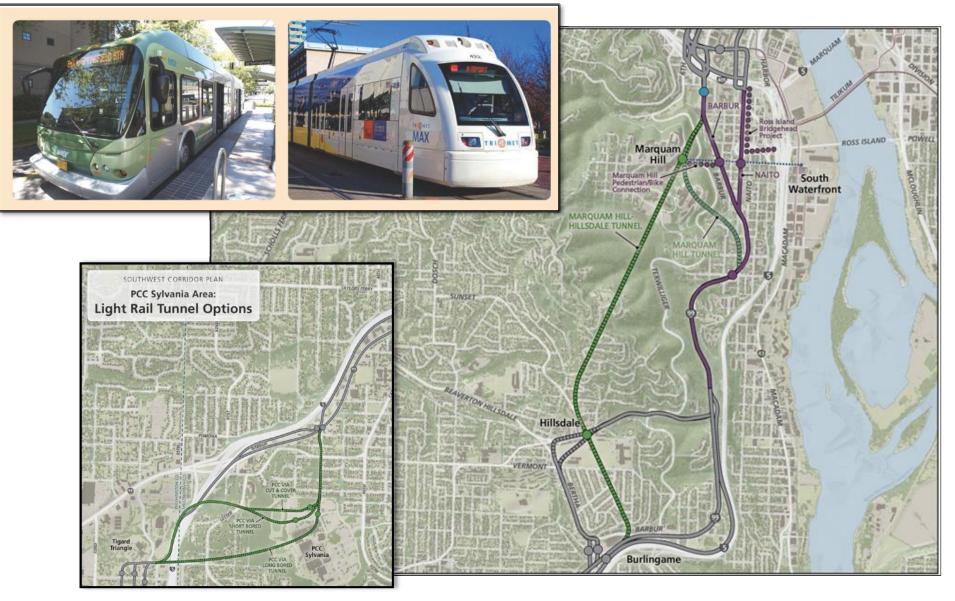


Over 60 alignment options were considered





Major decisions included tunnels and BRT or light rail





More than light rail...

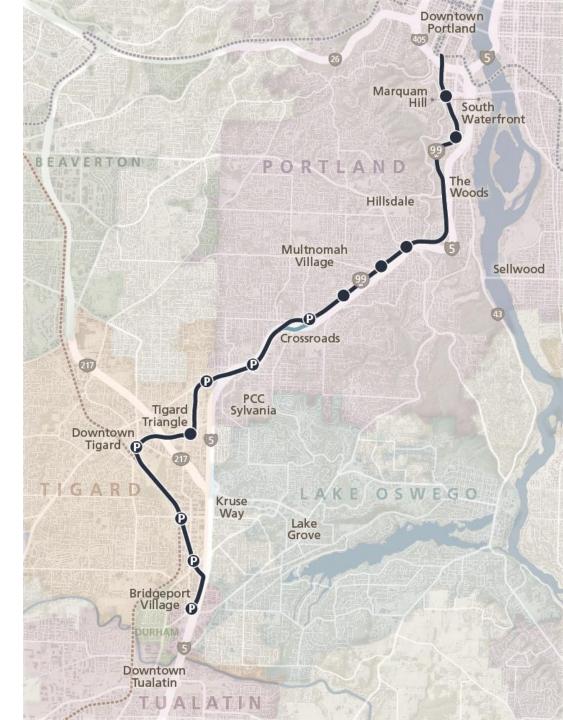
- new walk and bike connector between Barbur and Marquam Hill, increasing accessibility to Terwilliger Parkway
- 2-mile shared transitway to allow buses to bypass traffic congestion
- shuttle between PCC-Sylvania and nearby stations
- continuous sidewalks and protected
 bike lanes where LRT is in Barbur



Preferred Alternative recommended by SW Corridor Steering Committee

Based on...

- Purpose and Need
- Draft EIS
- Public + agency input
- FTA rating criteria





Inner Portland

- On Barbur Blvd.
- Marquam Hill connection (tbd)
- Shared transitway
- Replace Newbury and Vermont viaducts
- Continuous bike lanes
 & sidewalks on
 Barbur



Outer Portland

53rd

PCC Svlvania

68th

P

- On Barbur to Barbur transit center, then adjacent to I-5
- Study 2 options for crossing I-5

Barbur TC

Crossroads

PCC Sylvania shuttle

Custer

Hillsdale

9th

30th

Woods

 Barbur to retain 2 auto lanes each way



Next Steps

2019: Project Development

- New Steering Committee & CAC
- Public meetings & design workshops
- Update / advance designs
- Continue SWEDS
- Complete environmental review
- Create Conceptual Design Report

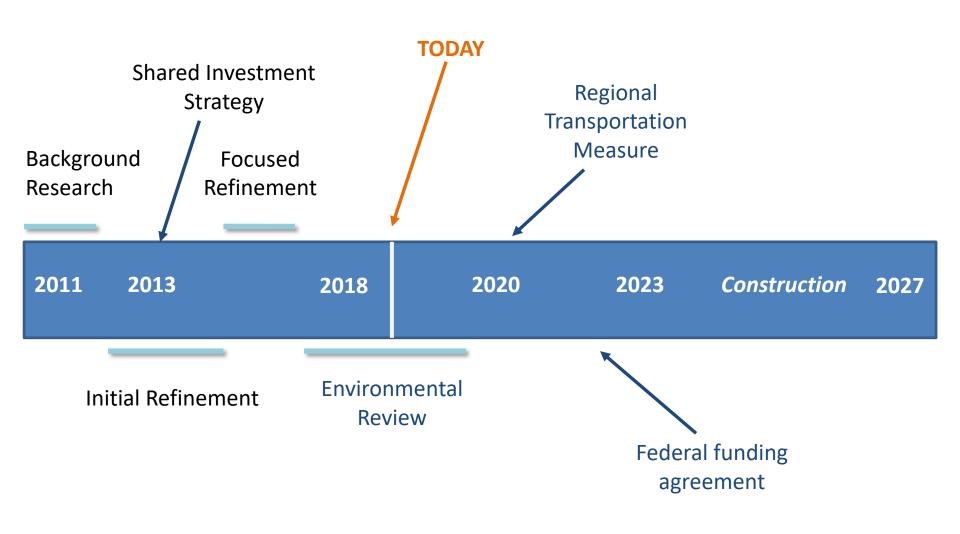
2020: Regional funding measure

2022: Secure federal funds

2027: Light rail opening



Overall LRT Schedule



Land Use & Housing Strategy



BPS

P O R T L A N D O R E G O N . G O V / T R A N S P O R T A T I O N



SW Corridor Equitable Housing Strategy BRINGING MORE HOUSING CHOICES AND OPPORTUNITY TO SOUTHWEST PORTLAND AND TIGARD





"To ensure the SW Corridor is a place of opportunity for all, we need to bring public and private partners together to achieve our common goals around housing affordability and choice."

-Portland Mayor Ted Wheeler



www.portlandoregon.gov/bps/equitablehousing



Goal 1

Commit early financial resources to address near-term housing crisis and long-term needs





Prevent residential and cultural displacement



Goal	3)
Gou	·)

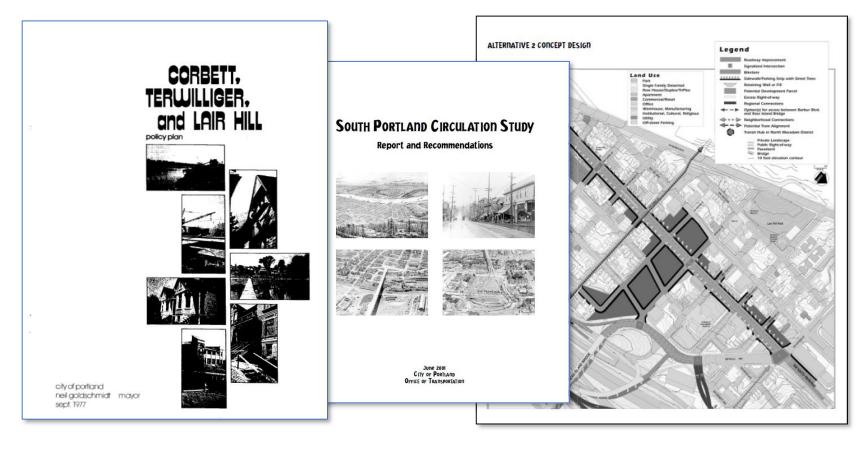
Increase choices for new homes for all household types and incomes

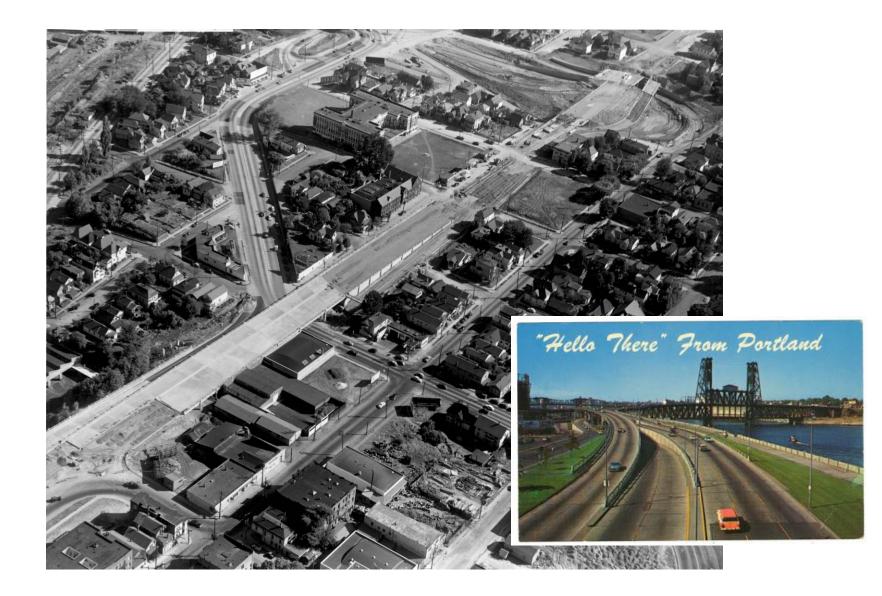


West Portland Town Center

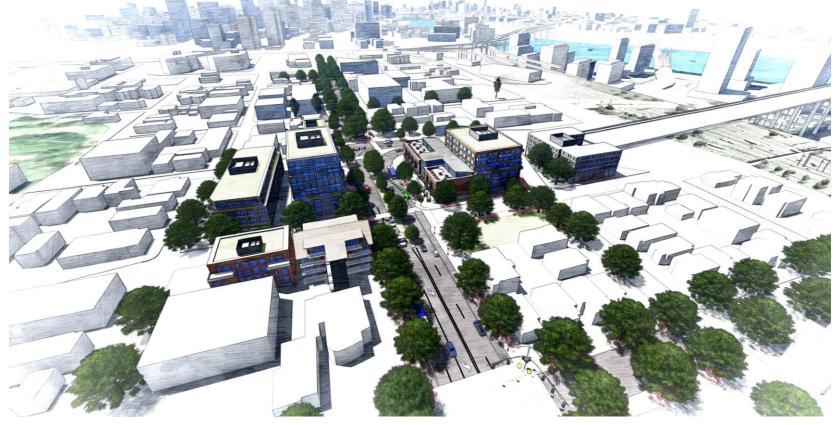


Ross Island Bridgehead





Ross Island Bridgehead



What's Next?

- Technical work and community engagement:
 - Urban design, Crossroads, Park & Rides, bike & pedestrian connections, Marquam Hill Connector, PCC bus shuttle, station areas
- CDR Conceptual Design Report

- FEIS Final Environmental Impact Statement:
 - traffic, historic, environmental, property analyses

 Updated cost estimates



Southwest Corridor Light Rail Project

Steering Committee Preferred Alternative Report

1. RECOMMENDATION

This report presents the Southwest Corridor Steering Committee's recommended Preferred Alternative for the proposed Southwest Corridor light rail project. The Preferred Alternative must include the transit mode (light)

Summary of

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Appendix A – Preliminary Work Plan Development

The following text is an initial set of interests that does not yet represent a finalized, consensus

agreement. Factors from public comments and federal environmental permitting needs must also be taken into account before the workplan is finalized.

Segment A – Issues to be addressed

The committee recommends the following design and planning efforts as the project proceeds:

- Work with FTA to determine which portions of the viaducts replacement are eligible for federal funding recognizing that some elements may become betterments to the transit project
- Develop construction sequencing that minimizes traffic impacts related to replacement of the viaducts and associated SW Capitol Highway (Highway 10) overpass
- Define bicycle and pedestrian improvements at the tie-in of light rail to existing infrastructure at SW 4th Avenue and SW Lincoln Street.
- Optimize designs for the light rail alignment tie-in to existing light rail tracks at SW 4th Avenue and SW Lincoln Street to ensure reliable light rail operations.
- Maximize speeds of buses and trains operating together on the shared transitway in South Portland.
- Initiate a planning process to select and refine a Marquam Hill connection design.

Continue traffic analysis with facus on but not limited to the South Dortland area

Work Plan

- Steering Committee directed
- Completes FEIS and project development phase
- See Exhibit A to resolution pg 18-20

Community Engagement

• Public meetings:

- Community Advisory Committee monthly; review and comment; receive testimony
- Steering Committee every other month; decision-making; receive testimony
- Community meetings for specific design questions
- Email; website; mailings
- Meetings with affected businesses and homeowners; transit rider outreach; engagement with community organizations, etc.

Community Engagement

Topics for near-term engagement (to inform Steering Committee decisions) include:

- Crossroads alignment
- Marquam Hill Connector
- Station locations
- Park & Ride location/sizes
- PCC Shuttle

Fall 2018 - Early 2019 Early 2019 - Spring 2019

Other concurrent engagement processes:

- Station area planning (BPS land use study)
- Ross Island Bridgehead concepts & design (BPS and PBOT)



Conceptual Design Report

INTERSTATE MAX CONCEPTUAL DESIGN REPORT AMENDMENT 2

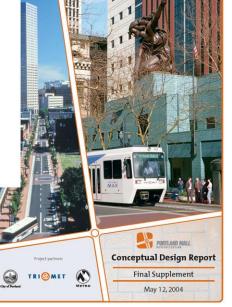


December 6, 2001



Portland Transportation





See Exhibit C of Resolution

Conceptual Design Report (CDR)

- What: Work Plan report Exhibits A & C
- Why: Illustrates design and how it addresses City priorities and community values.

Summarizes technical evaluations Addresses issues Directs future design work

Who: Community, City Commissions, Council

When: Draft CDR - Fall 2019 (public discussion draft) Final CDR - early 2020

Near-Term Topics

- Crossroads alignment
- Marquam Hill Connector
- PCC bus shuttle
- Park & Ride siting and sizes

Alignment at Crossroads

Steering Committee chose B2 & Taylors Fy (Refinement 2) Directed team to evaluate and Consider Smith alignment

Evaluation underway - Team has added: Smith modified alignment Collins alignment

Public Meetings to discuss: First was on 10/29 Next one early Dec and TBD January

Steering Committee selects alignment - early 2019

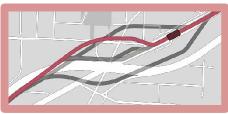


Crossroads Alignment Options:



Alternative B2

from Steering Committee



Refinement 2 (Taylors Ferry)

from Steering Committee



Smith

from neighbor suggestion



Smith Modified



developed by staff



Collins

developed by staff

What we've heard

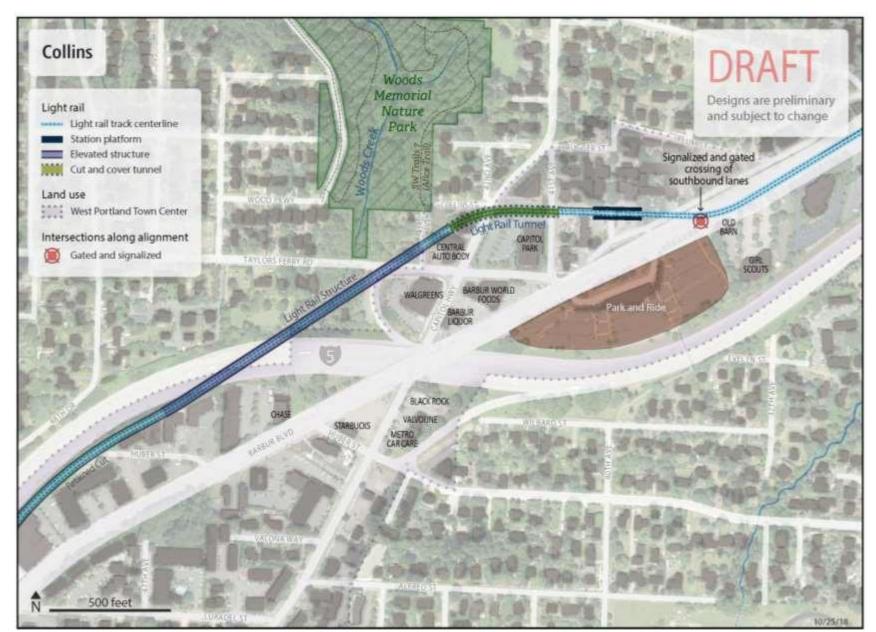
- Walking and biking
- Traffic congestion
- Park, trail, creek, vegetation impacts
- Property impacts
- Barbur World Foods
- Visual, noise, vibration impacts
- Vision for West Portland Town Center

Other technical considerations:

Travel timeCostSafetyTrack grades, curves, grades



Collins Alignment





Some Evaluation considerations

Draft Comparison of Crossroads Route Options -- October 29

		Alternative B2	Refinement 2	Smith	Smith Modified	Collins
		P	Ø	A March lings	Ø	P
isual	Light rail structures approximate total length and height at top of rail (images not to scale)	18 37 LANS	1,40y 75 75 76 76 76 76 76	17 Jang		1.100 41' 20' 25 10 0000 0000
Displacements	Residential	None	3 single-family residential units	None	None	5 residential units, including 2 single- family and 1 triplex
	Businesses ¹	25 businesses	28 businesses, incl. Barbur World Foods	15 businesses	13 businesses, incl. Barbur World Foods	14 businesses
	Employees ¹	197 employees	323 employees	63 employees	110 employees	64 employees
Park and natural environment	Woods Memorial Nature Park and SW Trails 7	No impact	Could increase noise and visual impact to Woods Memorial Nature Park. Would change SW Trails 7 access	No impact	No impact	Could increase noise and visual impact to Woods Memorial Nature Park. Would change SW Trails 7 access
	E-Zone impact ²	No	Yes	Yes (minor)	Yes (minor)	Yes
Station visibility and access	Station	Poor station visibility from Barbur	Station integrated with Barbur	Station integrated with Barbur	Station integrated with Barbur	Station integrated with streetscape, adjacent to Barbur
	Bus access to station	Direct at Barbur TC	Across 2 northbound Barbur lanes	Across 2 northbound Barbur lanes	Across 2 northbound Barbur lanes	Direct at station (north of Barbuz)
	Park and ride access to station	Direct at Barbur TC	Across 2 northbound Barbur lanes	Across 2 northbound Barbor lanes	Across 2 northbound Barbur lanes	Across Barbur
Walking and siking	Long crosswalks	No change to crosswalk length across Barbur at Capitol	No change to crosswalk length across Barbur at Capitol	Lengthens skewed crosswalks across Barbur at Capitol	Lengthens skewed crosswalks across Barbur at Capitol	No change to crosswalk length across Barbur at Capitol
and use	Redevelopment	Least supportive of redevelopment	More opportunities for redevelopment	More opportunities for redevelopment	More opportunities for redevelopment	Most opportunities for redevelopment
Auto traffic	Safety and circulation	Least traffic impact. One gated track crossing of Barbur (northbound)	Significant traffic impact. Safety and circulation concerns with gated track crossings of Capitol (both directions, at Taylors Ferry) and Barbur (southbound)	Most traffic impact. Safety and circulation concerns with gated track crossings of Capitol (both directions, at Barbur) and Barbur (southbound)	Most traffic impact. Safety and circulation concerns with gated track crossings of Capitol and Barbur (both directions), 41st (southbound), Taylors Ferry (eastbound)	Least traffic impact. One gated track crossing of Barbur (southbound)

1 Business and employee counts are estimated from Bureau of Labor Statistics data with field verification.

* E-Zones are the City of Portland's Environmental Overlay Zones, which are established to protect natural resources, minimize risk of damage to homes from natural heards, and mitigate the effects of dimate change. The acreage of impact includes a 50-faot construction buffer.

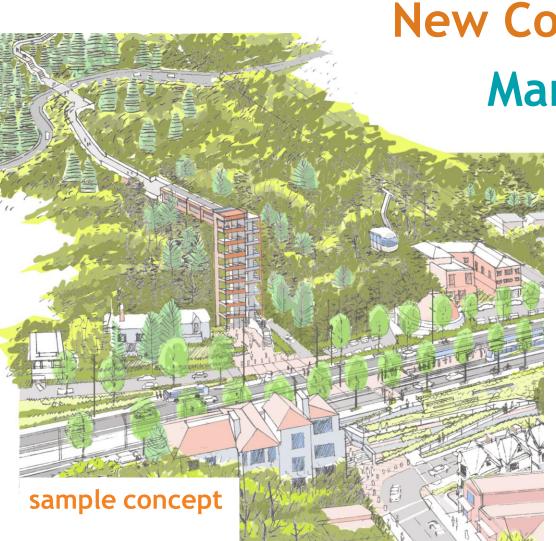
³ All options would add or replace sidewalks and bise facilities along streets that are rebuilt as part of the route.

Staff's Initial Impression

Alternative B2 and Collins have greatest potential for further evaluation

Biggest factors in staff's evaluation:

- 1. Crossroads bridge replacement
- 2. Barbur World Foods displacement
- 3. Traffic impacts



New Connection to Marquam Hill

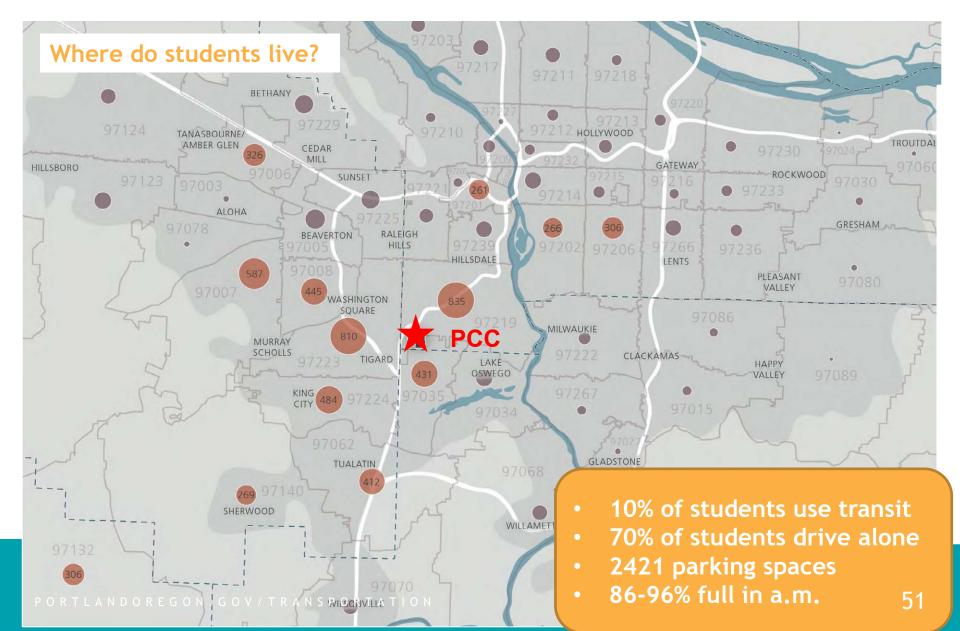
Gibbs station



Marquam Hill Connection - Process

- Community engagement & Stakeholder Committee
- Stakeholder Committee will be:
 - Friends of Terwilliger, neighborhood associations
 - OHSU
 - City bureaus (PPR, PBOT, BDS)
 - TriMet, Metro
- Committee will:
 - Define values (e.g., user experience, park impacts and accessibility, safety and security, etc)
 - Evaluate options considering regulatory framework
 - Recommend type to Steering Committee
- Type III Land Use Reviews (Design and Environmental)
- FEIS: 4(f), park, historic

PCC - Connections Needed

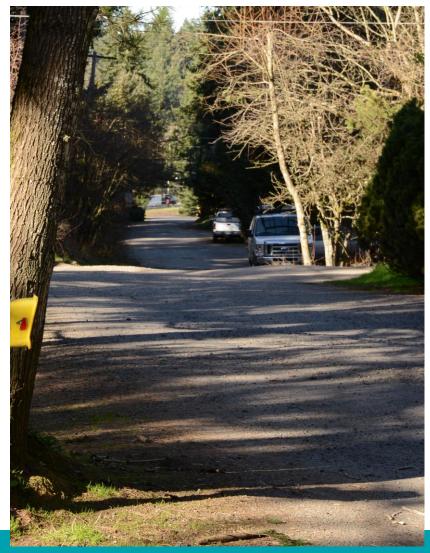


Evaluate Bus Shuttle Options



- Efficient connection to light rail
- Evaluate shuttle routes either:
 - Tigard-PCC-BTC loop or
 - SW 53rd
- Improve SW 53rd

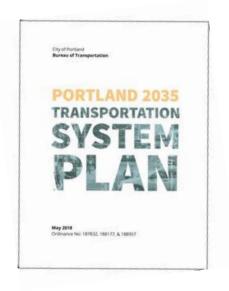
SW 53rd - street improvement



- ¼ mi to edge of campus
- Gravel road
- Park adjoins
- SW Trails access
- Retain gate at PCC



Park and Ride Evaluation



Park-and-Ride Facility:

"... A parking lot or structure in association with a light rail station, transit stop, or transit transfer point. Generally, park-and-rides should provide access to regional route service for areas not directly served by transit..."

Park and Ride Siting

DEIS studied numerous locations

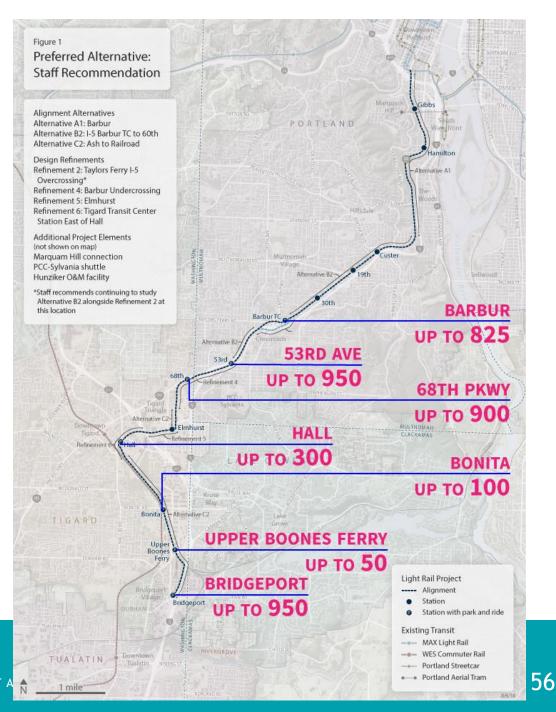
Wanted to i.d. all possible candidates at maximum size

Provided a conservative view of impacts

Now need to "right size" balancing ridership, cost, traffic impacts, land uses, bus transfer connections, and accessibility

DEIS evaluated these locations

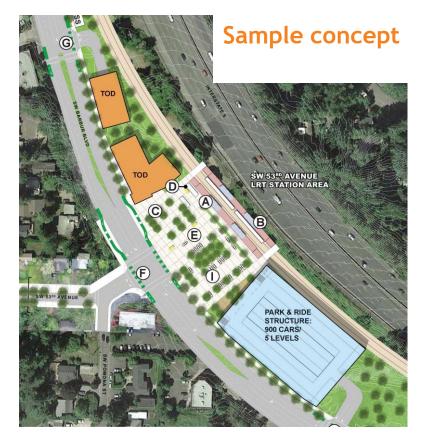
- Spread throughout alignment
- 7 possible sites
- Over 4000 spaces



P&Rs in Portland

Some considerations:

- LRT station layout
- Bus connections
- number of spaces
- Bike/ped access
- TOD potential



SW 53rd P&R

Barbur Transit Center



Other Activities in Support

- Jurisdictional Transfer
- Historic/cultural resources

Metro

City

- Landmarks Commission
- SHPO process
- LUFO is established

Metro

- Single land use action for LRT project; expedited appeal process created by state legislature (HB 3202)
- All prior LRT projects had their own LUFO
- Defines locations where project is located including stations, alignments, park and ride and connections
- Still subject to local land use approvals and permits

Historic Resources Metro-Led Process lasting 9-12 months

Concurrent steps for 4(f) and Section 106:

- Public process to gather information, discuss impacts to historic resources
- Determination of Eligibility and Finding of Effect for each individual resource prepared and submitted to SHPO
- Documentation of impact avoidance and minimization alternatives

Develop MOA between SHPO and FTA on how to resolve any adverse effects to historic resources

Today's Resolution

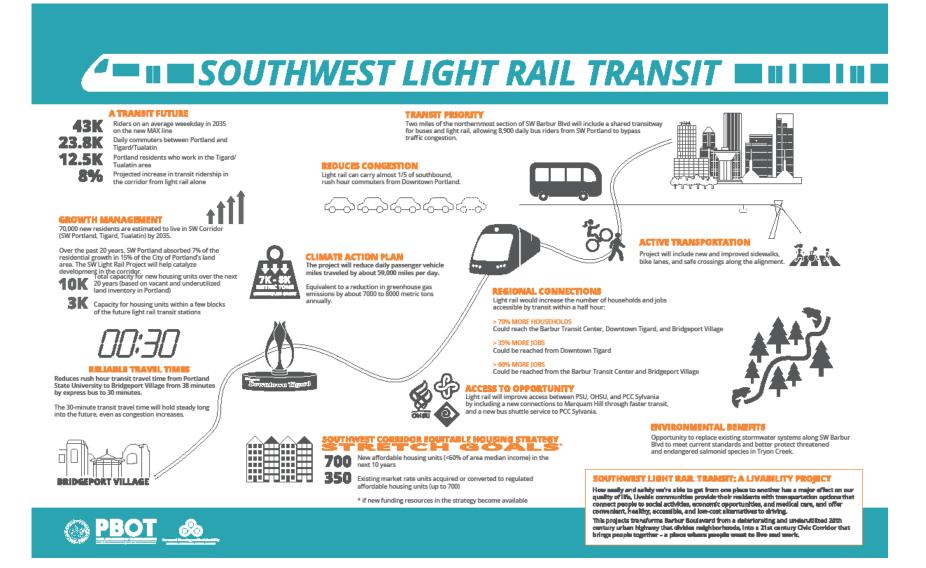
- Accepts Preferred Alignment and
- Directs:
 - Conceptual Design Report
 - Address Issues Raised
 - Implement Ross Island Bridgehead process
 - City Local Match financing strategy
 - Report on Affordable Housing

Invited Testimony

- Dr. David J. Schleich
- Rebecca Ocken
- Jason Franklin

- NUNM PCC PSU
- Margaux Macchiaverna VA
- Michael Harrison & Matt OHSU Hilton

Public Testimony



Council Discussion & Action

Questions?