

SOUTHWEST CORRIDOR LIGHT RAIL PROJECT

Steering Committee



June 10, 2019

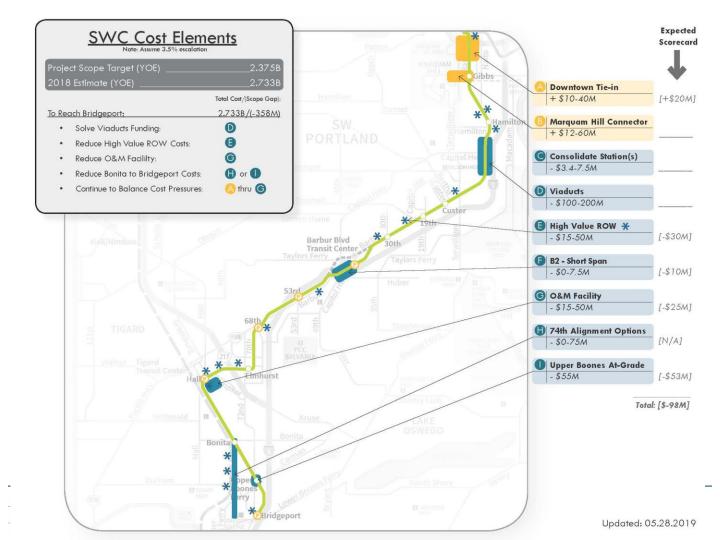


SOUTHWEST CORRIDOR LIGHT RAIL PROJECT

Steering Committee Minimum Operable Segment



June 10, 2019





Summer Next Full Project Estimate

September Project *Definition* for *Funding* that aligns with *budget*

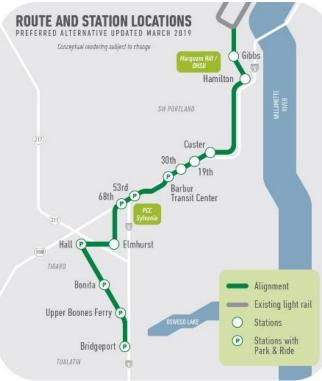
OngoingRefine estimates as
design progresses



MOS - Definition

Minimum Operable Segment

- Required by FTA
- A segment of the LPA that is most cost effective with greatest benefit
- Able to function as a stand-alone project





MOS - Guidelines

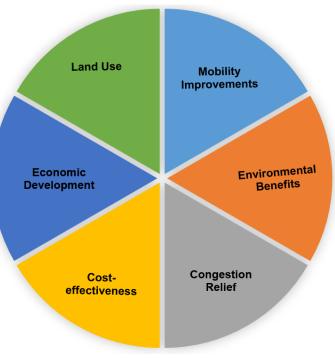
- Fit within \$2.375B target
- Be competitive for FTA funding
 - New Starts Capital Investment Grant
 - Discretionary funding cities across the county compete



FTA funding criteria

 Local commitment

 Project justification





MOS - Considerations

Potential Evaluation Considerations

Ridership	Cost Effectiveness
Access to Jobs	Bus Connections
Access to Affordable Homes	Extendability
Economic Development	Park and Ride
Others?	



Process

July Potential MOS options

September Select MOS within FEIS

Ongoing

Design and environmental study for MOS *and* full-length project





SOUTHWEST CORRIDOR LIGHT RAIL PROJECT

Steering Committee Marquam Hill Connector

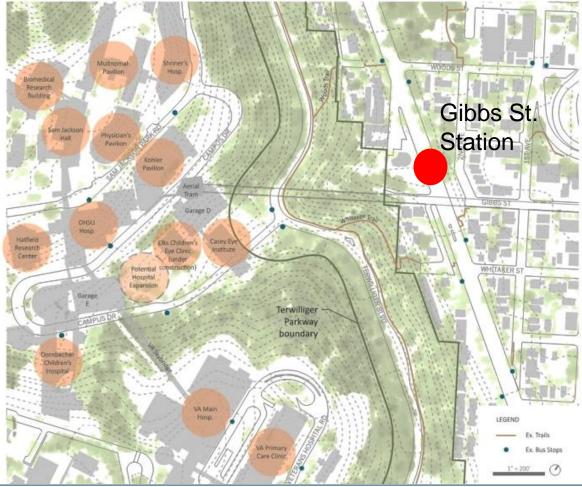


June 10, 2019

Marquam Hill Connector

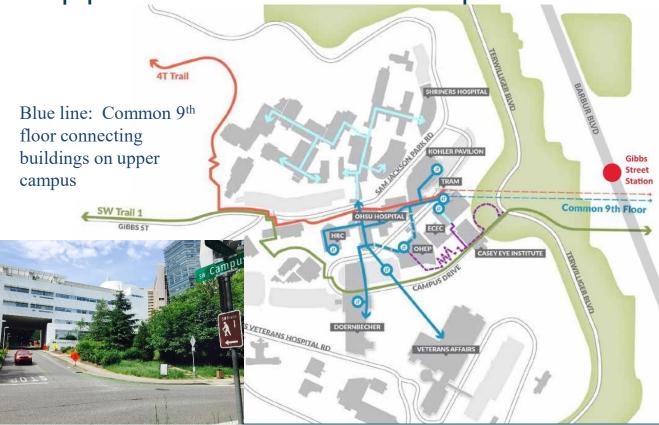








Upper Routes on Marquam Hill





Goals & Objectives

- Access: Develop equitable, efficient and convenient connections for all users to a number of destinations on Marquam Hill.
- Safety: Create a safe and secure, 24/7 connection for all users.
- Context: Enhance and improve the historic, scenic and recreational resources; consider the unique character of the area in the design.
- Environmental: Protect and enhance natural resources and habitat.



Goals & Objectives

- Operational: Provide a long-term, sustainable connection for current and future users.
- Budget/Schedule: Be cost effective and timely within the SW Corridor Light Rail project.
- Experience: Create a connection that provides a highquality user experience and inspires civic pride.



Public Process Review

- Open house
- Online open house
- Committee on Accessible Transportation
- Portland Design Commission briefing
- Portland City Council work session
- Green Ribbon Committee
 - February 23, March 13, April 10, May 8, June 5
- Community Advisory Committee
 - May 2, June 6
- Steering Committee Decision

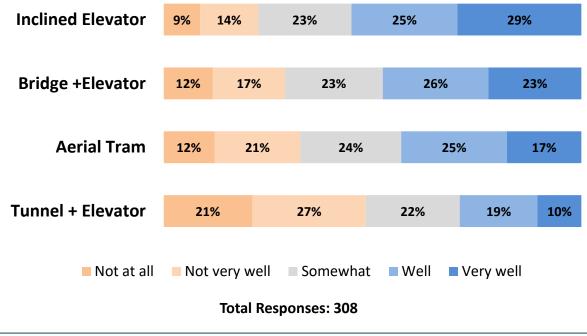
April 10 April 15 - 29 April 11 April 18 June 4

June 10



Open House Feedback

How well does the option meet the project goals?



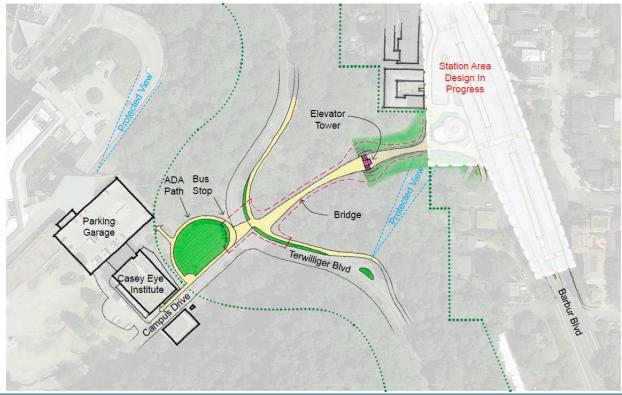


Options

Option	Rough Cost Estimate
Bridge + Elevator	\$15 – 25 million
Inclined Elevator (Funicular)	\$35 – 45 million
Aerial Tram	\$50 – 85 million
Tunnel + Elevator	\$55 – 125 million

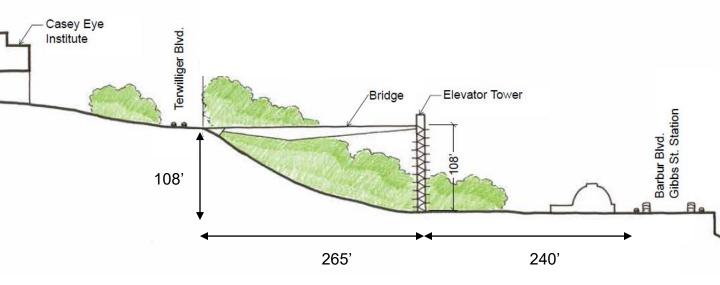


Bridge + Elevator





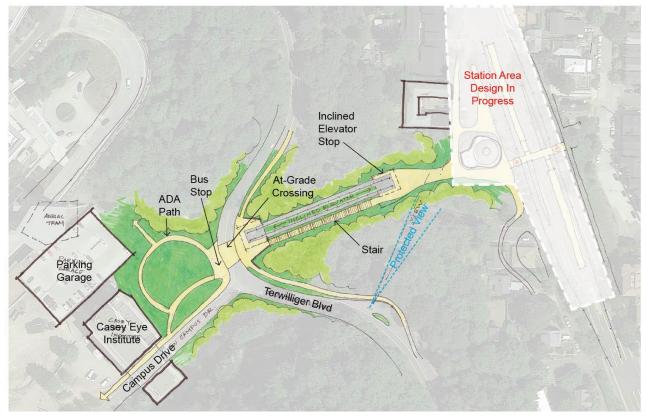
Bridge + Elevator



Travel Time to Terwilliger: 3-6 min

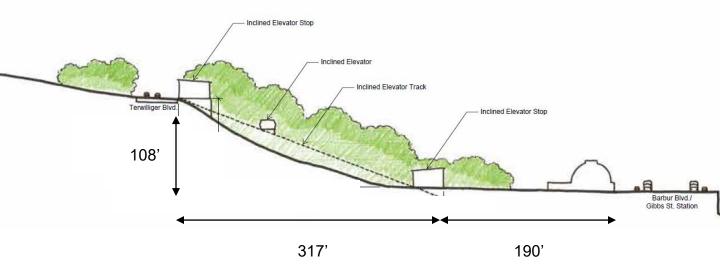


Inclined Elevator





Inclined Elevator



Travel Time to Terwilliger: 2-3 min



Estimated Capacity and Travel Time

	Inclined Elevator	Bridge + Elevator
Elevator Cycle Time (round trip, min)	2.3	1.5
Elevator Travel distance (ft)	108 vertical 317 horizontal	108 vertical
People/hour	2080	3200
Travel Time (Barbur to Terwilliger, min)	2 – 3	3 – 6

Assumes two, 40-person cabin elevators



Green Ribbon Committee

- Do not pursue aerial tram and tunnel
- Preference for inclined elevator
 - Current technology seems workable.
 - Poses least visual & environmental impact.
 - Safe, reliable, convenient, and accessible.
 - Serves riders well in all weather conditions.
 - Best option to encourage ridership.



Green Ribbon Committee

Inclined Elevator:

- Investigate landing and alignment alternatives to assess impact and costs.
- Explore public private partnership opportunities to address additional cost.
- General
 - Explore opportunities for placemaking.
 - Integrate elements to enhance historic Parkway.



Community Advisory Committee (CAC)

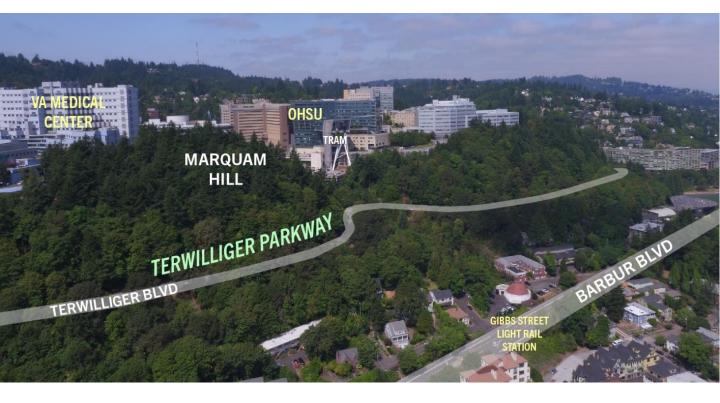
Continue further study of the Inclined Elevator and Bridge + Elevator

More detailed information:

- Cost
- Environmental and utility impacts
- Travel and wait times



Marquam Hill Connector







SOUTHWEST CORRIDOR LIGHT RAIL PROJECT

Steering Committee Station Access/ Park & Rides



June 10, 2019

Overview



EAT PLACES

- Connected Transportation
 - Station Access
- Revisit Park & Rides
- Online Outreach
 - Park & Ride
 - Scenarios



Ο

Connected Transportation Choices



orridor

- Light Rail
- Bus
- Westside Express Service
- Park & Ride



Image Source: Bruce Forster



Image Source: Bruce Forster



Image Source: Mayer/Reed

Connected Transportation Choices





Connected Transportation Choices

• Electric bikes, scooters & shuttles are being considered for connections to stations.

• Phone apps will make trip planning & fare payments simple & easy to use.



Image Source: TriMet

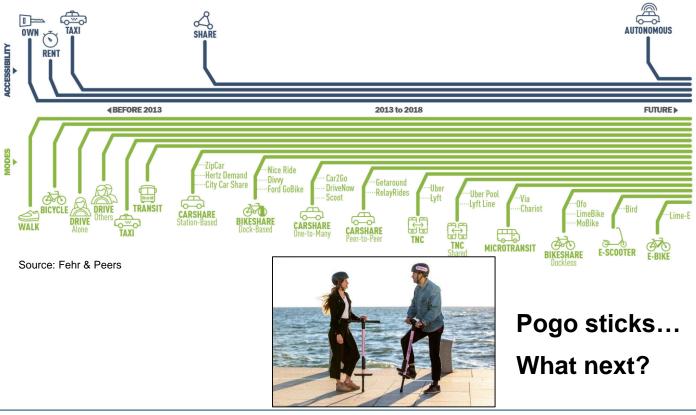




Image Source: TriMet

Image Source: TriMet







What strategies are other cities taking?



Seattle, WA



Denver, CO



Fort Collins, CO

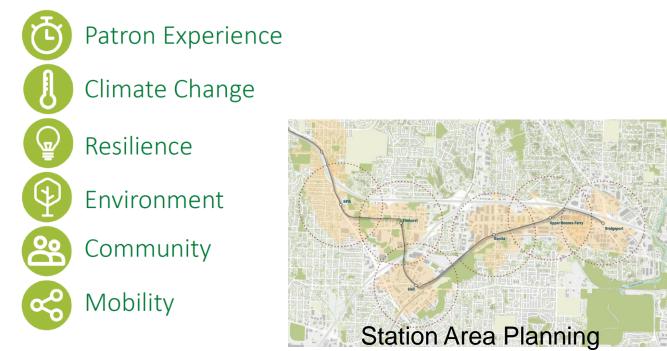


Los Angeles, CA

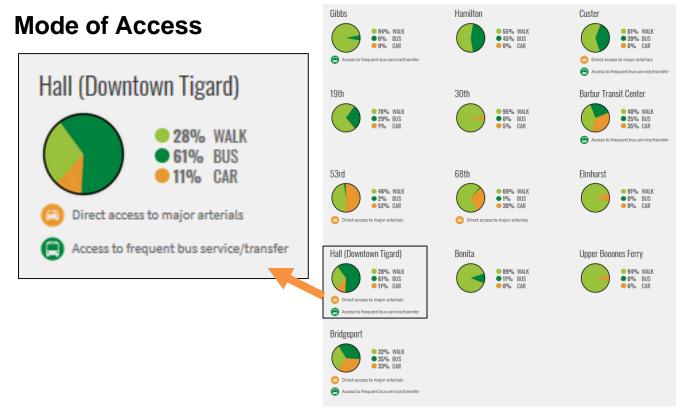




Conceptual Design Report (CDR)





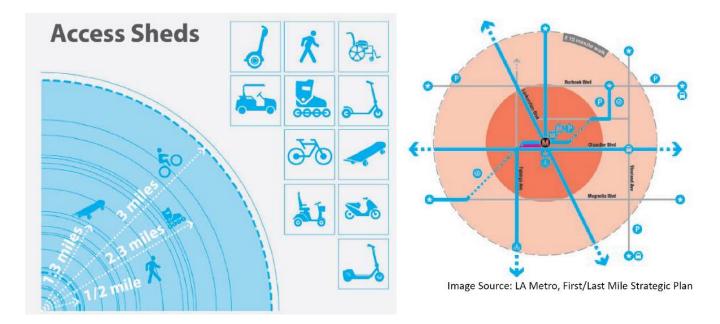






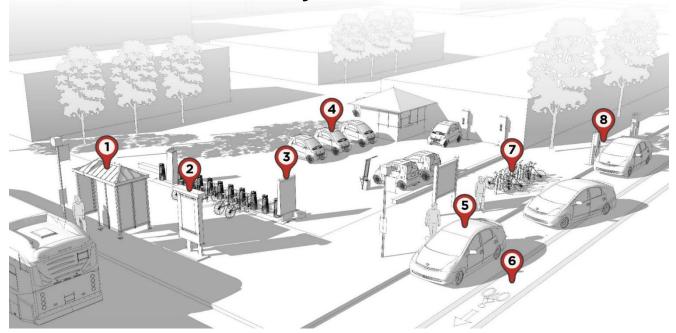








What is a Shared Mobility Hub?





Park & Rides

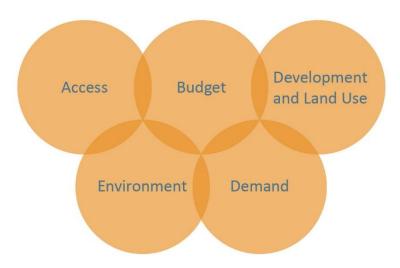
- Station access; bring riders from low density areas with limited mode options to high capacity stations
- Typically adjacent to arterials
- Surface lot or structure





Park & Rides

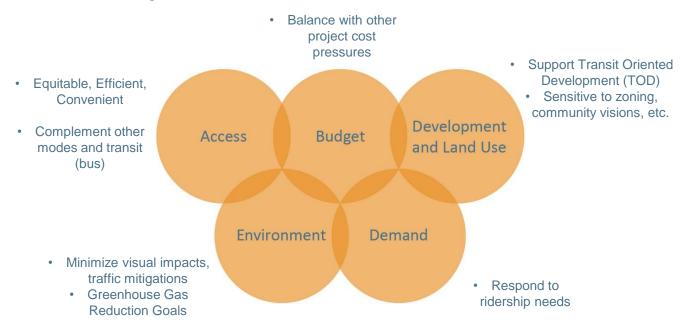
Goals & Objectives





Park & Rides

Goals & Objectives





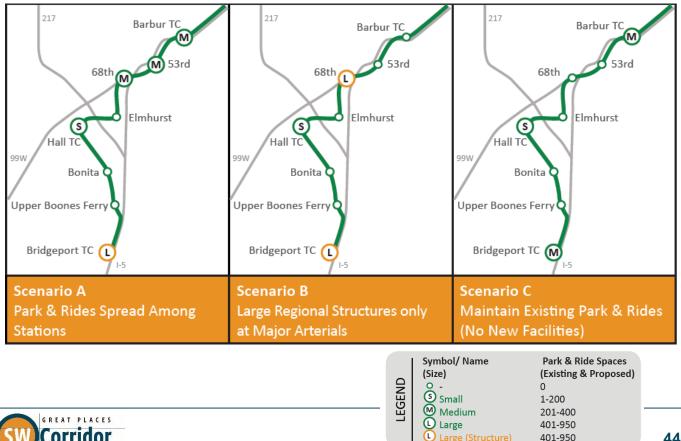
Park & Ride Criteria

Viable Park & Ride Locations

- ✓ Outside of Central City
- ✓ Land Availability
- ✓ Direct Access to Major Arterials
- Lack Access to Frequent Bus Service/ Transfer Opportunities



Park & Ride Scenarios



Online Engagement

SW)Corridor

OME STATIONS AND ROUTE GET INVOLVED LIBRARY



June 10 - 28th Help us spread the word! trimet.org/swcorridor



Next Steps

- <u>July</u>
 - Station Access/ Park & Ride (Update)
 - Conceptual Design Report (Intro)
 - MOS (Update)
- <u>August</u>
 - No Meetings
- September
 - Park & Ride (Recommendation/ Decision)
 - MOS (Recommendation/Decision)
- Ongoing
 - Conceptual Design Report / Station Access



Questions and Comments

Website: www.trimet.org/swcorridor Email: <u>swcorridor@trimet.org</u> Phone: 503.962.2150

