

### SOUTHWEST CORRIDOR LIGHT RAIL PROJECT

# **Community Advisory Committee**



June 6, 2019



### SOUTHWEST CORRIDOR LIGHT RAIL PROJECT

### Community Advisory Committee Minimum Operable Segment

June 6, 2019





#### Summer Next Full Project Estimate

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

OngoingRefine estimates as<br/>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

### Community Advisory Committee Marquam Hill Connector

June 6, 2019



## Marquam Hill Connector











## 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?





## TriMet Committee on Accessible Transportation (CAT)



Preferred options for use of mode, safety, connections and accessibility:

- Bridge + Elevator
- Inclined Elevator



## 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



## 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.



## Destinations on Marquam Hill





## Upper Routes on Marquam Hill





## Vertical Access Choices on Campus





## Capacity comparison

	Inclined Elevator to Casey Eye	Inclined Elevator to Terwilliger	Bridge + Elevator to Terwilliger	Aerial Tram to Campus/Sam Jackson	Tunnel to Campus/Sam Jackson
Capacity Assumption	2 40-person cabins			2 80-person cabins	2 40-person cabins
Total cabin round trip time (minutes)	3.5	2.3	1.5	6	2.9
People/hour	1360	2080	3200	1600	1600
Max load: Number of cycles	4 elevator cycles			2 tram cycles	4 elevator cycles
Max load: Max wait time (minutes)	3.5 - 5.5	2.3 - 3.5	1.5 - 2.3	3	2.9 - 4.3



## Green Ribbon Committee

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



## Further Considerations

Inclined Elevator:

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



## Marquam Hill Connector







### SOUTHWEST CORRIDOR LIGHT RAIL PROJECT

### Community Advisory Committee Station Access/ Park & Rides

June 6, 2019



# **Overview**



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



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## **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?





#### **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**

#### <u>Content</u>

- Station Access Overview
- Lessons Learned
- Project Considerations
- Station Considerations
- Park & Ride Scenarios
- Feedback & Comments

### June 10 - 28<sup>th</sup>

Available in English & Spanish Help us spread the word!



# **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**

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