

SOUTHWEST CORRIDOR LIGHT RAIL PROJECT

Community Advisory Committee December 5, 2019

Agenda

- Public comment
- Follow up on November 7
- Review CAC role and future topics
- Ridership modeling
- Terminus & Interim Terminus



Draft Recommendation-LPA

Move forward with **LPA**:

- Incorporate \$129m savings from scope refinements
- Incorporate \$240m additional funding
- Continue to minimize impacts and costs through design
- Continue funding discussions to close
 <\$100m gap





November 7 follow up

CAC had general consensus on draft recommendation

Interest in:

- Bike and walk infrastructure
- Interim Terminus
- Parking

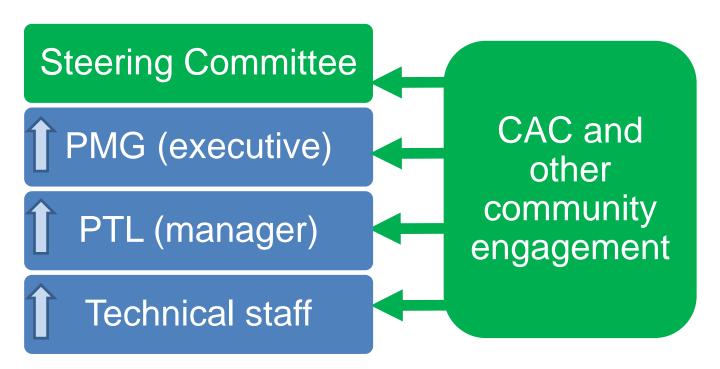


CAC Role

- Sounding board for design options
- Represent broader communities; help facilitate two-way communication
- Work together in good faith toward the best possible light rail project for the region

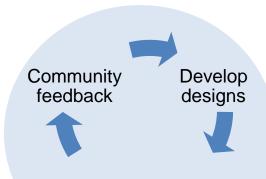


Decision-making





Project Development Phase



Technical review and cost estimates

2019-2020

- Respond to issues in DEIS; define mitigation in FEIS
- Refine project scope, cost
- Secure 30% of local funding
- Advance design to 30%



2020 CAC Topics

Future Topics:

- Preliminary design Conceptual Design Report
- SWEDS and affordable housing
- Ross Island Bridgehead, West Portland Town Center projects
- Park & Rides, mobility hubs
- Bike facilities
- Public private partnerships (P3)
- Bus network

Potential tours:

- MAX Orange Line
- Specific stations and transit oriented development
- Maintenance facilities





Transit Demand Modeling Overview Matt Bihn, Metro

December 5, 2019



Metro modeling

What is it used for?

- Regional Transportation Plan (RTP)
- Local transportation plans (TSPs)
- Corridor plans (like SW Corridor)
 - Information for the public and steering committee
 - Information for an Environmental Impact Statement
 - FTA New Starts application



Metro modeling What information is in the model?

Chief inputs:

- 1. Land use
- 2. Travel Propensities
- 3. Transportation supply
- 4. Costs



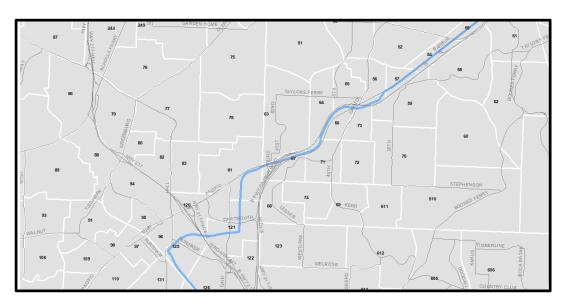
Land Use

- Land use projections developed at Metro and forecasts reviewed by local jurisdictions & adopted by Metro Council at least every 5 years
- 64 Household types (categorized by age, number of people, income)
- 9 employment types
- SW Corridor 2015 base year and 2035 horizon year (future) forecast



Land Use

 household and employment are distributed to 2,162 transportation analysis zones (TAZs)





Travel Propensities

- What kind of trips are people likely to make?
- 2011 Travel Behavior Study
 - Over 6,000 households surveyed
 - Questions focused on places:
 - "Where did you go next?"
 - "What did you do when you went there?"
 - Trip-making propensities matched to household profiles



Transportation supply

Roadway Network

Graphical representation of the RTP Financially Constrained roadway network – roadway links and nodes

- Capacities
- Number of lanes
- Speeds
- Link distances



Transportation supply

Transit network

RTP network with updates to reflect TriMet's SW Service Enhancement Plan.

- Light rail/ commuter rail/ streetcar/ bus/ tram
- Stations/ stops/ service frequencies
- Park and ride capacities



Costs

- Auto operating costs
- Transit fares
- Parking



Metro modeling

How does it forecast transit use?

4-step model:

- **1. Trip generation** how many trips and what types of trips from each TAZ?
- **2. Trip distribution** where do those trips go?
- 3. Mode choice drive? take the bus? bike?
- **4. Trip assignment** which route to take?



Metro modeling What information does it give us?

- 1. Ridership
- **2. Travel times** transit and auto travel times between specific destinations
- 3. Corridor transit service characteristics
 - Transit vehicle hours (bus and LRT)
 - Transit vehicle miles (bus and LRT)



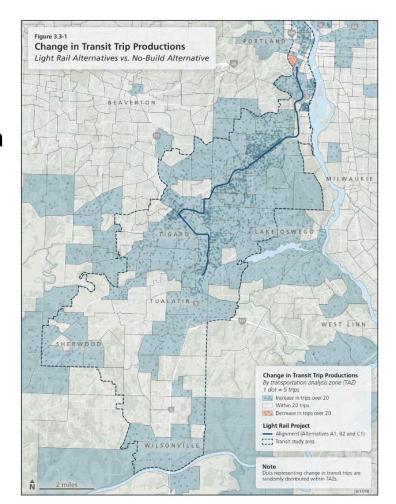
Metro modeling What information does it give us?

Ridership information includes:

- Daily Line riders how many people use the new light rail line, regardless of how far they ride
- Daily system riders all transit (LRT, bus, streetcar, etc) comparing build alternatives to No-build conditions
- Peak load point the busiest 1-hour location of the LRT line
- Station usage walk, transfer, and park and ride
- Corridor transit trips and mode share to Portland Central Business District – percentage of travelers use transit



 Transit trips produced by transportation analysis zone (TAZ)





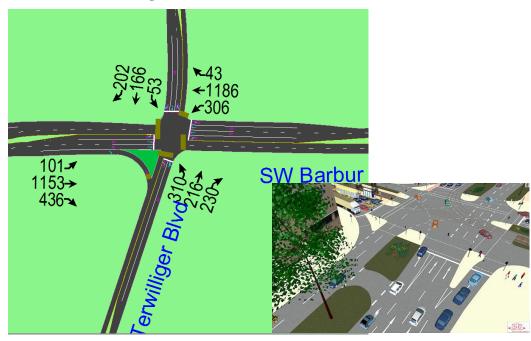
Auto performance outputs



- Auto volumes
- Vehicle miles and hours traveled
- Vehicle hours of delay



Auto performance



 Regional model outputs feed into traffic analysis and microsimulations



SOUTHWEST CORRIDOR LIGHT RAIL PROJECT

Terminus and Interim Terminus Scott Robertson, TriMet

Bridgeport terminus concept North Bridge CAR S Lower Boones 72nd Attributes: 3 tracks **Systems Building** DRAFT 12/4/19 Comm Building Breakroom GREAT PLACES Pedestrian Bridge

Identifying Interim Terminus (MOS)



Recommendation: **Upper Boones Ferry**

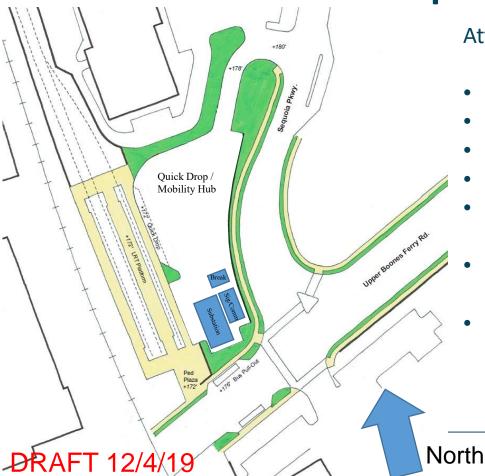
As far south as possible:

- Serves the most riders and reduces the most Vehicle Miles Traveled (VMT)
- Most competitive per FTA ratings





Interim terminus concept - UBF



Attributes:

- 3 tracks
- **Systems Building**
- **Comm Building**
- **Breakroom**
- Pick up/drop off area (likely no P&R)
- Bus pullouts on UBF
- Many refinements to explore if interim terminus actually moves forward



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trimet.org/swcorridor swcorridor@trimet.org 503.962.2150