New Mobility On A Regional LRT Project
Urbanism Next Workshop
Transit Agency Focus in an Era of New Mobility
March 6, 2018

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Why Southwest Corridor (SWC)?

It’s Growing!

There could be 340,000 residents in the Southwest Corridor by 2035–70,000 more than today.

255,000 people:
If all the people who work in the Southwest Corridor were their own city, they’d be bigger than Eugene.

swcorridorplan.org

swcorridorplan.org
High Demand!

AM Outflow = 47,000

AM Inflow = 84,000

Why SWC?

13-17 hours of congestion a day:
That's how bad traffic will be on Interstate 5 between Portland and Tigard in 2035.
swcorridorplan.org
Why SWC?

Connecting Place!
What is SWC?

SWC LRT

- 12 mi project
- In DEIS Phase
- LPA Fall 2018
- Open in 2027
- Fast, Direct
- Key Connections
DEIS Alignment Connections

- South Portland
- OHSU
- Burlingame
- Barbur TC
- PCC Sylvania
- Tigard Triangle
- Tigard TC
- Bridgeport Village
Purpose & Need Summary

The Core;
Fast, Reliable, Affordable Light Rail, to provide multimodal access, embrace opportunities, & support regional goals.

The Keys;

• Accommodate growth
• Cost-effective; Capital and O&M
• Multimodal access to existing amenities
• Safe & convenient connections to transit
• Support land use plans
• Foster opportunities; commercial & housing
• Help achieve the sustainability goals
Access to PCC

PCC Sylvania Campus

• 14,000+ full/PT students
• Vision
  • Shift Suburban to urban
  • Oregon Promise
• PCC’s shuttle
  • Sylvania; high demand
  • Expensive
  • LRT to replace?
• Most students drive alone

14,200 fall 2015 student headcount

5,360 students at Sylvania during a typical day
PCC bus hub concept

- Hub On Campus
- Reroute 5 bus lines
- Added Frequency
- Adds $5M+/yr ops
- Adds Capital $
- Adds Property impact
- Low benefits
  - Low LRT ridership
  - Some System ridership
  - Some redundancy to SEP
Another way?

No! - Tram, gondola, escalator, funicular, elevated PRT....

Yes! - AV Microtransit
• GM advocate
• AV shuttle
• Street improvements
  • Traffic calming
  • Bike & Ped
• No local access to PCC
• Lower Capital Costs
• Lower Ops cost
• Lower ROW impacts
• Higher ROI
• Improved ADA
• Opportunities:
  – Extend transit coverage
  – Connect facilities
  – New “Front door”
  – Support growth
  – Trail connections
  – Other destinations
Urban Street Grid

Transit Street
- Bus >100 Trips
- HCT <100 Trips

Non-Transit Street
- Walk 5-10%
- Bike 5-15%
- SOV 75-90%

Majority of streets dedicated to single person modes
- Add SAV 1-12 capacity transit to non-transit street
- Shared E-assist cargo bikes 1-4 person capacity
Lots Of Questions in 2016?

- Cost reductions?
- Safety?
- PCC or TM owned?
- Operational Oversight?
- Maintenance?
- Storage?
- Residential context?
- Policy support?
- Technical support?
- How/when to implement?
- Pilot project?
- Navigate regulatory hurdles?
- How do I fit more bullet points here?
Sustainable City Year Program

- Partnership;
- 2017-18 Academic year
- The next generation
- Sustainability and livability
- Build off Orange line success
- Multi-disciplinary; Expand Resources
- Student innovation & energy
- Real-world issues
- Outside the box; political & technical
SCYP- SWC Partnership

- Engage SWC partners & process
- Advance sustainability
- Define project; capture opportunities
- Identify return on investment
Project Categories

Types

• Placemaking
• Climate Change
• Community
• Urban Mobility

Stats to date:

• 17 total projects
• 275+ students
• 10 disciplines
Mobility Projects

- Autonomous Vehicles
  - Public Budget Impact
  - Parking/Curb Access
  - Policy
- Bike & Ped connections
- Bike Share & Microtransit
- New Mobility Ecosystem
- Transit App Design
Projects

New Mobility Ecosystem

Transit App features

• Acehopper; Events
• Moovit; Fares
• Citymapper; Multimodal
• Unique features:
  • Rain Safe
  • Calories, Trees, Money
  • Disabled options
  • Gamification
  • Rewards programs