PORTLAND • TIGARD • TUALATIN

SW Corridor Light Rail Project

New Mobility On A Regional LRT Project

Urbanism Next Workshop

Transit Agency Focus in an Era of New Mobility

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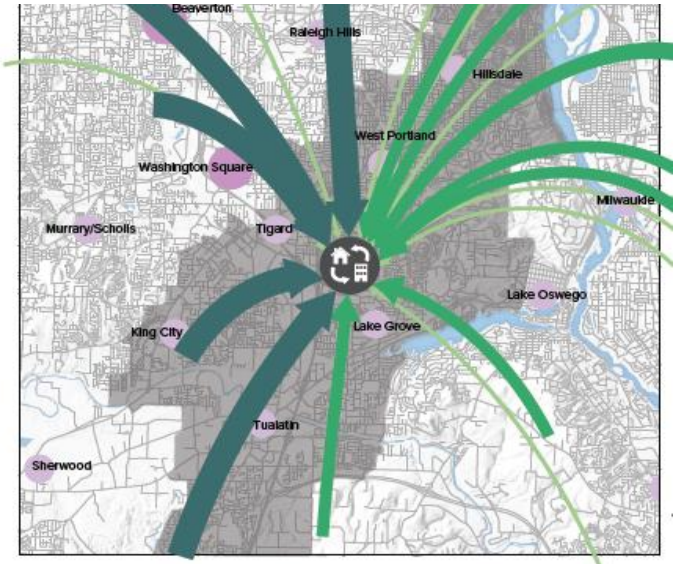
Why Southwest Corridor (SWC)?

It's Growing!

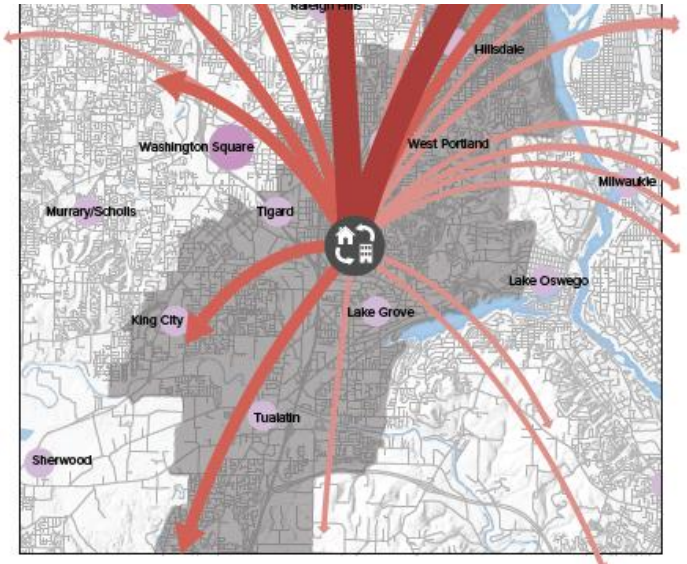
Why SWC?

High Demand!

AM Outflow = 47,000

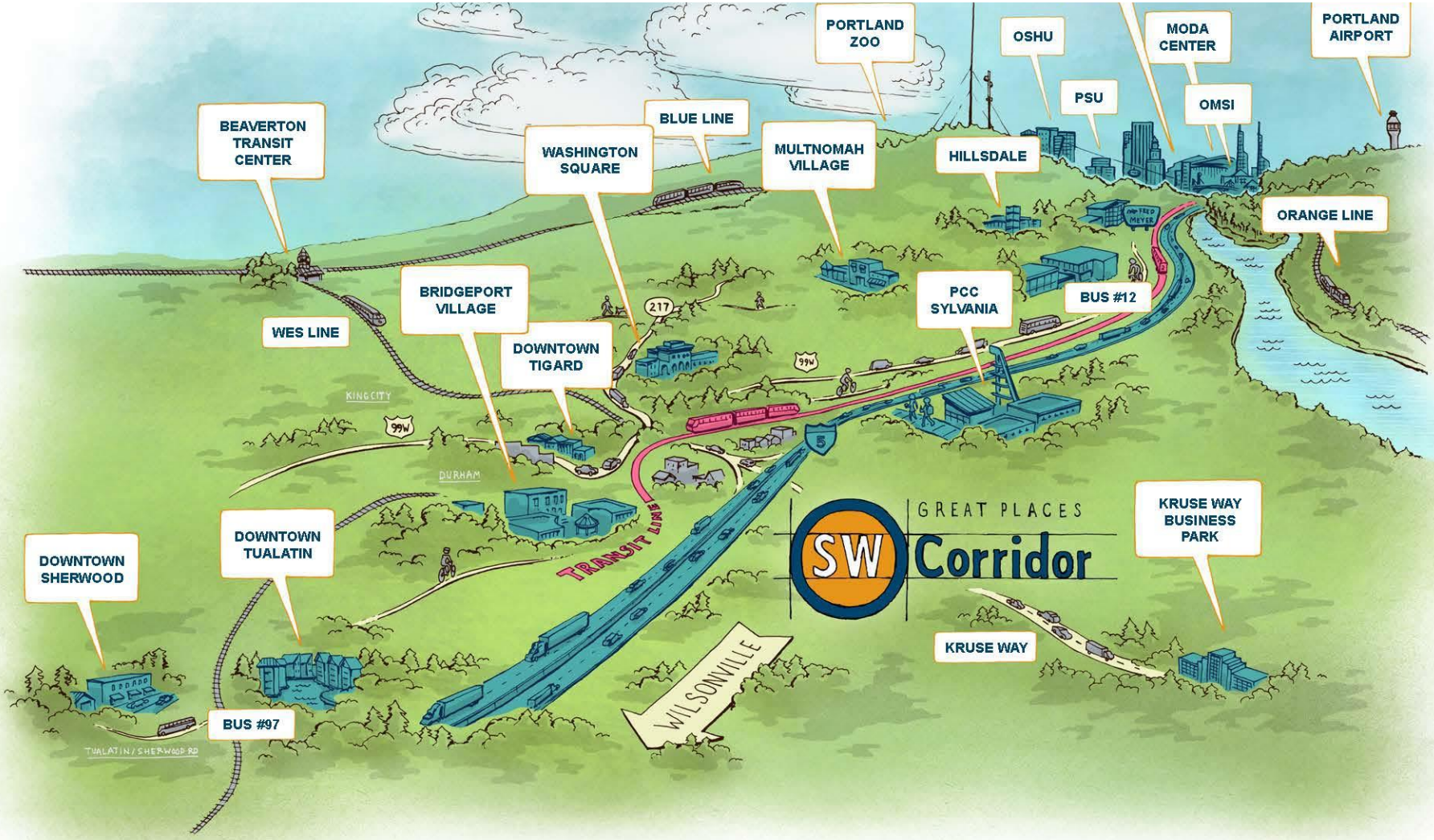


AM Inflow = 84,000



Why SWC?

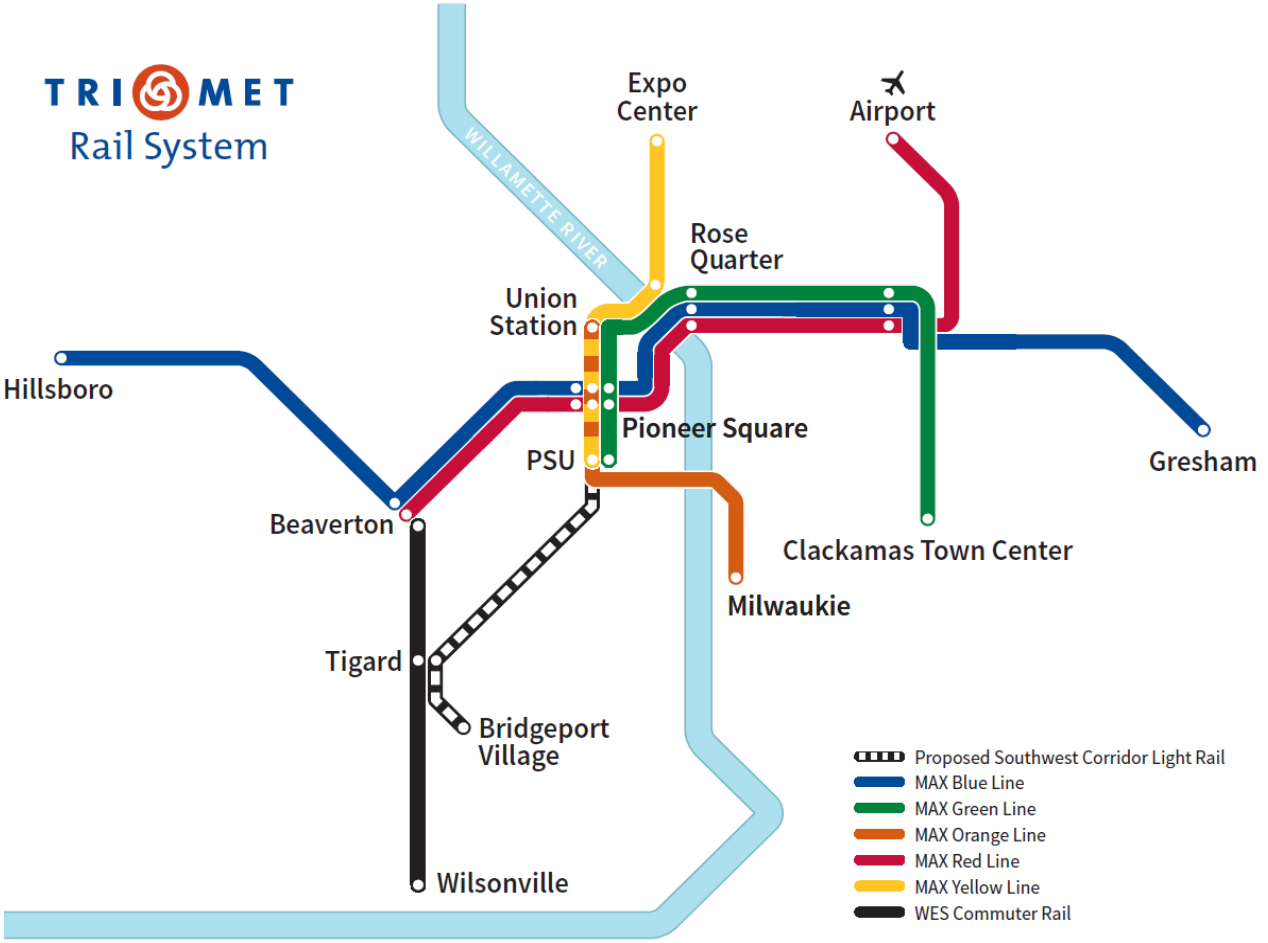
Connecting Place!



What is SWC?

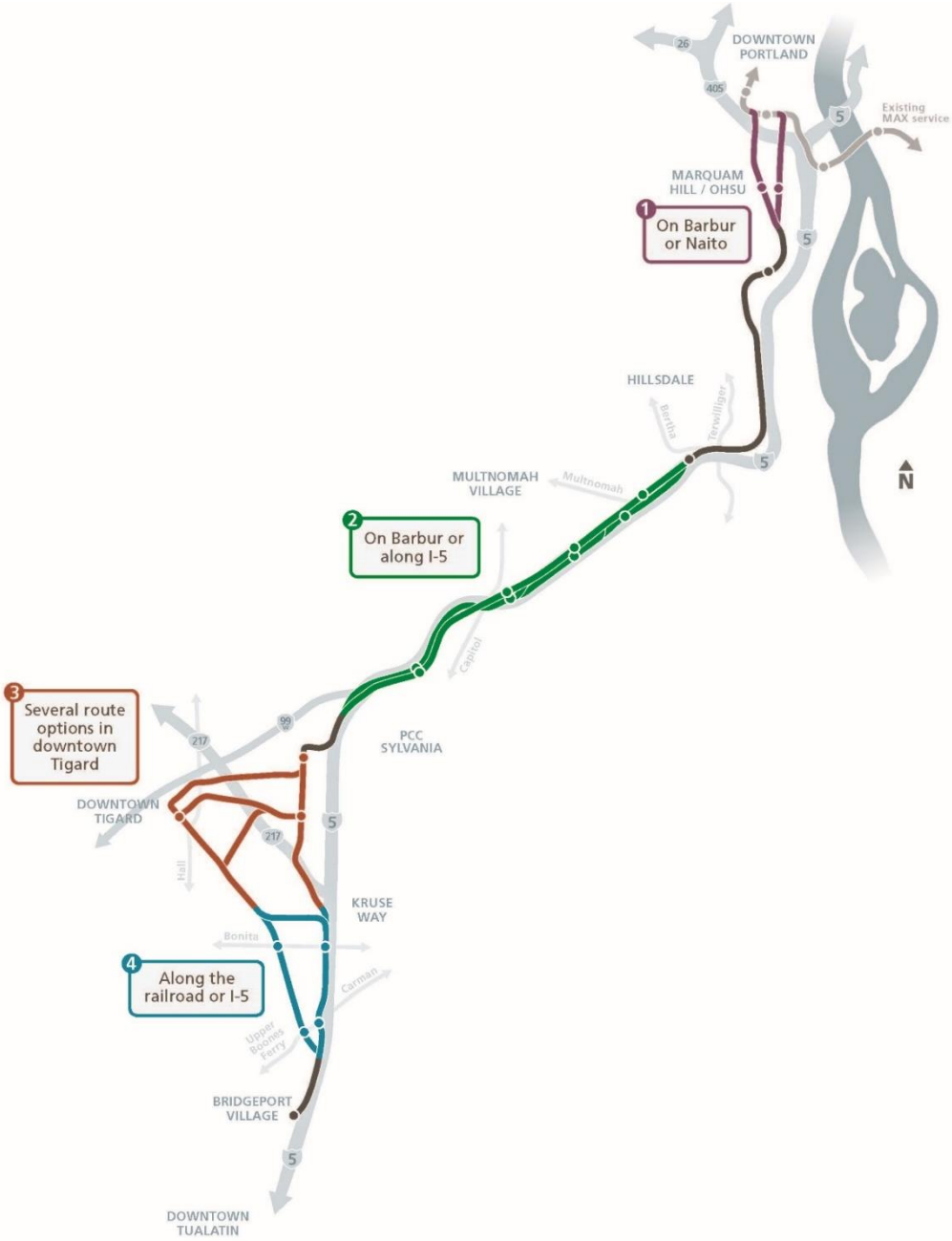
SWC LRT

- 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

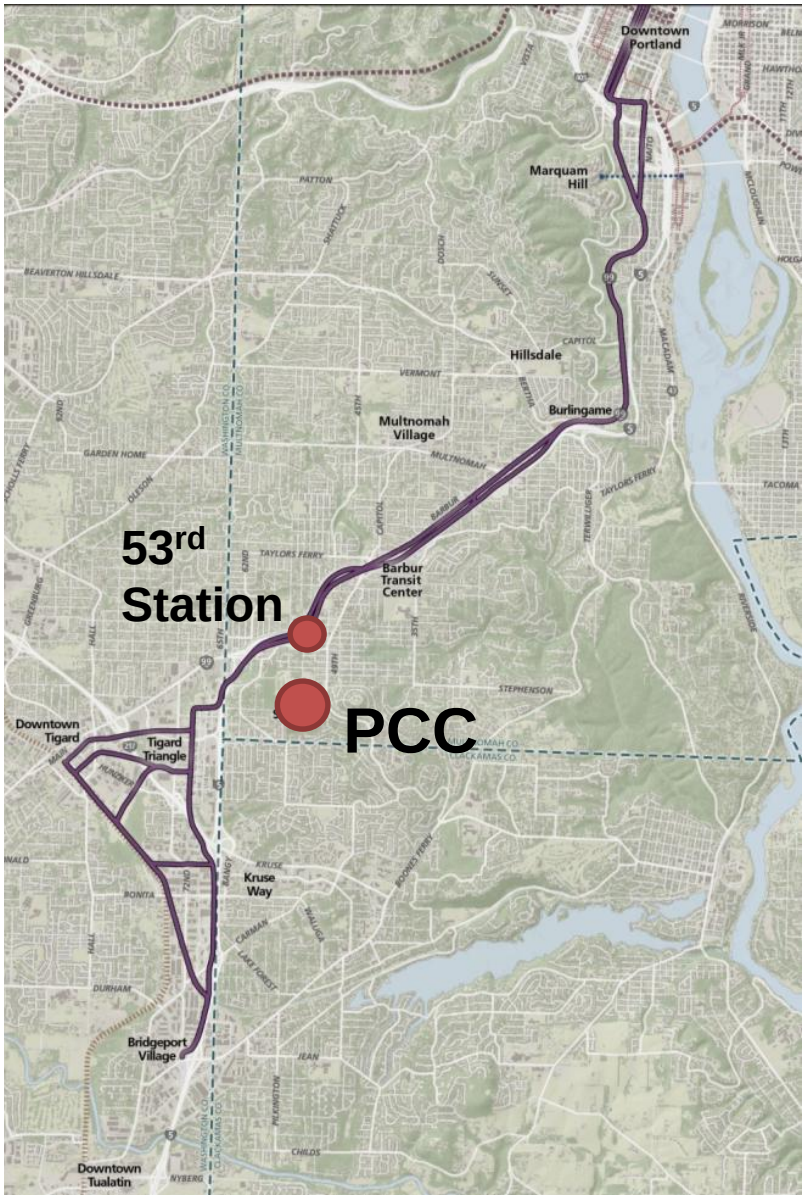
Access to PCC

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

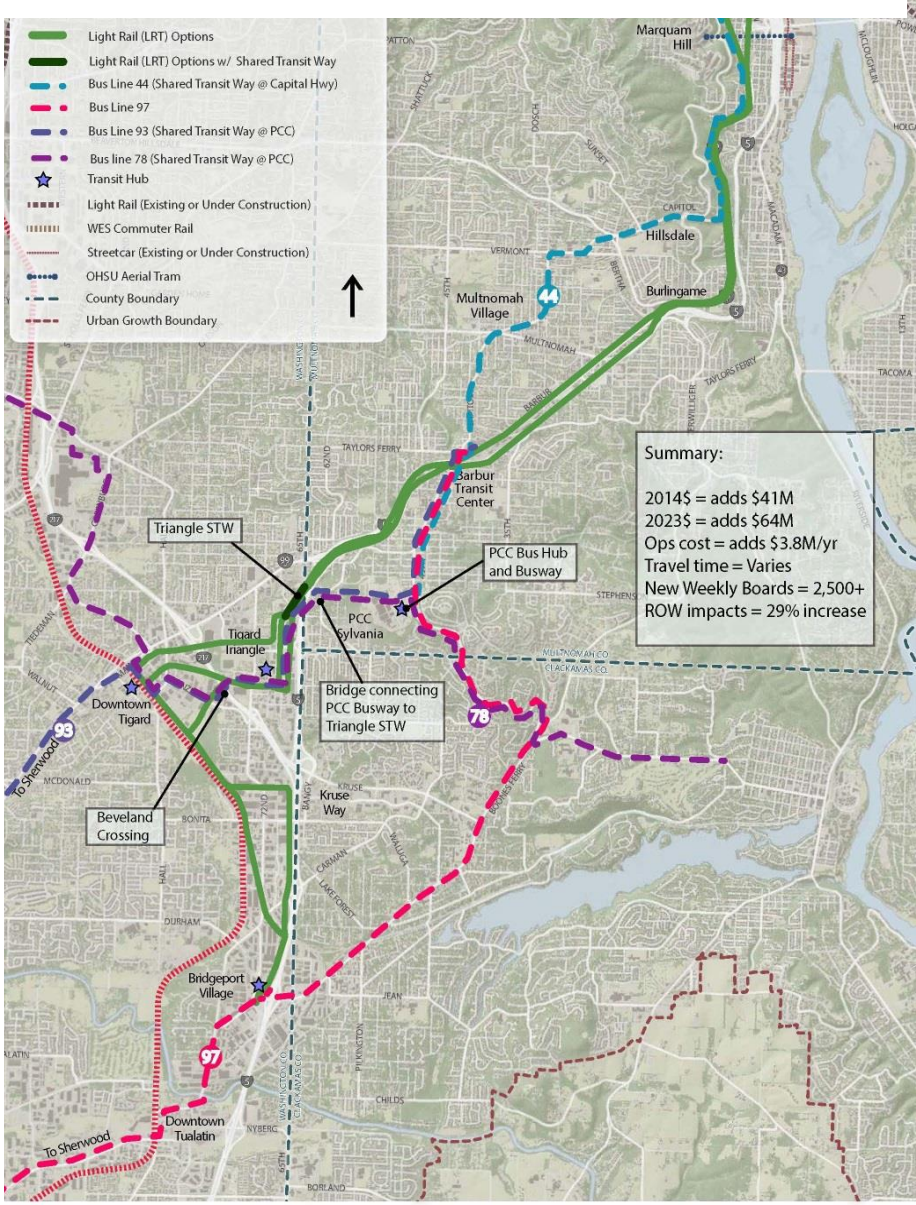
14,200 *fall 2015 student headcount*

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



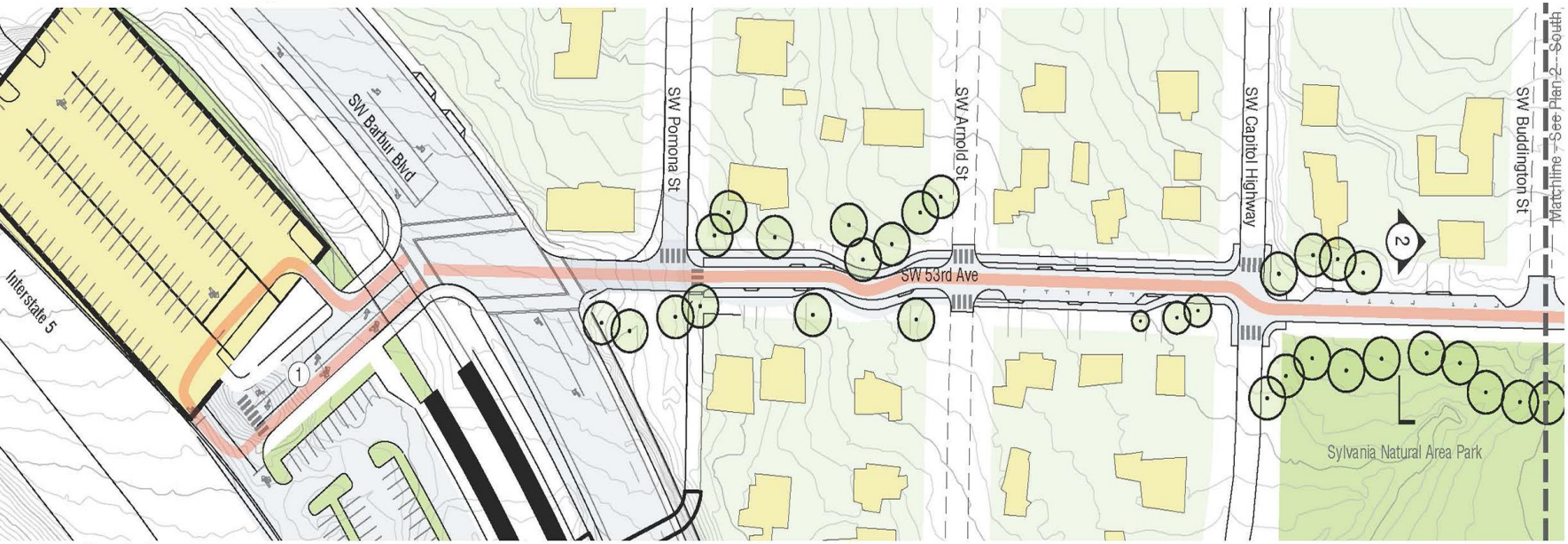
Another way?

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

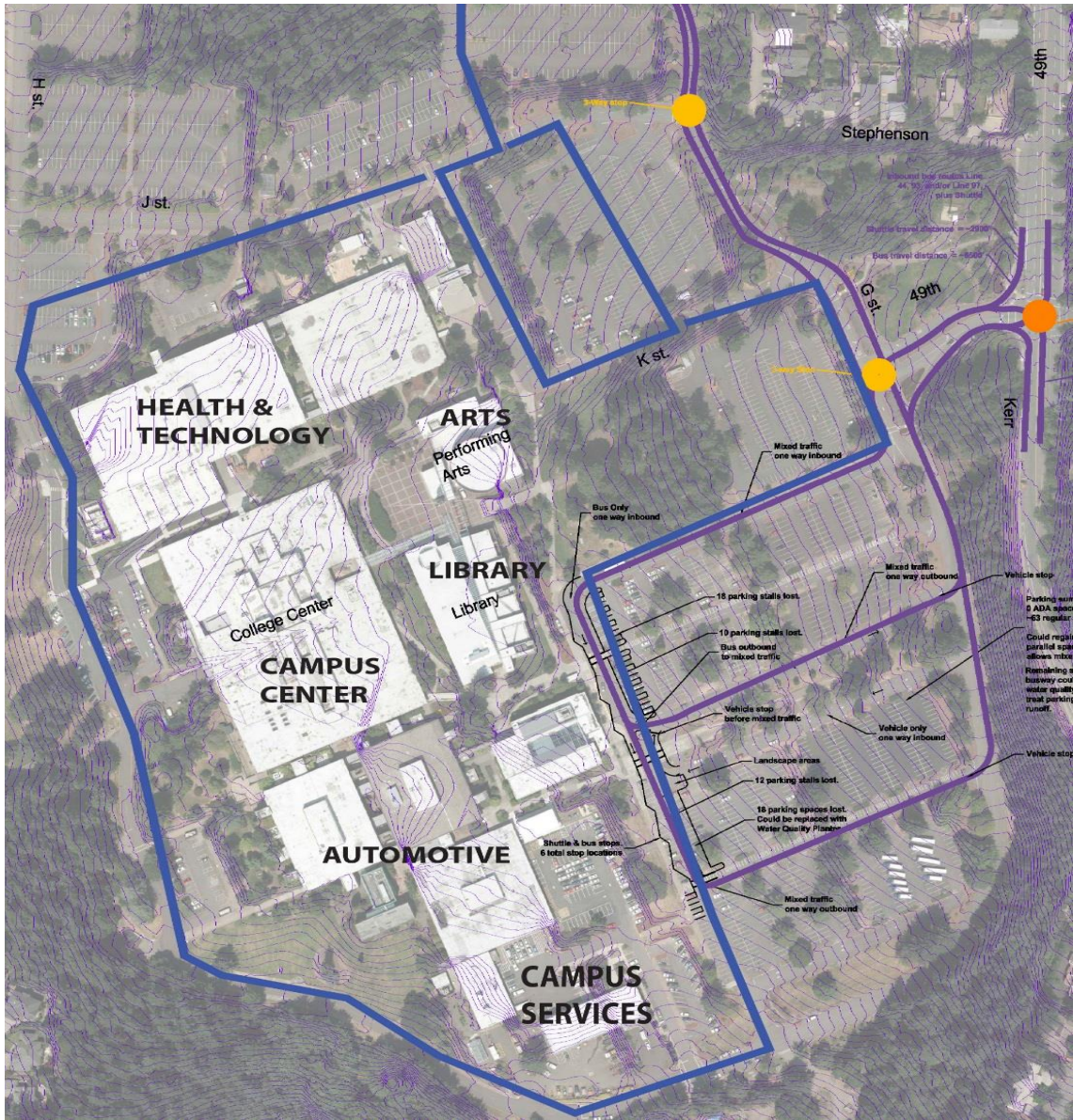
Station to PCC via 53rd Ave



Park Shuttle Plan - North

Campus Circulator

- 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



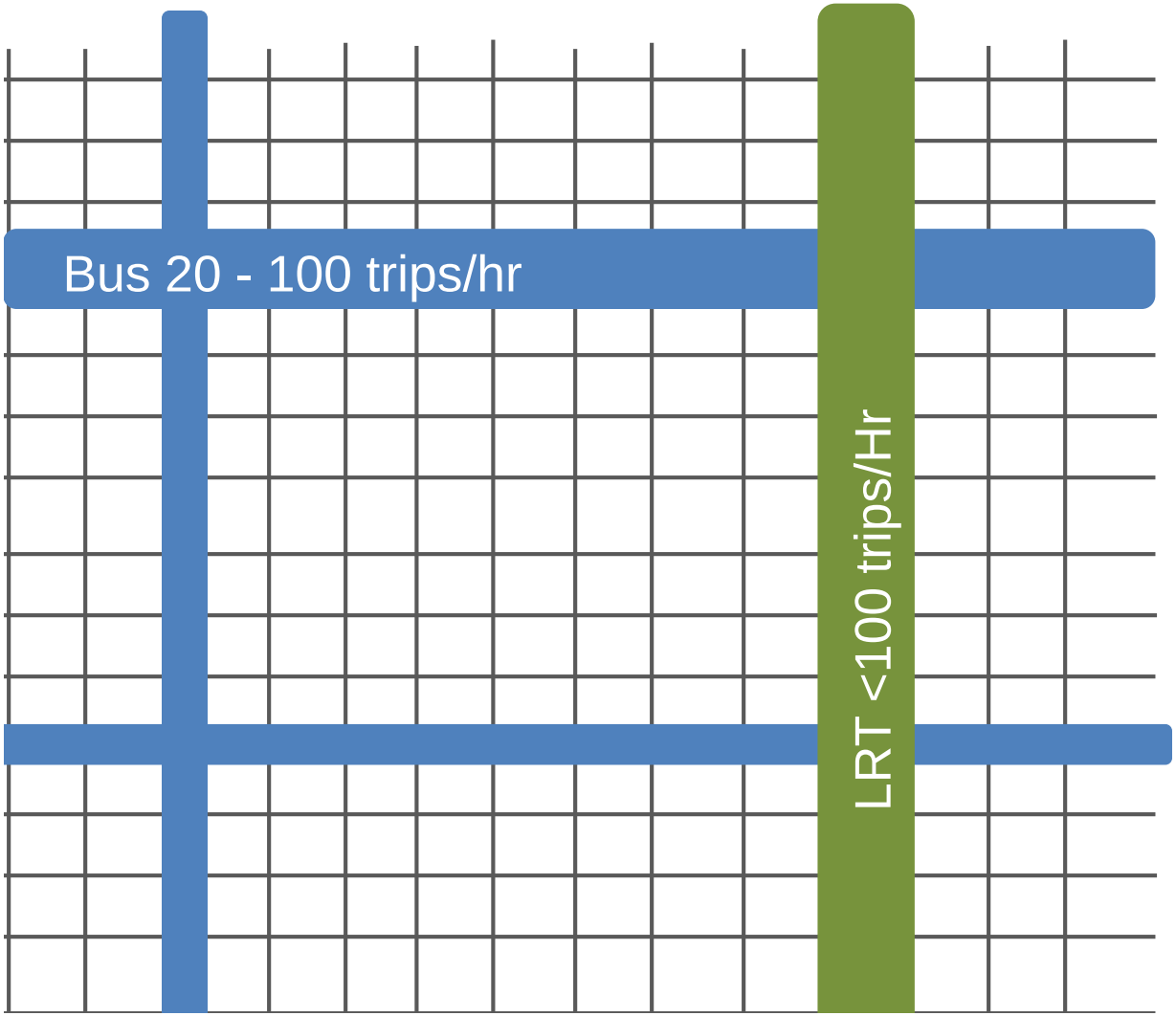
Urban Street Grid

Transit Street

- Bus >100 Trips
- HCT <100Trips

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?

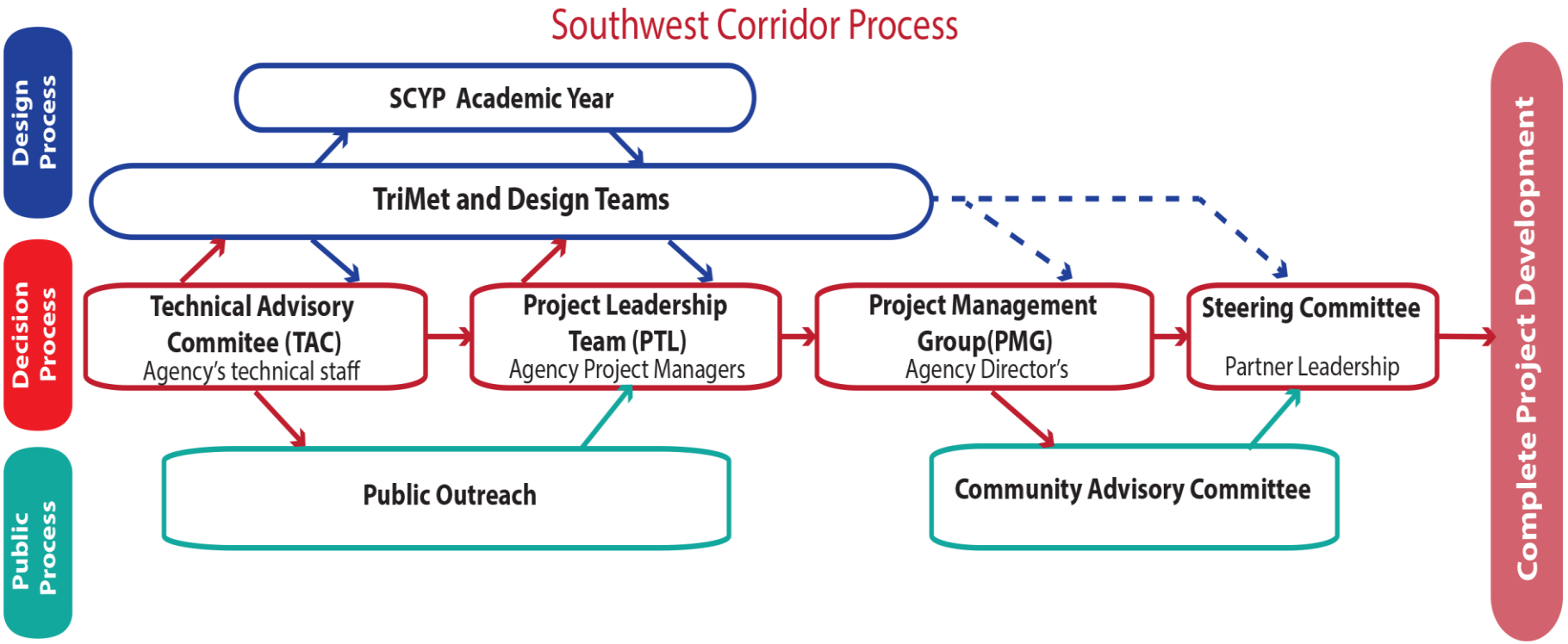
- Cost reductions?
- Safety?
- PCC or TM owned?
- Operational Oversight?
- Maintenance?
- Storage?
- Residential context?
- Policy support?
- Technical support?
- How/when to implement?
- Pilot project?
- Navigate regulatory hurdles?
- How do I fit more bullet points here?

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

Projects

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

TriMet Transit App Project