

Agenda



Metro

600 NE Grand Ave.
Portland, OR 97232-2736

Meeting: Transportation Policy Alternatives Committee (TPAC) Workshop
Date: Wednesday, January 11, 2023
Time: 9:00 a.m. to 12:00 p.m.
Place: Virtual meeting held via Zoom
[Connect with Zoom](#)
Passcode: 810060
Phone: 888-475-4499 (Toll Free)

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| 9:00 a.m. | Call meeting to order and Introductions <ul style="list-style-type: none">• Committee input on creating a Safe Space at TPAC | Vice Chair Leybold |
| 9:10 a.m. | Committee & Public communications on agenda items | |
| 9:15 a.m. | Consideration of TPAC workshop summary, Nov. 9, 2022 Edits/corrections sent to Marie Miller | Vice Chair Leybold |
| 9:20 a.m. | High Capacity Transit Strategy Update: Corridor Investment Readiness Tiers Purpose: Provide an update and seek feedback on the work done to date with partners to revise the draft policy framework, re-envision the network, and identify corridor investment priorities, as well as talk about next steps for identifying community priorities and readiness considerations and developing the report for this key policy focus area for the 2023 Regional Transportation Plan (RTP) Update. | Ally Holmqvist, Metro |
| 10:05 a.m. | Cascadia Corridor Ultra High Speed Ground Transportation: Overview and Update Purpose: Provide an overview of the Cascadia Corridor Ultra-High-Speed Ground Transportation Project and provide a progress report on the work done to date to initiate the program and complete the activities identified in the Memorandum of Understanding signed by Governor Brown, Governor Inslee and Premier Horgan (Province of British Columbia) on November 16, 2021. | Ally Holmqvist, Metro Jennifer Sellers, ODOT Jason Beloso, WSDOT |
| 10:50 a.m. | Committee comments on creating a safe space at TPAC | Vice Chair Leybold |
| 10:55 a.m. | Adjournment | Vice Chair Leybold |

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Ogeysiiska takooris la'aanta ee Metro

Metro waxay ixtiraamtaa xuquuqda madaniga. Si aad u heshid macluumaad ku saabsan barnaamijka xuquuqda madaniga ee Metro, ama aad u heshid warqadda ka cabashada takoorista, booqo www.oregonmetro.gov/civilrights. Haddii aad u baahan tahay turjubaan si aad uga qaybqaadatid kullanka dadweyne, wac 503-797-1700 (8 gallinka hore illaa 5 gallinka dambe maalmaha shaqada) shan maalmo shaqo ka hor kullanka si loo tixgaliyo codsashadaada.

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សេចក្តីជូនដំណឹងអំពីការមិនរើសអើងរបស់ Metro

ការគោរពសិទ្ធិពលរដ្ឋរបស់ ១ សំរាប់ព័ត៌មានអំពីកម្មវិធីសិទ្ធិពលរដ្ឋរបស់ Metro ឬដើម្បីទទួលបានពាក្យបណ្តឹងរើសអើងសូមចូលទស្សនាគេហទំព័រ www.oregonmetro.gov/civilrights។ បើលោកអ្នកត្រូវការអ្នកបកប្រែភាសានៅពេលអង្គប្រជុំសាធារណៈ សូមទូរស័ព្ទមកលេខ 503-797-1700 (ម៉ោង 8 ព្រឹកដល់ម៉ោង 5 ល្ងាច ថ្ងៃធ្វើការ) ប្រាំពីរថ្ងៃ ថ្ងៃធ្វើការ មុនថ្ងៃប្រជុំដើម្បីអាចឲ្យគេសម្រួលតាមសំណើរបស់លោកអ្នក ។

إشعار بعدم التمييز من Metro

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Metro txoj kev ntxaug daim ntauw ceeb toom

Metro tributes cai. Rau cov lus qhia txog Metro txoj cai kev pab, los yog kom sau ib daim ntauw tsis txaus siab, mus saib www.oregonmetro.gov/civilrights. Yog hais tias koj xav tau lus kev pab, hu rau 503-797-1700 (8 teev sawv ntxov txog 5 teev tsaus ntuj weekdays) 5 hnub ua hauj lwm ua ntej ntawm lub rooj sib tham.

2023 TPAC Work Program

As of 12/29/2022

NOTE: Items in italics are tentative; bold denotes required items

All meetings are scheduled from 9am - noon

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| <p><u>TPAC meeting January 6, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none">• Committee member updates around the Region (Chair Kloster & all)• Monthly MTIP Amendments Update (Ken Lobeck)• Fatal crashes update (Lake McTighe)• 2023 RTP Call for Projects: Jan. 6 to Feb. 17 (Kim Ellis)• Committee input on Creating a Safe Space in 2023 – Protocols and Democratic Rules (Chair Kloster) <p>Agenda Items:</p> <ul style="list-style-type: none">• MTIP Formal Amendment 23-5308 <i>Recommendation to JPACT (Lobeck, 10 min)</i>• Earthquake Ready Burnside Bridge Resolution 23-5306 <i>Recommended to JPACT (Alex Oreschak, Metro/ Megan Neill, Multnomah County; 30 min)</i>• Carbon Reduction Program Update (Leybold/Cho/ Ellis, Metro; 60 min)• Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | <p><u>TPAC workshop, January 11, 2023</u></p> <p>Agenda Items:</p> <ul style="list-style-type: none">• High Capacity Transit Strategy Update: Corridor Investment Readiness Tiers (Ally Holmqvist, Metro; 45 min)• Cascadia Corridor Ultra High Speed Ground Transportation: Overview and Update (Ally Holmqvist, Metro/ Jennifer Sellers, ODOT/ Jason Beloso, WSDOT; 45 min) |
| <p><u>TPAC meeting, February 3, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none">• Committee member updates around the Region (Chair Kloster & all)• Monthly MTIP Amendments Update (Ken Lobeck)• Fatal crashes update (Lake McTighe)• 2023 RTP Call for Projects (Kim Ellis) <p>Agenda Items:</p> <ul style="list-style-type: none">• MTIP Formal Amendment 23-XXXX <i>Recommendation to JPACT (Lobeck, 10 min)</i>• MTIP Formal Amendment I-5 Rose Quarter Discussion (Lobeck; 15 min)• I-5 Rose Quarter Project Briefing (Megan Channell, ODOT; 30 min)• Carbon Reduction Program – Introduce Allocation Proposals (Leybold/Cho/Ellis, Metro; 60 min)• <i>2021-24 STIP Region 1; 100% project lists and public comment (Chris Ford, ODOT; 30 min)</i>• Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | <p><u>MTAC/TPAC joint workshop, February 15, 2023</u></p> <p>Agenda Items:</p> <ul style="list-style-type: none">• Climate Smart Strategy Discussion (Kim Ellis, Metro, 60 min.)• Draft Urban Growth Boundary (UGB) work plan (Ted Reid, 60 min.) |

TPAC meeting, March 3, 2023

Comments from the Chair:

- Committee member updates around the Region (Chair Kloster & all)
- Monthly MTIP Amendments Update (Lobeck)
- Fatal crashes update (Lake McTighe)

Agenda Items:

- **MTIP Formal Amendment 23-XXXX**
Recommendation to JPACT (Lobeck, 10 min)
- **MTIP Formal Amendment 23-XXXX I-5 Rose Quarter Project** Recommendation to JPACT (Ken Lobeck, TBD; 30 min)
- **I-5 Rose Quarter Project Briefing**
Recommendation to JPACT (Megan Channell, ODOT; 30 min)
- **Carbon Reduction Program – Funding Allocation** Recommendation to JPACT (Leybold/Cho/Ellis, Metro; 60 min)
- UPWP Draft Review (John Mermin, 30 min)
- 82nd Avenue Project update (Elizabeth Mros-O’Hara, Metro/ City of Portland TBD; 30 min)
- 2023 RTP: Draft Chapter 3 (Policy) Discuss draft mobility policy, draft pricing policy and draft HCT policy (Kim Ellis, Metro, 75 min)
- *Great Streets Program update: 150% project list and prioritization discussion* (Chris Ford, ODOT; 30 min)
- Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min)

TPAC workshop, March 8, 2023

Agenda Items:

- Regional Freight Delay & Commodities Movement Study (Tim Collins, Metro/Chris Lamm, Cambridge Systematics; 90 min)
- Climate Smart Strategy Discussion (Kim Ellis, Metro, 60 min.)

TPAC meeting, April 7, 2023

Comments from the Chair:

- Committee member updates around the Region (Chair Kloster & all)
- Monthly MTIP Amendments Update (Ken Lobeck)
- Fatal crashes update (Lake McTighe)

Agenda Items:

- **MTIP Formal Amendment 23-XXXX**
Recommendation to JPACT (Lobeck, 10 min)
- **UPWP Resolution 23-****** Recommendation to JPACT (John Mermin, 20 min)
- **82nd Avenue Project Resolution 23-XXXX**
Recommendation to JPACT (Mros-O’Hara, Metro/ City of Portland TBD, 30 min)
- 2024-2027 MTIP – Performance Evaluation Results and Public Comment (Cho, 30 min)
- 2023 RTP: Draft High-level Project Assessment Findings (Eliot Rose, 45 min)
- Recommended Projects for Implementing the 2021 TSMO Strategy (Caleb Winter, Metro/Kate Freitag, ODOT/A.J. O’Connor, TriMet; 45 min)
- Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min)

MTAC/TPAC joint workshop,

April 19, 2023

Agenda Items:

- 2023 RTP: Draft High-level Project Assessment and System Evaluation Measures (Eliot Rose, 90 min)
- 2023 RTP: Draft Chapter 3 (Policy) – Continue discussion (Kim Ellis, Metro, 60 min)

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| <p><u>TPAC meeting, May 5, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none"> • Committee member updates around the Region (Chair Kloster & all) • Monthly MTIP Amendments Update (Ken Lobeck) • Fatal crashes update (Lake McTighe) • 2024-2027 MTIP – Public Comment Report (Grace Cho) <p>Agenda Items:</p> <ul style="list-style-type: none"> • MTIP Formal Amendment 23-XXXX Recommendation to JPACT (Lobeck, 10 min) • 2023 RTP: Discuss policymaker and public input and technical findings to develop recommendation on finalizing draft RTP and list of project and program priorities for public review (Kim Ellis, 90 min) • Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | <p><u>TPAC workshop, May 10, 2023</u></p> <p>Agenda Items:</p> <ul style="list-style-type: none"> • High Capacity Transit Strategy Update: Draft Report (Ally Holmqvist, Metro; 30 min) • 2023 RTP: Report on project list input and draft system analysis: overall system performance; discuss mobility measures and targets (Kim Ellis and Eliot Rose, Metro, 90 min) |
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| <p><u>TPAC meeting, June 2, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none"> • Committee member updates around the Region (Chair Kloster & all) • Monthly MTIP Amendments Update (Ken Lobeck) • Fatal crashes update (Lake McTighe) <p>Agenda Items:</p> <ul style="list-style-type: none"> • MTIP Formal Amendment 23-XXXX Recommendation to JPACT (Lobeck, 10 min) • 2023 RTP: Finalizing draft RTP and list of project and program priorities for public review - Recommendation to JPACT (Kim Ellis, 90 min) • 2024-2027 MTIP – Adoption Draft and Public Comment Report (Cho, 30 min) • Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | <p><u>MTAC/TPAC joint workshop, June 21, 2023</u></p> <p>Agenda Items:</p> <ul style="list-style-type: none"> • Climate Smart Strategy Discussion (Kim Ellis, Metro, 60 min.) • <i>Possible Urban Growth Boundary topic, (Ted Reid, Metro, 60 min.)</i> |
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| <p><u>TPAC meeting, July 7, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none"> • Committee member updates around the Region (Chair Kloster & all) • Monthly MTIP Amendments Update (Ken Lobeck) • Fatal crashes update (Lake McTighe) <p>Agenda Items:</p> <ul style="list-style-type: none"> • MTIP Formal Amendment 23-XXXX Recommendation to JPACT (Lobeck, 10 min) • 2024-2027 MTIP – Adoption Draft Recommendation to JPACT (Cho, 30 min) • 2023 RTP: Public Review Draft RTP, Project List and Appendices (Kim Ellis, 45 min) • Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | <p><u>TPAC workshop, July 12, 2023</u></p> <p>Agenda Items:</p> |
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| <p><u>TPAC meeting, August 4, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none"> • Committee member updates around the Region (Chair Kloster & all) • Monthly MTIP Amendments Update (Ken Lobeck) • Fatal crashes update (Lake McTighe) <p>Agenda Items:</p> <ul style="list-style-type: none"> • MTIP Formal Amendment 23-XXXX Recommendation to JPACT (Lobeck, 10 min) • 2023 RTP: Draft Ordinance and Outline of Adoption Package (Kim Ellis, 45 min) • Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | <p><u>MTAC/TPAC joint workshop, August 16, 2023</u></p> <p>Agenda Items:</p> <ul style="list-style-type: none"> • 2023 RTP: Begin discussion of public comments on Public Review Draft RTP, Project List and Appendices (Kim Ellis, 60 min) |
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| <p><u>TPAC meeting, September 1, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none"> • Committee member updates around the Region (Chair Kloster & all) • Monthly MTIP Amendments Update (Ken Lobeck) • Fatal crashes update (Lake McTighe) <p>Agenda Items:</p> <ul style="list-style-type: none"> • MTIP Formal Amendment 23-XXXX Recommendation to JPACT (Lobeck, 10 min) • <i>Great Streets Program updates: Final project list</i> (Chris Ford, ODOT; 30 min) • Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | <p><u>TPAC workshop, September 13, 2023</u></p> <p>Agenda Items:</p> <ul style="list-style-type: none"> • 2023 RTP: Draft Public Comment Report and Recommended Changes in Response to Public Comment (Kim Ellis, 90 min) |
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| <p><u>TPAC meeting, October 6, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none"> • Committee member updates around the Region (Chair Kloster & all) • Monthly MTIP Amendments Update (Ken Lobeck) • Fatal crashes update (Lake McTighe) <p>Agenda Items:</p> <ul style="list-style-type: none"> • MTIP Formal Amendment 23-XXXX Recommendation to JPACT (Lobeck, 10 min) • Ordinance 23-XXXX 2023 RTP: Adoption Package, Draft Public Comment Report and Recommended Changes in Response to Public Comment (Kim Ellis, 90 min) • Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | |
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| <p><u>TPAC meeting, November 3, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none"> • Committee member updates around the Region (Chair Kloster & all) • Monthly MTIP Amendments Update (Ken Lobeck) • Fatal crashes update (Lake McTighe) <p>Agenda Items:</p> <ul style="list-style-type: none"> • MTIP Formal Amendment 23-XXXX <u>Recommendation to JPACT</u> (Lobeck, 10 min) • Ordinance 23-XXXX on 2023 RTP, Projects and Appendices <u>Recommendation to JPACT</u> (Kim Ellis, 90 min) • Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | <p><u>TPAC workshop, November 8, 2023</u></p> <p>Agenda Items:</p> |
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| <p><u>TPAC meeting, December 1, 2023</u></p> <p>Comments from the Chair:</p> <ul style="list-style-type: none"> • Committee member updates around the Region (Chair Kloster & all) • Monthly MTIP Amendments Update (Ken Lobeck) • Fatal crashes update (Lake McTighe) <p>Agenda Items:</p> <ul style="list-style-type: none"> • MTIP Formal Amendment 23-XXXX <u>Recommendation to JPACT</u> (Lobeck, 10 min) • Committee Wufoo reports on Creating a Safe Space at TPAC (Chair Kloster; 5 min) | |
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Parking Lot: Future Topics/Periodic Updates

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| <ul style="list-style-type: none"> • Columbia Connects Project • Best Practices and Data to Support Natural Resources Protection • Regional Emergency Transportation Routes Update Phase 2 (John Mermin, Metro & Carol Chang, RDPO) • Cost Increase & Inflation Impacts on Projects • TV Highway updates • 82nd Avenue updates • TSMO updates | <ul style="list-style-type: none"> • DLCDC Climate Friendly & Equitable Communities Rulemaking (Kim Ellis, Metro) • Ride Connection Program Report (Julie Wilcke) • Get There Oregon Program Update (Marne Duke) • RTO Updates (Dan Kaempff) • Update on SW Corridor Transit • UGB updates • TOD updates • 2040 Planning Grants updates • Transit Oriented Development (Andrea Pastor) • High Speed Rails updates (Ally Holmqvist) |
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Agenda and schedule information E-mail: marie.miller@oregonmetro.gov or call 503-797-1766.
 To check on closure or cancellations during inclement weather please call 503-797-1700.

Meeting minutes



Meeting: **Transportation Policy Alternatives Committee (TPAC) Workshop**
Date/time: Wednesday November 9, 2022 | 9:00 a.m. to 12:00 p.m.
Place: Virtual online meeting via Web/Conference call (Zoom)

Members Attending

Tom Kloster, Chair
Karen Buehrig
Allison Boyd
Chris Deffebach
Lynda David
Eric Hesse
Jaimie Lorenzini
Jay Higgins
Tara O'Brien
Lewis Lem

Affiliate

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Washington County
SW Washington Regional Transportation Council
City of Portland
City of Happy Valley & Cities of Clackamas County
City of Gresham and Cities of Multnomah County
TriMet
Port of Portland

Alternates Attending

Sarah Paulus
Mark Lear
Neelam Dorman
Glen Bolen
Jason Gibbens

Affiliate

Multnomah County
City of Portland
Oregon Department of Transportation
Oregon Department of Transportation
Washington State Department of Transportation

Members Excused

Don Odermott
Chris Ford
Karen Williams
Laurie Lebowsky-Young
Idris Ibrahim
Jasmine Harris
Katherine Kelly
Rob Klug
Shawn M. Donaghy
Jeremy Borrego
Rich Doenges

Affiliate

City of Hillsboro and Cities of Washington County
Oregon Department of Transportation
Oregon Department of Environmental Quality
Washington State Department of Transportation
Community Member
Federal Highway Administration
City of Vancouver
Clark County
C-Tran System
Federal Transit Administration
Washington Department of Ecology

Guests Attending

Bryan Graveline
Chris Lamm
Chris Smith
Cora Potter
Francesca Jones

Affiliate

Portland Bureau of Transportation
Cambridge Systematics

TriMet
Portland Bureau of Transportation

Guests Attending

Gabriela Gron
John Boren
Kerrie Franey
Mel Krnjaic Hogg
Nick Fortey
Steve Kelley
Steve Kountz

Affiliate

Portland Bureau of Transportation
Oregon Department of Transportation
Oregon Department of Transportation
Portland Bureau of Transportation
FHWA
Washington County

Metro Staff Attending

Ally Holmqvist, Eliot Rose, Grace Cho, John Mermin, Kyle Hauger, Lake McTighe, Marie Miller, Matt Bihn, Matthew Hampton, Shannon Stock, Ted Leybold, Tim Collins

Call to Order and Introductions

Chair Kloster called the meeting to order at 9:00 a.m. Introductions were made. Reminders where Zoom features were found online was reviewed. Chair Kloster noted that all attendees would be listed as panelists for full viewing and participation for this workshop meeting. The link for providing 'safe space' at the meeting was shared in the chat area.

Committee and Public Communications on Agenda Items

- Karen Buehrig asked if the Equitable Transportation Funding Research Report was added to the Nov. 4, 2022 TPAC packet. This was confirmed, found on page 176 of the 11/4/22 packet.

Consideration of TPAC workshop summary, September 14, 2022 (Chair Kloster) Edits or corrections were asked to be sent to Marie Miller. No edits/corrections were received.

Regional Freight Delay & Commodities Movement Study (Tim Collins, Metro/ Chris Lamm, Cambridge Systematics) Chris Lamm began the presentation with localized E-Commerce impacts shaped by Regional and National trends. National E-Commerce trends show a tremendous spike in ecommerce demand in 2020, and while growth rate has slowed since, sales and deliveries continue to increase. Effects from the pandemic regarding e-commerce in the state and region has been marked by a high demand for industrial land for distribution space. It was noted E-commerce requires 3x logistics space of brick-and-mortar retail space, and every \$1 billion in ecommerce retail sales requires 1 million square feet of distribution space.

Employment in key ecommerce sectors boomed during 2020-2021. Couriers and messengers show a 58.2% increase, and warehousing and storage show a 65.2% increase. Interviews with area employers have asked for input with questions:

- How has the volume of business changed since early 2020? How much of that change is attributable to e-commerce?
- How has business responded to that change in demand (hiring, new equipment, new/expanded facilities, etc.)?
- Are supply chain reliability, economic uncertainty, and/or other factors affecting operation? How?
- What challenges are experienced while transporting and/or delivering ecommerce shipments in the Portland region? What effects do these challenges have on business?
- Have these challenges been improved, worsened, or unchanged since the onset of the Pandemic?

Summary of impacts in the region show a rise of E-Commerce means more industrial real estate development, deliveries and jobs and wages in key sectors. Unknown is the net traffic and

environmental impacts. Interview findings included a spike in e-commerce business, traffic was light but by late 2021 it was “back to normal and then some”, challenges delivering in urban neighborhoods (congestion loading, complete streets, etc.), and consumer purchase habits = strain on logistics and carbon footprint.

Comments from the committee:

- Chair Kloster noted a question in chat: Slide 4: what are the numbers in the table? (for example, numbers of trucks, numbers of warehouses (or square feet). Mr. Lamm noted these are number of jobs with employment in industrial sectors.
- Eric Hesse noted the dollar amount with ecommerce activity and asked if there was information on volume activity. Mr. Lamm noted the data source reported this as dollar sales. We did not have the number of parcels and shipments that are represented in the sales figures. Some private data resources may have this but are pricey and not readily available.

Appreciation for the preliminary interviews data was given. Asked to define “urban streets”, Mr. Lamm noted the mixed uses, corridors, arterials and urban retail spaces mentioned, as well as the streetcar areas a problem, downtown business district, trucks where loading dock challenges exist and finding shared space on curbs.

- Lewis Lem noted the layers of freight movement and distribution that are more complex and different from commute travel. There appears to have Portland serve a function as a regional distribution center, a neighborhood ecommerce delivery system, and for larger cargo function nationally. Mr. Lamm noted you could look at the data sources centered on freight and commodity flows with analysis framework or look at freight coming into international gateways to areas of the country or look at other domestic planned freight routes (warehouse to other warehouse or distribution centers). These are well captured in some of these databases but what is missing is the last mile for deliverable service. Methodologies have been tested to try and estimate this, but absent is the lack of hard data or modeled data getting the last mile delivery section captured which may take more time.
- Chris Deffebach asked if we are above, below or normal in regional growth. Mr. Lamm noted that regarding consumer sales & retail the state of Oregon as a whole is slightly higher in growth for consumer spending but since 2022 the rate of growth may have slowed down slightly. This is basically normal with the rest of the county.

It was asked what the next steps are from this information. Was it something we should encourage? Is it for planning economic growth so we have land for distribution sites and infrastructure? Is it something we should put into the RTP project list, such as vibrant community goals? Are there investments we should make that come from this freight and commodity movement study? What do we do with the information from a policy perspective? There was concern about the unknown net traffic and environmental impacts.

Tim Collins noted the study began with a policy framework and developed questions we wanted to have answered. This information will be presented in the Feb/March timeframe for the committee. Ms. Deffebach noted it was important to find out how or if this impacts our RTP call for projects and ways to support the freight work, which doesn't appear to be shown in some of the call for projects yet, or the needs assessment.

Mr. Lamm added one of the policy questions we considered early on is what the role the public sector should be playing in the management of the policy level. There are some that come to

mind; land use policies, curb management strategies, designs and considerations in mixed use/residential areas. Facilities for consumer deliveries closer in the metropolitan area could be better efficient with transportation and outcomes with traffic and environmental issues regarding freight movement.

- Eric Hesse noted it was worth thinking about what Portland does in planning for changes to global demands with environmental impacts. There is a trend reported, but what do we do about it? Considerations with the study in combination with others that factor in land use, traffic patterns, industrial sites and jobs growth and regional prosperity are all important.
- Tara O'Brien noted that with the information shared with intent to position EVs to freight, there are opportunities for considering that more clearly in our update to our climate goals in the RTP. Micro freight and light duty vehicles and transitioning to electric modes can be part of the discussion in the RTP process. Another potential opportunity for collaboration is regarding the loading areas, which TriMet is interested in for service planning.
- Lewis Lem asked if there were suggestions of future questions from the work to-date, given recent changes such as COVID that threw our system into a new dimension. What are the next steps for the region? Mr. Lamm noted depending on what Metro and other agencies view in terms of strategies, opportunities and considerations, more questions will be developed for other potential data sources, analysis approaches, how to monitor programs and progress moving forward, and factors that shape trends and other elements.
- Glen Bolen noted regional economic success relies on export industries with a high job multiplier. Is there a threat that warehouse/distribution space will outbid manufacturers for space? This would likely mean more low-wage job growth without bringing in outside revenues.
- John Boren noted that in addition to Glen's point, data centers have been proliferating in industrial areas that had primarily been intended for employment.

Tim Collins presented information on the 2020 modeling results on commodities, reminding the committee of the main study objectives:

- Identify which mobility corridors are carrying the highest volumes and highest values of commodities
- Explore how increases in e-commerce are impacting the transportation system and regional economy
- Examine how congestion and unreliability on the regional transportation system impacts commodity movement
- Make recommendations for future regional policy and planning efforts to improve commodity movement; while addressing equity, safety and climate when applicable

Freight network maps were shown. Commodities traveling in the freight corridors (modeled) are grouped into 10 categories that include:

- 1) Agriculture; 2) Chemicals and Fertilizers;
- 3) Coal, Oil, Waste, (energy sector commodities);
- 4) Electronics (including computer microchips);
- 5) Food; 6) Gravel, Sand, (rock products); 7) Machinery;
- 8) Misc. manufactured goods;
- 9) Motor Vehicles, other commercial vehicles; and
- 10) Wood, Paper, etc.

The memo in the meeting packet was referred to that shows locations w/ largest values for goods. The model looks at commodities moved by trucks on the regional freight network. The dollar values and tonnage in the memo have increased from the memo sent to MTAC and TPAC in June of this year. The

new values and tonnage now take into account the commodities on freight trucks that are traveling through the region (external to external truck trips). More details were noted in the packet memo.

Next steps on the study include updates to PMT, SAC, and MTAC/TPAC throughout the 22 – 23 month long study, analysis of 2045 future year regional freight modeling outputs and look at growth rates from 2020 to 2045, and creating a table of the data (truck volumes, percent that are trucks and travel speeds) in 19 of 23 regional mobility corridors.

Comments from the committee:

- Lewis Lem noted motor vehicles are a good example to visualize all of these goods movements...if you can imagine them distributing out from T6 and T4 in different directions, and then also coming south from Tacoma marine terminals on continuing to move south on I-5...so the story makes general sense.
- Karen Buehrig asked for confirmation on information covered in all corridors. Mr. Collins agreed that more work is being done with all information integrated into the final report before completion. More updates will be provided to the committee in future meetings.

Committee comments on creating a safe space at TPAC – none received

Adjournment

There being no further business, workshop meeting was adjourned by Chair Kloster at 10:48 a.m.

Respectfully submitted,

Marie Miller, TPAC Recorder

Attachments to the Public Record, TPAC workshop meeting, November 9, 2022

| Item | DOCUMENT TYPE | DOCUMENT DATE | DOCUMENT DESCRIPTION | DOCUMENT No. |
|------|------------------------|---------------|---|--------------|
| 1 | Agenda | 11/9/2022 | 11/9/2022 TPAC Workshop Agenda | 110922T-01 |
| 2 | 2022 TPAC Work Program | 10/25/2022 | 2022 TPAC Work Program as of 10/25/2022 | 110922T-02 |
| 3 | 2023 TPAC Work Program | 10/25/2022 | 2023 TPAC Work Program as of 10/25/2022 | 110922T-03 |
| 4 | Minutes | 9/14/2022 | Minutes for TPAC workshop, 9/14/2022 | 110922T-04 |
| 5 | Memo | 11/1/2022 | TO: TPAC and interested parties From: Tim Collins, Senior Transportation Planner (Regional Freight Planner) RE: Commodities Movement Study - 2020 freight model updated results | 110922T-05 |
| 6 | Presentation | 11/9/2022 | Localized E-Commerce Impacts Shaped by Regional and National Trends | 110922T-06 |
| 7 | Presentation | 11/9/2022 | Regional Freight Delay and Commodities Movement Study 2020 modeling results on commodities | 110922T-07 |

Memo

Date: Wednesday, January 11, 2023
To: Metro Transportation Policy Advisory Committee (TPAC)
From: Ally Holmqvist, Senior Transportation Planner
Subject: High Capacity Transit Strategy Update: Corridor Investment Readiness Tiers

Purpose

High capacity transit is the backbone of the Regional Transportation Plan (RTP) and Metro's 2040 Growth Concept, connecting the centers through corridors. The [High Capacity Transit \(HCT\) Strategy](#) has expanded the vision for the future of high capacity transit in the Portland region with the inclusion of rapid bus and has updated the framework for guiding regional high capacity transit system investments – categorizing corridors where a higher quality of service would most benefit the most people. This memorandum describes the work done to date with partners to revise the draft policy framework, re-envision the network, and identify corridor investment priorities – milestones for this key policy focus area for the 2023 Regional Transportation Plan (RTP) Update.

Background

This fall, the three County coordinating technical and policy committees, TPAC, MTAC, the Joint Policy Advisory Committee on Transportation (JPACT), the Metro Policy Advisory Committee (MPAC), and Metro Council all provided feedback to shape development of the network vision for high capacity transit for the 2023 RTP, as well as input on the engagement strategy for the project. At the October TPAC/MTAC meeting, staff heard it was important to consider: access to jobs and other major destinations, access to the high capacity transit network, connecting town centers, supporting alternatives to driving, and using the right tools in the right places, including how we can grow transit improvements in the future.

Opportunities for public input included a broader RTP needs survey; in-person tabling at TriMet's Forward Together open houses at PCC Cascade, the Rosewood Initiative, Shute Park Library, and CCC Harmony in partnership with APANO, Centro Cultural and Slavic Family; a discussion at the 2023 RTP Community Leader's Forum; meetings with TriMet's Transit Equity Advisory Committee and Committee on Accessible Transportation and Clackamas County Small Transit Providers; and two small group interviews with staff on Division Transit (SE Portland) and The Vine (Vancouver) lessons learned. Other feedback provided to staff included considering: balancing the regional system and focusing on connecting centers, supporting where the transit network is still being developed in addition to making improvements, and ensuring the system supports economy. Staff also heard it was important to continue to support the regional priority corridors we're already working to advance, as well as other existing or candidate high capacity transit corridors including: Lombard/Killingsworth, Martin Luther King Jr. Blvd., Cesar Chavez, Clackamas to Columbia, Halsey, Burnside, Powell, Hwy 212/Sunnyside, I-205, McLoughlin, WES/Route 76- Beaverton to Wilsonville, Hwy 26, 185th Avenue, and Hwy 99W.

Since then, the Project Management Team (including staff from Metro and TriMet) has been working with the Working Group (including regional partners) to continue to implement the engagement strategy and incorporate what was heard from decision-makers, advisory committees, regional stakeholders, and community to refine the draft policy framework, re-envision the regional high capacity transit network, and identify regional corridor high capacity transit investment priorities create a "pipeline" of corridor investments in the region competitive for federal funding.

Revising the High Capacity Transit Policy Framework

While going through the process to apply the policy framework to develop the refined vision and the approach for assessing readiness, agency partners made additional recommendations for revising the policy framework to (see Attachment 3 for the agendas from HCT Strategy Update Working Group meetings #3.75 and #4):

- Better reflect the role of high capacity transit as the backbone of the transportation network and that with rapid bus and streetcar that role expands to connecting major town centers;
- Support high capacity transit operating in exclusive guideway to the greatest extent possible, while recognizing that it may operate in mixed traffic, exclusive guideway, or some combination of the two;
- Incorporate network design spacing best practices and mode shift goals;
- Clarify high capacity transit's role in speed and reliability, as well as the definition of mobility corridor and clean fleet; and
- Better reflect quality of life and environmental justice in the policy language.

The policy framework memo included in Attachment 6 incorporates these changes.

Refining the High Capacity Transit Network Vision

Guided by the policy framework and building from the 2018 RTP high capacity transit network, staff partners developed an approach to reimagine a stronger, expanded system best serving growing and changing regional needs. The approach was informed by feedback from decision-makers, advisory committees stakeholders, and community organizations on how to best refine the network vision for the long-term future of high capacity transit this past fall (Attachment 7 provides additional documentation for how the "Big Moves" lens informed this process). Agency partners stressed that as part of this process it was important to (see Attachment 3 for the agendas and minutes from HCT Strategy Update Working Group meetings #3.75 and #4):

- Continue to support established regional high capacity transit priorities: Southwest Corridor, Interstate Bridge, Montgomery Park Streetcar, Tualatin Valley Highway, and 82nd Avenue;
- Focus on ridership, land use supportiveness, accessibility, and cost-effectiveness when identifying corridors for investment near-term;
- Address gaps in the network supporting the 2040 Growth Concept blueprint when identifying corridors for investment short-term;
- Support north-south and east-west connections in Multnomah County and additional connections within and between Hillsboro, Clackamas County, and Wilsonville.

Applying that framework resulted in a refined network vision including new and stronger high quality transit connections along north-south and east-west corridors in Multnomah, Clackamas, Washington and Clark Counties. The scale is consistent with the regional history of success with the Federal Transit Administration's Capital Investment Grant Program and the scale of investment of prior plans and also considers network design and character (e.g., coverage, spacing, intensity). This stronger backbone would better support compact land development, create broader travel connections and mobility options, provide better alternatives to driving that encourage new ridership in support of our climate goals, and prioritize those who depend on transit or lack travel options, particularly communities of color and other historically marginalized communities.

Assessing Readiness and Developing Corridor Tiers

While all of the corridors in the vision are an important part of a broader system to meet our regional land use and transportation goals, they differ in their readiness for high capacity transit investment and not all are ready today. To be successful and maximize outcomes aligned with our regional investment priorities (equity, safety, climate, mobility, and vibrant and prosperous communities) corridors prioritized for this type of investment nearer-term must already have the following:

- many people already traveling today with more expected to travel in the future, especially historically marginalized communities,
- the potential to encourage people to ride transit rather than drive in support of our climate goals (e.g., reduce travel time, create capacity to meet travel demand),
- many and a balanced mix of jobs and housing (including affordable housing) that creates places where activity occurs most of the day,
- essential destinations (e.g., services, colleges, hospitals and medical facilities) within short, walkable distances of each other,
- well-designed streets and buildings that encourage walking and rolling and give transit priority,
- funding available for transit investments and a high cost-effectiveness of those investments, and
- solutions addressing community needs and priorities.

The expanded number of corridors in the refined vision went through additional system analysis and readiness evaluation to help better understand trips along the corridors, make additional adjustments, and assess these key indicators of readiness (see Attachment 4 for more detail on the approach). The approach built from the HCT Readiness Assessment Criteria developed with agency partners for the 2018 Regional Transit Strategy and drew from the Regional Transportation Plan performance measures in [Chapter 7](#). It was also informed by feedback from decision-makers, advisory committees stakeholders, and community organizations on how to best refine the network vision for the long-term future of high capacity transit this past fall. Agency partners provided feedback that the readiness assessment criteria should (see Attachment 3 for the agendas and minutes from HCT Strategy Update Working Group meetings #3.75 and #4):

- Align with the policy framework, including optimal network spacing;
- Reflect the Federal Transit Administration’s Capital Investment Grant Program criteria;
- Focus on people throughput and current and future productivity;
- Allow us to identify where to grow transit earlier;
- Consider travel time savings and car-dependent areas of the region;
- Focus on ridership, land use supportiveness, accessibility, and cost-effectiveness when identifying corridors for investment near-term; and
- Address gaps in the network supporting the 2040 Growth Concept blueprint when identifying corridors for investment short-term.

Table 1 below describes these measures in greater detail.

| Table 1. Readiness Evaluation Criteria | |
|---|---|
| Measure | Policy Context |
| Land Use Supportiveness and Market Potential: Connections linking the most people to jobs, essential services, and other major destinations (future population density by transportation analysis zone). | Supports the 2040 Growth Concept blueprint and 2023 RTP Vibrant Communities and Thriving Economy. Based on RTP Performance Measures 7.4.4 Access to Jobs, 7.4.7 Access to Transit and 7.4.5 Access to Community Places. |

| | |
|--|---|
| <p>Equity Benefit: Connections linking the most people in equity areas to jobs, essential services, and other major destinations (access to essential services and jobs for people in equity focus areas).</p> | <p>Supports Metro’s racial equity goals and the 2023 RTP Equitable Transportation Goal. Based on RTP Performance Measures 7.4.4 Access to Jobs, 7.4.7 Access to Transit and 7.4.5 Access to Community Places.</p> |
| <p>Transit Travel Time (Mobility) Benefit: How much investments in speed and reliability could improve how long a transit trip takes compared to other travel options (reliability ratio of congested to free flow conditions).</p> | <p>Supports the Regional Transit Strategy and the 2023 RTP Mobility Options goal. Based on RTP Performance Measure 7.4.9 Multimodal Travel Times.</p> |
| <p>Environmental Benefit: How many new riders could be created in support of our climate goals (reduction in vehicle miles traveled).</p> | <p>Supports the Climate Smart Strategy and the 2023 RTP Climate Action and Resilience Goal. Based on RTP Performance Measure 7.4.12 Carbon Emissions.</p> |
| <p>Productivity and Cost Effectiveness: What the cost would be per person riding for an investment (boardings per revenue hour and capital cost per rider).</p> | <p>Supports the Regional Transit Strategy and the 2018 RTP Fiscal Stewardship Goal. Based on RTP Performance Measure 7.4.11 Transit Efficiency and Ridership.</p> |

Other key indicators of the success of planning activities for and implementation of a high capacity transit investment include:

- **Documented Support:** what corridors are identified in local transportation for transit-supportive investments, what local land use plans include transit-supportive land use policies for identified corridors, what displacement analysis and community stability strategies are in place, and what other high capacity transit-supportive work has been completed to date.
- **Existing Physical Conditions and Complexity:** how much potential right-of-way in the street is available and/or how much capacity could be added from transit investment, how accessible a corridor is by walking, rolling and bicycling today and what level of investment is needed, how long the corridor is, and what percentage is a freight route.
- **Local Commitment and Partnerships:** what level of documented local and community support there is for the corridor, what partnerships with agencies and municipalities (including right-of-way owner) already exist, and what level of funding is or may be available.

Together, these measures indicated where there is the greatest need for and most potential benefits in making high quality transit investments today versus where there are other opportunities to make these types of investments in the future. Based on the assessment results, the team grouped the corridors by readiness into tiers also indicating the location and a representative mode for modeling (acknowledging that additional analysis through corridor planning and ultimately the NEPA process will define mode). When agency partners reviewed the proposed tiers in review sessions and Working Group #5 in December, staff heard it was important to consider:

- For Powell: light rail as the representative mode and a lower tier due to the planning complexity associated with the corridor and recent investment on Division,

- For Hillsboro to Forest Grove: a lower tier due to planning complexity and feasibility and recent investment on Tualatin Valley Highway,
- For Beaverton-Hillsdale Highway: local support from Washington County for this corridor as a priority, and
- For McLoughlin: rapid bus as the representative mode and that this corridor is the highest local priority in Clackamas County.

Incorporating this feedback, Attachment 4 identifies the pipeline of investment priorities (and provides more information as to how that was developed with working group partners) to inform the 2023 Regional Transportation Plan investment strategy — regional priority, emerging regional priority, developing, and future investment corridors. Similar to the 2009 HCT Plan, the associated map is intentionally fuzzy to allow the corridor planning process to select the preferred alignment supported by more detailed analysis.

For some of the corridors that are ready today, we have already started work to plan for new high quality transit connections in the nearer-term. These first-tier corridors either have a project with an adopted locally-preferred alternative or are actively working toward one now: Southwest Corridor, Interstate Bridge, Montgomery Park Streetcar, 82nd Avenue, and Tualatin Valley Highway. Tier 1 corridors would support these previously-identified regional priorities for 2030 and 2045 constrained investments in the 2023 Regional Transportation Plan. These are not the only corridors that are ready for investment today. But we know that our region's history of success with and capacity for the partnerships and work required to advance corridors through the Federal Project Development process is about one corridor every three years. As such, the second tier identifies corridors where planning activities for high capacity transit investments could begin as soon as the next five years. Tier 2 corridors would be opportunities for 2045 constrained and strategic investments in the 2023 Regional Transportation Plan.

Other corridors may first need additional development activity and/or other types of investments to help high capacity transit to be successful. These corridors demonstrate some readiness today and/or indicate strong readiness in the future, particularly where adopted land use and transportation plans and strategies promote a transit-supportive future. Additional work and/or time are needed to advance planning activities for these corridors and Better Bus improvements could provide a solution in the interim. Tier 3 corridors would be opportunities for additional 2045 strategic investments as feasible in the 2023 Regional Transportation Plan. Finally, some corridors may provide important future connections to support our 2040 Growth Concept vision that are not yet ready for this type of investment today. Many of the elements creating a supportive environment for the success of high capacity transit investment may not yet be present and/or fully established in adopted land use and transportation plans. Tier 4 corridors would continue to be identified in the transit vision rather than investment opportunities for the 2023 Regional Transportation Plan.

Questions for Discussion

- What do you think about these additional adjustments to the transit policies derived from feedback from our engagement activities and work with the working group? Is there anything that you think could be improved upon to better reflect the outcomes we defined in developing the policy framework (including supporting regional goals)?
- What else should be considered in identifying the corridor investment readiness tiers? Are there refinements that should be considered? Are the Tier 2 next phase corridors that rose to the top the ones that the region is ready to champion?

- What would you like to see addressed in the final report towards best supporting implementation of the high capacity transit vision? How could the report best set-up local land use and transportation plans to be most transit-supportive?

Next Steps

Winter/Spring Corridor Readiness Engagement

Between January and March, staff will be working with decision-makers, advisory committees stakeholders, and community organizations to refine the investment priorities and identify additional considerations for high capacity transit investment readiness. Attachment 2 provides a preliminary draft schedule of these meetings and events. Those activities will include:

- participation in TriMet's 2023 Annual Service Plan (implanting year one of Forward Together) Tabling Events in January: *University of Oregon (Downtown Portland Campus), St. Philip Neri (SE Division, Portland), Rosewood Initiative (SE Stark), CCC Harmony (Milwaukie), Washington Street Conference Center (Hillsboro), Fairview City Hall, and Muslim Educational Trust (SW Portland).*
- proposed follow-up meetings with TriMet's Transit Equity Advisory Committee and Committee on Accessible Transportation;
- small business focus groups inviting participation from: *Business for a Better Portland, Venture Portland, Oregon Association of Minority Entrepreneurs, Westside Economic Alliance, North Clackamas Chamber, Gresham Chamber, and Tigard Chamber;*
- additional group discussions and events through contracts with community-based organizations (CBOs), coordinated with the 2023 RTP, involving community members from communities of color, youth and people with disabilities, who have been historically underrepresented in decision making and are more likely to rely on transit; and
- an online interactive storymap, including a survey, that walks community members through the work done to date on major milestones and seeks to identify how high capacity transit investments could best meet community needs.

Conversations with stakeholders and community members will help the team better understand what is needed to make the vision corridors ready for high capacity transit investment. As an outcome of this effort we are hoping to develop a list of opportunities, challenges, and recommendations for future corridor planning processes to address.

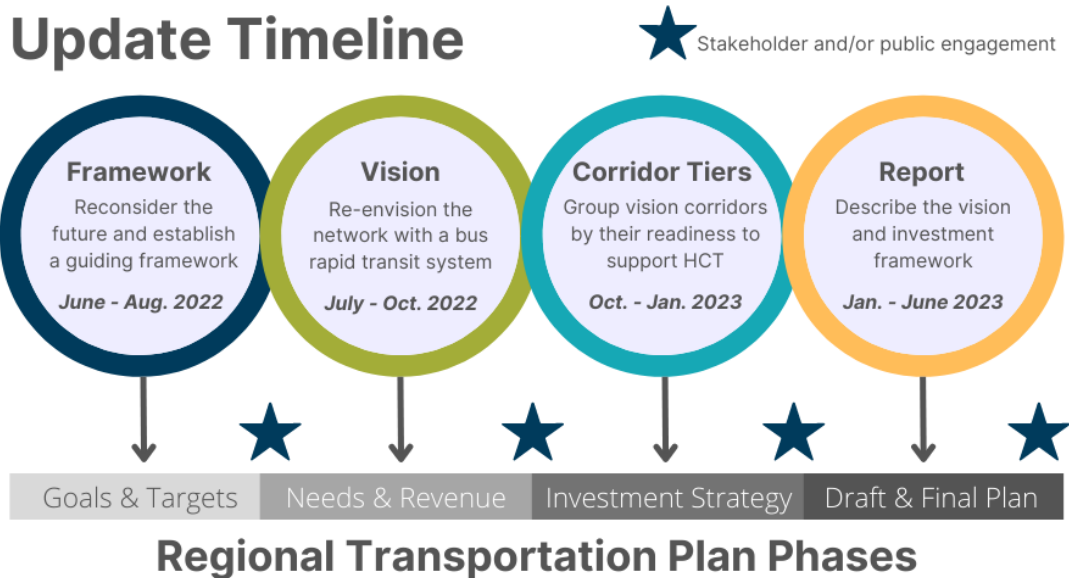
Developing the Draft Report

The next and final upcoming milestone for the High Capacity Transit (HCT) Strategy update is the draft report – drawing from and building upon the 2009 HCT Plan and 2018 Regional Transit Strategy. The report will summarize policy considerations, challenges and opportunities; vision development and outcomes; the corridor investment prioritization process; and actions and strategies for facilitating implementation of the HCT System vision. It will also describe what it will take to implement the HCT System Vision, including identifying system needs and current and future actions necessary to meet those needs, what formal amendments or changes to existing plans may need to be enacted, and what additional actions or best practices should be pursued. Agency partners reviewed a draft outline of the report at Working Group #5 on December 20.

Spring/Summer Report Review and Engagement

As part of Working Group meeting #6 on April 5, partner members will review and comment on the draft High Capacity Transit Strategy Report. Staff will incorporate that feedback and then return to County and Metro advisory committees, including TPAC, for input on the draft High Capacity Transit Strategy report in May, aligned with timing for development of the RTP investment strategy.

At the same time, staff will also reach out to all of the community, mobility, and advisory groups and organizations engaged as part of the process to invite review of and comment on the draft report.



ATTACHMENTS

1. Vision and Readiness Fact Sheet
2. Major Milestones and Meetings Outline (updated)
3. Working Group Meetings #3.75 & #4: Minutes
4. Readiness Approach Memo and Addendum
5. Readiness Reporting Matrix and Tiers
6. Updated Policy Framework Memo
7. Evaluation Supplemental Big Moves Analysis Documentation

cc: Tom Kloster, Metro Regional Planning Manager
 Kim Ellis, Metro Principal Planner, Regional Transportation Planning
 Andrea Pastor, Metro Senior Development Project Manager, Housing & TOD
 Elizabeth Mros-O'Hara, Metro Principal Planner, Investment Areas
 Grant O'Connell, TriMet Senior Planner, Mobility Planning & Policy
 Jaime Snook, TriMet Director, Major Projects
 Tara O'Brien, TriMet Senior Government Affairs Coordinator
 Jonathan Plowman, TriMet Senior Transit Planner

High capacity transit vision & corridor investment priorities

A new vision for high capacity transit identifies faster and reliable transit connections that will connect more people in the greater Portland region to the places they need to go. Now, the region must prioritize where to invest first.

What is the vision for high capacity transit?

New high capacity transit will strengthen the backbone of the transportation system in the greater Portland region as the area continues to grow and change. High capacity transit is public transportation that moves a lot of people quickly and often – think light or commuter rail or bus rapid transit. It can efficiently move the highest number of people along regional routes where the most people need to travel quickly, reliably, and comfortably. The vision for high capacity transit builds from the existing light rail network and Division Street Frequent Express (FX) bus line and calls for new and stronger high quality transit connections in Multnomah, Clackamas, Washington and Clark counties.

The envisioned high capacity transit system will provide better alternatives to driving that encourage new ridership in support of the region's climate goals. The expanded system will prioritize those who depend on transit or lack travel options.

What is a "corridor"?

Corridors are routes that are heavily used by people and freight to connect to major destinations throughout the region. A corridor might include a large roadway with multiple transit lines and nearby smaller roadways and bikeways.



How will the corridors be prioritized?

Not all the corridors identified in the vision are ready for high capacity transit today. To be prioritized for high capacity transit in the near-term, corridors must already have:

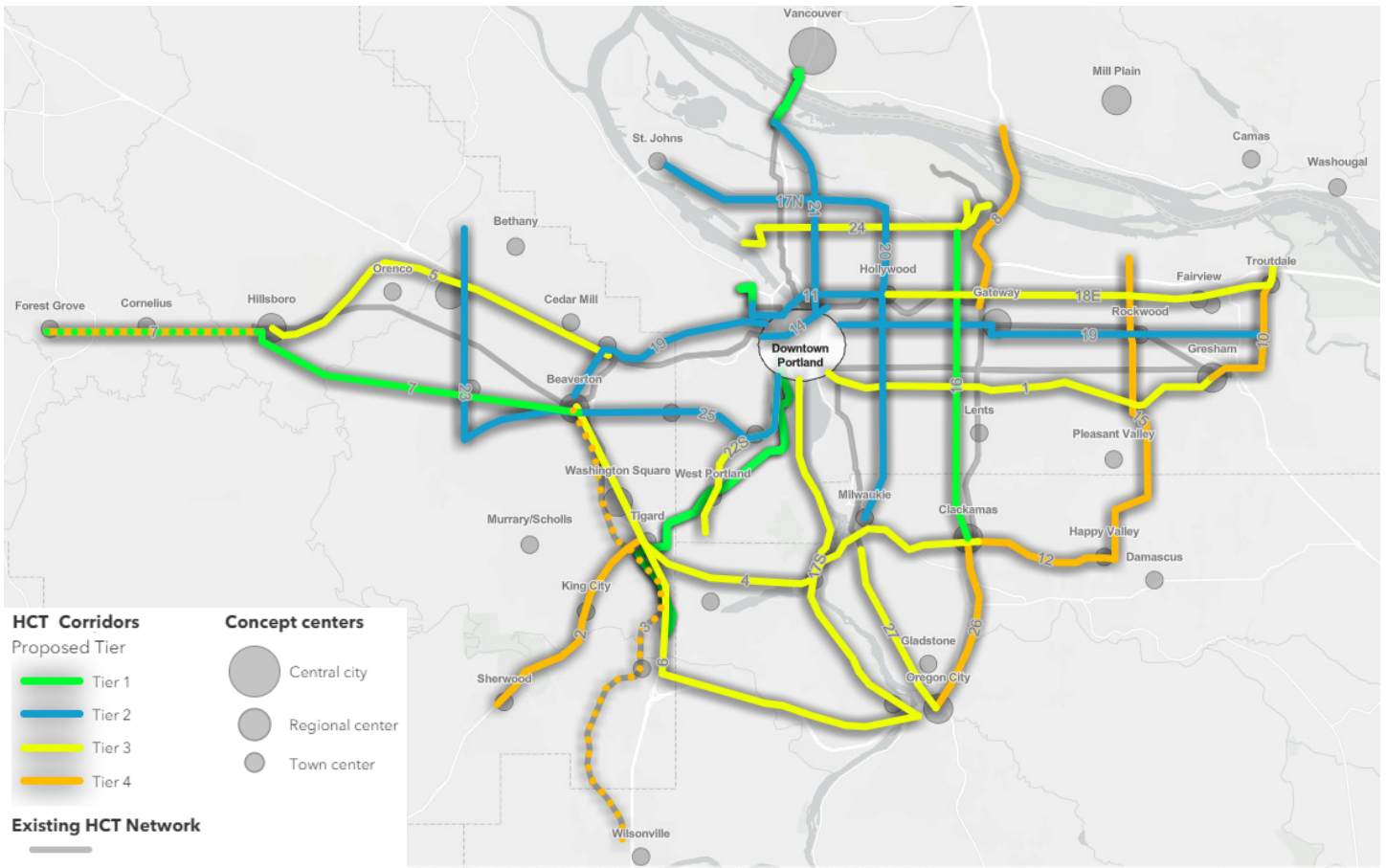
- many and a balanced mix of jobs and housing that creates places where activity occurs most of the day,
- essential destinations within short, walkable distances of each other,
- well-designed streets and buildings that encourage walking and rolling and give transit priority,
- funding available for investments and high cost-effectiveness of those investments, and
- community needs and priorities.

Together, these considerations help identify where there is the greatest need for and most potential benefit in making high quality transit investments. Grouping the corridors by levels of readiness, referred to as tiers, creates a plan that will support the cost-effective use of regional resources to build a high capacity transit system.

- **Tier 1:** Corridors that are ready and where new high capacity transit connections are currently planned for the near-term.
- **Tier 2:** Corridors where planning for high capacity transit investments could start as soon as the next five years.
- **Tier 3:** Corridors where other investments are needed to help high capacity transit to be successful
- **Tier 4:** Important future connections that are not yet ready for high capacity transit in the near-term.



Metro



HCT Investment Tiers

Tier 1: Where investments are currently being planned

- Southwest Corridor MAX
- 82nd Avenue FX Bus
- TV Highway FX Bus
- Interstate Bridge MAX
- Montgomery Park Streetcar

Tier 2: Where planning could start in five years

- 14 Central City Tunnel (improving MAX speed and reliability)
- 19 Burnside Beaverton to Gresham
- 11 NW Lovejoy to Hollywood
- 21 MLK Blvd Hayden Island to Downtown
- 23 185th Bethany to Beaverton
- 25 Hwy 10 Beaverton to Portland
- 22N St Johns to Portland
- 20 Cesar Chavez Portland to Milwaukie

Tier 3: Where corridors are getting ready for investments

- 1 Portland to Gresham (Powell)
- 22S Capitol Hwy PCC Sylvania to Portland
- 5 Hwy 26 Sunset TC to Hillsboro
- 24 Swan Island to Parkrose
- 17S Portland to Oregon City
- 18E Hollywood to Troutdale
- 27 McLoughlin Park Avenue MAX to Oregon City
- 6 Beaverton to Oregon City
- 4 Beaverton to Clackamas TC

Tier 4: Important corridors not yet ready for investment

- 9 Hillsboro to Forest Grove
- 10 Gresham to Troutdale
- 2 Hwy 99W Tigard to Sherwood
- 3 WES Corridor Improvements
- 15 Clackamas to Columbia
- 12 Clackamas TC to Damascus
- 26 Clackamas TC to Oregon City
- 8 I-205 Gateway to Clark County

What's Next?

In winter and spring 2023, the project team will work with community members and organizations, businesses, agency partners and elected officials to hear more about their investment priorities. Discussion will focus on what else the corridors need to be ready for high quality transit service.

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HIGH CAPACITY TRANSIT STRATEGY UPDATE

Key Meeting Dates and Engagement Activities for Project Milestones

January 2023

Outcome: Review corridor investment tiers. Continue revenue discussion. Feedback on HCT report outline.

| Date | Who |
|-------------------|---|
| January 4 | East Multnomah County Transportation Committee TAC |
| January 5 | Clackamas County Coordinating Committee TAC |
| January 5 | Washington County Coordinating Committee TAC |
| January 9 | East Multnomah County Transportation Committee (policy) |
| January 9 | Washington County Coordinating Committee (policy) |
| January 11 | Transportation Policy Alternatives Committee (TPAC) |
| January 18 | Clackamas County C-4 subcommittee (policy) |
| January 18 | Metro Technical Advisory Committee (MTAC) |
| January 19 | Joint Policy Advisory Committee on Transportation (JPACT) |
| January 24 | Metro Council (work session) |
| January 25 | Metro Policy Advisory Committee (MPAC) |
| January-February | <ul style="list-style-type: none"> • Project webpage updates <ul style="list-style-type: none"> ○ Readiness Assessment Memo ○ Storymap and Survey: Readiness and Investment Priorities • Stakeholder Meetings/Interviews: Corridor Investment Tiers (January): How do you think these tiers look for investment priorities? What changes would you like to see? Why? <ul style="list-style-type: none"> ○ TriMet TEAC & CAT (TBD) ○ RTP CBO Contract – HCT corridor readiness and community priorities events (TBD) ○ Focus groups (TBD): Small business organizations |

April/May 2023

Outcome: Feedback on the draft report. Discuss 2023 RTP investment strategy. Preview public review process.

| Date | Who |
|---------------------------|---|
| April 5 | HCT Working Group #6: Draft Strategy Report and RTP Investment Strategy <ul style="list-style-type: none"> • HCT Report • RTP Investment Strategy • RTP Public Review Preview |
| <i>May 3 (tentative)</i> | <i>East Multnomah County Transportation Committee TAC</i> |
| <i>May 4 (tentative)</i> | <i>Clackamas County C-4 TAC</i> |
| <i>May 4 (tentative)</i> | <i>Washington County Coordinating Committee TAC</i> |
| May 10 | Transportation Policy Alternatives Committee (TPAC) |
| <i>May 15 (tentative)</i> | <i>East Multnomah County Transportation Committee (policy)</i> |
| <i>May 15 (tentative)</i> | <i>Washington County Coordinating Committee (policy)</i> |
| <i>May 17 (tentative)</i> | <i>Clackamas County C-4 subcommittee (policy)</i> |
| May 17 | Metro Technical Advisory Committee (MTAC) |

| | |
|---------------|--|
| May 18 | Joint Policy Advisory Committee on Transportation (JPACT) |
| May 24 | Metro Policy Advisory Committee (MPAC) |
| May 30 | Metro Council (work session) |
| April-May | <ul style="list-style-type: none"> • Project webpage <ul style="list-style-type: none"> ○ MetroQuest Survey: HCT Strategy ○ Send survey, follow-up documents and public review notice to engaged stakeholders ○ Draft report documents • Fact Sheet #6: What is the region's strategy for HCT? • RTP: Snapshot Story on Transit (importance of HCT- queue project list) |

June/July 2023

Outcome: RTP Priorities and Public Review (including HCT).

| Date | Who |
|-----------|--|
| TBD | TPAC |
| TBD | MTAC |
| TBD | JPACT |
| TBD | MPAC |
| TBD | Metro Council |
| June-July | <ul style="list-style-type: none"> • RTP Project webpage: Public review draft documents • RTP Public Review Period |

November 2023

Outcome: RTP adoption.

| Date | Who |
|------------------|---|
| TBD | Metro Council Work Session discussion |
| TBD | TPAC/MTAC workshop discussion |
| TBD | JPACT discussion |
| TBD | MPAC discussion |
| TBD | TPAC recommendation to JPACT |
| TBD | MTAC recommendation to MPAC |
| TBD | JPACT recommendation to Metro Council |
| TBD | MPAC recommendation to Metro Council |
| TBD | Metro Council considers action on MPAC and JPACT recommendations |
| October-December | <ul style="list-style-type: none"> • RTP Public Hearings • RTP Project webpage: Final documents |

TECHNICAL MEMORANDUM

DATE: November 17, 2022
TO: Ally Holmqvist, Metro
FROM: Ryan Farncomb, Kirsten Pennington (KLP Consulting), Oren Eshel (Nelson\Nygaard)
SUBJECT: Approach to assessing HCT corridor readiness, modes, and tiering
CC: Metro High Capacity Transit (HCT) Strategy Update

This memorandum documents the proposed approach to determining high capacity transit (HCT) corridor “readiness,” corridor ranking, and discussion of factors that will influence future mode choice in each corridor. Metro will use this assessment to shape the HCT Strategy update, including identifying which corridors are priorities for implementation. The approach in this memo builds on the evaluations conducted previously for the 2009 and 2018 iterations of the HCT Strategy.

CORRIDOR READINESS EVALUATION

The prior *Revised Corridor Evaluation Memorandum* describes the overall approach to identifying the preliminary vision of possible HCT corridors and evaluating them through a two-step process. Corridors that emerge from this “Level 1” screening, including previously identified corridors from 2009 and 2018 HCT system planning work that have not yet advanced, will be evaluated with this Level 2 screening. The Level 1 evaluation identified the preliminary HCT vision corridors that are subject to further screening and evaluation. Corridors with existing regional commitments – such as Southwest Corridor LRT, 82nd Avenue, and the Interstate Bridge Project, will not be evaluated further and are assumed to be included in the final vision as “Tier 1” corridors (see Corridor Ranking section below).

This memo describes the Level 2 screening which focuses on corridor “readiness;” meaning, whether the right conditions are in place to support advancing a given corridor for HCT investment. The Level 2 criteria are shown in Table 1. Attachment A shows an example evaluation using these criteria. These criteria are refined based on the 2018 evaluation and include criteria related to climate and equity, among other RTP policy priorities, and federal funding. The project team added these criteria to reflect regional policy priorities.

The federal funding criteria are based on the Federal Transit Administration’s (FTA) Capital Investment Grants (CIG) program. This program is the most substantial non-local source for HCT funding in the Portland-Vancouver region and has funded many HCT investments, including much of the existing LRT system. Because of the outsize influence this program has on funding viability, the Level 2 screening criteria were revised to reflect the CIG program’s criteria, thereby helping to ensure readiness of project corridors.

Table 1. Level 2 Corridor Evaluation Criteria

| Criteria | Measure | Data Source/Notes | Methodology |
|-----------------------------|--|---|---|
| Transit Travel Time Benefit | Ratio of personal vehicle travel time to transit travel time | HCT Plan (2018) Core Criteria Meets Section 5309 Capital Investments Grants (CIG) Small Starts Program “Mobility Improvements” | The team will compare the average travel time at 3:00 PM on a typical weekday for personal vehicles versus transit; the higher this ratio, the greater the opportunity to improve transit travel times. |

| Criteria | Measure | Data Source/Notes | Methodology |
|--|--|---|--|
| | | Travel model data | |
| Productivity + Cost Effectiveness | Existing boardings per revenue hour in a given corridor Capital Cost per Rider (range to account for modal options) | HCT Plan (2018) Core Criteria Input to 5309 Capital Investments Grants (CIG) Program "Cost Effectiveness" measure | Boardings per revenue hour will be calculated based on 2019 and modeled 2040 boardings and transit revenue hours. Capital cost per rider will be presented as a range, based on average per-mile costs for two HCT modes (LRT and BRT). |
| Environmental Benefit | Change in GHG emissions associated with HCT investment in a given corridor. | "Reduction in emissions" meets HCT Plan (2018) Core Criteria VMT used as key performance measure in Metro 2021 TSMO Strategy | Using established transit elasticities, estimate the change in ridership that is likely occur in a given corridor by investing in HCT and the corresponding change in auto VMT that would be expected. Convert this change in VMT to GHG emissions using an average fleet emissions factor for year 2030. |
| Equity Benefit | Access to employment – Essential Jobs and Essential Services by Census Block within ½ mile of corridors Relative proportion of historically marginalized populations in each corridor, based on Metro's Focus Areas | TriMet and Metro Essential Destinations data. Remix Online Tool for Existing Routes Consider specific impact to in-person jobs in the region (data from TriMet <i>Forward Together</i> project) | The team will rely on data from TriMet's Forward Together program. Forward Together included location analysis of in-person jobs in the Metro region. The team will assess the relative number of in-person jobs within ½ mile of corridors using 20th percentiles. The relative proportion of historically marginalized populations within ½ mile of each corridor will be reported. |
| Land Use Supportiveness and Market Potential | 2040 Population Density by TAZ within ½ mile of corridors 2040 Employment Density by TAZ within ½ mile of corridors Presence of higher education institutions, multi-family and affordable housing | Metro Travel Model HCT Plan (2018) Core Criteria "Land Use Supportiveness and Market Potential" Meets Section 5309 Capital Investments Grants (CIG) Small Starts Program "Land Use" and "Economic Development" criteria | Using existing 2040 Metro travel model data, the team will develop population densities within ½ mile of each corridor and rank by 20 th percentiles. The project team will also provide for purposes of comparison the average density within 1/2 mile of (1) the average existing frequent service bus line and (2) average light rail line. The same approach will be applied for total employment within ½ mile of the corridors. The presence of multi-family and affordable housing, and higher education institutions will be applied as an additional land use check. |

Jurisdictional Readiness Evaluation

After screening the corridor with the quantitative criteria, the project team will conduct a “jurisdictional readiness” evaluation to provide additional context. This next evaluation will be conducted on those corridors that score highly on the quantitative evaluation. This evaluation will be qualitative and based on the following factors:

- **Documented community support**, as determined by inclusion of a given corridor in local plans, supportive language in local Comprehensive Plans, etc.
- **Political support**, as determined by an identified jurisdictional “champion” for a given corridor. HCT corridors require strong political support and usually a local agency(s) that is strongly supportive of the project and that will maintain that support over the long-term.
- **Transit-supportive local policies**, such as those encouraging multifamily housing, minimum land use densities, mixed uses, affordable housing, employment, and other areas.
- **Local anti-displacement strategies or policies**
- **Identified local funding** for implementation (either as match or as a locally-funded project).
- **Physical conditions in the corridor**, looking at the likely availability of ROW broadly within a given HCT corridor or the need for mobility solutions that could require additional ROW within a high travel and constrained corridor; known environmental constraints, and presence of sidewalks and cycling facilities. Corridors with major physical constraints would score lower relative to this criterion. However, a major influx of funding could influence the readiness of corridors with major physical constraints.
- **Assessment of work conducted to-date**, meaning, the level and amount of planning, design, environmental, or other work that has been completed to define and advance the HCT investment in a given corridor.

CORRIDOR RANKING

After both evaluation steps have been completed, the project team will conduct an initial sort of corridors into one of four tiers based on their performance. These tiers are based on the original 2009 HCT System Plan Report:

- **Tier 1 – Regional Priority Corridors:** these include corridors with an adopted Locally Preferred Alternative (LPA) under the National Environmental Policy Act (NEPA), or those where determination of the LPA is already underway (such as 82nd Avenue). These corridors are likely to score well with respect to the Federal Transit Administration’s (FTA) Capital Investment Grant (CIG) program. These corridors already have regional consensus and so were not evaluated with the Level 2/readiness criteria described above.
- **Tier 2 – Emerging Regional Priority Corridors:** Tier 2 includes corridors that score highest based on the quantitative and qualitative assessment where additional policy or planning actions may elevate the corridor to advance within the next five years. With steps taken to advance regional discussion on these corridors and/or some changes in the corridor itself, Tier 2 corridors may score well with respect to the Federal Transit Administration’s (FTA) Capital Investment Grant (CIG) program.
- **Tier 3 – Developing Corridors:** corridors that scored in the middle relative to others based on the quantitative evaluation and where the qualitative assessment shows multiple issues or needs that must be addressed, or where land use or employment and population density is marginal for HCT investment. These corridors likely require more time before advancing.
- **Tier 4 – Future Corridors:** these corridors score lowest on the quantitative and qualitative evaluation and lack policy or land use conditions that warrant near-term HCT investments.

Funding considerations will be an important “lens” applied to the initial tiering that emerges from this assessment. Available funding is fundamental to the number of corridors the region is able to advance in the

near-term and as such is an important final screen on the initial tiering. The project team will also conduct a final “policy check” to ensure the corridors that emerge from the analysis align with the HCT policy framework and the intended regional outcomes. The final funding and policy check reviews are qualitative in nature; limited modifications, additions, removals, or changes in assigned Tier may result.

Finally, the project team will describe conditions that are likely to influence future discussions on the appropriate HCT mode for each corridor. A specific mode may not be assigned to corridors, given that further study and evaluation is required to determine the appropriate mode in each corridor, as well as the final corridor routing, as part of further studies outside of this process. The team will review the following factors that contribute toward mode selection, including:

- Existing corridor ridership.
- The personal vehicle to transit travel time ratio, determined for each corridor previously (Table 1). The greater this ratio, the greater the need for corridor investment in transit priority or other interventions (e.g., stop consolidation) to improve travel times.
- Existing roadway capacity and available right-of-way: this qualitative assessment will look at the likely availability of ROW broadly within a given HCT corridor or the need for mobility solutions that could require additional ROW within a high travel and constrained corridor. This assessment aims to understand the relative difficulty of implementing HCT.

These criteria will be used to determine if they likely require <50% priority or >50% priority.

However, the project team will assign a **representative corridor and mode** for purposes of modeling corridors only to understand the high-level impacts of HCT investments on regional transit ridership and mode split. The project team will determine these representative modes based on ridership and connections to the existing HCT system. Future corridor refinement studies will make alignment and mode determinations.

AREAS SUBJECT TO FURTHER REFINEMENT

This evaluation will result in high-level information useful for confirming the vision for HCT and ranking corridors based on readiness to advance. However, identifying and tiering corridors is the first step toward advancing HCT. Detailed study and public involvement is required to advance corridors through the various phases of project development, design, construction, and implementation. An **important early step** in advancing corridors is a detailed look at alignments, potential termini, and segmentation to further define the corridor and project; it may be that only part of a corridor is ready to proceed, or that segmenting a given corridor is the preferred approach to move forward. Additional work that would occur outside of the HCT Strategy Update process and would define elements of the project further includes:

- Mode and vehicle type
- Exact alignment and termini
- Level of transit priority needed
- Station locations
- Roadway design
- Pedestrian and bicycle facilities
- Integration with the broader transportation system, including first/last mile considerations, park and rides, traffic impacts, etc.

12/8/22 Revised DRAFT Level 2 and Readiness Assessment Addendum

The following provides more details on the analysis conducted as part of the Level 2/Readiness Assessment for the HCT Strategy Update. This addendum is subject to revision as the evaluation approach and results are refined based on agency and stakeholder feedback.

Level 2 Evaluation

| Metric | Approach |
|-------------------------------------|---|
| Transit-Auto Travel Time Ratio | <p>Results represent the estimated ratio of transit travel time to personal car travel time in a given corridor. This ratio is calculated using Google Maps travel times during the same hour for all corridors (trip departing at approximately 3:00 PM on a Wednesday), average of both directions, including transfer time (if applicable).</p> <p>Corridors were scored relative to each other based on quartiles.</p> |
| Productivity and Cost Effectiveness | <ul style="list-style-type: none"> • Boardings per revenue hour: calculated based on 2019 fall quarter average ridership and revenue hours on TriMet lines associated with each corridor. For those corridors where no transit line exists today, the team used the following assumptions: <ul style="list-style-type: none"> ○ Corridor 14, Central City Tunnel: productivity estimated using combined MAX Red and Blue line boardings and revenue hours. This project would affect corridor-wide travel times, and therefore the team used the corridor-wide ridership for this factor. ○ Corridor 8, Parkrose to Clark County: the team was not able to develop a ridership estimate for this route. • Capital cost per rider: this metric was estimated similarly to how it would be estimated as part of the FTA CIG program evaluation. It represents the <i>annualized federal capital cost per rider</i>. Because the HCT Strategy Update is not going to assign a specific mode to most corridors, the team developed a range of capital cost estimates based on BRT and LRT costs to feed into this metric. A low and high capital cost was generated for each corridor as follows: <ul style="list-style-type: none"> ○ Low: using the per-mile capital cost for the Division BRT project, multiplied by the representative corridor length to yield a total corridor cost. ○ High: using the per-mile capital cost for the SW Corridor LRT project, multiplied by the representative corridor length to yield a total corridor cost. <p>To align with CIG criteria, the cost was then annualized based on an average annualization factor of 30 years and 50 years for the low-end and high-end, respectively. These factors represent the average lifespan of all of the capital elements of a representative BRT and LRT project; some elements have shorter life spans (e.g., vehicles) while others have longer life spans (e.g.,</p> |

| Metric | Approach |
|-----------------------|---|
| | <p>trackway). Finally, the project team assumed that each corridor would receive 50% federal funding, such that effectively half of the capital cost for each corridor contributes to the federalized share. This annualized federal cost share was then divided by the number of annual riders on transit in each corridor, based on 2019 ridership data. Exceptions to the above methodology include:</p> <ul style="list-style-type: none"> ○ Corridor 14- Central City Tunnel: assumed a single capital cost based on the capital cost developed as part of Metro’s Central City Transit Capacity Analysis project (2019). ○ Corridor 18W- Montgomery Park to Hollywood: this corridor is assumed to be “streetcar.” The project team used the per-mile cost of the eastside streetcar project (from 2011), inflated using the construction cost index to 2022 dollars. ○ Corridor 6- Beaverton to Oregon City: no existing service on this line. Used the estimate of new riders that was modeled as part of the TriMet Express and Limited Stop Study (2020) for this corridor. ○ Corridors 3, 9, 10, 27 were assigned LRT as representative mode based on prior planning (2009 HCT Strategy) for purposes of scoring capital cost. |
| Environmental Benefit | <p>GHG reduction benefit: the methodology uses an assumed change in transit headways and research on transit elasticities to result in an estimated change in ridership based on implementing HCT, a corresponding reduction in VMT based on this increase in ridership, and in turn a reduction in GHG emissions on an annual basis in metric tons. No ridership modeling was conducted for this assessment, so the team used headway elasticities to generate a high-level estimate of change in ridership from implementing HCT in each corridor. Research shows that headway improvements are responsible for a substantial share of the ridership impact of HCT; however, the project team recognizes that this does not account for the other elements of BRT (such as improved stations, etc.) that also contribute to ridership increases. Additional assumptions for the GHG calculation are as follows:</p> <ul style="list-style-type: none"> • Used existing weekday transit ridership, average trip length, and average headways for each corridor based on 2019 TriMet data • Assumed that corridors improved to an average of 12-minute headways all day, based on Division Transit headways. • Headway elasticity is estimated at 0.5 per Victoria Transport Policy Institute (VTPI), meaning every 10% improvement in headway results in a 5% increase in ridership. For some corridors, an estimate of future ridership already exists (e.g., Central City Tunnel) and was used in place of the headway elasticity method. • The assumed increase in ridership was multiplied by the average transit trip length to generate an average increase in transit person miles travelled (PMT). • The increased transit PMT was assumed to result in a corresponding decrease in personal vehicle VMT; however, this VMT change was discounted by 50% to account for induced demand (based on research findings). When people |

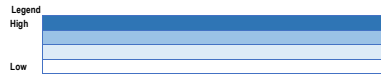
| Metric | Approach |
|-------------------------|---|
| | <p>shift to transit from driving, some increase in driving occurs as a result of newly freed up roadway space.</p> <ul style="list-style-type: none"> The reduction in VMT was then converted to a reduction in GHG, based on the average fleet efficiency (23 miles per gallon) and average GHG content of gasoline (9 kg/gallon) in 2020 to yield an annual reduction in GHG emissions. |
| Equity Benefit | <ul style="list-style-type: none"> Key destinations within a ½ mile of each corridor: this metric looks at the average number of key destinations within ½ mile of each corridor. Key destinations include city halls, community centers, hospitals, libraries, and schools. The total was normalized using corridor length. Share of marginalized populations within ½ mile of each corridor: this metric uses Metro equity focus areas based on Census tracts to report the percentage of the population that are marginalized populations in each corridor. Equity focus areas are Census tracts that represent communities where the rate of Black, Indigenous, or People of Color (BIPOC), people with limited English proficiency (LEP), or people with low income (LI) is greater than the regional average. Additionally, the density (persons per acre) of one or more of these populations must be double the regional average. |
| Land Use Supportiveness | <ul style="list-style-type: none"> Population density: population density, per square mile, within ½ mile of each corridor based on 2040 projections from the Metro model by TAZ. Corridors with a population density above 7,000 persons per square mile are considered most supportive of HCT. Employment density: number of jobs, per square mile, within ½ mile of corridor based on 2040 projections from the Metro model by TAZ. Number of affordable housing units: number of units, per linear mile of corridor, within ½ mile of each corridor. Presence of higher education: scored based on the presence of one or more higher education institutions within ½ mile of each corridor. |

Readiness Criteria

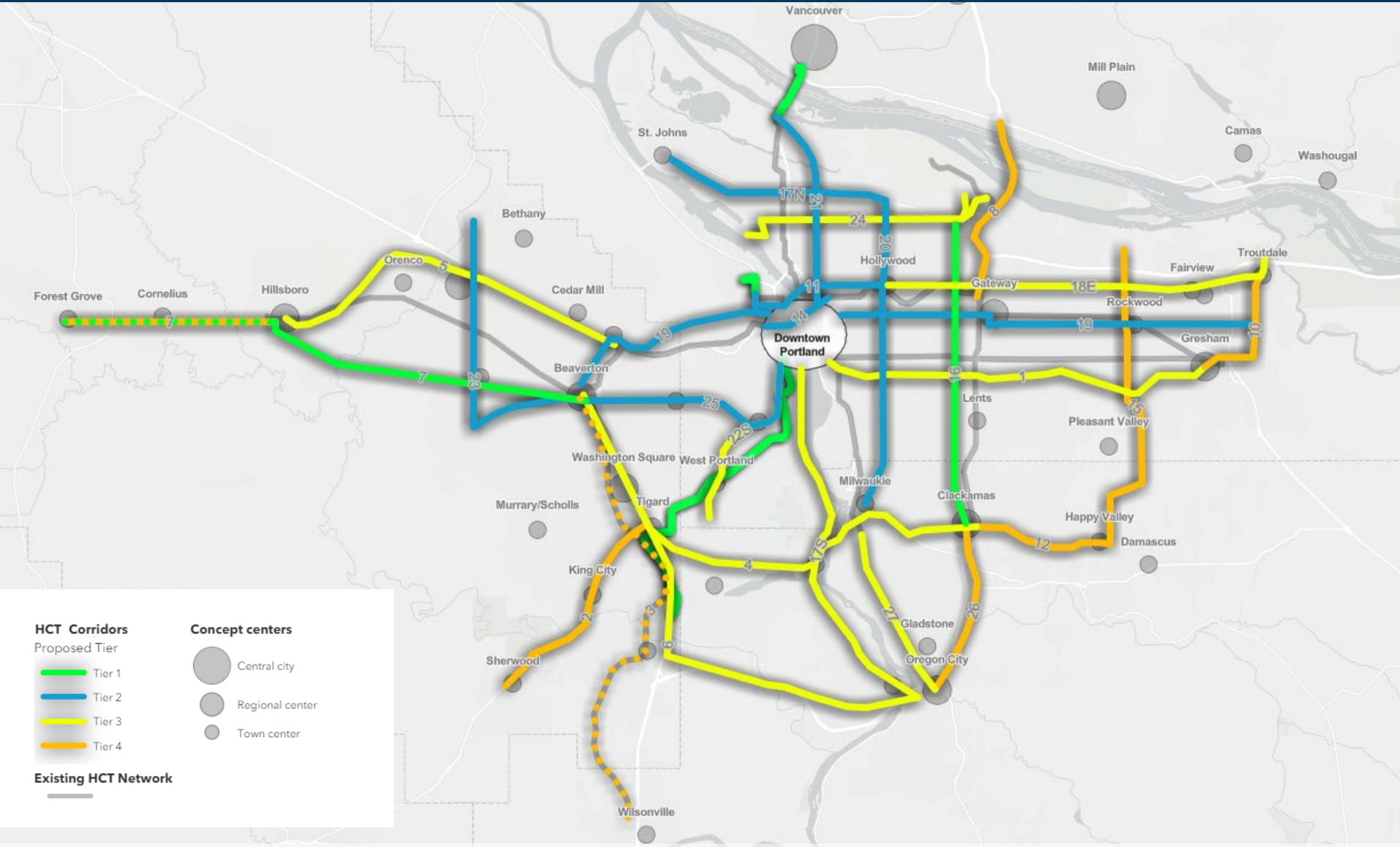
| Metric | Approach |
|--------------------|---|
| Documented Support | <ul style="list-style-type: none"> Community support: this was scored based on whether HCT or similar investment capital project is identified in local TSPs or related documents. Local champion/local funding: <i>this criterion requires further discussion and is not scored at this time.</i> Transit-Supportive Policies: this criterion looks at local jurisdiction policies that support HCT and align with the types of policies identified through the CIG program: <ul style="list-style-type: none"> Local jurisdiction anti-displacement policies Local jurisdiction policies that align with CIG funding criteria, including transit-supportive population and employment policies, housing policies, etc. |

| | |
|-------------------------------------|---|
| | <ul style="list-style-type: none"> • Work completed to-date: scored based on whether local jurisdictions and partners have performed work to advance a given corridor, beyond inclusion in long-range plans. This may include additional studies, projects, investments, or recent planning work supportive of advancing a given corridor. • Tolling: <i>this measure requires further discussion and is not scored at this time. The intent of this measure is to identify HCT corridors that overlap with tolling corridors.</i> |
| Physical Conditions in the Corridor | <ul style="list-style-type: none"> • “Physical space”: the project team determined the share of each representative corridor that is less than or equal to three lanes or greater than three lanes (four or more lanes), in addition to the share of the corridor that is railroad ROW. This criterion provides a high level understanding of how constrained a given corridor is; corridors that are predominantly along roads that are less than three lanes would likely require greater capital investments and/or ROW acquisition in order to achieve transit priority lanes or separate guideways, and in turn, may have more complex planning and design processes that require more time. Corridors that are predominantly along roads that are four or more lanes wide potentially have more opportunity to re-purpose existing roadway space for transit priority lanes/separate guideways, and in turn, may require less complex planning and design processes to advance. • Miles of sidewalks and miles of bicycle facility within ½ mile of each corridor: these metrics look at the density of the existing cycling and walking networks as a way of understanding the robustness of the first-/last-mile network in each corridor. These metrics are normalized by the length of each corridor. Corridors were scored based on whether they are higher or lower than the median across all corridors. |
| Implementation Complexity | <ul style="list-style-type: none"> • Length of corridor: based on TriMet experience, lengthier HCT corridors become more complex and take more time to implement. Shorter corridors were assigned a higher score. • Freight corridor: this criterion assigns a score based on whether a corridor is a designated freight corridor or not. Corridors having a freight designation are scored lower, the need maintain freight mobility can present obstacles to developing HCT. |

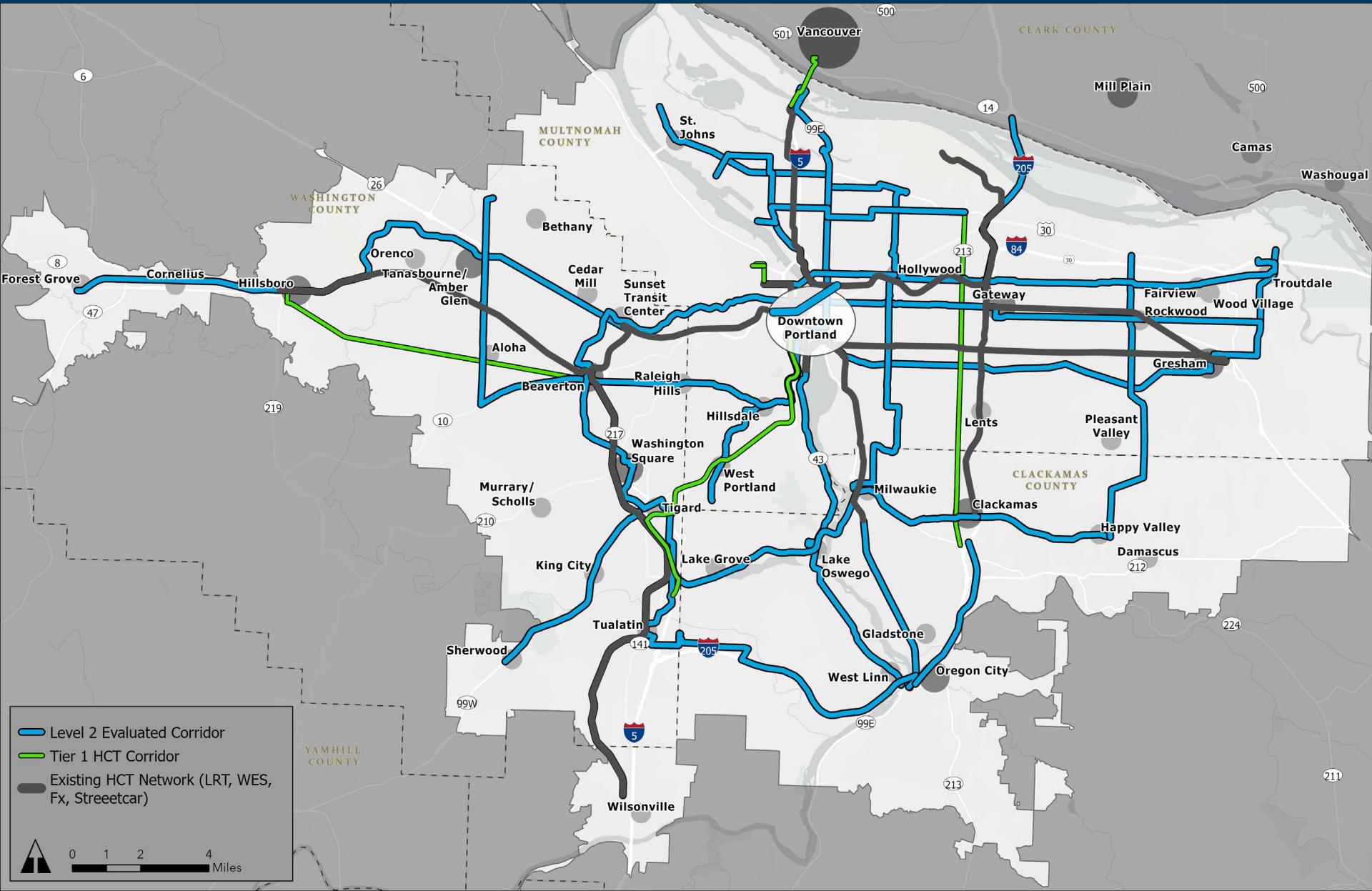
| Map ID | Potential Project and Representative Corridor | Mobility | | Productivity and Cost Effectiveness | | Environment I Benefit | Equity Benefit | | Land Use Supportiveness and Market Potential | | | | Level 2 Evaluation Total Score | Documented Support | | | Physical Conditions in the Corridor | | | Implementation Complexity | | Readiness Total Score | Total Score | Proposed Tier | Geography / Jurisdiction | |
|--------|--|--|----------------------------|-------------------------------------|------------------------------------|--|---|--------------------|--|--|------------------------------|-------------------|--------------------------------|--------------------------------------|------------------------|----------------|--|--|-----------------|---------------------------|---|-----------------------|-------------|---------------|--------------------------|-------------------------------|
| | | Transit Travel Time to Car Travel Time Ratio | Boardings per Revenue Hour | Capital Cost per Rider | GHG Reduction Benefit, Annual CO2e | Key Destinations within 1/2 Mile, Normalized | Share of Marginalized Populations within 1/2 Mile | Population Density | Employment Density | Number of Affordable Housing Units, Normalized | Presence of Higher Education | Community Support | | Transit Supportive Land Use Policies | Work completed to-date | Physical Space | Miles of Sidewalks within 1/2 mile of Corridor, Normalized | Miles of street with Bike Facility Present within 1/2 mile of Corridor, Normalized | Corridor Length | Freight Corridor | | | | | | |
| 11 | NW Lovejoy to Hollywood via Broadway/Weidler | ● | ● | ● | ○ | ○ | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 2 | Portland/Multnomah |
| 14 | Central City Tunnel | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 2 | Portland/Regional |
| 19 | Beaverton - Portland - Gresham via Burnside | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 2 | Washington/Portland/Multnomah |
| 21 | Hayden Island - Downtown Portland via MLK | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 2 | Portland |
| 23 | Bethany to Beaverton via Farmington/SW 185th | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 2 | Washington |
| 25 | Beaverton to Portland via Hwy 10 (BH Hwy) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 2 | Washington/Multnomah |
| 22N | St Johns - Downtown Portland via Vancouver/Williams, Rosa Parks | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 2 | Portland |
| 20 | St. Johns - Milwaukie via Cesar Chavez | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 2 | Portland |
| 1 | Portland to Gresham in the vicinity of Powell Corridor | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 3 | Multnomah |
| 225 | PCC Sylvania to Downtown Portland via Capitol Hwy | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 3 | Portland |
| 5 | Sunset Transit Center to Hillsboro via Hwy 26/ Evergreen | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 3 | Washington |
| 24 | Swan Island to Parkrose | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 3 | Portland |
| 175 | Oregon City to Downtown Portland via Hwy 43 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 3 | Clackamas/Multnomah |
| 18E | Hollywood to Troutdale | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 3 | Portland/Multnomah |
| 27 | Park Ave MAX Station to Oregon City via the McLoughlin Corridor | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 3 | Clackamas |
| 6 | Beaverton - Tigard - Tualatin - Oregon City | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 3 | Clackamas/Washington |
| 4 | Beaverton - Tigard - Lake Oswego - Milwaukie - Clackamas Town Center | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 3 | Clackamas/Washington |
| 9 | Hillsboro to Forest Grove | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 4 | Washington |
| 10 | Gresham to Troutdale | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 4 | Multnomah |
| 2 | Tigard to Sherwood via Hwy 99W Corridor | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 4 | Washington |
| 3 | Beaverton to Wilsonville in the vicinity of WES | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 4 | Washington |
| 15 | Happy Valley to Columbia Corridor via Pleasant Valley | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 4 | Multnomah/Clackamas |
| 12 | Clackamas Town Center to Damascas | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 4 | Clackamas |
| 26 | Clackamas Town Center to Oregon City | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 4 | Clackamas |
| 8 | Gateway to Clark County in the vicinity of I-205 Corridor | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | 4 | Multnomah/Clark |



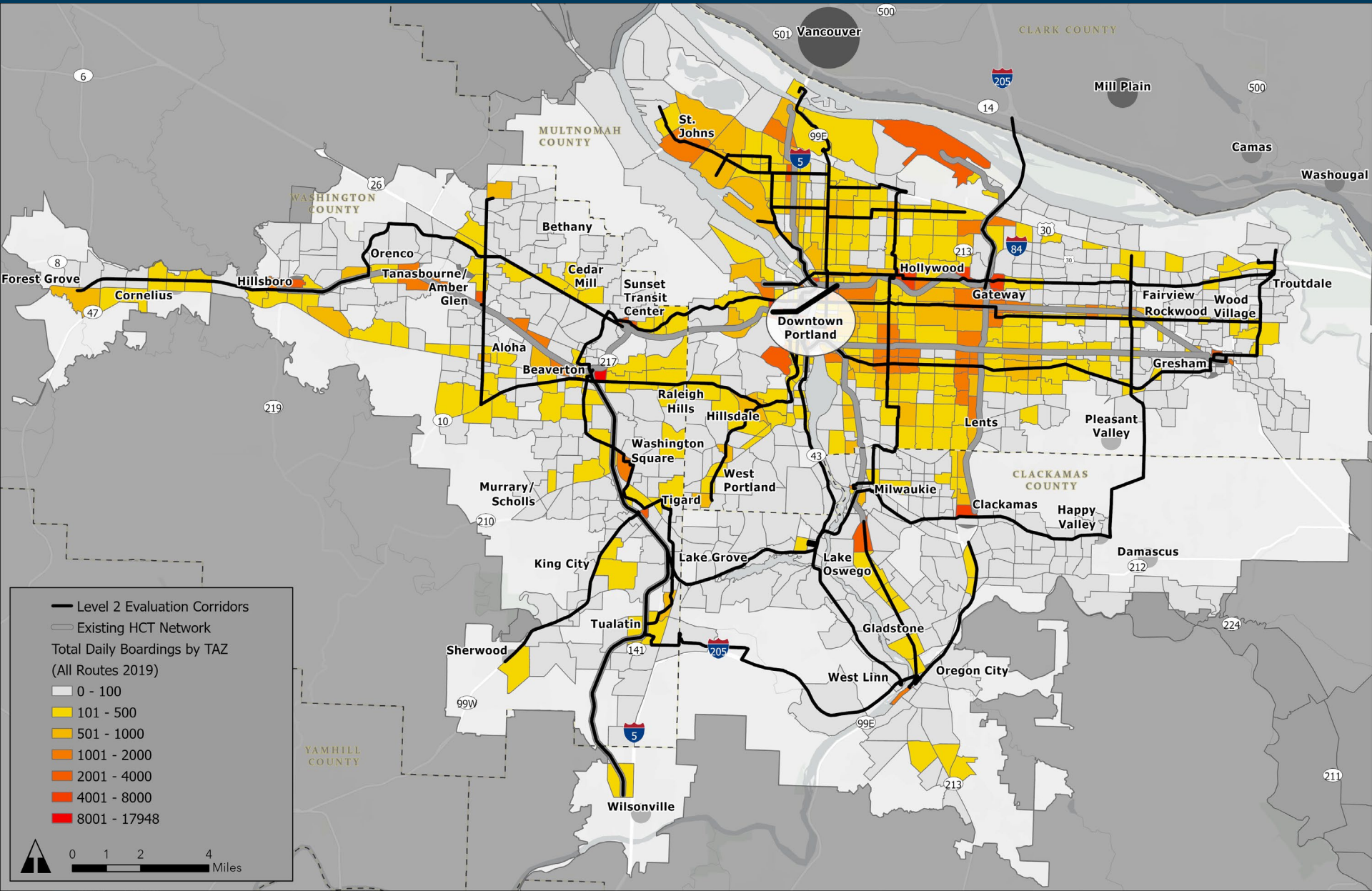
Corridor Tiers



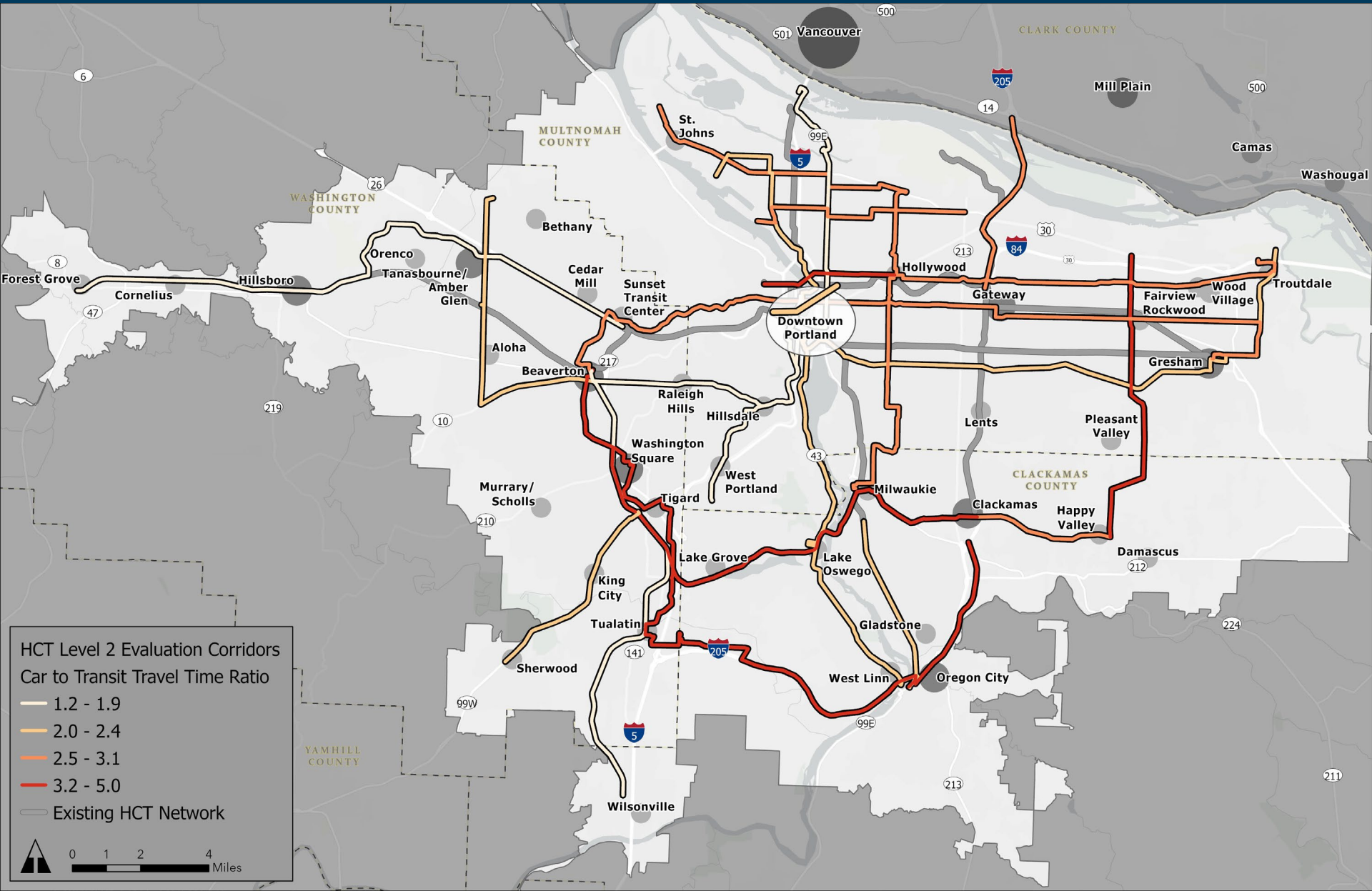
"Representative" Corridors



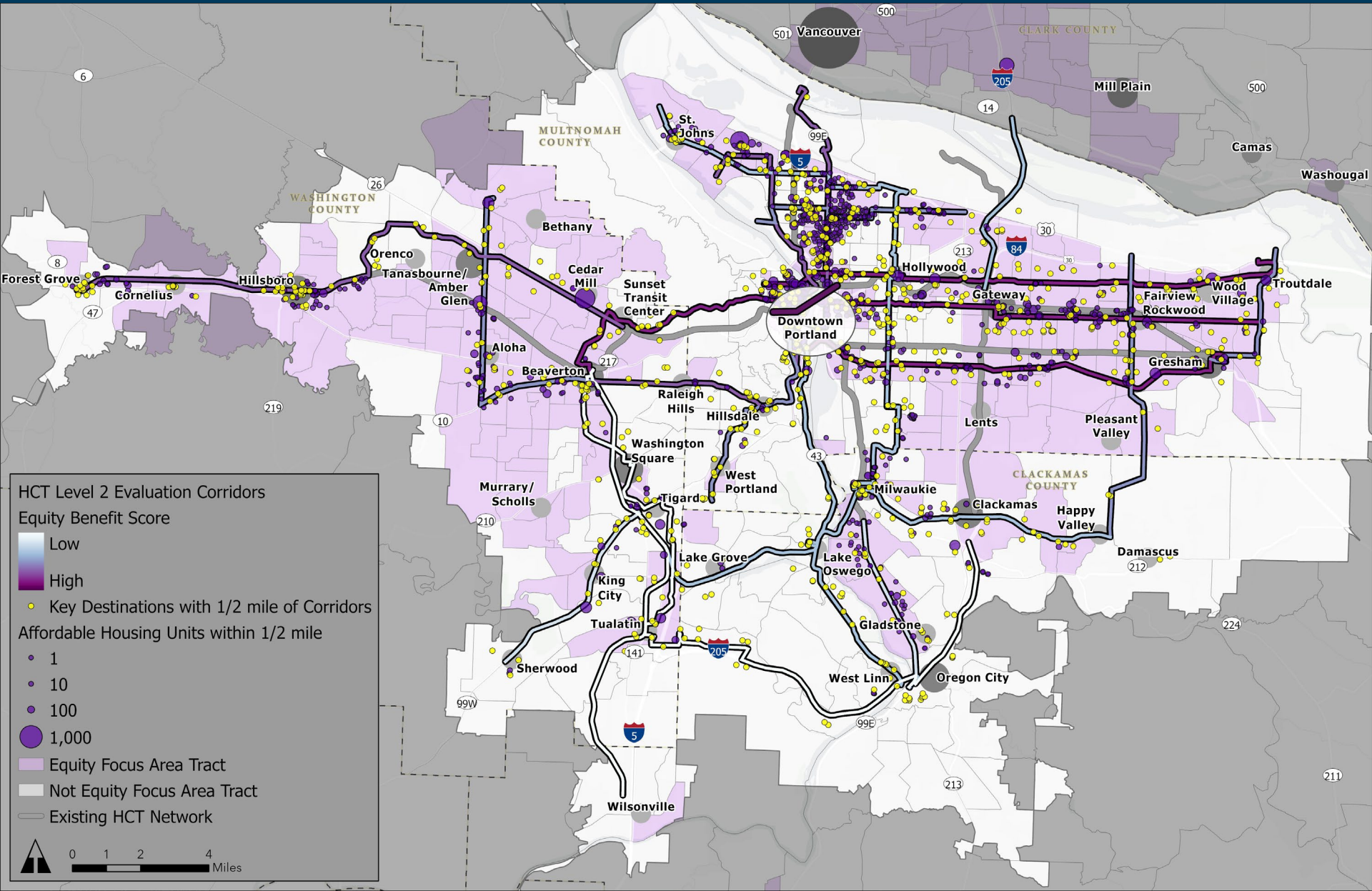
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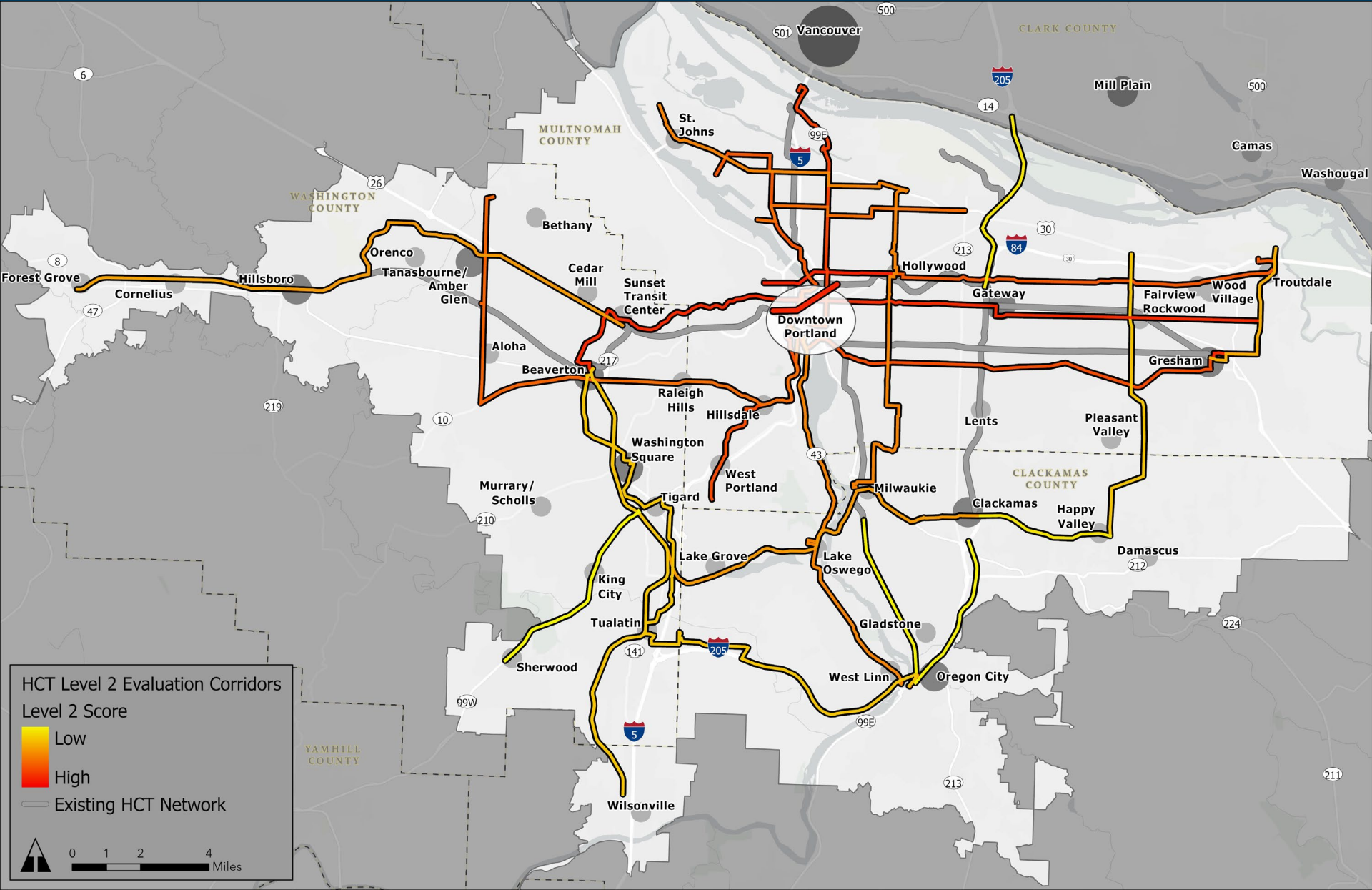
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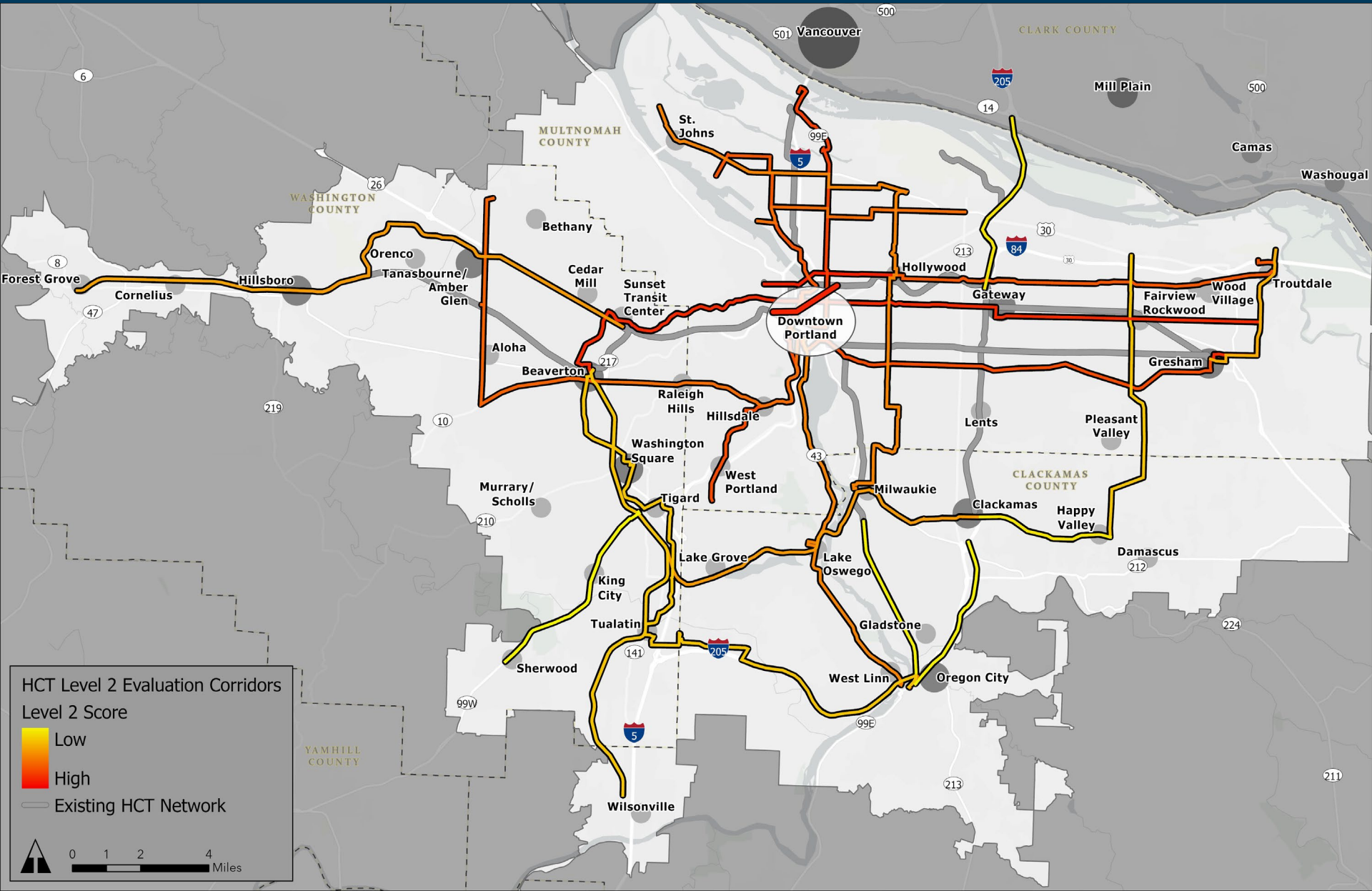
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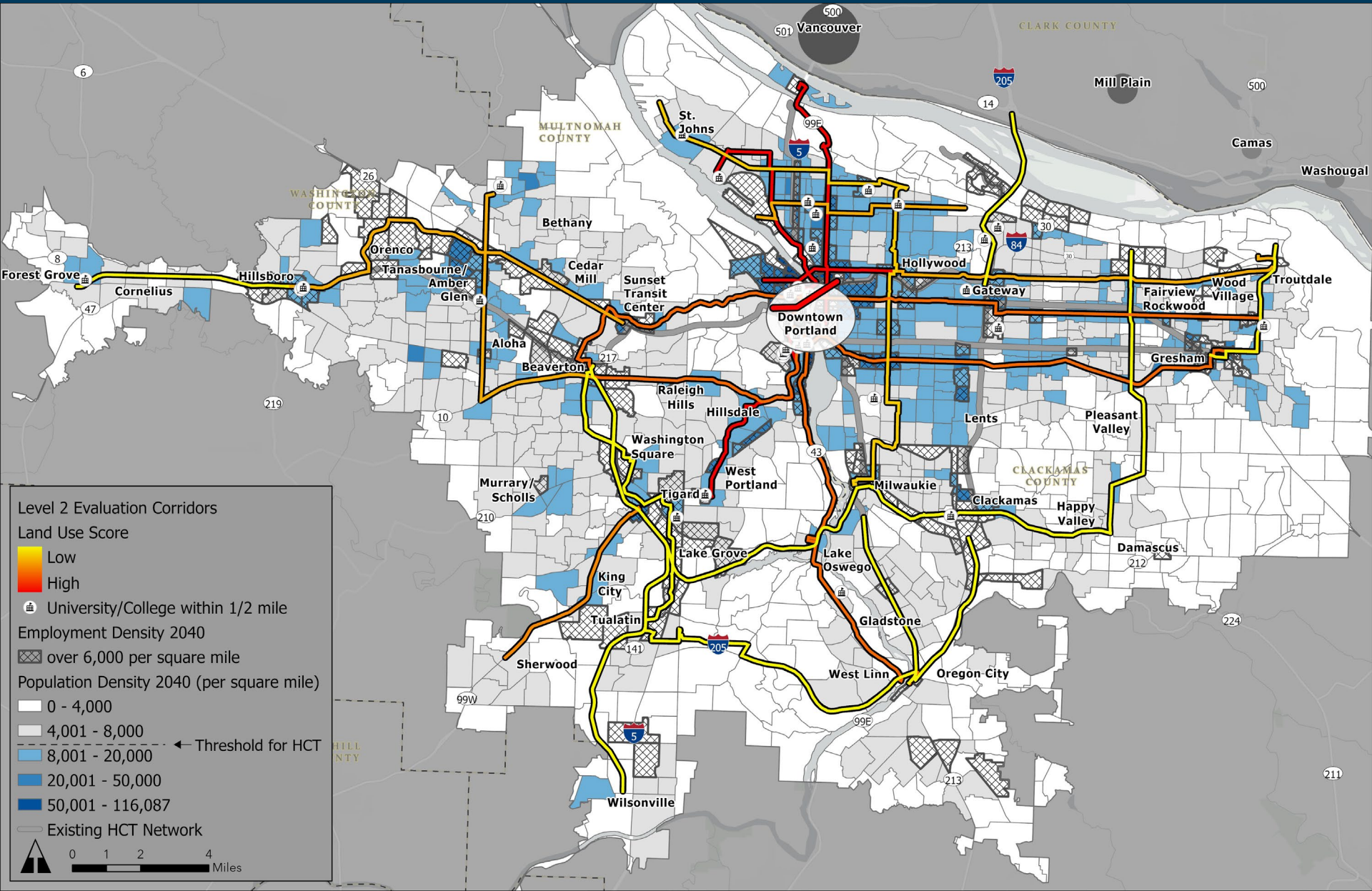
L2 Evaluation Corridor Ranking



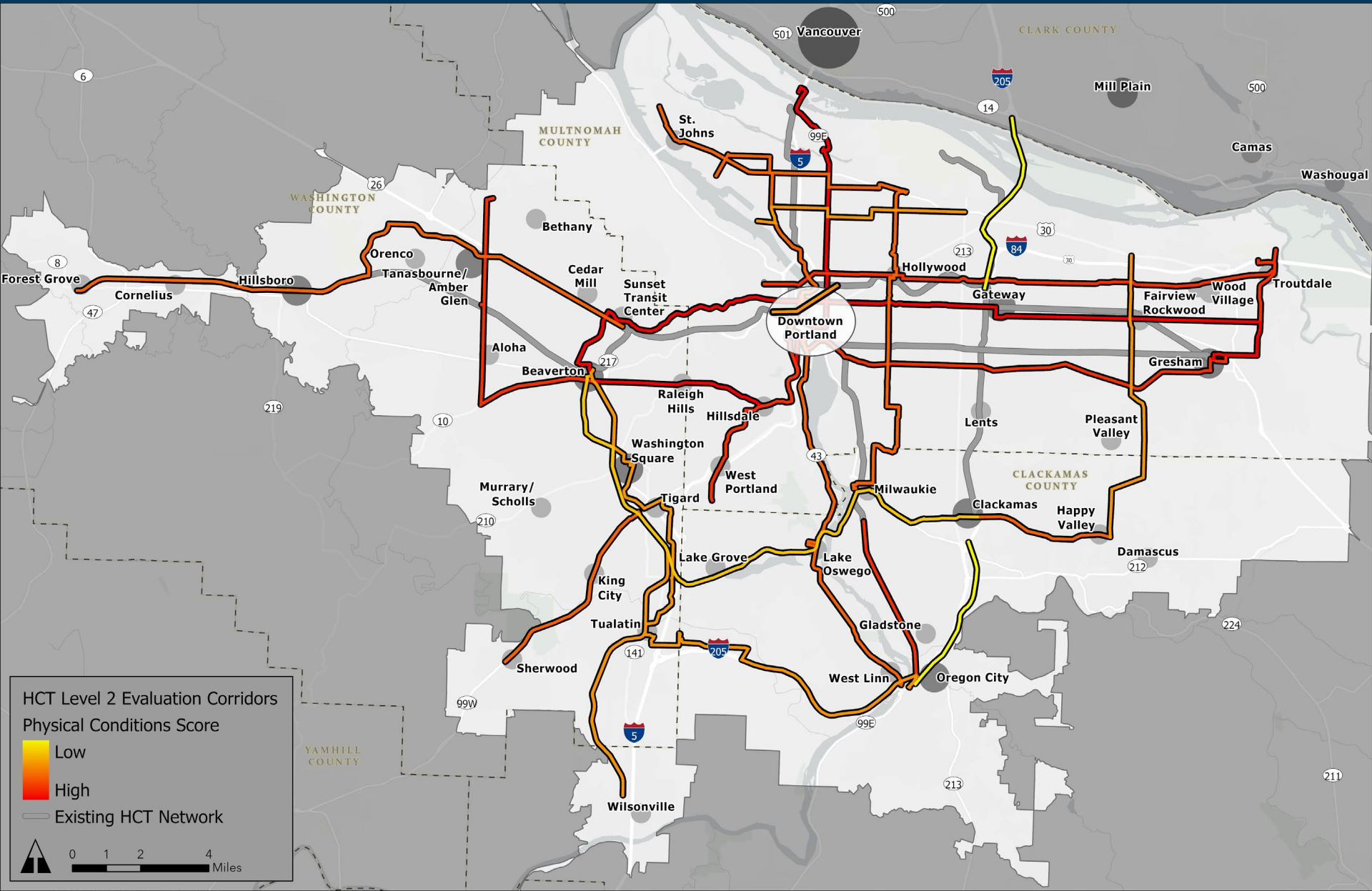
L2 Evaluation Corridor Ranking



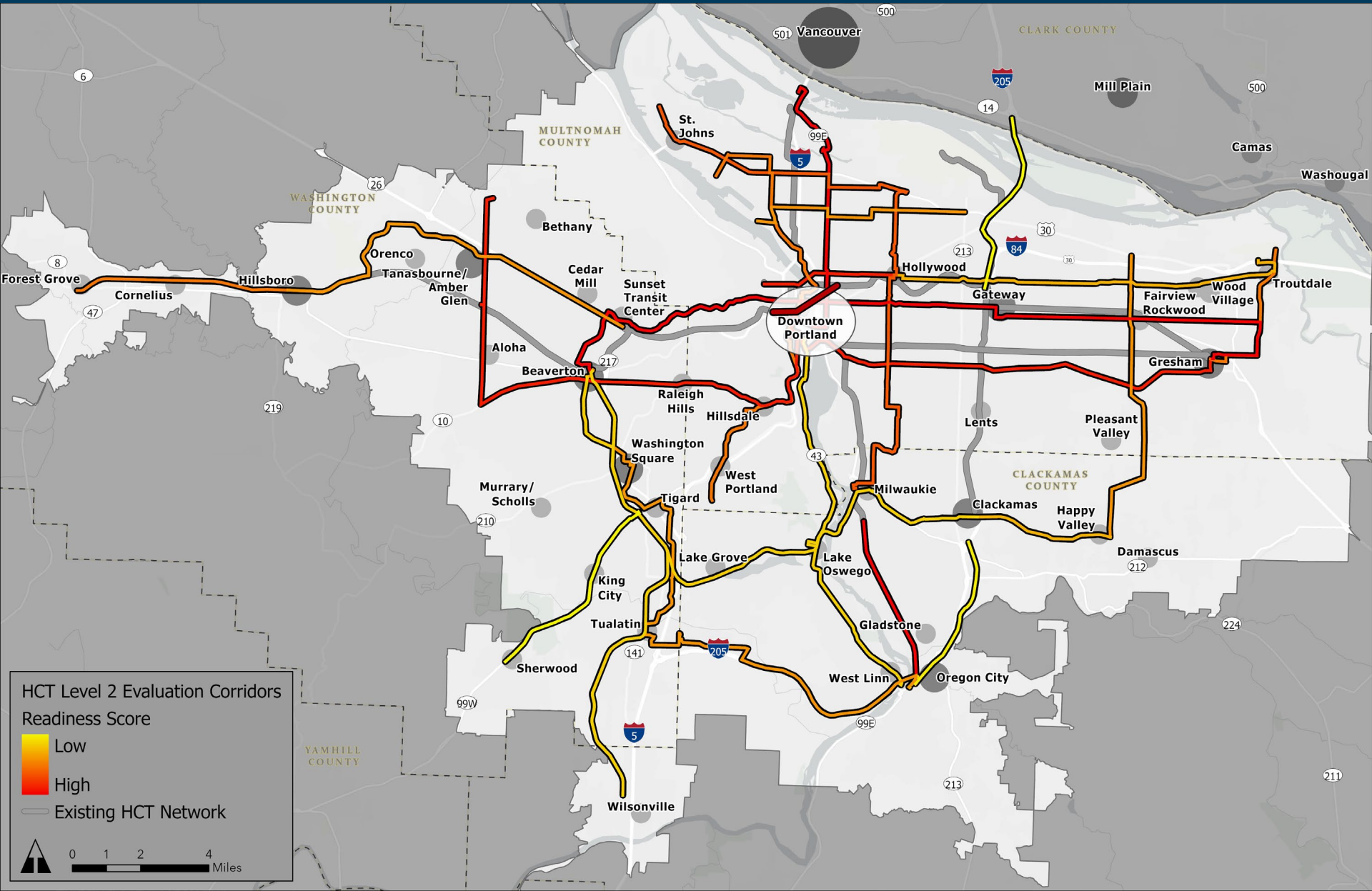
Land Use Readiness Screening



Physical Conditions



Readiness Corridor Ranking



Metro High Capacity Transit Strategy and Regional Transportation Plan Transit Update

HCT Policy Framework – Regional Transit Network Policy Review

December 2022 - **DRAFT**

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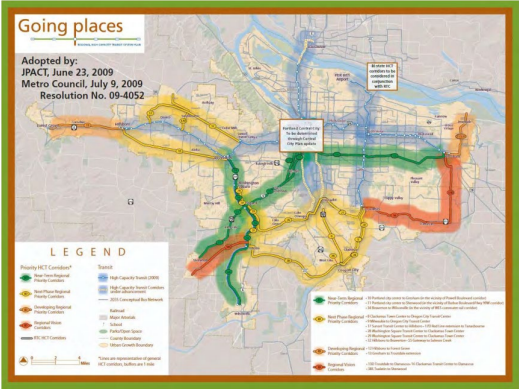
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METRO HCT POLICY FRAMEWORK - REGIONAL TRANSIT NETWORK POLICY REVIEW

INTRODUCTION

In 2009, Metro adopted the first 30-year Regional High Capacity Transit (HCT) System Plan that guided investments in light rail, commuter rail, bus rapid transit and rapid streetcar in the Portland metropolitan region. The 2009 HCT Plan identified and ranked 16 corridors into four priority tiers using a multi-phase evaluation process and created the System Expansion Policy (SEP) framework for prioritizing future system expansion. The SEP framework is a process agreed to by Metro and local jurisdictions to advance high capacity transit projects as a regional priority. The framework:



- Identifies which corridors should move into the federal project development process
- Establishes a process for other corridors to advance toward development
- Measures a corridor’s readiness for investment using targets such as transit supportive land use policies, ridership development plans, community support and financial feasibility.

In 2018 as part of the Regional Transportation Plan (RTP) update, the Regional Transit Strategy (RTS) was also updated and provided the following definition of HCT:

Our high capacity transit (HCT) system operates with the majority or all of the service in exclusive guideway. The high capacity transit system is meant to connect to regional centers and carry more transit riders than the local, regional and frequent service transit lines. HCT could include rapid streetcar, corridor-based bus rapid transit, bus rapid transit, light rail or commuter rail.

The 2018 RTS also revised the SEP with a streamlined set of HCT Assessment and Readiness Criteria and updated the corridors included on the Regional Transit Network map. Finally, the 2018 RTS introduced the Enhanced Transit Concept (ETC), which improves transit speed and reliability on the

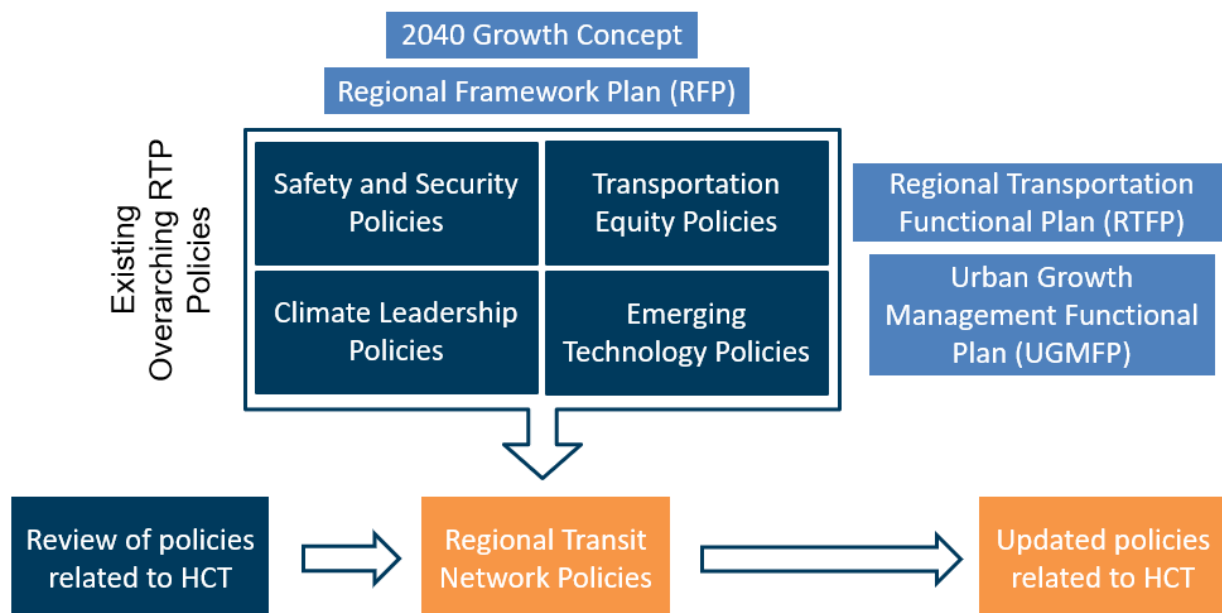
most congested existing and planned frequent service bus or streetcar lines. ETC is now known as “Better Bus.”

As part of the 2023 Regional Transportation Plan update, **this HCT Policy Framework memo** provides an important first step in updating the Regional High Capacity Transit Strategy, a component of the Regional Transit Strategy. This memo focuses on a review of local, regional, state and federal policies as they relate to High Capacity Transit and suggests policy updates to reflect the region’s current and future priorities and desired outcomes related to Equity, Safety, Climate and Mobility. To provide context and guidance as part of this policy review, this memo also identifies emerging trends impacting HCT and provides key takeaways from peer regions throughout the country. The suggested policy updates at the end of this memo will ultimately inform the evaluation criteria used to prioritize HCT corridors that will be included in the 2023 RTP update.

This memo focuses on reviewing and updating the existing transit-specific policies included in the Regional Transit Network, which will be an element of the 2023 Regional Transportation Plan. The 2023 RTP update continues to support the **2040 Growth Concept**, the region’s long-range land use and transportation plan for managing growth, and the **Regional Framework Plan (RFP)** identifies regional policies to implement the 2040 Growth Concept. As part of Metro’s code, two functional plans – the **Regional Transportation Functional Plan (RTFP)** and **Urban Growth Management Functional Plan (UGMFP)** – provide additional guidance to local jurisdictions to implement the policies in the RTP.

In addition to the transit-specific policies included as part of the Regional Transit Network, the RTP includes four overarching system policies related to **safety and security, transportation equity, climate leadership, and emerging technologies**. These policies will guide all other policies included in the RTP, including for High Capacity Transit. The relationship of each of the foundational plans that helped frame this policy review is summarized in **Figure 1** below.

Figure 1 Regional Transit Network Policies in Relation to the RTP and Other Metro Plans



The HCT Policy Framework memo is organized into the following sections:

- Existing Regional Transit Network Policies
- Regional, State, and Federal plans and policy review
- Local plans and policies related to HCT
- Current issues and trends, identified through regional, state, or federal plans or initiatives
- Long-range plans and policies in peer regions
- Other key issues and trends impacting transit infrastructure and investments

This memo concludes with suggested updates to the definition of HCT and considerations for updating and expanding the eight existing Regional Transit Network policies as they relate to HCT.

PLAN AND POLICY REVIEW

Existing Regional Transit Network Policies

This section provides a brief assessment of the existing RTP Regional Transit Network policies. **Figure 2** identifies:

- **A proposed “Headline” for each policy** that succinctly communicates the theme addressed.
- **Each policy’s relationship to 2023 RTP priority outcomes**, which include Equity, Safety, Climate, and Mobility.¹
- **Each policy’s relationship to HCT**. The relationships are identified in one of three ways:
 - **Foundational to Role** of HCT in the region and the definition of HCT (Policy 4).
 - **Directs Investments** by directly influencing key evaluation/readiness measure(s) used for HCT decision making.
 - **Influences Outcomes** of HCT system investments.

Examples for how the policies were determined to relate to HCT include:

- Policy 1 can direct HCT investments to address disparities such as travel time for equity priority communities, through the criteria used to prioritize potential HCT projects. Policy 1 can also influence the outcomes of HCT projects through assessing displacement risk and putting into place partnerships and policies to prevent displacement.
- Policy 6 is not identified as directing HCT investments – using existing quality of the pedestrian and bicycling environment to prioritize investments may exclude projects that could help advance improvements. However, Policy 6 can influence HCT outcomes through improvements to walking and biking access around HCT stations in advance of or as part of a project.

¹ Metro, 2023 Regional Transportation Plan Update Work Plan, May 2022

Based on this assessment of existing Regional Transit Network policies, those that are most directly relevant to identifying and prioritizing HCT investments – and thus the focus of this memo – include:

- Policy 1: **System Quality and Equity**
- Policy 2: **Maintenance and Resiliency**
- Policy 3: **Coverage and Frequency**
- Policy 4: **High Capacity Transit**

The following two Regional Transit Network policies influence outcomes but are not foundational to the role of HCT nor direct investments:

- Policy 5: **Intercity and Inter-Regional Transit**
- Policy 6: **Access to Transit**

Finally, the last two policies are important to the overall transit network but are neither foundational to the role of HCT, direct investments, nor influence overall outcomes:

- Policy 7: **Mobility Technology**
- Policy 8: **Affordability**

Figure 2 Existing Regional Transit Policies and Relationship to 2023 RTP Outcomes and to HCT

| Existing Regional Transit Network Policy (2018 RTP) | Proposed Policy Headline(s) | 2023 RTP Outcomes | Relationship to HCT |
|---|------------------------------------|--|---|
| Policy 1: Provide a seamless, integrated, affordable, safe and accessible transit network that serves people equitably, particularly communities of color and other historically marginalized communities, and people who depend on transit or lack travel options. | Service Quality and Equity | <input checked="" type="checkbox"/> Equity <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes |
| Policy 2: Preserve and maintain the region’s transit infrastructure in a manner that improves safety, security and resiliency while minimizing life-cycle cost and impact on the environment. | Maintenance and Resiliency | <input type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input type="checkbox"/> Influences Outcomes |
| Policy 3: Make transit more reliable and frequent by expanding regional and local frequent service transit and improving local service transit options. | Coverage and Frequency* | <input type="checkbox"/> Equity <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes |
| Policy 4: Make transit more convenient by expanding high capacity transit; improving transit speed and reliability through the regional enhanced transit concept. | High Capacity Transit | <input type="checkbox"/> Equity <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input checked="" type="checkbox"/> Foundational to Role <input type="checkbox"/> Directs Investments <input type="checkbox"/> Influences Outcomes |
| Policy 5: Evaluate and support expanded commuter rail and intercity transit service to neighboring communities and other destinations outside the region. | Intercity / Inter-Regional Transit | <input type="checkbox"/> Equity <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes |
| Policy 6: Make transit more accessible by improving pedestrian and bicycle access to and bicycle parking at transit stops and stations and using new mobility services to improve connections to high-frequency transit when walking, bicycling or local bus service is not an option. | Access to Transit | <input type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes |
| Policy 7: Use technology to provide better, more efficient transit service – focusing on meeting the needs of people for whom conventional transit is not an option. | Mobility Technology | <input checked="" type="checkbox"/> Equity <input type="checkbox"/> Safety <input type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input type="checkbox"/> Directs Investments <input type="checkbox"/> Influences Outcomes |
| Policy 8: Ensure that transit is affordable, especially for people who depend on transit. | Affordability | <input checked="" type="checkbox"/> Equity <input type="checkbox"/> Safety <input type="checkbox"/> Climate <input type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input type="checkbox"/> Directs Investments <input type="checkbox"/> Influences Outcomes |

Note: * A proposed change in policies would create a new policy around reliability

Regional, State, and Federal Plans and Policies Related to HCT

This section identifies regional and statewide plans relevant to the HCT Policy Framework for the region. Similar to the previous section, each applicable policy in these plans is categorized by the Metro RTP outcomes (Equity, Safety, Climate, and Mobility) and its relationship to high capacity transit (HCT).

Other state or federal plans or initiatives that are relevant to the region’s HCT Policy Framework were reviewed but were not included in the plan and policy review table:

- **Regional High Capacity Transit System Plan (2009).** This is the previous HCT plan for the Portland region, which is being updated through this effort, and is assumed to be reflected in more recent documents such as the Regional Transit Strategy (RTS).
- **Climate-Friendly and Equitable Communities (CFEC) Rulemaking (Ongoing).** Rulemaking by the Department of Land Conservation and Development (DLCD) to strengthen transportation and land use planning for regions including the Portland Metro area; key outcomes including equity, climate, and housing will be addressed in the issues/trends section.
- **USDOT Equity and Justice40 in Transportation Planning.** Federal initiative to address racial equity and climate priorities, including delivering 40% of federal investments to disadvantaged communities; will be addressed in the issues/trends section.

Figure 3 Regional, State, Federal Plan Hierarchy and Policy Summary

| Plan | 2023 RTP Outcomes | Relationship to HCT | Considerations for Updating Regional Transit Network Policies (Foundational Considerations Bolded) |
|--|---|--|---|
| Portland Metro Transportation System Management and Operations Strategy | <input checked="" type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input checked="" type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Harm reduction ▪ Alleviating transportation system disparities ▪ Connecting people to goods, services, and places ▪ Equitable transit reliability improvements ▪ Transit system resiliency |
| Portland Metro and ODOT Regional Mobility Policy Update | <input checked="" type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input checked="" type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Land use and transit decision-making efficiency in movement of people and goods ▪ Seamless, well-connected, low-carbon, convenient, and affordable mode share ▪ Transit system travel predictability and travel time reasonableness ▪ Safe and comfortable mode share; equitable mobility experiences among Black, Indigenous, and People of Color (BIPOC) communities and people with low incomes, youth, older adults, and people living with disabilities |
| Portland Metro Regional Freight Strategy | <input type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Coordinating for seamless movement and better access, with less conflict with transit ▪ Delay reduction, with increases in reliability and improvements in safety, for reliable transit planning ▪ Integrating issues with planning and communicating movement issues ▪ Eliminating traffic fatalities and serious injuries caused with other modes |
| Portland Metro Regional Transportation Safety Strategy | <input checked="" type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input type="checkbox"/> Climate <input type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Achieve Vision Zero goals using transit as a safety mechanism ▪ Safety investments to reduce speeds and speeding at high-risk areas, increase security, and reduce crime, with prioritization of vulnerable communities ▪ Equitable safety investments to benefit people with higher crash risk, such as vulnerable communities ▪ Safety increases across modes through planning, designing, constructing, operating, and maintaining the transit system with focus on speed reduction ▪ Avoidance of repeating and/or exacerbating safety issues ▪ Consideration of safety as an adequacy metric. |
| Portland Metro Emerging Technology Strategy | <input checked="" type="checkbox"/> Equity <input type="checkbox"/> Safety <input type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Accessibility, availability, and affordability of new technologies to progress equity ▪ Usage of new technologies to improve transit, providing shared modes regionwide, and supporting transit, biking, and walking ▪ Empowering travelers with data for planning, decision-making, and managing transit ▪ Advancing public interest by preparing for, learning from, and adapting to new technological developments |

High Capacity Transit Strategy Update | Policy Framework – Regional Transit Network Policy Review - DRAFT

Portland Metro

| Plan | 2023 RTP Outcomes | Relationship to HCT | Considerations for Updating Regional Transit Network Policies (Foundational Considerations Bolded) |
|--|---|---|--|
| Portland Metro Strategic Plan to Advance Racial Equity, Diversity and Inclusion (Racial Equity Framework) | <input checked="" type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input type="checkbox"/> Climate <input type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Engaging communities of color ▪ Hiring, training, and promoting a racially diverse workforce ▪ Creating safe, welcoming services, programs, and destinations ▪ Allocating resources to advance racial equity |
| Portland Metro Climate Smart Strategy | <input type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input checked="" type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Making transit convenient, accessible, and affordable ▪ Making walking and biking safe and convenient ▪ Making streets safe, reliable, and connected ▪ Using technology to manage transit ▪ Providing information and incentives to increase mode share ▪ Securing funding for transit |
| Portland Metro Regional Active Transportation Plan | <input checked="" type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Making walking and biking the most convenient, safe, and preferable choices for trips less than three miles ▪ Developing well-connected regional pedestrian and bicycle routes integrated with transit to prioritize safe, convenient, accessible, comfortable pedestrian and bicycle access for all ages and abilities ▪ Ensuring that regional transit and active transportation intersections equitably serve all people ▪ Complete the regional active pedestrian and bicycle networks where transit transfers are common ▪ Use data and analyses to guide transit and active transportation investments |

High Capacity Transit Strategy Update | Policy Framework – Regional Transit Network Policy Review - DRAFT

Portland Metro

| Plan | 2023 RTP Outcomes | Relationship to HCT | Considerations for Updating Regional Transit Network Policies (Foundational Considerations Bolded) |
|---|---|---|---|
| ODOT Strategic Action Plan 2021-2023 | <input checked="" type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Supporting equitable operations and policies and establishing an informed and inclusive culture ▪ Promoting opportunities through transit investments, such as by working with BIPOC communities, women, and other historically and/or are currently marginalized communities ▪ Utilizing the perspectives of people who reside in communities served by Metro and who are likely to be affected by Metro decision-making ▪ Investing in the protection of vulnerable communities from environmental hazards ▪ Preserving, maintaining, and operating a multimodal transportation system and achieving a cleaner environment ▪ Ensuring the safety of transit riders and operators ▪ Providing greater transit access and broader range of mobility options while addressing climate change ▪ Investing in transit as a mechanism to manage and reduce congestion ▪ Enhancing multimodal options ▪ Implementing road usage charging to ensure revenue to maintain and improve the transit system and manage congestion |
| ODOT Climate Action Plan 2021-2026 | <input type="checkbox"/> Equity <input checked="" type="checkbox"/> Safety <input checked="" type="checkbox"/> Climate <input checked="" type="checkbox"/> Mobility | <input type="checkbox"/> Foundational to Role <input checked="" type="checkbox"/> Directs Investments <input checked="" type="checkbox"/> Influences Outcomes | <ul style="list-style-type: none"> ▪ Integrating climate change and emissions reductions considerations in policy and investment frameworks ▪ Providing transit options to manage demand and reduce congestion ▪ Transitioning to an efficient transit fleet, supporting adoption of alternative fuels ▪ Maintaining and operating transit and recovering from climate impacts by using sustainable funding ▪ Increasing efficiency through investments in safety, and operations practices ▪ Utilizing sustainable products and fuels ▪ Reducing energy consumption, and reducing Metro’s carbon footprint |

Local Plans and Policies Related to HCT

In addition to reviewing regional, state, and federal plans and policies, relevant plans from or related to Metro area cities and/or counties were reviewed at a high level to document any policies that should be considered as part of the HCT Policy Framework. As shown in **Figure 4**, these plans included local transportation system plans (TSPs), comprehensive plans, or transit development/master plans (TDPs/TMPs), or HCT-specific plans, including the Clark County/CTTRAN High Capacity Transit System Plan.

Specific plans that have recently been completed (or are currently underway) that relate to HCT and/or ETC include:

- Clackamas County completed its TDP in 2021.
- Washington County is conducting a Transit Study (completion anticipated in 2023), which will integrate the County's recent TDPs and shuttle planning study.
- The City of Portland developed the Rose Lane Vision in 2020 and the Enhanced Transit Corridors Plan in 2018, which are advancing projects to provide bus and streetcar lines with additional transit priority and help achieve the City's climate and transportation justice goals.
- TriMet is conducting the Forward Together Comprehensive Service Analysis, which will recommend a revised bus network concept to reflect shifts in ridership and travel demand that have occurred since the COVID-19 pandemic. TriMet also completed an Express and Limited Stop Bus Study (2021) to identify where these services could improve ridership and access to jobs, including for equity priority populations. These studies will shape the agency's FY2023 Service Plan.
- TriMet is also completing its first FX (Frequent Express) line in the Division Street corridor; Metro, TriMet, and the City of Portland are working on planning for the 82nd Avenue corridor; and TriMet is leading the Tualatin Valley (TV) Highway BRT Study, connecting Beaverton, Hillsboro, and Forest Grove, where TriMet's Line 57 operates today.
- The Southwest Corridor project, connecting downtown Portland with SW Portland, Tigard and Tualatin, has a Locally Preferred Alternative and Record of Decision from the FTA.
- Metro and TriMet are continuing the ETC program, now known as Better Bus, to improve transit speed and reliability across the region. Where the previous implementation of this program focused on the most congested locations on the system with the highest ridership, the next phase will look at other locations across the region to improve bus operations.

Outside of the TriMet service district:

- The Interstate Bridge Replacement's Locally Preferred Alternative recommends a MAX Yellow Line extension from Expo Center across the Interstate Bridge to Evergreen in Vancouver, connecting to C-TRAN's Vine Bus Rapid Transit system.
- The City of Wilsonville (SMART) is updating its TMP (completion anticipated in 2023).

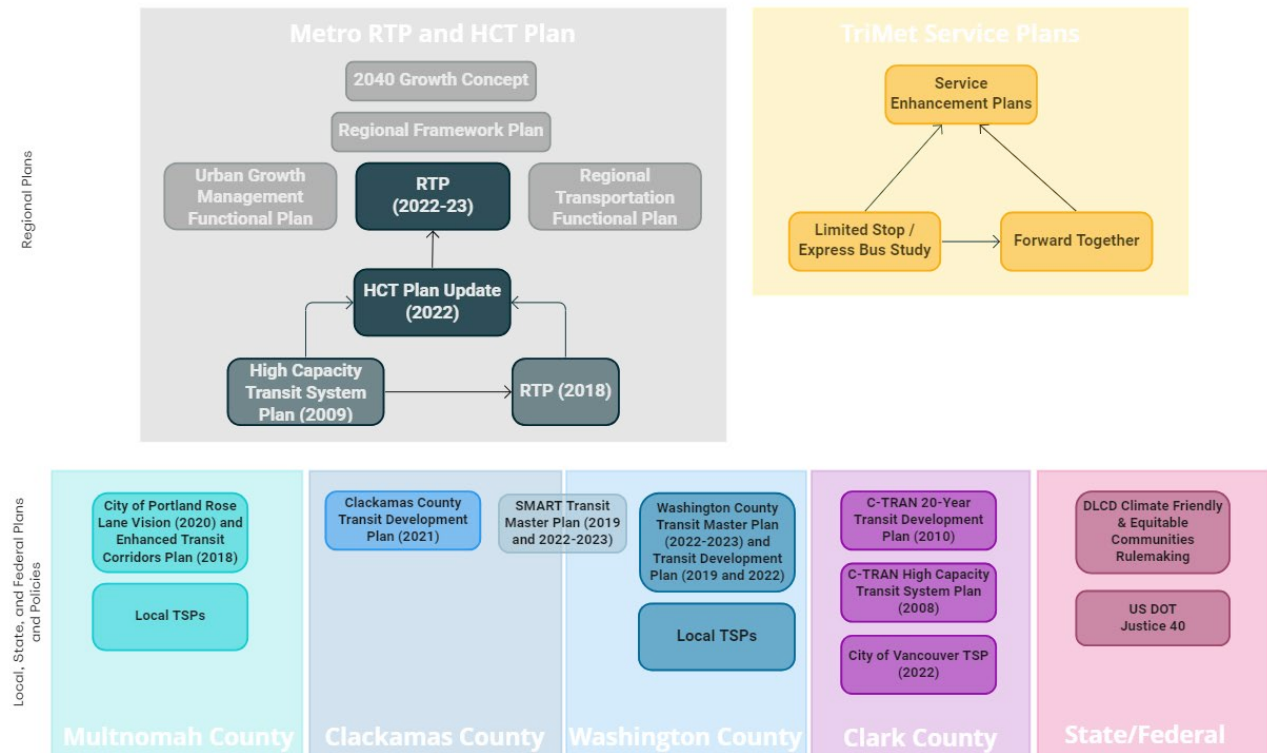
- The Clark County (C-TRAN) High Capacity Transit System Plan was completed in 2008; a TSP update for the City of Vancouver, which includes Enhanced Transit Corridors, is underway (completion anticipated in late 2022).
- C-TRAN has also completed development of several BRT corridors in recent years and others are in the planning stages.

As noted above, the Department of Land Conservation and Development (DLCD) has been conducting Climate-Friendly and Equitable Communities (CFEC) [rulemaking, filed on August 22, 2022](#), to help local governments revise plans to reduce greenhouse gas emissions. Similarly, the US DOT has undertaken the Justice 40 initiative with a goal of delivering 40% of the overall benefits of federal investments in climate and clean energy, including sustainable transportation, to disadvantaged communities.

In addition to informing the HCT policy framework, these plans and studies can also be consulted to validate the universe of potential HCT projects considered in the HCT Plan update as well as inform criteria used in the evaluation.

Figure 4 Regional Plan Hierarchy and Policy Summary

Local, State, and Federal Plans informing the Regional HCT Plan



RTP = Regional Transportation Plan, TDP = Transit Development Plan, TSP = Transportation System Plan

Review of Plans and Policies from Peer Regions or other Agencies

This section includes a high-level review of long-range planning documents from peer regions. The purpose of the peer review is to inform the HCT Policy Framework, but key findings from the peer review could also be utilized in other dimensions of the HCT Plan and/or RTP updates, such as the development of corridor evaluation criteria.

Peer Identification

Key criteria for selecting the peer regions or agencies included:

- Preference for plans/policies developed after 2020 that address current issues and trends such as recovery from the COVID-19 pandemic.
- Identify high capacity transit in their goals and policies.
- Include/address multiple HCT modes (e.g., rail and bus).
- Potential HCT lessons learned related to RTP investment priorities (safety, equity, climate and mobility).
- Geographic distribution.

Thirteen regions were identified in **Figure 5** below (See also **Figure A-1 in Appendix A** for more detail). These were narrowed to seven for high-level consideration and the project team then focused on four peers for more detailed review.

Figure 5 Selected Peers

| Region | Agency | Document | Year Published | HCT Modes |
|----------------------|--|---|----------------|---|
| Seattle | Puget Sound Regional Council (PSRC), and/or Sound Transit (ST) | Regional Transportation Plan (2022-2050) | 2021 | Link and RapidRide |
| | King County Metro | Metro Connects Long-Range Plan | | |
| San Francisco | Metropolitan Transportation Commission (MTC) and/or SFMTA/ConnectSF | Plan Bay Area 2050 | 2021 | BART, LRT (e.g., Muni Metro), BRT and RapidBus (e.g., Muni Rapid) |
| Los Angeles | LA County MTA (Metro) | Long Range Transportation Plan | 2020 | BRT and LRT |
| Minneapolis-St. Paul | Metropolitan Council | Transportation Policy Plan | 2020 | LRT and BRT |
| Austin | Capital Area MPO (CAMPO) | 2045 Transportation Plan (and Regional Transit Study) | 2020 | LRT MetroRail) and BRT (MetroRapid) |
| Boston | Metropolitan Area Planning Council (MAPC), Massachusetts Bay Transportation Authority (MBTA), The Greater Boston BRT Study Group | MetroCommon 2050 Better Rapid Transit for Greater Boston Focus40 | 2015-2021 | BRT (Silver Line and additional prioritized corridors) and LRT and Heavy Rail (Commuter Rail, Blue, Green, Orange, and Red Lines) |
| Philadelphia | Delaware Valley Regional Planning Commission | Connections 2050 StoryMap Policy Manual Process and Analysis Manual Major Regional Projects | 2021 | BRT, Streetcar, LRT, Heavy Rail, High-Speed Rail |
| | City of Philadelphia, Southeastern Pennsylvania Transportation Authority | The Philadelphia Transit Plan | | |

Summary of Common Themes and Key Takeaways

Common themes and notable examples from the peer review are summarized below, organized by the four RTP priority outcomes. Examples include cases where policy shifts had a clear impact of prioritization criteria and plan outcomes.

- **Equity considerations for vulnerable communities and transit riders**
 - All peer regions have goals or objectives regarding the transit needs of women, people of color, people with low incomes, or people experiencing houselessness.
 - Direct feedback from community groups representing vulnerable populations (such as the Equity Cabinet for King County Metro) was critical in identifying specific policy areas to address in plan updates.
 - Many regions are also addressing affordability, such as through implementation of a means-based fare for low-income transit riders in the Boston region, funded with legislative support for consistent funding for operations.
 - All regions address how equity can be achieved by transit investments for priority communities, such as how communities access transit and destinations via transit.
 - In the City of San Francisco’s ConnectSF program, the pandemic refocused investment priorities on serving essential trips citywide, including through quick-build capital improvements to maximize scarce resources. Model-based criteria used to prioritize investments (including access to jobs and services, ridership, cost-effectiveness, and travel time) looked at both equity priority communities and at low-income households earning below 200% of the federal poverty level, in addition to overall performance citywide.
- **State of good repair and safety / HCT system maintenance and reliability**
 - All regions seek to achieve safety goals in terms of how people wait for, access, or experience transit, some with a focus on Vision Zero targets systemwide.
 - 6 of 7 regions emphasize the need for transit infrastructure maintenance, preservation, reliability, or lifecycle expansion.
 - Prioritizing equity outcomes in the greater Philadelphia region included universal design and user experience, such as implementation of full ADA access, all-door boarding, safer and cleaner services, and better amenities at stops and for passengers.
- **System-level climate goals or objectives**
 - All regions specify climate goals or objectives that are part of other climate-related goals, such as stewardship or safety. Five regions prioritize a net-zero emissions transit fleet, such as procuring battery-electric buses and implementation of associated charging infrastructure, with a policy goal to achieve procuring 100% renewable electricity.

- All regions prioritize VMT reduction goals, with Los Angeles and Philadelphia introducing concepts for VMT fees to generate revenue for transit investments and lower the dependence on the federal gas tax.
- The urgency of addressing climate change was an impetus and key message around prioritizing transit improvements and related programs and initiatives, to attract additional trips to transit and other sustainable modes. For example, greater Boston has a goal to achieve a net-zero carbon region, which has an objective that all land travel is by carbon-free modes, such as walking, biking, and electrified public transit
- **Quality of service and mobility improvements for bus or rail**
 - All regions are pursuing bus or rail expansions or infrastructure improvements; for example, Seattle, Los Angeles, Boston, and greater Philadelphia have specific HCT and ETC enhancement goals, such as increasing the capacity of the transit fleet for new and existing services, expanding the HCT network to meet and respond to changing needs, or adding bus lanes and other features to speed up service and eliminate delay.
 - All regions emphasize the importance of transit and transportation system integration to expand travel choices and mode share; enhance local and regional transit connectivity; or improve transit frequencies, operations, or safety.

Peer Review Details

Please see **Appendix A** for additional peer review details.

Additional Key Issues and Trends

In addition to exploring how peer regions have structured their long-range transportation plans focused on HCT, it is important to note that several recent issues and trends have emerged over the past five years that are directly impacting local, state, and federal transportation policies. Metro and TriMet have recently summarized some of these issues and trends in separate but related memos: Metro Emerging Trends and TriMet Forward Together Emerging Trends. In addition, very recent policies related to climate change and the economy continue to shape how regions will adapt their transportation policies in the coming years.

The following is a summary of these issues and trends that were considered when conducting the HCT Policy Framework analysis:

- Transit service and ridership declines, including the decrease in peak commute demand
- Inequities and social justice
- Sustained reliance or preference for remote work
- Continued expansion of e-commerce
- Continued advancements in vehicle electrification (EVs and e-bikes)
- Issues with personal safety, especially for BIPOC riders
- Increases in severe and fatal crashes
- Increases in recreational cycling
- Challenges associated with agency recovery and innovation
- Continued gentrification and affordability issues, including people experiencing houselessness
- Inflation and increases in fuel prices
- Staffing shortages across many industries, including transit

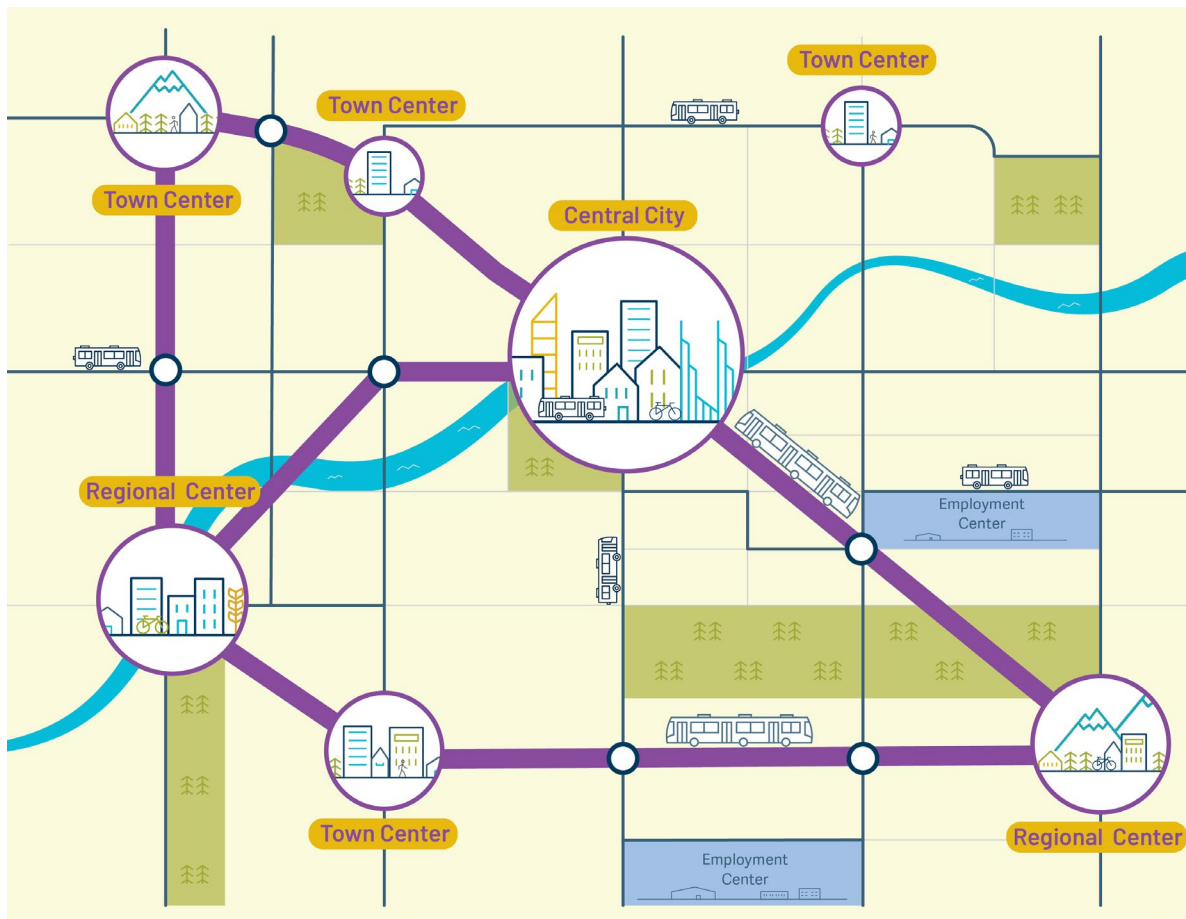
HCT DEFINITION AND POLICY GAP ANALYSIS

The HCT Policy Framework Analysis concludes with considerations for how High Capacity Transit is defined in our region as well as considerations for updating the eight Regional Transit Network policies. This analysis considers not only the review of local, regional, state, and federal policies, but also key findings from the peer regions, as discussed above.

High Capacity Transit Definition Considerations

The 2040 Growth Concept sets forth a vision for connecting the central city to regional centers like Gresham, Clackamas, and Hillsboro with fast and reliable high capacity transit (HCT), helping the region concentrate development and growth in its centers and corridors. High capacity transit carries high volumes of passengers quickly and efficiently, and serves a regional travel market with relatively long trip lengths to provide a viable alternative to the automobile in terms of convenience and travel time.

Figure 6 Regional Transit Network Concept

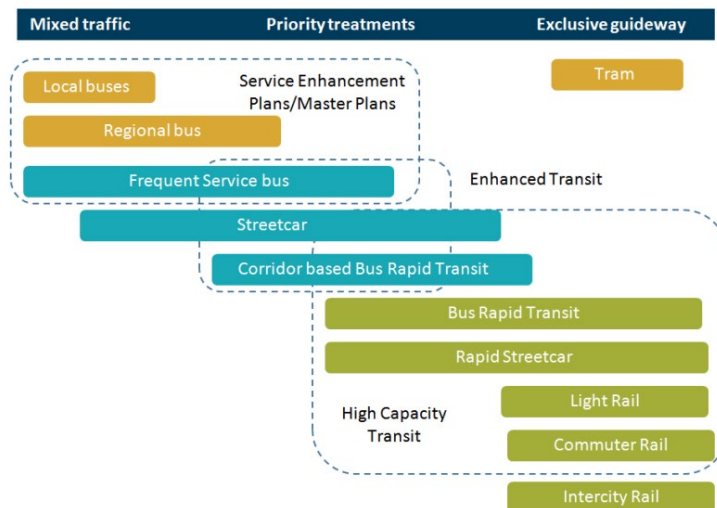


High capacity transit is defined in multiple places in the 2018 Regional Transportation Plan, including in the System Policies chapter (pages 3-77, 3-88), in Glossary of Terms (page G-4), and in the multiple sections of the separate Regional Transit Strategy. While there are minor differences in how HCT is defined, the following introductory paragraph is perhaps the most direct at defining HCT (from page 4-10 of the Regional Transit Strategy):

“Our high capacity transit (HCT) system operates with the majority or all of the service in exclusive guideway. The high capacity transit system is meant to connect to regional centers and carry more transit riders than the local, regional and frequent service transit lines. HCT could include rapid streetcar, corridor-based bus rapid transit, bus rapid transit, light rail or commuter rail.”

As illustrated in the following graphic (from page 4-6 of the Regional Transit Strategy), there is also some overlap between

Enhanced Transit and HCT, where some streetcar or corridor-based Bus Rapid Transit applications could be considered either High Capacity Transit or Enhanced Transit. Other modes, including Commuter Rail, Light Rail, Rapid Streetcar and Bus Rapid Transit are exclusively defined as HCT. It is important to note that the term “corridor-based Bus Rapid Transit” is not fully defined in the 2018 RTP.



To clarify how we define High Capacity Transit, the following considerations are offered for this update of the High Capacity Transit Strategy:

- Consider leading with the *purpose* of HCT in the regional transit network, and to integrate equity into the definition by emphasizing that it connects *people* to regional centers
- Consider stating that HCT is *high-quality transit* (i.e., fast, frequent, safe, and reliable) before its physical attributes (operating with the majority or all of the service in exclusive guideway)

The first half of the HCT definition in **blue** could be updated as follows:

“The high capacity transit system is meant to serve as the backbone of the transportation network, connect people to

regional centers and major town centers with high-quality service (fast, frequent, safe and reliable), and carry more transit riders more comfortably than the local, regional and frequent service transit lines. HCT operates in exclusive guideway, to the greatest extent possible, and could include light rail, commuter rail, rapid streetcar, streetcar, bus rapid transit, and corridor-based bus rapid transit”

The last half of the definition in **green** emphasizes that HCT provides the needed capacity to serve the region’s highest demand corridors with a variety of modes and levels of transit priority, ranging from light rail or BRT with “majority exclusive guideway” to corridor-based BRT or streetcar modes that have a mix of exclusive and shared right of way (such as the FX2-Division high capacity bus service).

Enhanced Transit Concept (ETC) / Better Bus

Another important part of defining High Capacity Transit and reviewing the Regional Transit Network policies related to HCT is clarifying the role of the Enhanced Transit Concept (ETC), now known as Better Bus. ETC was introduced in the 2018 Regional Transit Strategy and is defined as follows (from page 4-9 of the RTS):

The purpose of ETC is to improve transit speed and reliability on our most congested existing and planned frequent service bus or streetcar lines.

The RTP Glossary further clarifies that:

- “Enhanced transit is a set of street design, signal, and other improvements that improve transit capacity, reliability and travel time along major Frequent Service bus lines...” (RTS page G-9)
- “...Enhanced Transit encompasses a range of investments comprised of capital and operational treatments of moderate cost. It can be deployed relatively quickly in comparison to larger transit capital projects, such as building light rail.” (RTS page G-9)

While no changes to how ETC is defined are suggested, several policy considerations are provided to strengthen and clarify the role of ETC in the Regional Transit System.

Transit Mode Characteristics and Relationships to Land Use

The graphic below identifies the transit modes that are part of the regional transit system, including their general service quality characteristics, and the land use density that is typically appropriate to warrant a capital investment in building a HCT project. The graphic identifies the characteristics of regional transit modes (both HCT and other modes serving the region) and shows which modes fall into the high-capacity transit category. It includes:

- **Transit Modes:**
 - HCT Modes: Commuter Rail, Light Rail, BRT, Corridor-Based BRT (e.g., RapidBus), Rapid Streetcar, and Streetcar; Streetcar may be considered HCT depending on the context
 - Non-HCT Bus Modes: Frequent Bus, Regional Bus
 - Other modes:
 - Aerial Tram, Intercity Rail
 - Vanpool, microtransit, etc. are included as potential modes to be considered in the future Metro Access to Transit Study.
- **Transit Characteristics:**
 - Level of Transit Prioritization (e.g., Speed & Reliability), Frequency, Market Demand, Passenger Capacity, Transit Access Shed, Stop/Station Amenities, Capital Cost (per passenger), Operating Cost (per passenger)

The following graphic illustrates the essential characteristics of high-capacity transit that work together to provide high-quality connections around the region, consistent with the HCT definition and vision.

Figure 6 What is High Capacity Transit?

High Capacity Transit...

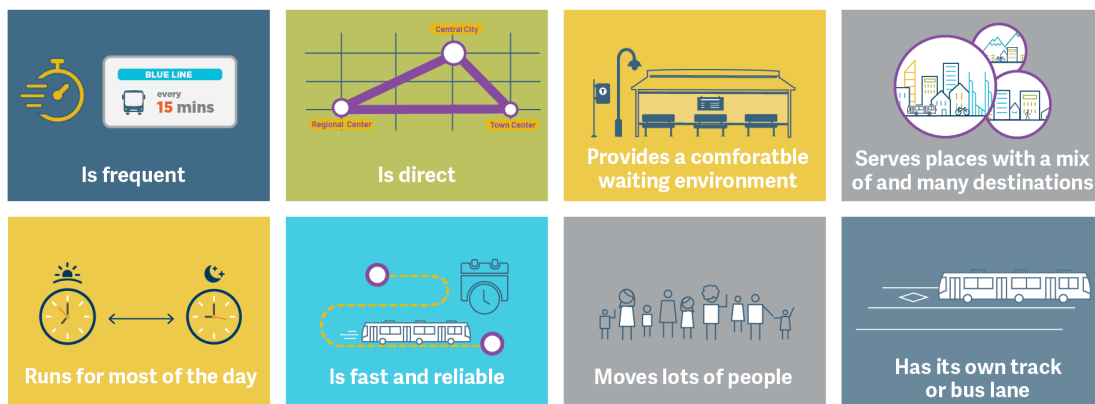
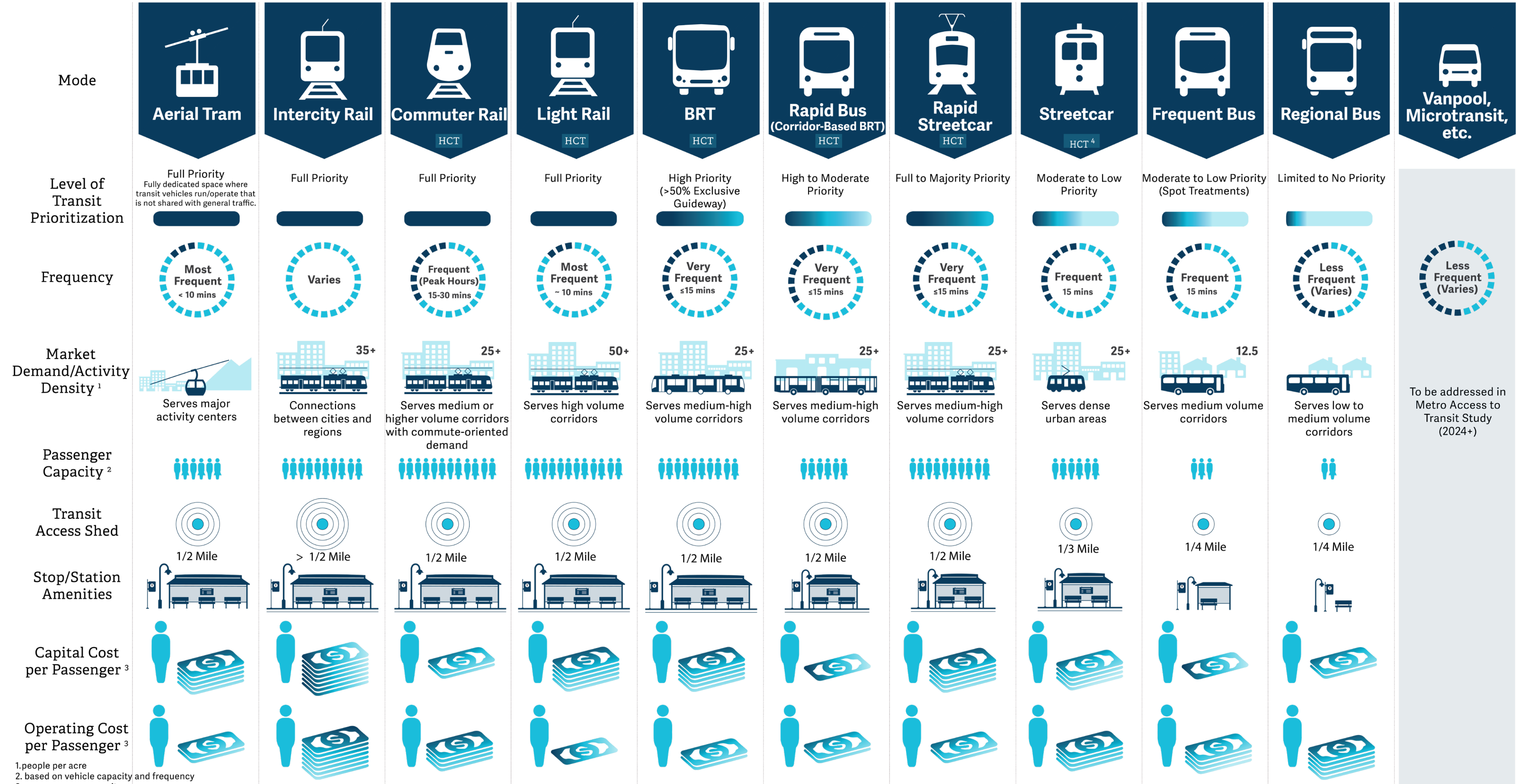


Figure 7 Characteristics of High-Capacity Transit



1. people per acre
2. based on vehicle capacity and frequency
3. per passenger capacity
4. depending on context

Regional Transit Network Policy Considerations

Based on the review of local, regional, state, and federal plans and policies, as well as the peer review and overview of key issues and trends, several areas have emerged as a focus of the Regional Transit Network policy updates:

- **System Quality and Equity.** Equity has long been a priority in making transportation planning decisions in the region and was one of the overarching policies included in the 2018 RTP. The 2023 RTP includes equity as one of the four desired outcomes and all network policies will be updated to further strengthen equity as a regional priority. The importance of dignified, high-quality service should also be emphasized to make transit work for everyone. As such, **Policy 1: Service Quality** is updated and clarified; **Policy 2: Equity** is updated and separated into a new policy.
- **Climate change.** While climate leadership is one of the overarching policies from the 2018 RTP, and one of the desired outcomes for the 2023 RTP update, there are no specific Regional Transit Network policies focused exclusively on sustainability and the environment. A new policy (**Policy 3: Climate Change**) is proposed focusing on how the Regional Transit Network should address climate change.
- **Maintenance and Resiliency.** Reliability is integrated into **Policy 4: Maintenance and Resiliency** to better integrate it as a key outcome of a system that is preserved and maintained in a state of good repair.
- **HCT and ETC.** The current **Policy 4: High Capacity Transit** (renumbered to Policy 5) includes both HCT and ETC in a single policy. To strengthen and clarify the role of both HCT and ETC in the regional transit network, creating **Policy 7: Reliable and Enhanced Transit** addresses the separate role of ETC as a tool for increasing reliability of the transit system.
- **Clear policy headlines.** All of the suggested modifications to the Regional Transit Network policies focus on a primary theme, so simple headlines are offered for each.

Figure 8 below lists each of the 2018 Regional Transit Network policies and provides suggested updates to the policies most related to high capacity transit.

Figure 8 Policy Framework Gap Analysis

| Existing # | Revised # | Proposed Headline | Existing Policy Text | Gaps / Considerations Addressed | Updated Policy Text Considerations |
|------------|-----------|-----------------------------------|--|--|---|
| 1 | 1 | System Quality | <i>Provide a seamless, integrated, affordable, safe and accessible transit network that serves people equitably, particularly communities of color and other historically marginalized communities, and people who depend on transit or lack travel options.</i> | <ul style="list-style-type: none"> Separated existing Policy 1 into two policies Aligned with overarching Transportation Equity Policy 3 Integrated quality of service into policy language | Provide a high-quality, safe, and accessible system that makes transit a convenient and comfortable transportation choice for everyone to use. |
| | 2 | Equity | | | Ensure that the regional transit network equitably prioritizes service to those who rely on transit or lack travel options; makes service, amenities, and access safe and secure; improves quality of life (e.g., air quality); and proactively supports stability of vulnerable communities, particularly communities of color and other historically marginalized communities. ² |
| N/A | 3 | Climate Change | N/A | <ul style="list-style-type: none"> Strengthen policies to focus on transit’s role in addressing climate change | Prioritize our investments to create a transit system that encourages people to ride transit rather than drive alone and to support transitioning to a clean fleet that aspires for net zero GhG emissions, enabling us to meet our state, regional, and local climate goals. |
| 2 | 4 | Maintenance and Resiliency | <i>Preserve and maintain the region’s transit infrastructure in a manner that improves safety, security and resiliency while minimizing life-cycle cost and impact on the environment.</i> | <ul style="list-style-type: none"> Incorporated reliability into State of Good Repair | Preserve and maintain the region’s transit infrastructure in a manner that improves safety, reliability, and resiliency while minimizing life-cycle cost and impact on the environment. |

² Historically marginalized communities are areas with high concentrations (compared to regional average) of people of color, people with low-incomes, people with limited English proficiency, older adults and/or young people.

High Capacity Transit Strategy Update | Policy Framework – Regional Transit Network Policy Review - DRAFT

Portland Metro

| Existing # | Revised # | Proposed Headline | Existing Policy Text | Gaps / Considerations Addressed | Updated Policy Text Considerations |
|------------|-----------|---|--|---|--|
| 4 | 5 | High Capacity Transit | <i>Make transit more convenient by expanding high capacity transit; improving transit speed and reliability through the regional enhanced transit concept.</i> | <ul style="list-style-type: none"> Align with equity and climate outcomes and HCT definition Reframe “convenient” around equity Revise description of capacity | Complete and strengthen a well-connected high capacity transit network to serve as the backbone of the transportation system. Corridors should generally be spaced at least one half-mile to one mile or more apart and serve mobility corridors with the highest travel demand. High capacity transit prioritizes transit speed and reliability to connect regional centers with the Central City, link regional centers with each other, and link regional centers to major town centers. ³ |
| 3 | 6 | Coverage and Frequency | <i>Make transit more reliable and frequent by expanding regional and local frequent service transit and improving local service transit options.</i> | <ul style="list-style-type: none"> Moved reliability and the Enhanced Transit Concept to a new policy (see Policy 7) | Complete a well-connected network of local and regional transit on most arterial streets – prioritizing expanding all-day frequent service along mobility corridors and main streets linking town centers to each other and neighborhoods to centers. |
| 3 and 4 | 7 | Reliability | <i>See Policy #4</i> | <ul style="list-style-type: none"> Created a separate policy focused on reliability that clarifies the role of ETC in the regional transit network | Through the Better Bus program, prioritize capital and traffic operational treatments identified in the Enhanced Transit Toolbox in key locations or corridors to improve transit speed and reliability for frequent service. |
| 5 | 8 | Intercity / Inter-Regional Transit | <i>Evaluate and support expanded commuter rail and intercity transit service to neighboring communities and other destinations outside the region.</i> | <ul style="list-style-type: none"> No proposed changes | |

³ The regional “mobility corridor” concept refers to a network of integrated transportation corridors that moves people and goods between and within subareas of the region. These transportation corridors influence the development and function of the land uses they serve and are defined by the major centers set forth in the Region 2040 Growth Concept. High capacity transit, along with frequent bus service and pedestrian/bicycle connections to transit, play an important role in moving people in these corridors. (2018 Regional Transportation Plan, Section 3.4.1)

High Capacity Transit Strategy Update | Policy Framework – Regional Transit Network Policy Review - DRAFT

Portland Metro

| Existing # | Revised # | Proposed Headline | Existing Policy Text | Gaps / Considerations Addressed | Updated Policy Text Considerations |
|------------|-----------|----------------------------|---|---|------------------------------------|
| 6 | 9 | Access to Transit | <i>Make transit more accessible by improving pedestrian and bicycle access to and bicycle parking at transit stops and stations and using new mobility services to improve connections to high-frequency transit when walking, bicycling or local bus service is not an option.</i> | <ul style="list-style-type: none"> ▪ No proposed changes | |
| 7 | 10 | Mobility Technology | <i>Use technology to provide better, more efficient transit service – focusing on meeting the needs of people for whom conventional transit is not an option.</i> | <ul style="list-style-type: none"> ▪ No proposed changes | |
| 8 | 11 | Affordability | <i>Ensure that transit is affordable, especially for people who depend on transit.</i> | <ul style="list-style-type: none"> ▪ No proposed changes | |

Notes:

Green – proposed update or addition

DRAFT TECHNICAL MEMORANDUM

DATE: November 17, 2022

TO: Ally Holmqvist, Metro
Metro HCT Strategy Update PMT

FROM: Chad Tinsley, Parametrix
Ryan Farncomb, Parametrix
Kelly Betteridge, Parametrix
Oren Eshel, Nelson/Nygaard
Tomoko Delatorre, Nelson/Nygaard
Paul Lutey, Nelson/Nygaard

SUBJECT: HCT Corridor Analysis Approach to Identify “Big Moves”

CC: Project file

PROJECT NAME: Metro High Capacity Transit (HCT) Strategy Update

1 INTRODUCTION

This memo describes an approach to identify “Big Moves” as part of the corridor identification and screening process for the High Capacity Transit (HCT) System Strategy Update (HCT Update) project. This analysis would complement the Level 1 screening to identify candidate HCT corridors (HCT Screening) for inclusion in the regional HCT system vision, as described in previous memos. The HCT “Level 1” Screening process analyzed existing and planned frequent service corridors as well as corridors identified through the original HCT Plan in 2009 to help identify the universe of corridors to consider in the HCT Evaluation. However, since the screening is primarily based on corridors aligned with the existing TriMet service network, it may not identify travel “desire lines” where the existing transit network does not provide a convenient connection that people would choose for their trip. The project team is proposing an approach to help confirm needs identified through the screening process and assess additional connections that may not have been identified through the screening process:

1. Where current and future travel demand are strong
2. Where the current transit system does not provide a connection or a high quality connection

Connections with strong demand and lower-quality transit may be high priorities to evaluate for HCT, or other types of transit service (HCT may not be the most suitable mode for all areas). This analysis could confirm the need for corridors already identified through the screening process as well as suggest additional connections that should be evaluated as part of the HCT Strategy Update. Connections with strong demand and a low-quality transit connection could suggest additional corridors to evaluate for HCT. HCT projects could also be identified to strengthen existing parts of the HCT system that are only of moderate quality.

2 “BIG MOVES” CORRIDOR IDENTIFICATION APPROACH

2.1 Travel Demand Analysis Zones

Analysis zones were developed based on the following approach:

- Start with Metro Concept Analysis Center (2040) geographies
- Include City of Portland Town Center designations, based on the City of Portland [Centers GIS layer](#) and/or the map in Chapter 3 of the Comprehensive Plan (page 30): Belmont-Hawthorne-Division, Interstate/Killingsworth, Midway, and Northwest District
- Select Transportation Analysis Zones (TAZs) overlapping with the above geographies
- Identify additional TAZs as either additions to the above geographies or as additional geographies, including:
 - Major institutions (major hospitals, universities, etc.), such as OHSU.
 - Major employment areas, based on Longitudinal Household Employment Dynamics (LEHD) data and Metro model 2040 projections, using a threshold of 4,000 jobs in a TAZ and grouping adjacent TAZs with employment at or close to the threshold.
- Portland Central City Zones were disaggregated as follows for initial analysis, given the high concentration of trips, but could be reaggregated at a later stage of the process or for representation purposes.
 - Downtown – South, Central, and North
 - West of Downtown (west of I-405, north of Burnside)
 - Northwest Portland – Northwest District (corresponding to the City of Portland Town Center), Outer Northwest, and Northwest Industrial area
 - South Waterfront (with the OHSU Marquam Hill Campus as a separate geography)
 - Central Eastside – South and North
 - Rose Quarter/Albina West
 - Lloyd District
 - Albina East

Figure 1 shows the analysis zones.

2.2 Travel Demand

Travel demand data was aggregated to the above centers-based travel demand zone structure. The data was normalized using the area of the zones to account for the varying geographic size (and density of travel demand) of each area.

The primary travel demand measure used was future travel demand from the Metro model:

- Future (2040) Person Trips, both directions, Total and Normalized for area of the zone (per square mile)

Secondary travel demand measures were used to provide an understanding of more recent changes to travel demand, including effects of the pandemic:

- Fall 2021 person trips from Replica data,¹ both directions, Total and Normalized for area of the zone (per square mile), including trips by people earning less than 200% of the federal poverty level and estimate transit person trips
- Fall 2019 person trips for comparison with current (baseline) person trips from the Metro model

Travel demand measures were classified into five categories.

2.3 Service Quality

For purposes of this analysis, travel time was used as a proxy for service quality. Transit travel time was compared to auto travel times to understand the relative convenience of making a particular trip by transit versus driving.

- A representative point was selected for each analysis zone. If existing high capacity transit service was present, a HCT station was selected so that access time to/from destinations was not considered in evaluating how well a geography is generally served by the HCT system.
- Google Maps was used (via an automated query) to determine: 1. Auto travel time and 2. Transit travel time for each zone-to-zone connection. A trip time of 3 pm on a weekday (Wednesday) was specified. Analysis was run in both directions and the highest ratio used.
- A ratio of the transit travel time to the auto travel time was calculated. A ratio of 2.0 would mean that a transit trip takes twice as long as a trip made by driving.

The transit to auto travel time ratio was classified into five categories using the following breakpoints:

- Up to 1.1 (Transit competitive with auto)
- > 1.1 to 1.5
- > 1.5 to 2.4
- 2.5 to 3.9
- 4.0 or more (Transit takes significantly longer than driving)

¹ Replica is an activity-based transportation model in which travel demand is derived from people's daily activity patterns, including de-identified mobile location and demographic data sources.

Figure 1 Map of Analysis Zones

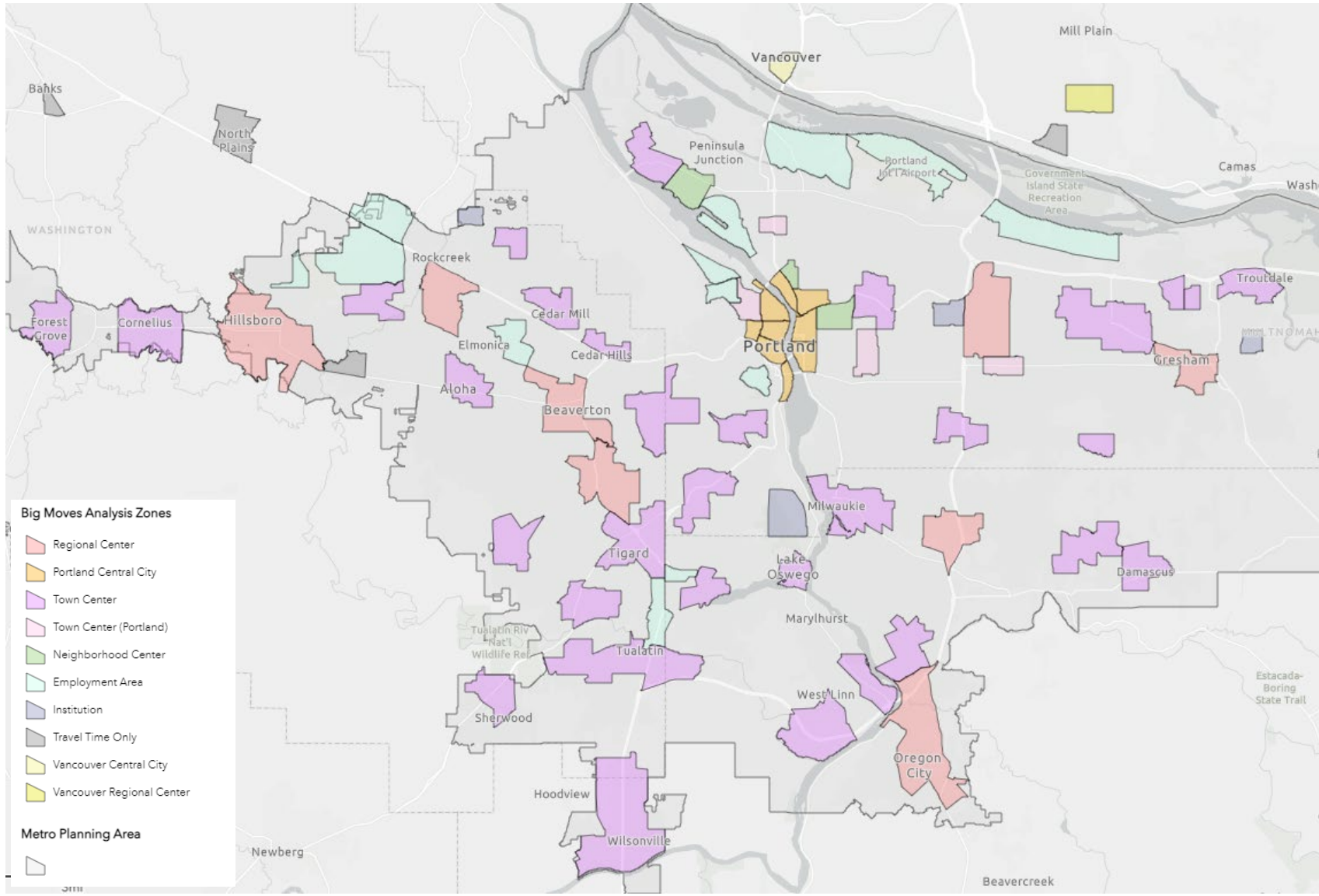
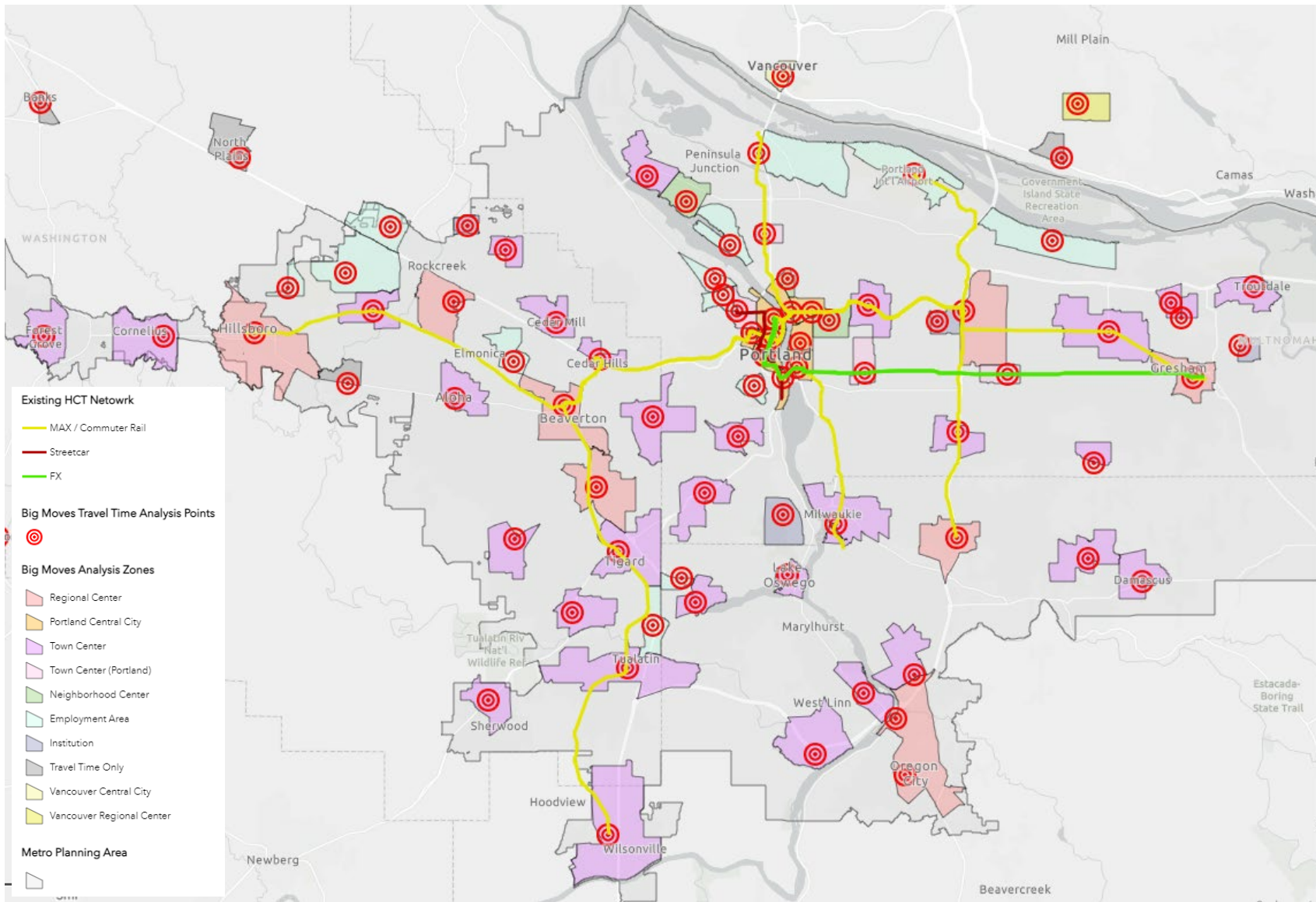


Figure 2 Map of Analysis Zones, Travel Time Analysis Points, and Existing HCT Network



3 ANALYSIS RESULTS

3.1 Analysis Results

The analysis was utilized as a tool to further explore and understand possible additional connections identified through the Level 1 Screening analysis and identify additional connections to consider in the next phases of the evaluation (e.g., Level 2 and Readiness Evaluation). **Figure 3** illustrates travel demand and the transit to auto travel time ratios for a representative set of connections between regional and town centers, including the additional employment and major activity centers included in the analysis. Line color illustrates the travel time ratio. Line weight illustrates travel demand. Travel demand in this schematic representation reflects only the demand between the specific centers connected, not the total travel demand between multiple centers that might utilize a particular connection (aggregating that demand was beyond the scope of this analysis). This analysis also did not consider demand outside of these centers.

- Connections shown in **dark or lighter blue** have a transit travel time that is competitive with driving. These include many parts of the existing light rail network, such as:
 - Between Gresham, Gateway, Hollywood, and Lloyd District
 - Between Clackamas and Gateway
 - Between Downtown Portland, Beaverton, and HillsboroThey also include some centers connected by bus links today.
- Connections shown in **yellow, orange, and red** range from moderately less competitive by transit to significantly longer.

The regional high capacity transit system is intended to be the backbone of the transit system. As such, this analysis focuses on longer-distance connections between regional centers, major town centers, and central cities with the highest travel demand and person capacity needs, that have gaps in service quality identified through this analysis. Focusing on these types of connections, this analysis identified the potential to improve transit travel times for corridors such as the following:

- Between multiple town and regional centers in a generally southeast to northwest arc through the Hwy 217 corridor between south and north/northwest Washington County, including connections from southwest Clackamas County. Since WES commuter rail operates between Wilsonville, Tualatin, Tigard, and Beaverton, but only during AM and PM peak hours, there is a gap in HCT service quality.
- The Tualatin Valley (TV) Highway corridor, between Beaverton, Hillsboro, Cornelius, and Forest Grove. There is an active planning project in this corridor (TV Hwy BRT).
- The Beaverton-Hillsdale (BH) Highway corridor, between Beaverton, Raleigh Hills and Hillsdale
- The Hwy 99W corridor, including Tigard, Tualatin, and Southwest Portland
- In South Clackamas County, between Oregon City and Clackamas Town Center (CTC) as well as along the Hwy 99E and Hwy 43 corridors, and between CTC and both Milwaukie and Happy Valley
- Town centers in East Multnomah County, including Troutdale, Fairview, and Wood Village, both east-west and north-south
- Across the Columbia River to/from Clark County

- Between St. Johns and various parts of Multnomah County

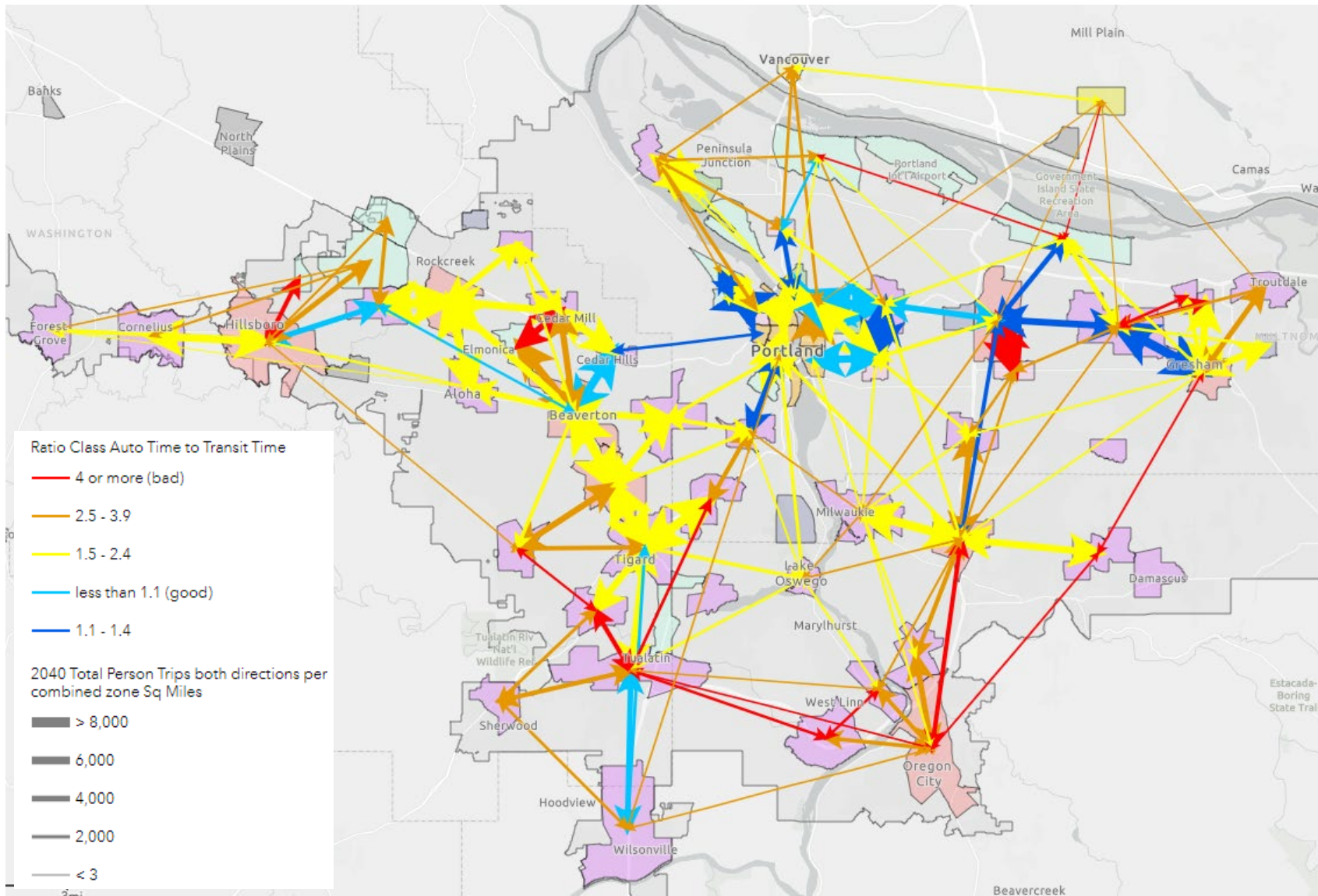
Figure 4 summarizes the connections identified above, along with existing HCT in these corridors, existing HCT priorities that were identified (in the 2009 HCT Plan/RTP or 2018 RTP), and active HCT planning efforts.

The analysis also highlights additional connections that are shorter in length or affect smaller or more isolated town centers. Examples of these types of gaps include:

- Employment areas north of Hillsboro, including along Evergreen Pkwy and Cornelius Pass Road.
- Town Centers in Washington County that are not along major travel corridors, such as Bethany, Murray/Scholls, and Sherwood.
- Columbia Corridor Employment Area in Multnomah County
- Between Midway and Gateway

However, these connections may be better addressed through other transit investments, such as frequent service fixed route, Better Bus enhancements, or enhanced connections to existing HCT service, and/or first and last mile improvements. These connections are likely outside the primary focus of the HCT system in connecting regional and major town centers and creating the backbone of the transit network.

Figure 3 Illustration of Travel Demand and Travel Time Ratio for Regional Zone-to-Zone Connections



3.2 Summary of Potential System Gaps and Previous/Active HCT Planning

Figure 4 Summary of Identified Major HCT Service Quality Gaps and Previous/Active HCT Planning

| Major Travel Corridor / Connections | Counties | Existing HCT | Previously Identified HCT Priorities | Active HCT Planning |
|---|----------------------------------|---|--|---------------------------------------|
| OR 217 Corridor (SW Clackamas Cty and SE Washington County – N/NW Washington County) | Washington, Clackamas | WES Commuter Rail (Peak Hours Only) | <ul style="list-style-type: none"> • Upgrades to WES, Wilsonville-Beaverton • Clackamas Town Center to Washington Square • Oregon City to Washington Square | - |
| TV Hwy Corridor | Washington | - | <ul style="list-style-type: none"> • TV Hwy BRT | TV Hwy BRT Study |
| US 26 Corridor (Sunset TC – Hillsboro) | Washington | - | <ul style="list-style-type: none"> • US 26 Corridor, Sunset TC – Hillsboro | - |
| BH Hwy Corridor | Washington, Multnomah | - | <ul style="list-style-type: none"> • 2010 Mobility Corridors Atlas | - |
| Hwy 99W / I-5 Corridor | Washington, Clackamas, Multnomah | | <ul style="list-style-type: none"> • Southwest Corridor LRT • Sherwood – King City – Tigard | Southwest Corridor LRT Project |
| Hwy 43 Corridor | Clackamas, Multnomah | | <ul style="list-style-type: none"> • Lake Oswego – Portland (Rapid Streetcar) | - |
| Hwy 99E Corridor | Clackamas | MAX Orange Line (north of Park Ave) | <ul style="list-style-type: none"> • Milwaukie – Oregon City (Extension) | - |
| I-205 Corridor | Clackamas | | <ul style="list-style-type: none"> • CTC – Oregon City – Washington Square | - |
| Hwy 224/Sunnyside Road Corridor | Clackamas | - | <ul style="list-style-type: none"> • CTC- Milwaukie – Washington Square • CTC – Happy Valley | - |
| East Multnomah County (Troutdale / Fairview / Wood Village) | Multnomah | MAX Blue Line (south of identified communities) | <ul style="list-style-type: none"> • LRT Extension, Gresham – Troutdale | - |
| St. Johns | Multnomah | - | <ul style="list-style-type: none"> • 2010 Mobility Corridors Atlas | - |
| I-5 (Interstate Bridge) | Multnomah, Clark | - | <ul style="list-style-type: none"> • Interstate Bridge | Interstate Bridge Replacement Project |
| I-205 Corridor | Multnomah, Clark | - | <ul style="list-style-type: none"> • 2010 Mobility Corridors Atlas | - |

3.3 Portland Central City Analysis Results

Although the focus of this analysis is trips around the region, regional transit trips are affected by service quality through downtown Portland. **Figure 5** illustrates travel demand and the transit to auto travel time ratios for a representative set of connections within the Portland Central City. Although the transit is relatively time competitive for some trips, HCT system speed into and through the Central City is slow, which affects travel time competitiveness both for transit trips into downtown and for transit trips that cross the region through downtown Portland. **Figure 6** summarizes these connections along with existing HCT lines, existing HCT priorities that have been identified (in the 2009 HCT Plan/RTP or 2018 RTP), and active HCT planning efforts.

Figure 5 Illustration of Travel Demand and Travel Time Ratio for Portland Central City

Figure 6 Summary of Identified Major HCT Service Quality Gaps and Previous/Active HCT Planning – Portland Central City

| Major Travel Corridor / Connections | Counties | Existing HCT | Previously Identified HCT Priorities | Active HCT Planning |
|--|-----------|--------------|---|---------------------|
| MAX into downtown and through Portland Central City | Multnomah | MAX | <ul style="list-style-type: none"> Central City Tunnel Study | |
| Central Eastside (north-south and between Downtown) | Multnomah | Streetcar | <ul style="list-style-type: none"> 2010 Mobility Corridors Atlas | - |
| Northwest Portland and parts of Downtown | Multnomah | Streetcar | <ul style="list-style-type: none"> 2010 Mobility Corridors Atlas | - |

3.4 Next Steps

This analysis provides additional information about the potential HCT connections identified in the Level 1 HCT Screening and helps identify additional gaps in regional transit connections and/or service quality (travel time). This analysis was used to shape the set of HCT corridors that will be considered in the Readiness step of the HCT Evaluation.

Date: Wednesday, November 23, 2022
To: Metro Transportation Policy Advisory Committee (TPAC)
From: Ally Holmqvist, Metro; Jennifer Sellers, ODOT; Jason Beloso, WSDOT
Subject: Cascadia Corridor Ultra-High-Speed Ground Transportation: Program Initiation Overview

Purpose

This memorandum provides an overview of the Cascadia Corridor Ultra-High-Speed Ground Transportation Project and provides a progress report on the work done to date to initiate the program and complete the activities identified in the Memorandum of Understanding signed by Governor Brown, Governor Inslee and Premier Horgan (Province of British Columbia) on November 16, 2021. Metro President Peterson and staff have been participating on the Policy and Technical Committees established as part of program initiation.

TPAC will receive a progress report on the Cascadia Corridor UHSGT project and program initiation work, review guiding program materials, and provide input to support partner agency participation in shaping major work plan deliverables including the FRA Corridor ID proposal. Late this year or early next year, staff will ask Council to consider signing a letter of support for the Cascadia Corridor UHSGT Corridor ID proposal. Late this year or early next year, Council will be asked to consider signing a letter of support for the Cascadia Corridor UHSGT Corridor ID proposal.

Introduction

The Cascadia Corridor is one of eleven corridors identified by United States Department of Transportation (US DOT) Federal Railroad Administration (FRA) for potential high-speed rail investments to better connect communities across America. The Washington State Department of Transportation (WSDOT) is studying how ultra-high-speed (~250 miles per hour) ground transportation (UHSGT) might serve as a catalyst to transform the Pacific Northwest – stretching from greater Vancouver, British Columbia to metro Seattle, Washington to Portland, Oregon – with a fast, frequent, reliable and environmentally responsible transportation connection.

An ultra-high-speed transportation system could allow for travel times of less than an hour between each of the cities. This enhanced interconnectivity would unite the Cascadia megaregion and allow to better manage population and economic growth potential and maximize public transportation benefits, resulting in better access to jobs, affordable housing, shared resources, increased collaboration, and economic prosperity. Corridor study has conceptually considered various scenarios with 21 to 30 daily round trips, with some express trips stopping at only a few locations, interspersed with others that stop at more locations at about \$24 to \$42 billion in up-front construction costs. Outcomes include:

- Ultimate potential to carry 32,000 people an hour (only 12 to 20 percent of total current intercity trips would shift to UHSGT).
- Estimated annual ridership between 1.7 and 3.1 million, conservatively.
- Estimated annual revenue of between \$160 and \$250 million.
- Estimated \$355 billion in economic growth and 200,000 new jobs related to construction and ongoing operation of the service.
- Reduction of 6 million metric tons (tonnes) of CO₂ emissions over first 40 years and potential for zero emissions by using clean energy sources (hydro, wind, solar).

On November 16, 2021, Governor Brown, Governor Inslee and Premier Horgan (Province of British Columbia) signed a Memorandum of Understanding (MOU) committing to advance activities in support of an ultra-high-speed ground transportation project with the goal of laying the

groundwork for the creation of a formal, legal entity to continue project development while seeking community engagement and input, gaining critical support from decision makers and positioning the corridor for future funding opportunities and efficient environmental clearance (see Attachment 1).

Through [ESSB 5689](#) the Washington State Legislature then allocated \$4 million, along with financial contributions from British Columbia, for WSDOT to lead a coordinated effort to commence the work envisioned by the MOU and develop an expanded framework for future work. Currently, the scope of work for the [Cascadia Corridor UHSGT](#) program initiation phase (see Attachment 2 for a work plan) includes:

- a. Developing an organizational framework that facilitates input in decision-making from all parties;
- b. Developing a public engagement approach with a focus on equity, inclusion, and meaningful engagement with communities, businesses, federal, state, provincial, and local governments including indigenous communities;
- c. Developing and leading a collaborative approach to prepare and apply for potential future federal, state, and provincial funding opportunities, including development of strategies for incorporating private sector participation and private sector contributions to funding, including through the possible use of public-private partnerships;
- d. Beginning work on scenario analysis addressing advanced transportation technologies, land use and growth assumptions, and an agreed to and defined corridor vision statement; and
- e. Developing a recommendation on the structure and membership of a formal coordinating entity that will be responsible for advancing the project through the project initiation stage to project development and recommended next steps for establishment of the coordinating entity. Project development processes must include consideration of negative and positive impacts on communities of color, low-income households, indigenous peoples, and other disadvantaged communities.

This past January, the WSDOT program team convened a Policy Committee of agency leadership including representatives from the following partners: Province of British Columbia Intergovernmental Relations Secretariat and Ministry of Transportation, Translink, Washington State House of Representatives and Senate, WSDOT, Puget Sound Regional Council (PSRC), Oregon Department of Transportation (ODOT), Metro, and Cascadia Innovation Corridor. WSDOT has also convened a Technical Committee of staff from transportation planning agency partners to support the Policy Committee in May which meets twice monthly. The collaboratively developed Committee Charter in Attachment 3 describes the roles of the policy and technical committees in the program initiation phase which include developing the program vision, shaping the scenario analysis, making recommendations on the coordinating entity structure and stakeholder engagement plan, and advising on and endorsing federal grant applications.

As part of program initiation, President Peterson, Director Strickler, and staff have worked with fellow bi-country and state agency partners to reflect the goals, objectives, and principles from the Oregon State Rail Plan and ODOT Strategic Action Plan and Metro's 2040 Growth Concept, Regional Transportation Plan (RTP), Regional Transit Strategy (RTS), Climate Smart Strategy, and Strategic Plan to Advance Racial Equity within the work plan and in a developing vision that will ultimately guide the Cascadia Corridor UHSGT effort. That work has included:

- *Shaping development of the organizational framework and influencing the stakeholder engagement plan:* emphasizing the need for engagement of regional and state partner jurisdictional and transit agency stakeholders as well as representation from community, labor, environment, mobility, and business organizations and recommending engaging stakeholders early and establishing a community advisory committee.

- *Shaping development of the corridor vision and identity document*: building from the regional visions along the corridor, being people and community-focused, supporting community stability, lifting up the 2040 Growth Concept, and aligning with the RTP and its goals for equitable transportation, mobility options, thriving economy, safe system, and climate action and resilience.
- *Assisting in developing the scope and funding plan for the federal Corridor ID proposal and UHSGT scenario analysis*: sharing regional and state work to inform analysis and toward ensuring consistency of both the analysis and recommendations.

Also in May, FRA established a new [Corridor Identification and Development \(CID\) Program](#) for the purpose of creating a pipeline of funding-ready new or improved intercity passenger rail projects for investment through President Biden’s Bipartisan Infrastructure Law. Washington’s [SSB 5975](#) allocated \$50 million to be used as matching funds for a grant application, as well as an additional \$100 million to leverage federal funding opportunities over the next six years. In coordination with the partner committees, WSDOT and ODOT submitted a joint Expression of Interest (see Attachment 4) for the program for a new ultra-high speed ground transportation system combined with substantial improvements and continued support for Amtrak Cascades service that work in tandem for an integrated Cascadia Corridor this August. The program team is working on developing a formal proposal to fund program initiation for submission late this year when the notice of funding opportunity (NOFO) is expected to be released.

Background



Project Timeline

2016-2018 - The State of Washington Governor Jay Inslee and British Columbia Premier Christy Clark issued a memorandum of understanding. At the direction of the WA legislature, a preliminary UHSGT Feasibility Study (2017-2018 Feasibility Study) confirms the viability and demand for the project and is an important first step in understanding and quantifying the potential benefits of a new transportation system in the Cascadia megaregion. The WA legislature directs and approves funding for WSDOT to conduct a business case study. WSDOT was joined by the Oregon Department of Transportation, the Province of British Columbia, and Microsoft as funding partners and oversight contributors via representation on a Steering Committee. An Advisory Group was also formed to provide input from public, private and non-profit representatives from throughout the megaregion.

2019 - The [Business Case Analysis](#) builds on the feasibility report and economic impacts addendum to provide a more comprehensive and detailed picture of the wide range of benefits that would flow to the region from UHSGT.

2020 - Following feasibility confirmation, the [Framework for the Future](#) charted a potential path forward on project governance, strategic engagement, and funding and financing to advance the UHSGT project. A combination of expert interviews and case study research informs the report's outline of funding and authorization options and recommendation for the creation of an inter-jurisdictional Coordinating Entity for project initiation activities to work with the community to advance this critical project.

2021 - Governor Brown, Governor Inslee and Premier Horgan (Province of British Columbia) sign a Memorandum of Understanding.

2022-2023

Activities To Date:

- **January:** WSDOT convenes the Policy Committee.
- **March:** Through [ESSB 5689](#) and [SSB 5975](#) the Washington State Legislature allocates funding to support Cascadia Corridor program initiation activities.
- **May:** WSDOT convenes the Technical Committee. FRA establishes the new Corridor Identification and Development (ID) Program.
- **August:** WSDOT and ODOT submit a joint Expression of Interest for the Corridor ID program.

Project overview



Current State and Gap Identification

(Sept '22 – Nov '22)

Discovery phase sprint to build our understanding of the current state, followed by a deep dive assessment until the end of November.

Key Deliverables: Gap Analysis

Policy Committee Role: Share insights and objectives for program

Federal Funding and Grant Application Support

(Oct '22 – Feb '23)

Development of integrated funding strategy for near-term and next phase of work, including FRA Corridor ID grant application and additional grants as relevant.

Key Deliverables: US Federal Grant Application, Funding Strategy

Policy Committee Role: Input and review of grant applications

Strategic Advisory and Program Governance

(Dec '22 – Jun '23)

Strategic recommendations on prioritized gaps, actions, and resources to advance the program.

Key Deliverables: Strategic Roadmap, Stakeholder Engagement Briefs, Initial Scenario Planning Outlook, Coordinating Entity Framework, Legislative Report

Policy Committee Role: Guidance on stakeholder engagement and scenario planning. Review Legislative Report

Ongoing Engagement With Policy Committee

Interviews to understand objectives, priorities and current state

Collaboration workshops to share findings and build momentum

Quarterly formal Policy Committee Meetings

- **Late 2022/early 2023 (depending on NOFO timing):** Program team develops the submit the Corridor ID proposal. Program partners represented on the Policy Committee submit letters of support for the proposal.
- **June 30, 2023:** WSDOT submits a report on program progress to the Governor and Washington State Legislature.

Future Work (2023+)

- Establish the coordinating entity. Conduct pre-environmental analysis, conceptual engineering, and stakeholder engagement and develop the funding strategy and future project governance.
- Establish the development entity. Conduct environmental clearance, preliminary NEPA/CEQA engineering and design, risk assessment, and procurement and P3 policies.
- Plan for construction including land acquisition, vehicle procurement and final design.
- Begin construction.

Policy Context

Intercity passenger rail and bus service to communities outside of the region provides an important connection to the regional and broader state transit network. Cascadia Corridor UHSGT is an important project identified in Metro's 2018 Regional Transit Strategy [vision](#) supporting travel to/from our region through a more environmentally-friendly and potentially more equitable alternative than driving or flying. [Policy 5](#) of the RTP identifies the need to "[e]valuate and support expanded commuter rail and intercity transit service to neighboring communities and other destinations outside the region" toward achieving our regional goals. The RTP also acknowledged that more work is needed to determine the partnerships, infrastructure investments and finance

strategies needed to support improved intercity passenger service to communities outside the region – key elements of the Cascadia Corridor UHSGT program work. Further, the Climate Smart Strategy provides clear direction to invest more in making our transit system more convenient, frequent, accessible and affordable in order to meet regional sustainability goals and objectives.

ODOT recently (2020) updated the [Oregon State Rail Plan](#) (OSRP) to identify needs and outline solutions for improving passenger rail in the future. OSRP calls for participation in visioning to develop a conceptual corridor assessment and high-level costs for high-speed rail, including identifying actions needed by local, state, and federal agencies to advance development and funding.

The OSRP also calls for supporting [Amtrak Cascades improvements](#) between Eugene-Springfield and Portland – a 125 mile segment of the federally-designated Pacific Northwest Rail Corridor. ODOT recently (2021) studied ways to improve the frequency, convenience, speed and reliability of intercity passenger rail service along this corridor which are documented in a [Tier 1 Draft Environmental Impact Statement](#) which received a Record of Decision (ROD) on April 14, 2021 – marking the end of the National Environmental Policy Act (NEPA) environmental review process. Oregon is now eligible to compete for significant infrastructure grants to improve passenger rail service between Eugene and Portland, including considering high speed rail in the future.

Ultra-high-speed ground transportation is not intended to replace the Amtrak Cascades intercity passenger rail system funded by WSDOT and ODOT. It would be an additional travel option and would serve to promote ridership through connections to other travel modes. Amtrak Cascades trains might connect smaller cities to the ultra-high-speed system and they might even share the same new tracks.

ATTACHMENTS

1. Cascadia Corridor UHSGT Washington – British Columbia – Oregon MOU (November 16, 2021)
2. Cascadia Corridor UHSGT Work Plan
3. Cascadia Corridor UHSGT Charter
4. Cascadia Corridor UHSGT Corridor ID WSDOT/ODOT Joint Expression of Interest

cc: Tom Kloster, Metro Regional Planning Manager
Kim Ellis, Metro Principal Planner, Regional Transportation Planning
Karyn C. Criswell, ODOT Public Transportation Division Administrator
Ron Pate, WSDOT Director: Rail, Freight, and Ports Division

Attachment 1



Washington – British Columbia – Oregon

Memorandum of Understanding (MoU)

On Committing to Advance Activities in Support of an Ultra-High-Speed Ground Transportation Project

WHEREAS, the Cascadia region is facing climate, housing affordability, mobility, and social justice challenges arising from its rapid growth.

WHEREAS, these challenges require a regional effort to develop innovative approaches to transportation, land-use and housing infrastructure that prioritize equity and sustainability while decreasing greenhouse gas emissions.

WHEREAS, transportation sector emissions are a significant source of emissions in Washington, Oregon and British Columbia.

WHEREAS, as Governors of the states of Washington and Oregon and as Premier of the Province of British Columbia, we have worked to align policies and connect our states and province to expand the benefits of regional collaboration to our people, our economy and our environment.

WHEREAS, Washington, Oregon and British Columbia form a mega region that has experienced tremendous growth over the past few decades and will continue to experience growth as a net increase between three and four million people is expected to call the region “home” by 2050.

WHEREAS, this population growth, if not met with innovative and proactive policymaking and development, will magnify existing challenges by increasing the shortage of affordable housing and traffic congestion, worsening the climate crisis, and placing additional strain on our existing transportation infrastructure.

WHEREAS, the burdens of unmanaged growth fall most heavily on low-income individuals who are unable to afford housing within the job centers exacerbating inequity in the Cascadia region.

WHEREAS, bold investments and equitable deployment of clean technologies and modernized infrastructure can both address these challenges in a sustainable manner while creating an infusion of near-term good-paying jobs and long-term economic benefits.

WHEREAS, shared collaboration on technology, supply chain resiliency, climate abatement and emission reductions can be achieved through bringing together governments, companies and communities in implementing innovative solutions from academic experts and the private sector based on our common values, including a shared commitment to the environment, equality, and the entrepreneurial potential of our residents.

WHEREAS, there are opportunities for collaboration in climate mitigation to be significantly enhanced in key sectors, including transportation, ports, sustainable aviation fuels, supply chain efficiency, agri tech and life sciences.

WHEREAS, Washington, Oregon and British Columbia have explored a new Ultra-High-Speed Corridor connecting Portland, Seattle, and Vancouver B.C., with points-in-between, providing faster and more reliable trips between cities and linking to regional transit options.

WHEREAS, recent feasibility studies funded by Washington, Oregon, British Columbia and the private sector have demonstrated a compelling case for an Ultra-High-Speed Corridor that will create good-paying jobs, increase affordable housing options, clean our air, improve safety and reduce traffic.

WHEREAS, a 2019 Business Case Analysis showed that an Ultra-High-Speed Corridor could transport three million riders a year, generate \$250 million USD in annual revenue, reduce six million metric tons of carbon emissions, spur \$355 billion USD in economic growth and create 200,000 new jobs.

WHEREAS, a 2020 Governance and Financing report outlined funding and authorization options and recommended the creation of an inter-jurisdictional Coordinating Entity for project initiation activities to work with the community to advance this critical project.

WHEREAS, the results of a 2021 poll found Washingtonians and Oregonians show strong support for the project in both states, with voters particularly appreciating the benefits that the project would provide for reducing traffic congestion and increasing transportation options, strengthening the regional economy, addressing climate change, and promoting more equitable, affordable connections between jobs and housing.

WHEREAS, the 2020 updated Oregon State Rail Plan calls for participation in visioning to develop a conceptual corridor assessment and high-level costs for high-speed rail, including identifying actions needed by local, state, and federal agencies to advance development and funding.

WHEREAS, in the 2020 BC Throne Speech, the provincial government highlighted the potential for “high speed rail connections with our neighbours to the south” as an objective for the region.

WHEREAS, high-speed rail is consistent with British Columbia’s commitment to reduce emissions by building a more sustainable transportation system as laid out in its CleanBC plan and the CleanBC Roadmap to 2030.

WHEREAS, in July and August 2021, more than 45 business, labor, community organizations and elected officials in Washington and more than 50 in Oregon that support the Ultra-High-Speed Ground Transportation project urged their congressional delegation to include funding opportunities for the project as part of the reauthorization of surface transportation and infrastructure legislation.

WHEREAS, the private sector has been a collaborative partner in the exploration of an Ultra-High-Speed Corridor and is committed to ongoing engagement as the project proceeds.

WHEREAS, the U.S. federal government has joined state and provincial governments and the Government of Canada in making a transformative commitment to the Paris Climate Accords with its Nationally-Determined Commitment (“NDC”) to reduce greenhouse gas emissions by a minimum of 50 percent by 2030, compared to 2005 levels.

WHEREAS, Washington, Oregon and British Columbia stand ready to jointly pursue federal, state and other funding opportunities as they become available.

And, **WHEREAS**, the U.S. federal Infrastructure Investment and Jobs Act and Build Back Better proposals represent an unprecedented commitment to enacting America’s National Determined Contribution and building the jobs and infrastructure of the 21st Century, including Ultra-High-Speed Ground Transportation. Additionally, those two federal proposals provide a unique and timely opportunity for the Cascadia region to compete for future federal funding to support the project.

Now, therefore, be it resolved that:

We commit to establishing a Policy Committee made up of Washington, Oregon and British Columbia designees and representatives from regional planning entities and the private sector to build relationships and coordinate efforts to

advance the project. A lead from the respective government departments or ministries will be identified to spearhead the related activities in each of our jurisdictions and engagement in the Policy Committee.

We commit our states and province to advancing work on the Ultra-High-Speed Ground Transportation project and to pursuing emissions reduction with a focus on equity, inclusion and meaningful community engagement.

We commit to developing an organizational framework that facilitates inclusive input and decision-making.

We commit to reaching out to the public along the Cascadia Corridor through an equitable community outreach and engagement process, coordinated with federal, state, provincial and local legislators, and Indigenous communities to gain support from key decision makers and commit to identifying opportunities to engage stakeholders to support the project.

We commit to jointly preparing for and pursuing federal, state and other funding opportunities as they become available and will identify resources to continue work on the project.

Subject to appropriation, we commit to establishing an inter-jurisdictional Coordinating Entity for project related activities; identifying opportunities to streamline future environmental clearance and initiate the planning and environmental process; and identifying next steps to continue the necessary work to secure support and funding for the Ultra-High-Speed Ground Transportation project.

Recognizing its regional significance, these activities will lay the groundwork for the creation of a formal entity to continue project development while seeking community engagement and input, gaining critical support from decision makers, and positioning the corridor for future funding opportunities and efficient environmental clearance. The Parties agree to convene a leadership meeting within one year to evaluate progress on the above areas and identify additional areas for collaboration to advance the project.

Term and Effect

This MoU shall come into effect upon signature of the three parties below and shall remain in effect for a period of five years and can be renewed or amended with the consent of the parties. Any party may decide to terminate the agreement by notifying the other parties with three months' written notice.

Limitations

The undersigned signatories agree that this MoU shall have no legal effect or impose a legally binding obligation on the state of Washington, the Province of British Columbia or the state of Oregon. None of the parties shall be responsible for the actions of third parties who may participate in the activities outlined in this MoU.

Agreed and signed for the 2021 Cascadia Innovation Corridor Annual Conference, and dated on the 16th day of November 2021.



Jay Inslee, Governor
State of Washington



John Horgan, Premier
Province of British Columbia



Kate Brown, Governor
State of Oregon

2022 UHSGT Policy and Technical Committee Meetings – **DRAFT SCHEDULE**

| Date | Meeting Topics | Goals |
|------------|---|--|
| January 25 | Policy Committee 1 - complete <ul style="list-style-type: none"> • Policy Committee purpose • Overview of 2022 project • Future work beyond 2022: Project Initiation | <ul style="list-style-type: none"> • Introduced the program • Identified Policy Committee members |
| April 20 | Policy Committee 2 - complete <ul style="list-style-type: none"> • New funding for UHSGT • Feedback on draft initial project scope • Structure and membership of Technical Committee | <ul style="list-style-type: none"> • Reviewed new UHSGT funding • Identified Technical Committee members |
| May 16 | Technical Committee 1 - complete <ul style="list-style-type: none"> • Intros and UHSGT overview • Feedback on draft initial project scope • Feedback on Technical Committee structure | <ul style="list-style-type: none"> • Introduced the program • Confirmed Technical Committee members |
| June 6 | Technical Committee 2 <ul style="list-style-type: none"> • Update on FRA Corridor ID program & WSDOT consultant strategy • Review draft work program • Developing a UHSGT vision statement • Policy & Technical committee charters | <ul style="list-style-type: none"> • Define a plan to develop Expression of Interest language • Establish regular meeting series |
| June | Briefings for WA legislators Welcome legislative members of the Policy Committee and provide briefing on background and expectations | <ul style="list-style-type: none"> • Prep legislative members for Policy Committee |

| | | |
|------------------|---|---|
| June 27 | Technical Committee 3 <ul style="list-style-type: none"> • Review draft expression of interest language • Review draft technical and policy committee charters • Discuss strategy to develop UHSGT vision statement • Review Policy Committee agenda | <ul style="list-style-type: none"> • TC has provided feedback on Expression of Interest letter • Input on and next steps for charter and vision concepts • Refined Policy Committee agenda |
| July 6 | Policy Committee 3 <ul style="list-style-type: none"> • Fed application process & needs – Corridor ID Program & Expression of Interest • Policy Committee charter – review concept • Next steps for developing a UHSGT program – purpose and need | <ul style="list-style-type: none"> • Review Expression of Interest • Plan to define UHSGT vision statement • Set strategic goals & parameters for UHSGT charter document |
| July 11 | Technical Committee 4 <ul style="list-style-type: none"> • Continue developing a UHSGT corridor vision statement and charter – review and discuss drafts • Developing & reviewing Corridor ID proposal – update on consultant plan <p>1. (potential) discuss funding commitments</p> | <ul style="list-style-type: none"> • Provide feedback on draft vision statement and charter • Provide feedback on consultant approach |
| July 25 | Technical Committee 5 <ul style="list-style-type: none"> • Review progress toward Corridor ID proposal • Finalize UHSGT vision statement and charter | <ul style="list-style-type: none"> • Prepare for Policy Committee review of Corridor ID Proposal • Prepare UHSGT vision statement and charter for Policy Committee |
| August 8 | Technical Committee 6 <ul style="list-style-type: none"> • UHSGT Program Vision • Consultant integration | <ul style="list-style-type: none"> • Participants agree on an approach to complete the vision document • Participants are up to date on consultant onboarding |
| August 22 | Technical Committee 7 <ul style="list-style-type: none"> • Finalize UHSGT Program vision for Policy Committee • Finalize revised charter for Policy Committee • Consultant work plan | <ul style="list-style-type: none"> • Vision document is ready for Policy Committee engagement and input • Revised charter is ready for Policy Committee adoption |

| | | |
|--------------------------------|---|---|
| | | <ul style="list-style-type: none"> Participants have provided input on consultant work plan |
| September 12 | Policy Committee 4 <ul style="list-style-type: none"> Review/endorse UHSGT Program Vision Review/endorse UHSGT charter Consultant work plan & 6-month goals update | <ul style="list-style-type: none"> UHSGT charter with vision ready to be signed by partners UHSGT project team has received Policy Committee input on 6-month plan |
| September 19 | Technical Committee 8 <ul style="list-style-type: none"> Detailed plan for Corridor ID Program proposal development and UHSGT strategy | <ul style="list-style-type: none"> Participants have an approach to support and guide the project team |
| October 3 – December 12 | Technical Committee 9-14 <ul style="list-style-type: none"> Support development of Corridor ID Program proposal Support development of UHSGT Program Initiation strategy | <ul style="list-style-type: none"> Corridor ID Proposal and UHSGT strategy ready for endorsement Project team has necessary support to develop federal funding proposal |
| October – November | Committee Member Interviews <ul style="list-style-type: none"> Develop and refine UHSGT vision elements Develop and refine UHSGT scenarios for analysis Quarterly Collaboration Workshops Begin | |
| Dec 8 | Policy Committee 5 <ul style="list-style-type: none"> Review and provide input for draft FRA Corridor ID proposal Review and provide input on Program Initiation strategy, incl. stakeholder engagement strategy | <ul style="list-style-type: none"> UHSGT Corridor ID proposal ready to be submitted UHSGT project team ready to develop scopes of work to meet leg. requirements |
| Future work | <ul style="list-style-type: none"> Finalize and submit Corridor ID Program proposal Develop and endorse UHSGT scenario analysis Develop recommendations for UHSGT Coordinating Entity Develop and endorse stakeholder engagement plan | |

Interim UHSGT Policy and Technical Committee Charter

The purpose of this document is to establish **interim** standard operating procedures and describe roles and responsibilities for the Cascadia Corridor Ultra-High-Speed Ground Transportation (UHSGT) Policy and Technical Committees. This charter will be reviewed and reconsidered at key milestones in the project, including upon award of US federal funding.

PROJECT OVERVIEW

Project Background: In 2021, Governor Jay Inslee, Governor Kate Brown and Premier John Horgan signed an MOU committing each government to partner in advancing UHSGT in the Cascadia corridor. The MOU committed the entities to:

- Establishing a Policy Committee with representatives from Washington, Oregon, B.C., regional planning entities and the private sector.
- Advancing UHSGT work with a focus on equity, emissions reduction, inclusion, and community engagement
- Developing an organizational framework that facilitates inclusive input and decision-making
- Conducting an equitable community outreach and engagement process along the Cascadia corridor, coordinated with legislators
- Jointly pursuing funding opportunities to continue the project

The MOU states, “these activities will lay the groundwork for the creation of a formal, legal entity to continue project development while seeking community engagement and input, gaining critical support from decision makers and positioning the corridor for future funding opportunities and efficient environmental clearance.”

Project Scope: In 2022, the Washington Legislature provided \$4 million in funding (ESSB 5689, Sec. 223) to commence the UHSGT work envisioned by the MOU. Currently, the project is in the program initiation phase, with a scope of work defined by the 2022 legislative proviso as described below.

- a. Developing an organizational framework that facilitates input in decision-making from all parties;
- b. Developing a public engagement approach with a focus on equity, inclusion, and meaningful engagement with communities, businesses, federal, state, provincial, and local governments including indigenous communities;
- c. Developing and leading a collaborative approach to prepare and apply for potential future federal, state, and provincial funding opportunities, including development of strategies for incorporating private sector participation and private sector contributions to funding, including through the possible use of public-private partnerships;
- d. Beginning work on scenario analysis addressing advanced transportation technologies, land use and growth assumptions, and an agreed to and defined corridor vision statement; and

CASCADIA ULTRA-HIGH-SPEED GROUND TRANSPORTATION COMMITTEE CHARTER

- e. Developing a recommendation on the structure and membership of a formal coordinating entity that will be responsible for advancing the project through the project initiation stage to project development and recommended next steps for establishment of the coordinating entity. Project development processes must include consideration of negative and positive impacts on communities of color, low-income households, indigenous peoples, and other disadvantaged communities.

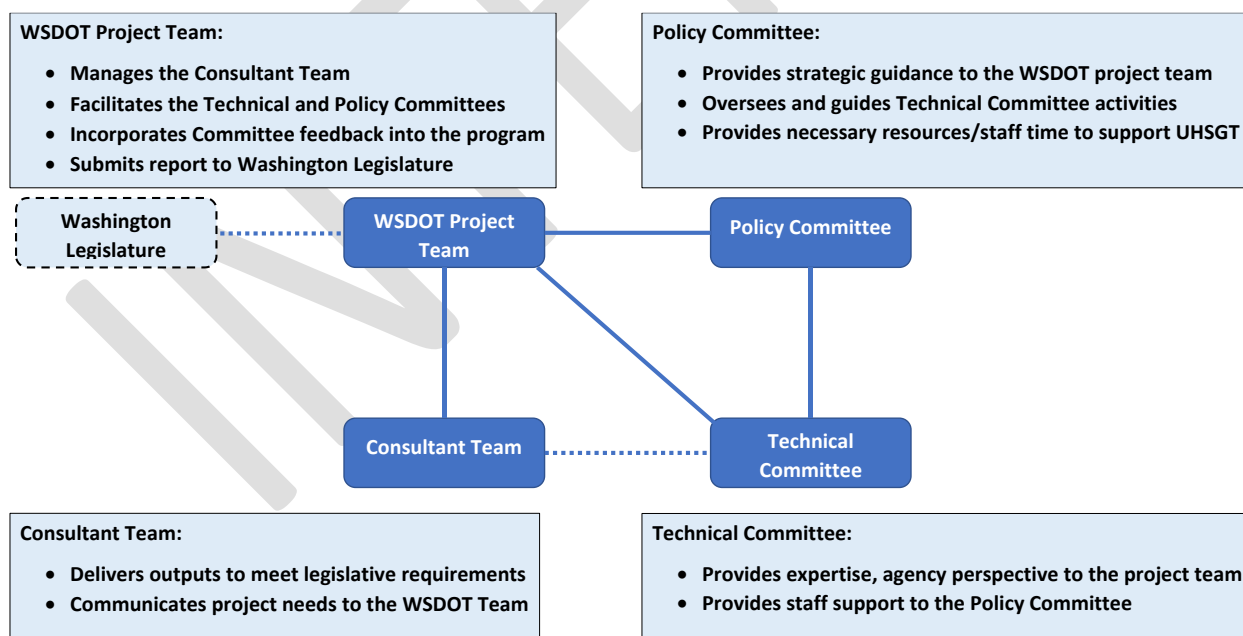
If additional funding or direction is provided in the future, the project scope will be revised.

Project Schedule: UHSGT work will be carried out in several phases. In the short-term, the UHSGT team is working toward several key milestones:

- Q4 2022: Developing and leading a collaborative approach to prepare and apply for potential future funding in response to a federal Notice of Funding Opportunity (anticipated).
- Through summer 2023: developing and implementing other legislative requirements as appropriate
- June 2023: Delivering a report to the Washington legislature on the progress completing work elements in the budget proviso.

The project scope may also need to be revised should the project receive federal assistance and based on project demands that arise.

Organizational structure



COMMITTEE OVERVIEW

CASCADIA ULTRA-HIGH-SPEED GROUND TRANSPORTATION COMMITTEE CHARTER

Purpose: The Policy Committee will provide corridor leadership and policy guidance on UHSGT planning and program initiation work. Policy Committee members will support UHSGT program initiatives and provide input on decisions at key milestones. The Technical Committee will engage in regular dialogue and issue review and resolution with the UHSGT team and provide staff-level support to Policy Committee member understanding and decision-making. The UHSGT committees will discuss topics of relevance to UHSGT work, provide constructive feedback, and contribute the necessary resources to advance the program.

PARTICIPATION

Membership commitment: Policy and Technical Committee member organizations will designate staff to appropriately represent the organization at committee meetings. Committee members will review briefing materials or decision documents prior to meetings. Committee members will contribute with a sense of ownership and respect towards others' priorities and needs.

Member organizations

| | Policy Committee Representative | Technical Committee Representative |
|---|---------------------------------|------------------------------------|
| B.C. Ministry of Transportation | ✓ | ✓ |
| B.C. Intergovernmental Relations Secretariat | ✓ | |
| Translink | ✓ | |
| Washington Department of Transportation | ✓ | ✓ |
| Washington State Legislature—House of Representatives | ✓ | |
| Washington State Legislature—Senate | ✓ | |
| Puget Sound Regional Council | ✓ | ✓ |
| Oregon Department of Transportation | ✓ | ✓ |
| Oregon Metro | ✓ | ✓ |
| Cascadia Innovation Corridor | ✓ | |

CASCADIA ULTRA-HIGH-SPEED GROUND TRANSPORTATION COMMITTEE CHARTER

Alternates: Named committee members are encouraged to attend all meetings. If alternates must attend in their place, they will have the same responsibility of standing members. Alternates are requested to keep members they're substituting for up-to-date on pertinent information throughout the process.

ROLES AND RESPONSIBILITIES

Policy Committee Members: Policy Committee members bring unique perspectives to the Committee and are encouraged to work collaboratively toward a shared vision. The goal is for members to become informed about the work, meaningfully contribute to the discussion, and serve as an ambassador to the interests, areas, and communities they represent. Specifically, Policy Committee members will:

- Work with their staff on the Technical Committee to understand the scope of the issues, and potential approaches to reach solutions
- Speak openly and directly about challenges or concerns with specific UHSGT issues
- Bring a valuable and informed perspective and contribute useful information to the process
- Attend meetings and follow through on promises and commitments
- Work collaboratively, constructively, and creatively to help advise the UHSGT project team
- Abide by the ground rules
- Meet on a quarterly basis unless otherwise provided for by the committee
- Reach consensus in a collaborative environment when key policy direction is needed

Technical Committee Members: Technical Committee members engage in greater detail about UHSGT issues to identify key decision points for Policy Committee discussion. Like the Policy Committee, members should become informed about the issues, contribute useful information to the discussion, and serve as an accurate and objective information conduit with others outside of UHSGT work. Specifically, Technical Committee members will:

- Engage with Policy Committee members to keep them informed about UHSGT issues and key decision points
- Speak openly and directly about challenges or concerns with specific UHSGT issues
- Bring a valuable and informed perspective and contribute useful information to the process
- Attend meetings and follow through on promises and commitments
- Work collaboratively, constructively, and creatively to help advise the UHSGT project team
- Abide by the ground rules
- Meet on a more regular basis with a cadence necessary for meeting the roles and responsibilities of the committee

WSDOT Project Team: The WSDOT Project Team is responsible for administering the program, managing consultant work, and for meeting legislative requirements for UHSGT commensurate with available resources. They will work to facilitate corridor dialogue, advance the administrative elements of the project, manage consultant support, and maintain operation of the Policy and Technical Committees. Specifically, the WSDOT team will:

CASCADIA ULTRA-HIGH-SPEED GROUND TRANSPORTATION COMMITTEE CHARTER

- Manage program administration and the work necessary to meet legislative requirements, while incorporating input from the Policy and Technical committees
- Provide a process that supports constructive and productive dialogue and stays focused on the scope of work for Policy and Technical Committee meetings
- Provide data and facts to support the UHSGT committee process and work with committee members to ensure their ability to represent the concerns and interests of their organizations
- Ensure support for open, balanced, respectful dialogue and interest-based problem-solving and conflict resolution
- Track areas of alignment and divergence, recommendations, and next steps
- Submit report to Washington legislature

PROCESS

The Policy Committee is anticipated to play a role in advancing several key milestones for the project, including:

- Developing the project vision, advising the WSDOT Project Team on scenario analysis, and reviewing and making recommendations on UHSGT scenario analysis outputs
- Advising the WSDOT Project Team on and reviewing and making recommendations for UHSGT coordinating entity structure
- Advising the WSDOT Project Team on community engagement strategies and reviewing and making recommendations on stakeholder engagement plan
- Advising the WSDOT Project Team on the approach to developing, as well as reviewing, making recommendations, and endorsing federal grant application(s)

Decision-Making: The Policy Committee will practice consensus decision-making. For each topic of discussion, Policy Committee members will seek general agreement and an acceptable resolution that can be supported by the group moving forward. Consensus means that Policy Committee members can live with the recommendation, it aligns with their interests and obligations, and can be supported by the committee member. Policy Committee members are committed to reaching decisions and developing recommendations collaboratively to achieve concurrence and build support from partners.

If the Policy Committee cannot reach consensus on a recommendation, the outcome of the discussion will be documented, reflecting the diverse interests represented among Policy Committee members. The UHSGT Team leadership will carry forward the documented outcome along with a recommended course of action to the appropriate decision maker.

The Technical Committee will not be a decision-making body, but instead frame up issues for Policy Committee member discussion.

CASCADIA ULTRA-HIGH-SPEED GROUND TRANSPORTATION COMMITTEE CHARTER

Communications (subject to public disclosure laws)

- **Email:** Email will serve as the primary communication mechanism with the Policy Committee between meetings.
- **Meetings:** In-person Policy Committee meetings are preferred when it's safe and beneficial to do so. Technical Committee meetings will be virtual.
- **Contact list:** A current contact list, including email and phone numbers of Policy Committee and Technical Committee members will be maintained by the facilitator.

Committee Ground Rules

- Honor the agenda
- Come to committee meetings prepared
- Treat one another with civility
- Respect each other's perspectives
- Listen and participate actively
- Speak from interests, not positions
- Seek common ground

DOCUMENTATION

Meeting Summaries: Meeting summaries will capture key discussion points, action items, and areas of agreement. Meeting summaries will not be transcripts of the meeting. Draft summaries will be circulated to the Policy Committee for review and comment. The facilitator will incorporate comments as appropriate into the final summary.

MEETING SCHEDULE: 2022-2023

The Policy Committee shall meet quarterly through the end of 2023 for 90-minute virtual meetings. If agreed to by Policy Committee members, occasional in-person meetings may be scheduled at a location acceptable to members. The Technical Committee will meet every two weeks for 60-minute virtual meetings. Technical Committee meetings may be changed to monthly following submission of the federal funding application.

CHARTER ADOPTION AND AMENDMENT

Attachment 4



August 1, 2022

The Honorable Pete Buttigieg
Secretary, U.S. Department of Transportation
1200 New Jersey Avenue, SE
Washington, DC 20590

RE: Federal Rail Administration Docket No. FRA-2022-0031 Expression of Interest

Dear Secretary Buttigieg:

This letter is intended to serve as an expression of interest in response to the May 12, 2022, Notice of Establishment of the Corridor Identification and Development Program. The Washington State Department of Transportation (WSDOT) and Oregon Department of Transportation (ODOT) look forward to jointly submitting a proposal for a Cascadia Corridor under the program. The proposal will be developed in collaboration with the Province of British Columbia, Canada.

The proposed Cascadia corridor will strengthen connections between Metro Vancouver, B.C., and the metropolitan areas of Seattle, WA, Portland, OR and Eugene, OR. The corridor includes a new ultra-high speed ground transportation system combined with substantial improvements and continued support for Amtrak Cascades service. These systems will work in tandem to connect economies, communities, and transportation systems across our Cascadia corridor, building on past investments, reflecting current priorities, and meeting the needs of our future.

WSDOT and ODOT appreciate this opportunity to respond to the Notice of Establishment. Please contact Ron Pate, WSDOT Rail Freight, and Ports Division Director at paterd@wsdot.wa.gov and Karyn Criswell, ODOT Public Transportation Division Administrator at Karyn.C.Criswell@odot.state.or.us with any questions regarding this submittal.

Sincerely,

Roger Millar, PE, FASCE, FAICP
Washington Secretary of Transportation

Kris Strickler
Director, Oregon Department of Transportation

cc: Ron Pate, WSDOT
Karyn Criswell, ODOT

Materials following this page were distributed at the meeting.



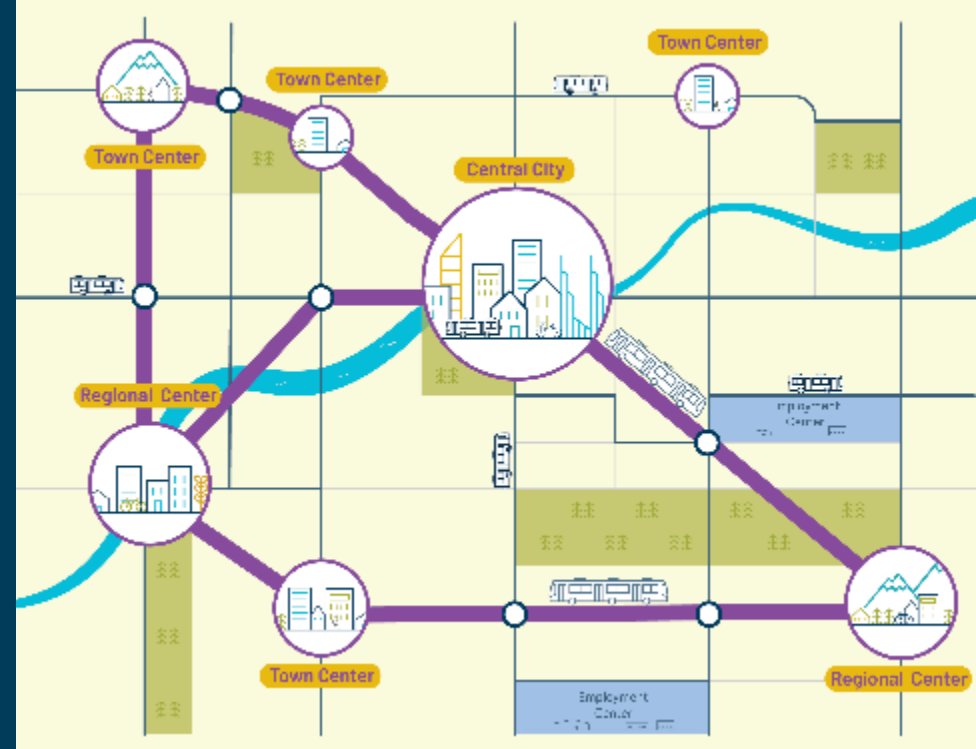
Metro



HCT Strategy Update: Vision & Corridor Readiness Tiers



Establishing the Policy Framework

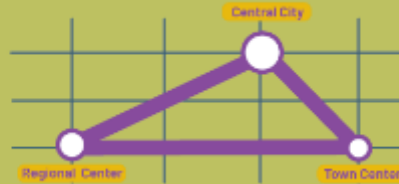


Regional Transit Network Policy 4:
Complete and strengthen a well-connected high capacity transit network to serve as the backbone of the transportation system... High capacity transit prioritizes transit speed and reliability to connect regional centers with the Central City, link regional centers with each other, and link regional centers to major town centers.

High Capacity Transit...



Is frequent



Is direct



Provides a comfortable waiting environment



Serves places with a mix of and many destinations



Runs for most of the day



Is fast and reliable



Moves lots of people



Has its own track or bus lane

Evolving the definition of “high capacity”...

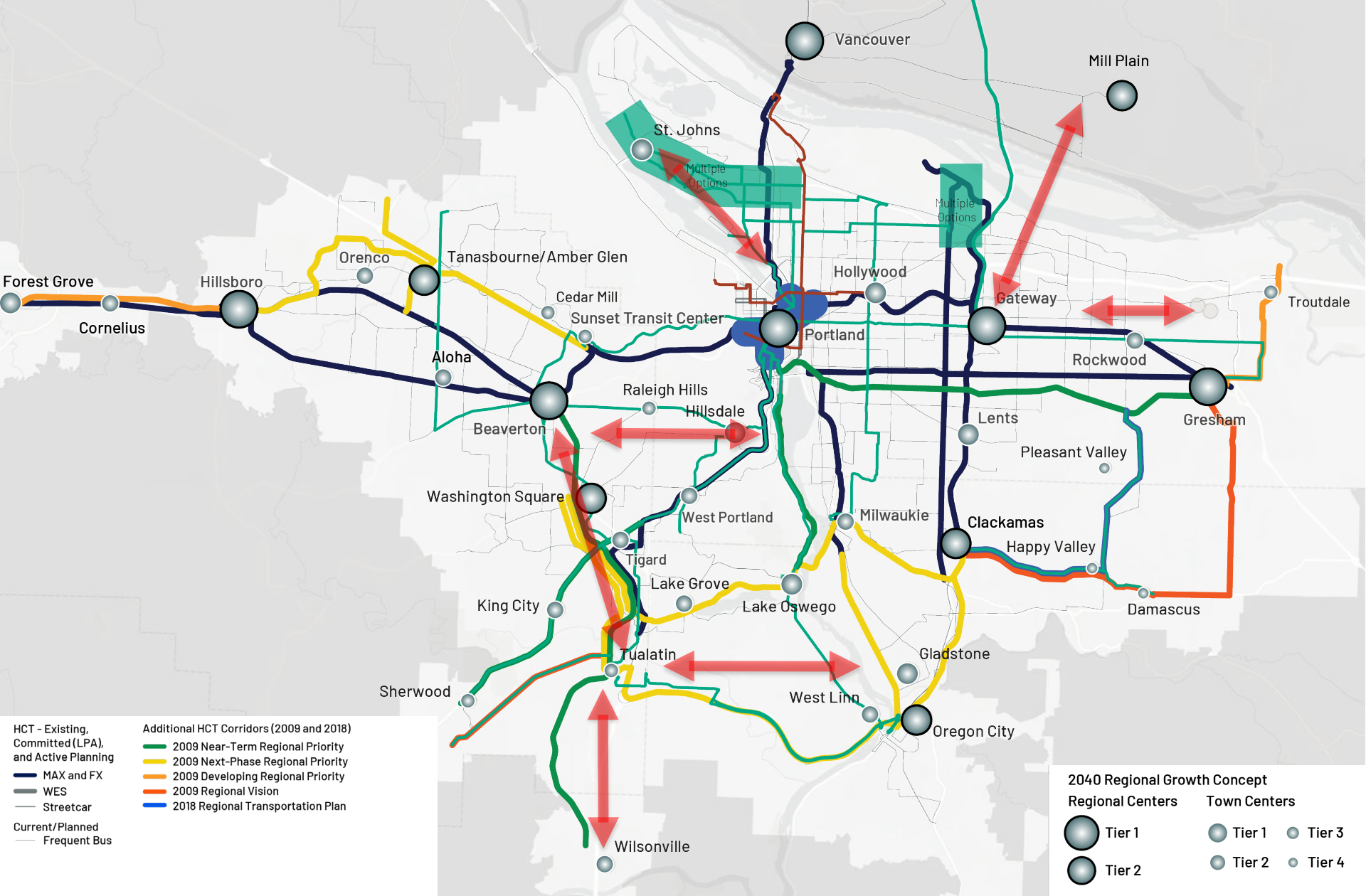
Revised policy language

| Policy | Language |
|---------------------------------|--|
| High Capacity Transit | <ul style="list-style-type: none">• Better reflect the role of high capacity transit as the backbone of the transportation• Incorporate network design spacing best practices• Clarify high capacity transit's role in speed and reliability |
| Equity | <ul style="list-style-type: none">• Better reflect quality of life and environmental justice |
| Climate | <ul style="list-style-type: none">• Incorporate language related to mode shift goals• Clarify what is meant by "clean fleet" |
| Coverage & Frequency | <ul style="list-style-type: none">• Creating flexibility in coverage and frequency by looking to first expand frequent service to other 2040 growth areas |

Expanded HCT Mode Spectrum

| Mode | Aerial Tram | Intercity Rail | Commuter Rail HCT | Light Rail HCT | BRT HCT | Rapid Bus (Corridor-Based BRT) HCT | Rapid Streetcar HCT | Streetcar HCT ⁴ | Frequent Bus | Regional Bus | Vanpool, Microtransit, etc. |
|---|--|--|---|----------------------------------|---|--|---|-------------------------------|--|---------------------------------------|--|
| Level of Transit Prioritization | Full Priority Fully dedicated space where transit vehicles run/operate that is not shared with general traffic. | Full Priority | Full Priority | Full Priority | High Priority (>50% Exclusive Guideway) | High to Moderate Priority | Full to Majority Priority | Moderate to Low Priority | Moderate to Low Priority (Spot Treatments) | Limited to No Priority | |
| Frequency | Most Frequent < 10 mins | Varies | Frequent (Peak Hours) 15-30 mins | Most Frequent ~ 10 mins | Very Frequent ≤ 15 mins | Very Frequent ≤ 15 mins | Very Frequent ≤ 15 mins | Frequent 15 mins | Frequent 15 mins | Less Frequent (Varies) | Less Frequent (Varies) |
| Market Demand/Activity Density ¹ | Serves major activity centers | Connections between cities and regions 35+ | Serves medium or higher volume corridors with commute-oriented demand 25+ | Serves high volume corridors 50+ | Serves medium-high volume corridors 25+ | Serves medium-high volume corridors 25+ | Serves medium-high volume corridors 25+ | Serves dense urban areas 25+ | Serves medium volume corridors 12.5 | Serves low to medium volume corridors | To be addressed in Metro Access to Transit Study (2024+) |
| Passenger Capacity ² | High | High | High | High | High | High | High | Medium | Medium | Low | |
| Transit Access Shed | 1/2 Mile | > 1/2 Mile | 1/2 Mile | 1/2 Mile | 1/2 Mile | 1/2 Mile | 1/2 Mile | 1/3 Mile | 1/4 Mile | 1/4 Mile | |
| Stop/Station Amenities | Full | Full | Full | Full | Full | Full | Full | Basic | Basic | Basic | |
| Capital Cost per Passenger ³ | High | High | Medium | Medium | Medium | Medium | Medium | Medium | Medium | Medium | |
| Operating Cost per Passenger ³ | High | High | Medium | Medium | Medium | Medium | Medium | Medium | Medium | Medium | |

1. people per acre
 2. based on vehicle capacity and frequency
 3. per passenger capacity
 4. depending on context

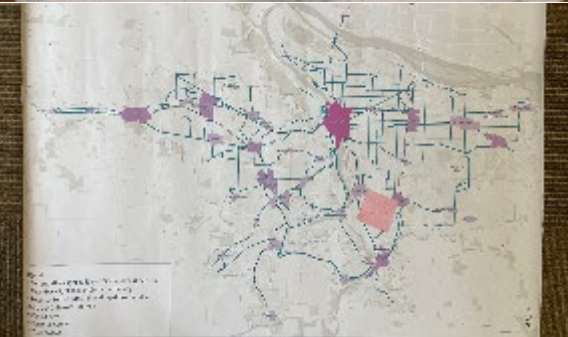


Expanding the Network Vision



Public Good
Connections Equity
Frequency Affordability

Comfort Routes
Driving-alternative
Cost-effectiveness
Stability
Accessibility Clear priorities
Accountability
Safety
Climate
Connections Access



What should the vision for high capacity transit look like?
 Make connections between regional centers. Consider how to get people in regions to address 2022 priorities
 In general, 2 million for regional, 2.5M for state, and 7 million for national 2045 priorities.



What should the vision for high capacity transit look like?
 More connections between regional centers. Consider how to get people in regions to address 2022 priorities
 In general, 2 million for regional, 2.5M for state, and 7 million for national 2045 priorities.

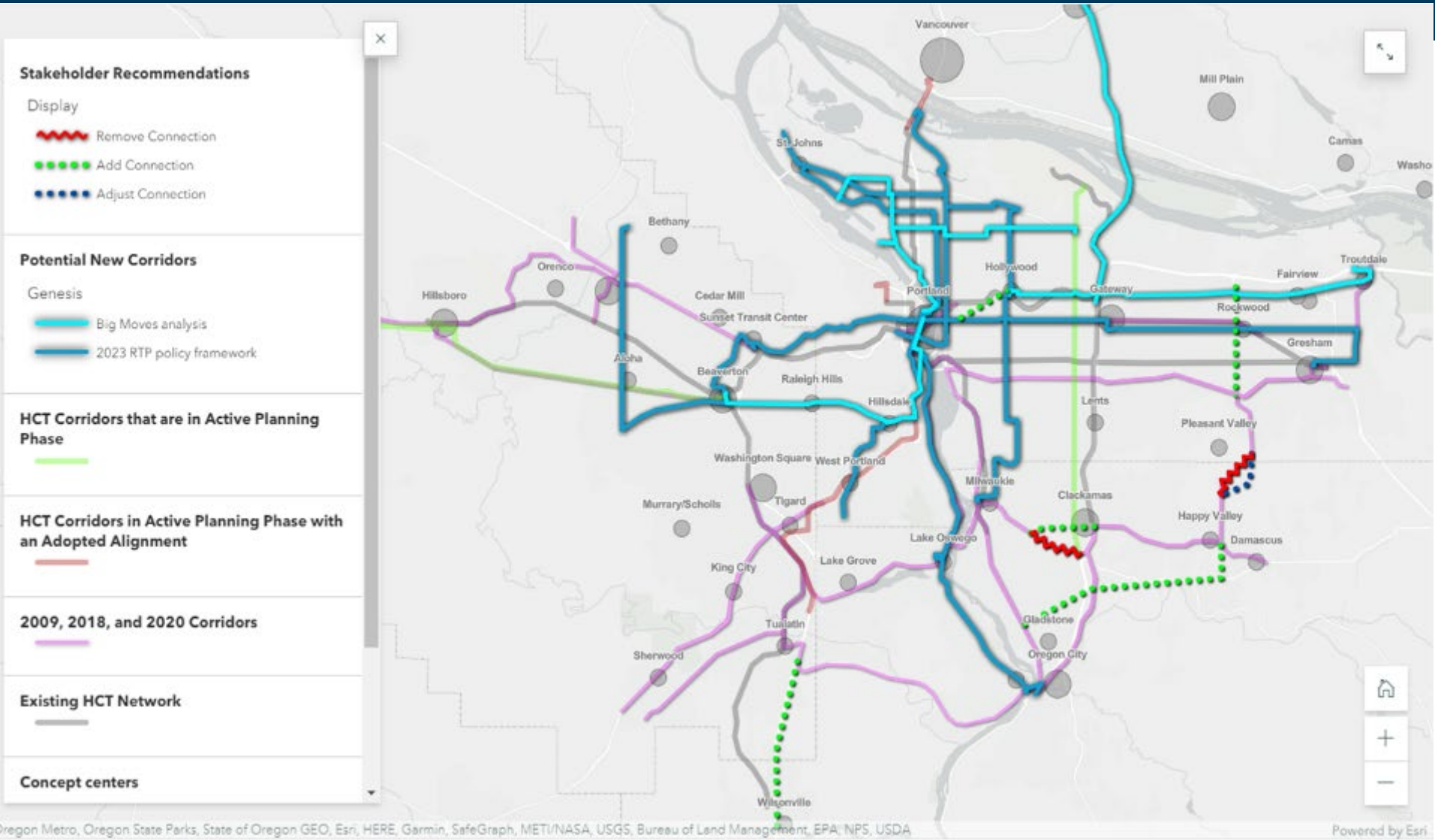


What should the vision for high capacity transit look like?
 More connections between regional centers. Consider how to get people in regions to address 2022 priorities
 In general, 2 million for regional, 2.5M for state, and 7 million for national 2045 priorities.



Fall Outreach and Working Group Refinement

Working together to make refinements...

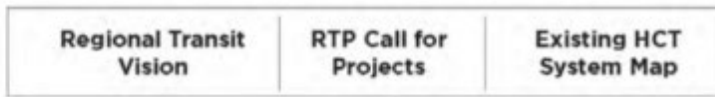




Metro



Assessing Readiness & Tiering Corridors



To be evaluated a project must be:
 (1) In Regional Transit Strategy
 (2) Eligible for the FTA Capital Investment Grant (CIG) Program



Core Criteria Assessment

MOBILITY AND RIDERSHIP

- Current and/or future ridership
- Transit rider travel time benefit

LAND USE SUPPORTIVENESS AND MARKET POTENTIAL

- Land use supportiveness
- Supportiveness of urban form
- Enhances connections to and between 2040 Growth Areas
- Rebuilding/ redevelopment opportunity

COST EFFECTIVENESS

- Operating Cost (Operating Cost per Rider)
- Capital Cost (Capital Cost per Rider)

EQUITY BENEFIT

- Access to jobs and services for historically marginalized populations

ENVIRONMENTAL BENEFIT

- Reduction in emissions

“Level 2” Evaluation



Readiness Assessment



Filtering Process
 (1) Core criteria assessment
 (2) Time horizon



Readiness Criteria Assessment

FUNDING POTENTIAL

- FTA Scoring Assessment (based on FTA New/Small Starts CIG criteria)

LOCAL COMMITMENT AND PARTNERSHIPS

- Documented local and community support
- Adopted transit-supportive population and employment growth aspirations
- Supportive land use policies
- Partnerships with agencies and municipalities, including right-of-way owner
- Displacement analysis and partnerships, policies and tools

“NOT READY”
 All projects that go through the Core Criteria Assessment will be included in the “Scorecard”

“READY”
 Projects that meet readiness criteria advance into FTA process based on local / regional capacity

Assessment of Regional Transit Investments “Scorecard”

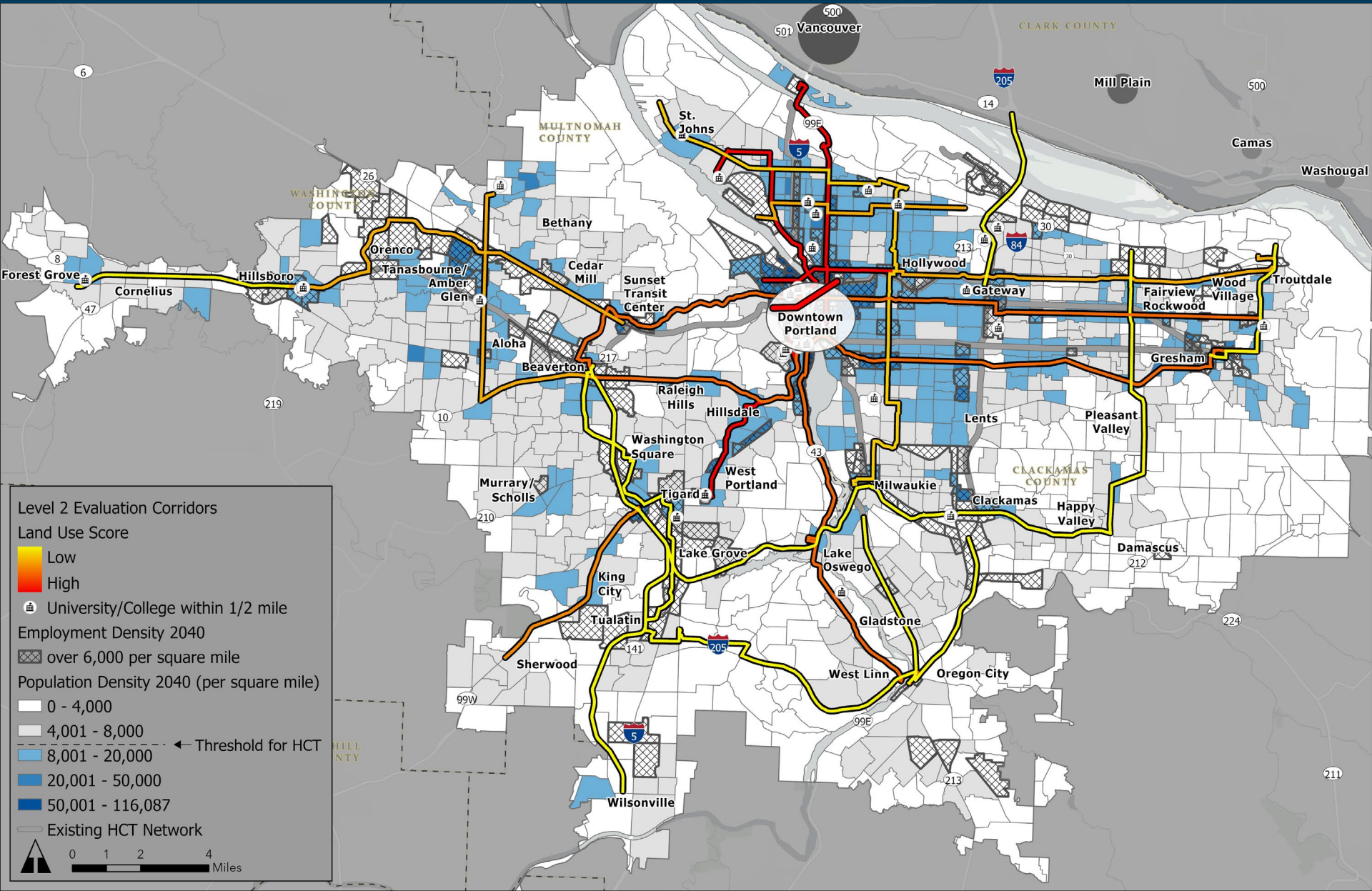
FTA PROJECT DEVELOPMENT

Thinking about initial screening...

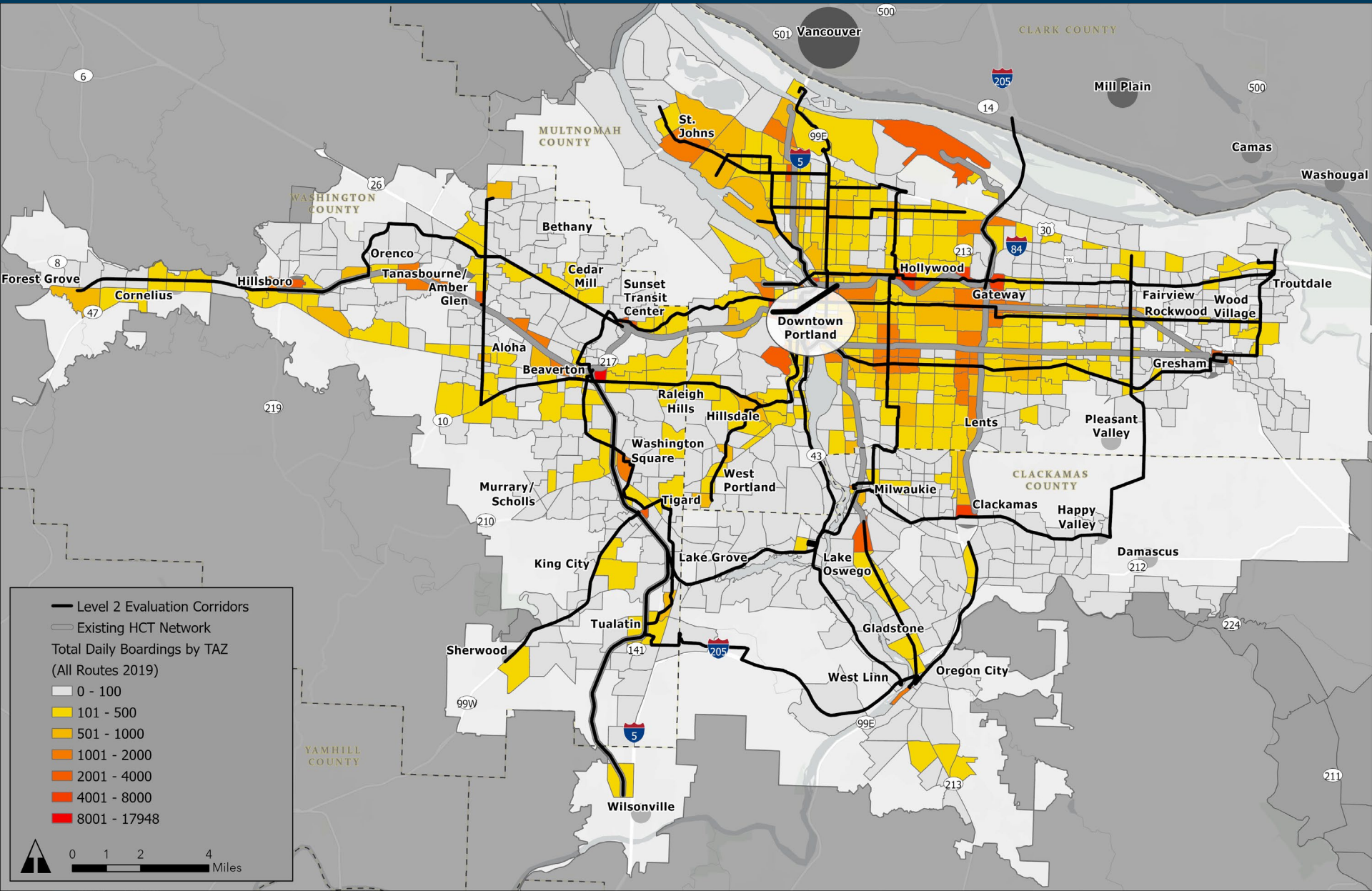
Level 2 Evaluation Criteria

| Criteria | Measure | Notes |
|---|---|---|
| Land Use Supportiveness and Market Potential | <ul style="list-style-type: none"> Population density Employment density Presence of higher education institutions Number of affordable housing units, normalized | <p>Key ridership factors</p> <p>Nexus with CIG criteria</p> |
| Equity Benefit | <ul style="list-style-type: none"> Key destinations within ½ mile of corridor, normalized Share of historically marginalized populations within ½ mile of corridor | Nexus with CIG criteria |
| Mobility | <ul style="list-style-type: none"> Transit travel time to car travel time ratio | Indication of need for transit priority |
| Productivity + Cost Effectiveness | <ul style="list-style-type: none"> Existing TriMet boardings per revenue hour Capital cost per rider estimates | <p>Cost efficiency</p> <p>Nexus with CIG criteria</p> |
| Environmental Benefit | <ul style="list-style-type: none"> Change in GHG emissions associated with HCT investment in a given corridor | Nexus with CIG criteria |

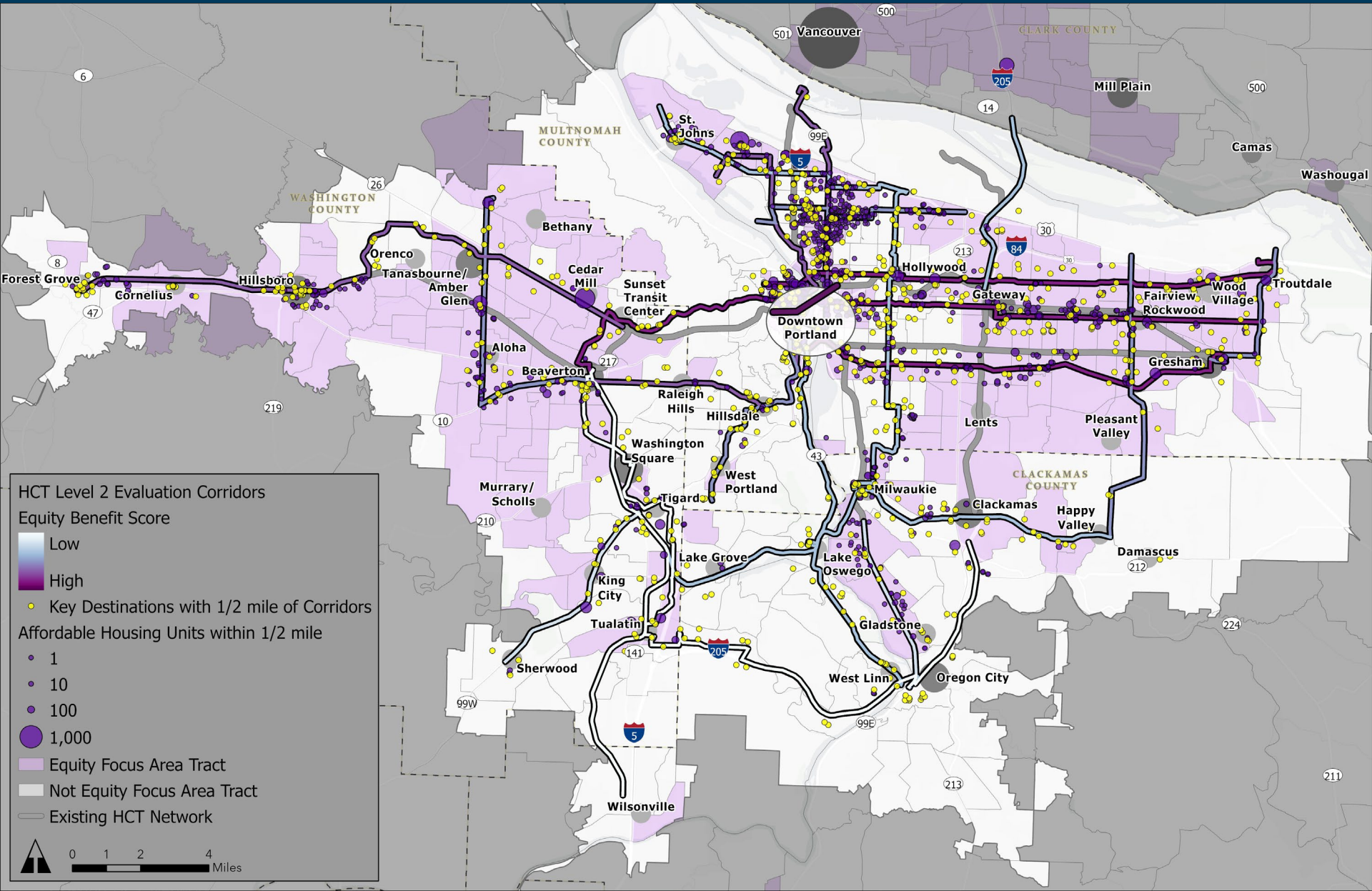
Land Use Supportiveness



Current Ridership



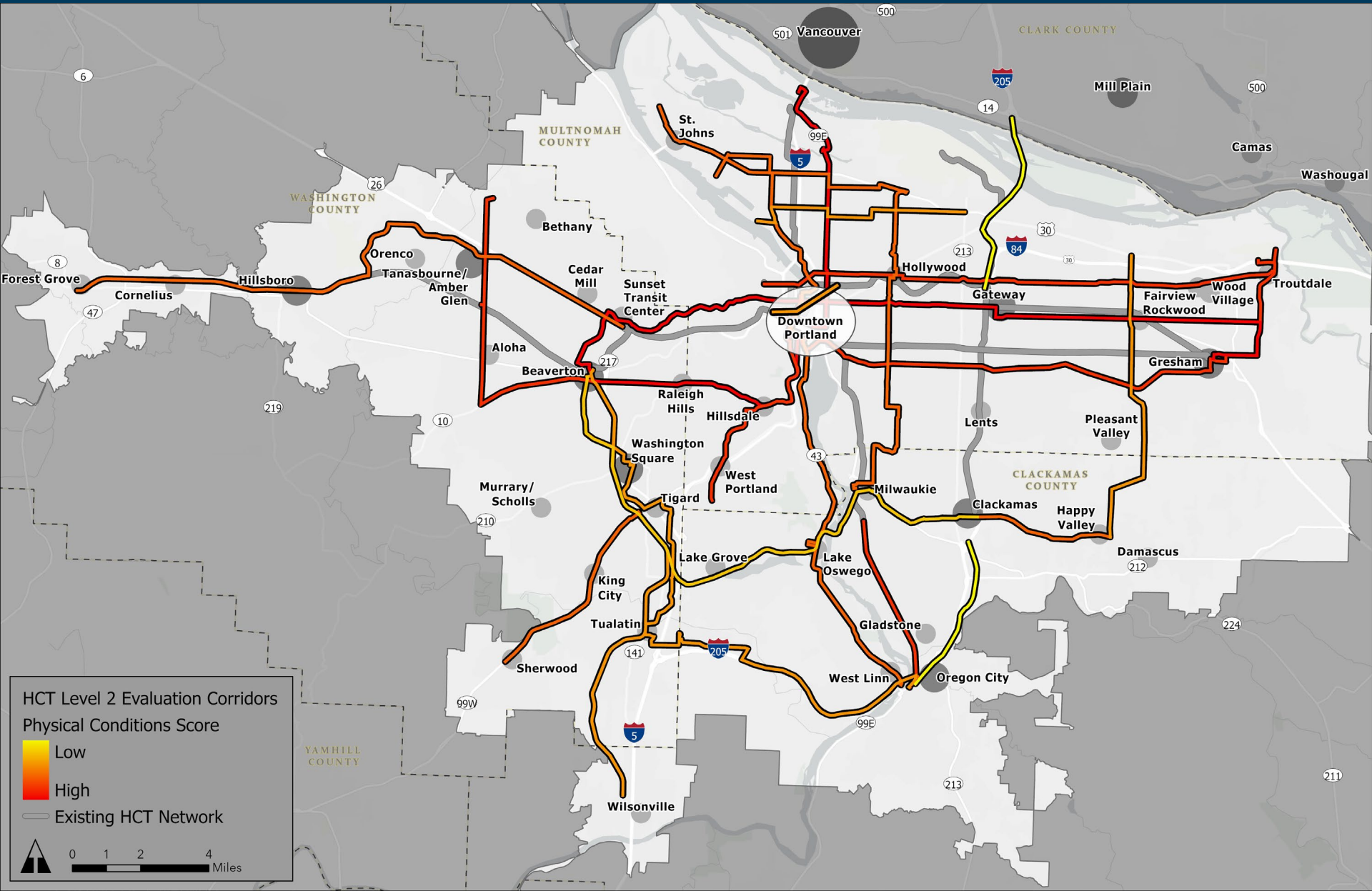
Equity Benefit and Key Destinations



Readiness Criteria

| Criteria | Measure |
|-------------------------------------|---|
| Documented Support | <ul style="list-style-type: none">• Corridors identified in local Transportation Plans• Transit-supportive land use policies identified in local Comprehensive Plans• Work complete to date |
| Existing Physical Conditions | <ul style="list-style-type: none">• Percent of corridor with more than 3 lanes of road• Miles of sidewalk within ½ mile of corridor, normalized• Miles of street with bike facility present within ½ mile of corridor, normalized |
| Implementation Complexity | <ul style="list-style-type: none">• Corridor length• Percentage of corridor in freight corridor |

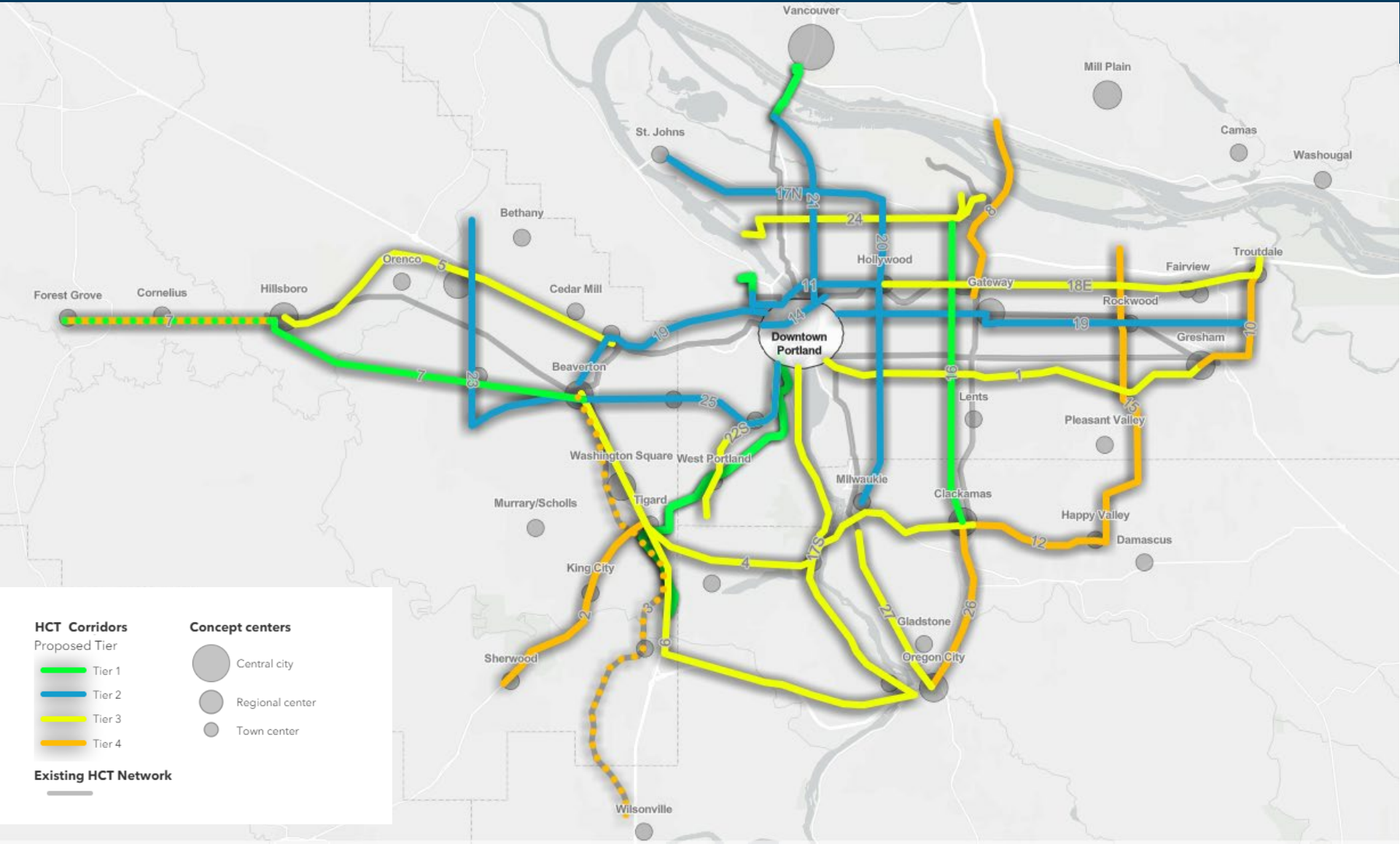
Physical Conditions



Tiering Approach & Structure

| Tier | | Description |
|------|---|--|
| 1 | Regional Priority Corridors | <ul style="list-style-type: none"> Adopted LPA, or active work underway (e.g., 82nd Avenue) Not evaluated in L2/Readiness, assumed to advance |
| 2 | Emerging Regional Priority Corridors | <ul style="list-style-type: none"> Score well on L2 and Readiness criteria Corridor ready to move forward Additional actions could advance corridor in next five years |
| 3 | Developing Corridors | <ul style="list-style-type: none"> Score moderately on L2 and Readiness criteria May not yet have sufficient population density/land use policies in place, other needs More time required before advancing these corridors |
| 4 | Future Corridors | <ul style="list-style-type: none"> Score lower on L2 or Readiness criteria Additional conditions needed to support HCT May be candidates for other types of project investment |

Corridor Tiers



Proposed Tiers

| Potential Project and Representative Corridor | Evaluation Score | Readiness Score | Total Score | Tier | Geography |
|--|------------------|-----------------|-------------|------|-------------------------------|
| NW Lovejoy to Hollywood via Broadway/Weidler | ● | ● | ● | 2 | Portland/Multnomah |
| Central City Tunnel | ● | ● | ● | 2 | Portland/Regional |
| Beaverton - Portland - Gresham via Burnside | ● | ● | ● | 2 | Washington/Portland/Multnomah |
| Hayden Island - Downtown Portland via MLK | ◐ | ● | ● | 2 | Portland |
| Bethany to Beaverton via Farmington/SW 185th | ◐ | ● | ◐ | 2 | Washington |
| Beaverton to Portland via Hwy 10 (BH Hwy) | ◐ | ● | ◐ | 2 | Washington/Multnomah |
| St Johns - Downtown Portland via Vancouver/Williams, Rosa Parks | ◐ | ◐ | ◐ | 2 | Portland |
| St. Johns - Milwaukie via Cesar Chavez | ◐ | ◐ | ◐ | 2 | Portland |
| Portland to Gresham in the vicinity of Powell Corridor | ◐ | ● | ● | 3 | Multnomah |
| PCC Sylvania to Downtown Portland via Capitol Hwy | ◐ | ◐ | ◐ | 3 | Portland |
| Sunset Transit Center to Hillsboro via Hwy 26/ Evergreen | ◐ | ◐ | ◐ | 3 | Washington |
| Swan Island to Parkrose | ◐ | ◐ | ◐ | 3 | Portland |
| Oregon City to Downtown Portland via Hwy 43 | ◐ | ◐ | ◐ | 3 | Clackamas/Multnomah |
| Hollywood to Troutdale | ◐ | ◐ | ◐ | 3 | Portland/Multnomah |
| Park Ave MAX Station to Oregon City via the McLoughlin Corridor | ○ | ● | ◐ | 3 | Clackamas |
| Beaverton - Tigard - Tualatin - Oregon City | ○ | ◐ | ◐ | 3 | Clackamas/Washington |
| Beaverton - Tigard - Lake Oswego - Milwaukie - Clackamas Town Cent | ◐ | ◐ | ◐ | 3 | Clackamas/Washington |
| Hillsboro to Forest Grove | ◐ | ◐ | ◐ | 4 | Washington |
| Gresham to Troutdale | ◐ | ◐ | ◐ | 4 | Multnomah |
| Tigard to Sherwood via Hwy 99W Corridor | ◐ | ◐ | ◐ | 4 | Washington |
| Beaverton to Wilsonville in the vicinity of WES | ○ | ◐ | ◐ | 4 | Washington |
| Happy Valley to Columbia Corridor via Pleasant Valley | ○ | ◐ | ◐ | 4 | Multnomah/Clackamas |
| Clackamas Town Center to Damascas | ○ | ◐ | ○ | 4 | Clackamas |
| Clackamas Town Center to Oregon City | ○ | ◐ | ○ | 4 | Clackamas |
| Gateway to Clark County in the vicinity of I-205 Corridor | ○ | ○ | ○ | 4 | Multnomah/Clark |

Portland Corridors

| Potential Project and Representative Corridor | Evaluation Score | Readiness Score | Total Score | Tier | Geography |
|---|------------------|-----------------|-------------|------|-------------------|
| Central City Tunnel | ● | ● | ● | 2 | Portland/Regional |
| NW Lovejoy to Hollywood via Broadway/Weidler | ● | ● | ● | 2 | Portland |
| Hayden Island - Downtown Portland via MLK | ◐ | ● | ● | 2 | Portland |
| St Johns - Downtown Portland via Vancouver/Williams, Rosa Parks | ◐ | ◐ | ◐ | 2 | Portland |
| St. Johns - Milwaukie via Cesar Chavez | ◐ | ◐ | ◐ | 2 | Portland |
| PCC Sylvania to Downtown Portland via Capitol Hwy | ◐ | ◐ | ◐ | 3 | Portland |
| Swan Island to Parkrose | ◐ | ◐ | ◐ | 3 | Portland |

Multnomah Corridors

| Potential Project and Representative Corridor | Evaluation Score | Readiness Score | Total Score | Tier | Geography |
|---|------------------|-----------------|-------------|------|-------------------------------|
| Central City Tunnel | ● | ● | ● | 2 | Portland/Regional |
| Beaverton - Portland - Gresham via Burnside | ● | ● | ● | 2 | Washington/Multnomah |
| Beaverton to Portland via Hwy 10 (BH Hwy) | ◐ | ● | ◑ | 2 | Washington/Multnomah |
| Portland to Gresham (Powell Corridor) | ◑ | ● | ● | 3 | Multnomah |
| Oregon City to Downtown Portland via Hwy 43 | ◐ | ◐ | ◐ | 3 | Clackamas/Multnomah |
| Hollywood to Troutdale | ◑ | ◐ | ◐ | 3 | Portland/Multnomah |
| Gresham to Troutdale | ◑ | ◑ | ◐ | 4 | Multnomah |
| Happy Valley to Columbia Corridor (Pleasant Valley) | ○ | ◐ | ◑ | 4 | Multnomah/Clackamas |
| Gateway to Clark County (I-205 Corridor) | ○ | ○ | ○ | 4 | Multnomah/Clark ²² |

Clackamas County Corridors

| Potential Project and Representative Corridor | Evaluation Score | Readiness Score | Total Score | Tier | Geography |
|---|------------------|-----------------|-------------|------|----------------------|
| Central City Tunnel | | | | 2 | Portland/Regional |
| Oregon City to Downtown Portland via Hwy 43 | | | | 3 | Clackamas/Multnomah |
| Park Ave MAX Station to Oregon City via the McLoughlin Corridor | | | | 3 | Clackamas |
| Beaverton - Tigard - Tualatin - Oregon City | | | | 3 | Clackamas/Washington |
| Beaverton - Tigard - LO- Milwaukie - CTC | | | | 3 | Clackamas/Washington |
| Happy Valley to Columbia Corridor (Pleasant Valley) | | | | 4 | Multnomah/Clackamas |
| Clackamas Town Center to Damascas | | | | 4 | Clackamas |
| Clackamas Town Center to Oregon City | | | | 4 | Clackamas |

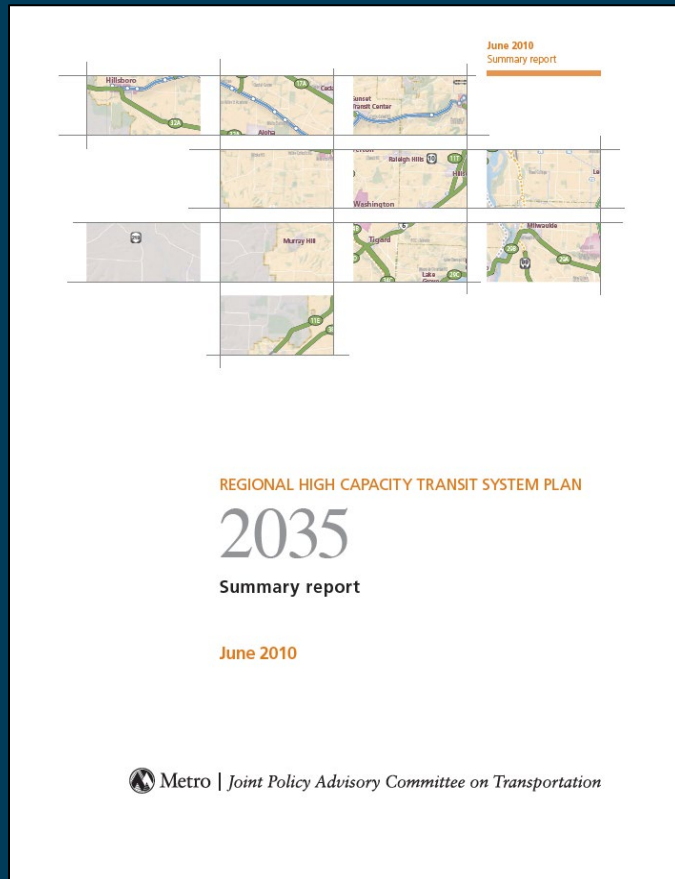
Washington County Corridors

| Potential Project and Representative Corridor | Evaluation Score | Readiness Score | Total Score | Tier | Geography |
|---|------------------|-----------------|-------------|------|----------------------|
| Central City Tunnel | ● | ● | ● | 2 | Portland/Regional |
| Beaverton - Portland - Gresham via Burnside | ● | ● | ● | 2 | Washington/Multnomah |
| Bethany to Beaverton via Farmington/SW 185th | ◐ | ● | ◑ | 2 | Washington |
| Beaverton to Portland via Hwy 10 (BH Hwy) | ◐ | ● | ◑ | 2 | Washington/Multnomah |
| Sunset Transit Center to Hillsboro (Hwy 26) | ◑ | ◐ | ◑ | 3 | Washington |
| Beaverton - Tigard - Tualatin - Oregon City | ○ | ◐ | ◑ | 3 | Clackamas/Washington |
| Beaverton - Tigard - LO - Milwaukie - CTC | ◑ | ◐ | ◑ | 3 | Clackamas/Washington |
| Hillsboro to Forest Grove | ◑ | ◐ | ◑ | 4 | Washington |
| Tigard to Sherwood via Hwy 99W Corridor | ◐ | ◑ | ◑ | 4 | Washington |
| Beaverton to Wilsonville in the vicinity of WES | ○ | ◐ | ◑ | 4 | Washington |



Planning Winter Engagement





Outlining the Report

- Introduction
- HCT System Today
 - Status, Challenges & Opportunities
- Policy Framework
- Network Vision
- Corridor Investment Tiers
- Supporting the Vision
 - Urban Form; ROW & Street Design; System Integration, Features & Access; Cost & Funding; Plans & Partnerships
- Implementation
 - Strategies
 - Corridor Planning Needs
 - Future Study
- Appendices



Looking to Next Steps



Thank you!!

oregonmetro.gov



Cascadia Ultra-High-Speed Ground Transportation



TPAC Presentation

January 11, 2023

Ally Holmqvist | Senior Transportation Planner
Metro

Jennifer Sellers | Rail Operations and Statewide Multimodal Network Unit Manager
Oregon Department of Transportation

Jason Beloso | Strategic Planning Manager
Washington State Department of Transportation

MOU (November 2021)

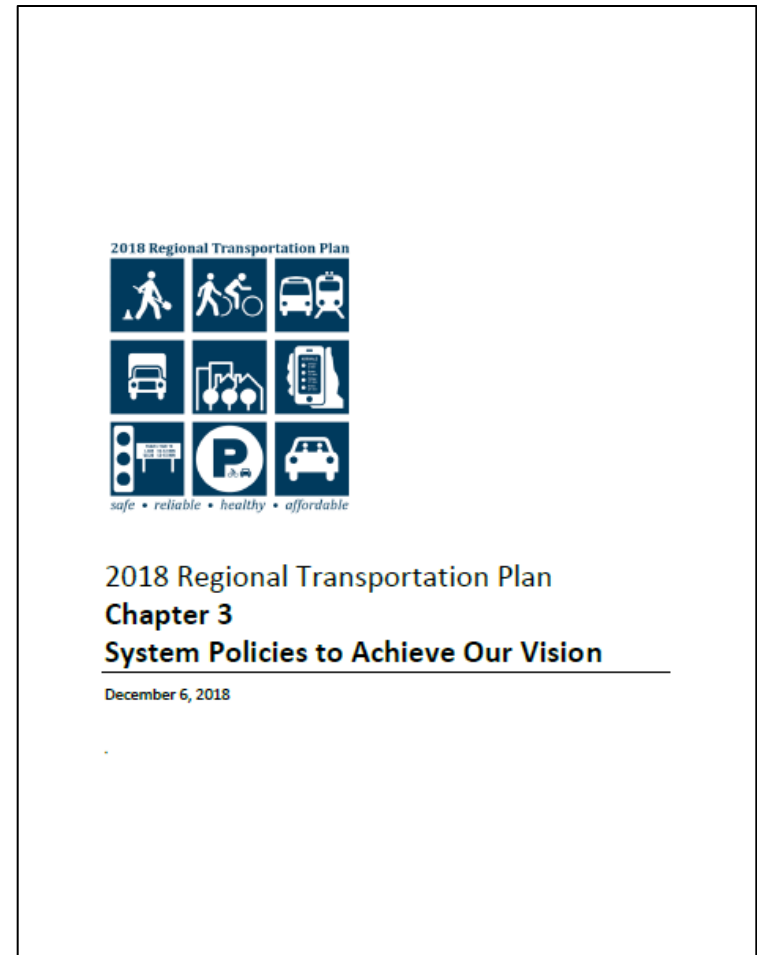
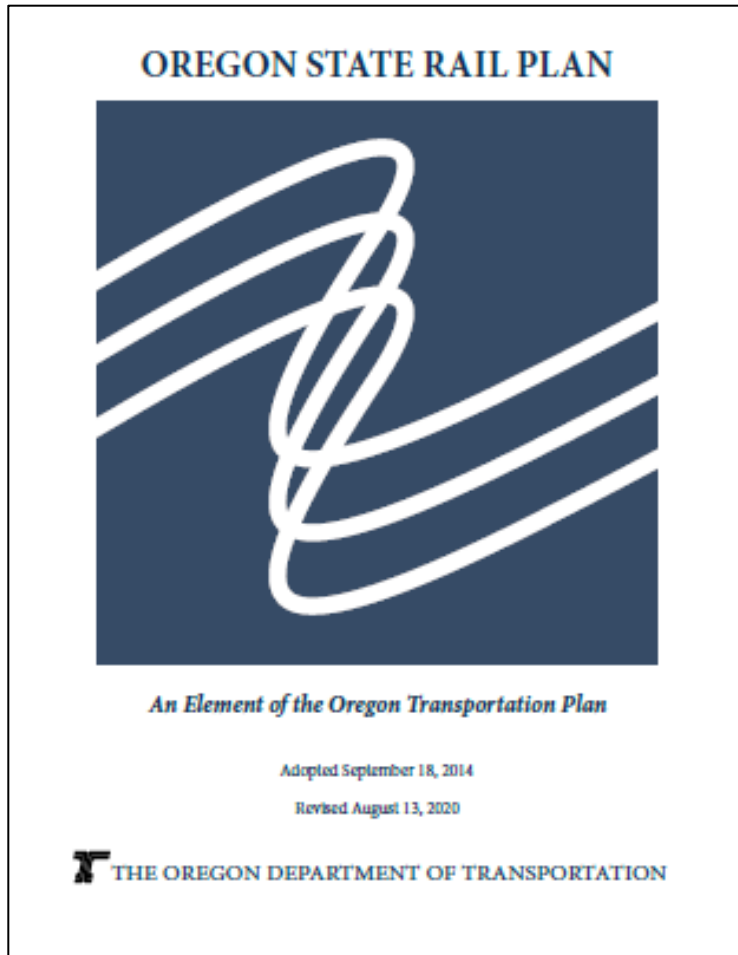


Washington – British Columbia – Oregon

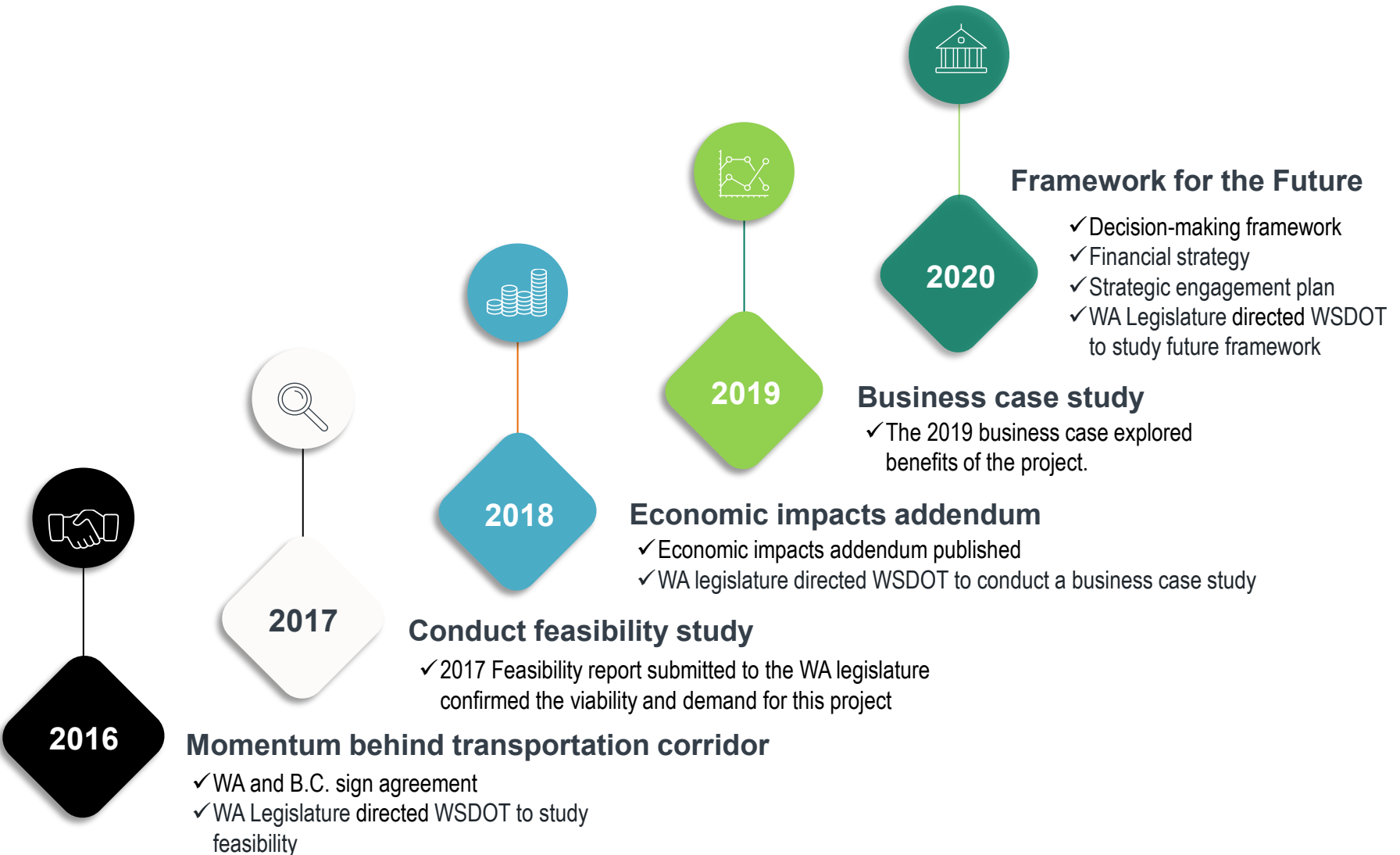
Memorandum of Understanding (MoU)

**On Committing to Advance Activities
in Support of an Ultra-High-Speed Ground Transportation Project**

Oregon State Rail Plan and Regional Transportation Plan



Previous UHSGT studies



UHSGT Program Context

- UHSGT is at the very beginning – **no major decisions** have been made
- We have **not started planning** for **alignments** or **station locations**
- UHSGT is a **partnership** between OR, WA, and BC – we see Oregon Metro leadership as critical
- It's important to **get this right**, even if it takes time



UHSGT overview

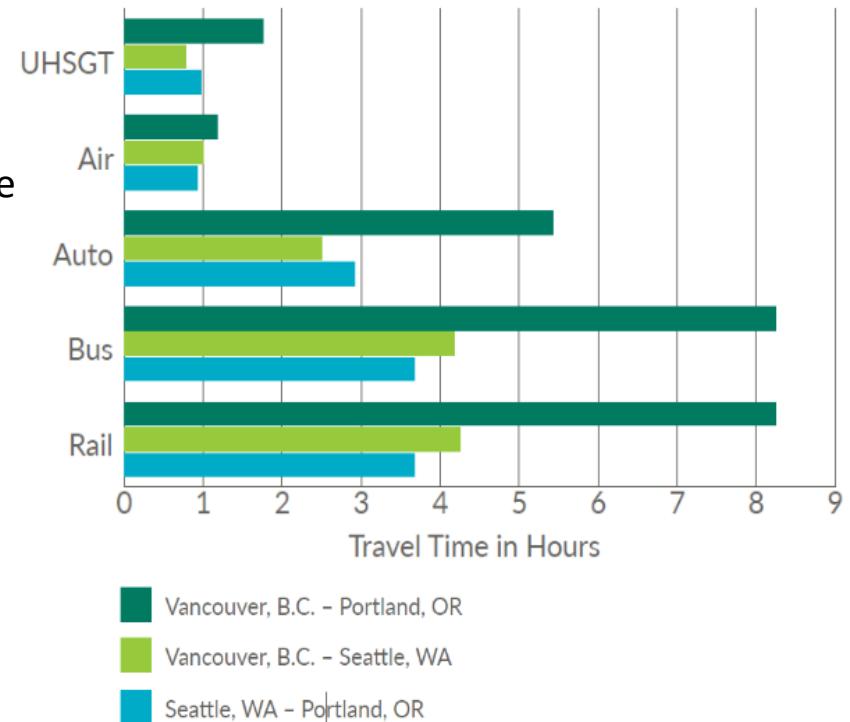
Summary

- Linking **Seattle, Portland, and Vancouver, BC metros**, with possible additional stops in between
- Speeds up to **250 mph (400 kph)**
- **Connections** to existing trains, transit, and rideshare options
- Anticipates **public and private investment**
- Estimated **economic growth** potential in excess of \$355 billion USD, with 200,000 new jobs related to construction and ongoing operations
- **Offsets** 6 million metric tons of CO₂ emissions

Goals

- **Efficient, equitable, and sustainable mobility**
- **Regional integration**
- **Economic growth and innovation**

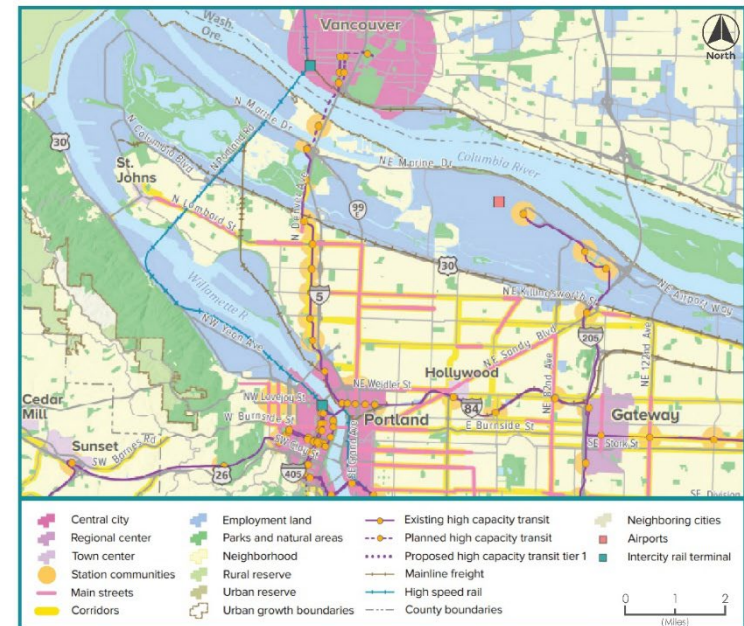
Travel Times by Mode



Early conceptual corridors

- Sought “sweet spot” for **tradeoffs** between adding stations and reducing travel time
- Evaluated **scenarios** and **services** with up to nine stations and modal connections
- Compared conceptual **stations** in downtown cores vs suburban sites vs airports
- Analyzed ability to construct a fairly straight alignment to **maximize** benefit of **technology**
- Looked at **topography** of corridor that will require tunneling, elevated tracks, bridges, and grade separation from roadways

Ultra High-Speed Ground Transportation Study Station Screening Criteria GREATER PORTLAND Value Capture Potential



Planned future land use with higher density multi-use areas have potential to equate to higher value capture. Source: Oregon Metro 2040 Growth Concept

Downtown Portland

The station is located in the Portland Metro “central city,” which serves as the principal business, employment, cultural and entertainment location for the region.

Vancouver, WA

The station is located in downtown Vancouver, WA, which is designated as a “central city,” that exists north of Portland in Washington state.

Portland Airport

The station is located in an “employment land” designation, which is defined by Oregon Metro as regionally significant industrial areas or employment areas that include a mix of employment uses.

Maximizing program value and benefit



Planning considerations

- Environmental and social **equity** needs to be at the forefront of decisions
- Balance possible transformations in small towns and weighing **job opportunities** with **quality of life** issues
- Promote innovation and **future industries**
- Encourage **infill development** possibilities and **high-capacity corridors**
- Enhance **connections** across industry clusters and transportation systems
- Advocate megaregion's future growth potential in **global market**

LEGEND



GOVERNANCE FRAMEWORK

- G1 Develop enabling agreement between the three jurisdictions
- G2 Develop governance structure for the Project Development Stage



STRATEGIC ENGAGEMENT PLAN

- S1 Build support from decision-makers for Coordinating Entity
- S2 Develop/refine a project identity and vision
- S3 Initiate equitable local engagement
- S4 Initiate ongoing consultation with Tribes and Indigenous Communities
- S5 Build a broader coalition of support



FUNDING AND FINANCE STRATEGY

- F1 Establish funding for Coordinating Entity
- F2 Evaluate federal and state/provincial funding options and develop a strategy for securing funding commitments
- F3 Pursue and secure federal and state/provincial funding opportunities
- F4 Evaluate best techniques for capturing value

CASCADIA UHSGT FRAMEWORK FOR THE FUTURE

DEVELOPMENT ENTITY

- Environmental Clearance Preliminary (NEPA/CEQA)
- Engineering/Design
- Risk Assessment
- Procurement and P3 Policies

CONSTRUCTION

- Land Acquisition
- Vehicle Procurement
- Final Design
- Construction



FEASIBILITY STUDY
(2017-2018)

BUSINESS CASE ANALYSIS
(2019)

FRAMEWORK REPORT
(2020)

Select UHSGT Technology

COORDINATING ENTITY

- Pre-Environmental Analysis
- Conceptual Engineering
- Stakeholder Engagement
- Future Project Governance
- Funding Strategy

Recent developments

Memorandum of Understanding

- BC, WA, and OR, signed November 2021
- Commits to **implementing** project initiation next steps

UHSGT Policy Committee

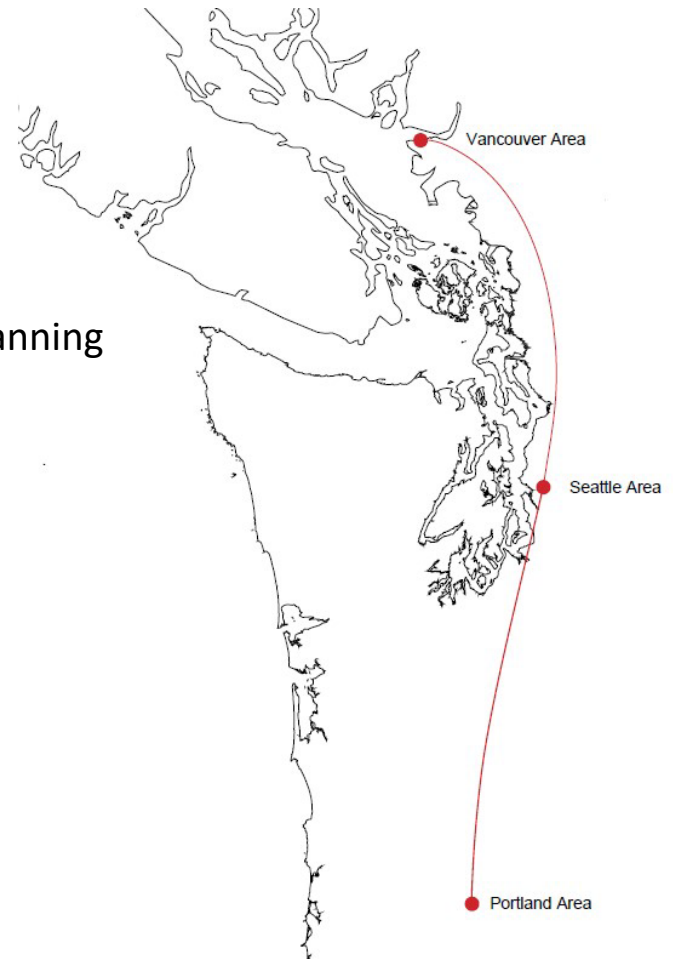
- Executive-level body representing transportation and planning agencies from BC, WA, and OR
- Coordinate and guide project initiation implementation

WA State 2022 legislative session

- Transportation budget included \$4M for next steps
- Legislation included \$150M for match of federal grant opportunities

US Federal Bipartisan Infrastructure Law (BIL)

- Signed into law in 2021
- Federal Railroad Administration Corridor ID Program May 2022



2022 legislative direction

Develop an organizational framework

- Build support from political **leadership**
- Develop enabling **agreement**

Prepare and apply for funding

- Pursue **federal** funding from established and new funding programs
- Engage state/provincial governments and **regional stakeholders** to develop action plans for corridor funding
- Initiate conversations with interested private parties regarding **private contributions** and align **financing strategy** with project delivery approach

Develop a public engagement approach

- Increase **awareness** and **education**
- implement robust, deep, and equitable **engagement** approach
- Build a broad **coalition** of support and develop a corridor **vision** and **identity**

Begin scenario analysis

- Address **new technologies** and **growth assumptions**
- Integrate into state, regional and local **transportation plans**, including **growth management** plans

Develop recommendation for Coordinating Entity

- **Structure and membership** for a formal entity to advance the program through project initiation
- Recommended **next steps** to establish the entity

Source: AECOM

Policy and technical committee work to date

- Charter
- Program Vision
- Stakeholder Interviews
 - Consultant Work Plan
 - Engagement Plan
 - Funding
- FRA Corridor ID Program
 - Expression of Interest
 - Application Proposal
- FRA Fed-State Partnership



Puget Sound Regional Council



Cascadia
Innovation
Corridor

U.S. Federal Railroad Administration

Corridor Identification & Development Program

Federal Railroad Administration

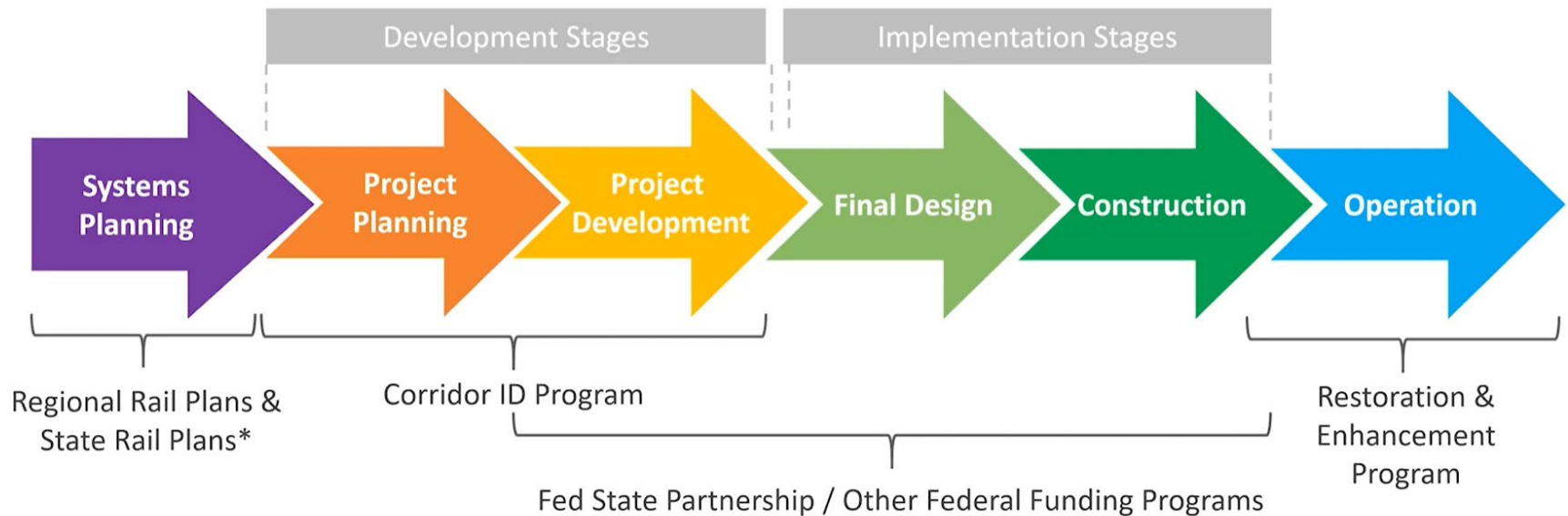
- **Corridor Identification & Development:** <https://www.regulations.gov/document/FRA-2022-0031-0001>
- **WA/OR Expression of Interest:** <https://www.regulations.gov/docket/FRA-2022-0031/comments>
- **Webinar | September 27, 2022:** <https://youtu.be/WSW9DOco13s>

Webinar Takeaways

- The **NOFO is expected in December 2022** with a 45-60-day turnaround
 - Benefit-cost analysis not required
- The Corridor ID Program is intended to be **the main source of funding for project planning**
 - Fed-State Partnership funding focused on design and construction
- **Corridor ID will be a multiyear funding program** once accepted into the program

Corridor Identification & Development process

FRA Project Lifecycle Stages – Corresponding FRA Funding Programs



*Regional Rail Planning and State Rail Plans may be funded through other FRA funding programs.

Corridor Identification & Development steps

Corridor ID Funding—Development Stages

| | Development Stages | | | | |
|--------------------|---|---|---|--|--|
| | Expression of Interest | Submission of Corridor Proposal | Project Planning Step 1: SDP Scoping & Program Initiation | Project Planning Step 2: Service Development Planning | Project Development Step 3 |
| Key Activities | <ul style="list-style-type: none"> Submit expression of interest to docket | <ul style="list-style-type: none"> Submit corridor proposal in response to upcoming solicitation | <ul style="list-style-type: none"> Sponsor creates the capacity necessary to undertake the service planning effort Sponsor develops scope, schedule, and budget for planning effort | <ul style="list-style-type: none"> Sponsor, in collaboration with FRA, prepares service development plan for corridor | <i>For a Phase of Implementing Corridor</i> <ul style="list-style-type: none"> Sponsor completes environmental review Sponsor completes PE |
| Prerequisites | None | None | <ul style="list-style-type: none"> Selection of Corridor | <ul style="list-style-type: none"> Completion of Step 1 | <ul style="list-style-type: none"> Completion of Step 2 Phase likely to be implemented Phase likely to benefit IPR Service |
| Binding Commitment | None | None | Delivery of scope and cost estimate for SDP | Completion of SDP, approved by FRA | Completion of PE / NEPA for phase |
| Funding | None | None | ~\$500k “seed money,” 0% match <i>(Unspent funds carry forward)</i> | \$XX determined through scoping effort, 10% match | \$XX determined through SDP, 20% match |

14
Source: FRA

Corridor proposals and look ahead

Proposals are expected to describe

- **Corridor characteristics**
 - Identify key geographic travel markets
- **Program readiness**
 - Demonstration of existing/future level of commitment
 - Legal, technical, financial capability and capacity
 - Ability to provide future non-federal share and demonstration of secured funding
- **14 statutory evaluation/selection criteria**

Current State and Gap Identification

(Sept '22 - Nov '22)



Federal Funding and Grant Application Support

(Oct '22 - Feb '23)



Strategic Advisory and Program Governance

(Dec '22 - Jun '23)

Additional information

Ultra-High-Speed Ground Transportation Study

wsdot.wa.gov/planning/studies/ultra-high-speed-travel/ground-transportation-study

“Improving connectivity in the Pacific Northwest region through ultra high-speed rail presents enormous potential for job and economic growth on both sides of the border. This study provides a path forward for British Columbians and gives us a clearer vision of what can be achieved when we all work together.”

— *British Columbia Premier John Horgan*

“We are living in unprecedented times that call on us to envision our future in new ways. Transformative infrastructure projects like this one could help us rebuild our economy in the short term and provide us with a strong competitive advantage in the future. Imagine fast, frequent and reliable travel with the potential for zero emissions and the opportunity to better compete in a global economy. It could transform the Pacific Northwest.”

— *Washington Governor Jay Inslee*

“High-speed rail will shrink travel times throughout the Cascadia Corridor, providing a strong transportation core for our region. This report provides a valuable roadmap for making this international project a reality.”

— *Microsoft President Brad Smith*

“Bringing high-speed rail to the Pacific Northwest would bolster our economies while contributing to our efforts to combat climate change. This study affirms that a regional high-speed rail system would yield an equitable and modern transportation infrastructure that benefits people, the environment, and the economy. This type of bold investment would help position our region for the future.”

— *Oregon Governor Kate Brown*