## Agenda

Meeting:

TPAC



Meeting:			TPAC	
D	ate:	]	Friday, October 28, 2016	
Time:		(	9:00 a.m. to noon	
Pl	lace:	(	Council Chamber	
9:00 AM	1.		CALL TO ORDER AND DECLARATION OF A QUORUM	John Williams, Chair
9:05 AM	2.		COMMENTS FROM THE CHAIR AND COMMITTEE MEMBERS	John Williams, Chair
9:15 AM	3.		<ul> <li>2018 RTP Update: Regional Leadership Forum #3</li> <li>CITIZEN COMMUNICATIONS ON AGENDA ITEMS</li> </ul>	
9:20 AM	4.	*	CONSIDERATION OF THE TPAC MINUTES FOR SEPTEMBER 30, 2016	
9:25 AM	5.	**	<ul> <li>REGIONAL FLEXIBLE FUND ALLOCATION</li> <li>INFORMATION/DISCUSSION</li> <li>Purpose – Brief TPAC on current status and next steps of RFFA Step 2 project selection process.</li> <li><u>Information/Discussion</u></li> </ul>	Dan Kaempff, Metro
10:20	6.	**	<ul> <li>2018 RTP: CALL FOR PROJECTS UPDATE</li> <li>Purpose Provide an update on the 2017 Call for Projects and formally request review of the 2014 RTP project list to identify completed projects. <a href="Information/Discussion">Information/Discussion</a></li> </ul>	Kim Ellis, Metro
10:40	7.	*	<ul> <li>2018 RTP: REGIONAL TRANSIT VISION, NEEDS AND SERVICE TYPOLOGIES</li> <li>Purpose: Discuss the regional transit vision and emerging strategies for capital transit investments.</li> <li>Information/Discussion</li> </ul>	Jamie Snook, Metro
11:25	8.	*	<ul> <li>2018 RTP: SYSTEM EVALUATION MEASURES</li> <li>Purpose – Discuss on proposed refinements to the RTP System evaluation measures and provide suggestions for effectively summarizing the recommended measures to policymakers. <a href="Information/Discussion">Information/Discussion</a></li> </ul>	John Mermin, Metro
12:00	10.		ADJOURN	John Williams, Chair

#### **Upcoming TPAC Meetings:**

- Friday, November 18
- Friday, December 16
- Friday, January 27, 2017
- \* Material will be emailed with meeting notice
- \*\* Material will be emailed at a later date after notice
- # Material will be distributed at the meeting.

For agenda and schedule information, call 503-797-1750.

To check on closure/cancellations during inclement weather please call 503-797-1700.

## Metro respects civil rights

Metro fully complies with Title VI of the Civil Rights Act of 1964 and related statutes that ban discrimination. If any person believes they have been discriminated against regarding the receipt of benefits or services because of race, color, national origin, sex, age or disability, they have the right to file a complaint with Metro. For information on Metro's civil rights program, or to obtain a discrimination complaint form, visit www.oregonmetro.gov/civilrights or call 503-813-7514. Metro provides services or accommodations upon request to persons with disabilities and people who need an interpreter at public meetings. If you need a sign language interpreter, communication aid or language assistance, call 503-797-1890 or TDD/TTY 503-797-1804 (8 a.m. to 5 p.m. weekdays) 5 business days before the meeting. All Metro meetings are wheelchair accessible. For up-to-date public transportation information, visit TriMet's website at www.trimet.org.

#### Thông báo về sự Metro không kỳ thị của

Metro tôn trọng dân quyền. Muốn biết thêm thông tin về chương trình dân quyền của Metro, hoặc muốn lấy đơn khiếu nại về sự kỳ thị, xin xem trong www.oregonmetro.gov/civilrights. Nếu quý vị cần thông dịch viên ra dấu bằng tay, trợ giúp về tiếp xúc hay ngôn ngữ, xin gọi số 503-797-1890 (từ 8 giờ sáng đến 5 giờ chiều vào những ngày thường) trước buổi họp 5 ngày làm việc.

#### Повідомлення Metro про заборону дискримінації

Metro з повагою ставиться до громадянських прав. Для отримання інформації про програму Metro із захисту громадянських прав або форми скарги про дискримінацію відвідайте сайт www.oregonmetro.gov/civilrights. або Якщо вам потрібен перекладач на зборах, для задоволення вашого запиту зателефонуйте за номером 503-797-1890 з 8.00 до 17.00 у робочі дні за п'ять робочих днів до

#### Metro 的不歧視公告

尊重民權。欲瞭解Metro民權計畫的詳情,或獲取歧視投訴表,請瀏覽網站 www.oregonmetro.gov/civilrights。如果您需要口譯方可參加公共會議,請在會 議召開前5個營業日撥打503-797-

1890(工作日上午8點至下午5點),以便我們滿足您的要求。

#### 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, boogo www.oregonmetro.gov/civilrights. Haddii aad u baahan tahay turjubaan si aad uga gaybgaadatid kullan dadweyne, wac 503-797-1890 (8 gallinka hore illaa 5 gallinka dambe maalmaha shaqada) shan maalmo shaqo ka hor kullanka si loo tixgaliyo codsashadaada.

#### Metro 의 차별 금지 관련 통지서

Metro의 시민권 프로그램에 대한 정보 또는 차별 항의서 양식을 얻으려면, 또는 차별에 대한 불만을 신고 할 수www.oregonmetro.gov/civilrights. 당신의 언어 지원이 필요한 경우, 회의에 앞서 5 영업일 (오후 5시 주중에 오전 8시) 503-797-1890를 호출합니다.

#### Metroの差別禁止通知

Metroでは公民権を尊重しています。Metroの公民権プログラムに関する情報 について、または差別苦情フォームを入手するには、www.oregonmetro.gov/ civilrights。までお電話ください公開会議で言語通訳を必要とされる方は、 Metroがご要請に対応できるよう、公開会議の5営業日前までに503-797-1890 (平日午前8時~午後5時)までお電話ください。

#### Metro

ការគោរពសិទិធលរដ្ឋប្រស់ ។ សំរាប់ព័ត៌មានអំពីកម្មជីសិទិធលរដ្ឋប្រស់ Metro ឬដេម៊ីចទួលពាក្យបណ្ឌីរើសអេងីសូមចូលទស្សនាគេហទំព័រ

www.oregonmetro.gov/civilrights9

ប្រើលាកអគរត្តរការអគ្គបកប្រែភាសានៅពេលអងគ

របដុំសាធារណៈ សូមទូរស័ព**ទ**កលេខ 503-797-1890 (ម៉ោង 8 រពីកដល់ម៉ោង 5 ល្ងាច ថៃ**រៈ**ភេសិរ) ប្រាំពីរថៃង

ថៃ**សេភ**ពីរ មុនថៃ**សេ**ជុំដេម្បីអាចឲ្យគេសម្រួលភាមសំណេរប៊ីស់លោកអនក

Metro إشعاربعدالهاتمييز من

تحترم Metro الحقوقالمدنية لللمزيد من المعلومات حول برنامج Metro للحقوقالمدنية أو لإيداع شكوى ضالىت مى يىزىي رجى زيارة الموقع الإلكتروني <u>www.oregonmetro.gov/civilrights</u>. إن كانت بحاجة إلى مساعدة في اللغة، يجبعليك الاتصال مقدمبُرق الهاتف 1890-797-503 من الساعة 8 صباحاً حتى الساعة 5 مساءاً، أيام الاثنين إلى الجمعة في بل خمصة ( ) أيام عمل من موعد الاجتماع.

#### Paunawa ng Metro sa kawalan ng diskriminasyon

Iginagalang ng Metro ang mga karapatang sibil. Para sa impormasyon tungkol sa programa ng Metro sa mga karapatang sibil, o upang makakuha ng porma ng reklamo sa diskriminasyon, bisitahin ang www.oregonmetro.gov/civilrights. Kung kailangan ninyo ng interpreter ng wika sa isang pampublikong pulong, tumawag sa 503-797-1890 (8 a.m. hanggang 5 p.m. Lunes hanggang Biyernes) lima araw ng trabaho bago ang pulong upang mapagbigyan ang inyong kahilingan. Notificación de no discriminación de Metro.

#### Notificación de no discriminación de Metro

Metro respeta los derechos civiles. Para obtener información sobre el programa de derechos civiles de Metro o para obtener un formulario de reclamo por discriminación, ingrese a www.oregonmetro.gov/civilrights . Si necesita asistencia con el idioma, llame al 503-797-1890 (de 8:00 a. m. a 5:00 p. m. los días de semana) 5 días laborales antes de la asamblea.

#### Уведомление о недопущении дискриминации от Metro

Metro уважает гражданские права. Узнать о программе Metro по соблюдению гражданских прав и получить форму жалобы о дискриминации можно на вебсайте www.oregonmetro.gov/civilrights. Если вам нужен переводчик на общественном собрании, оставьте свой запрос, позвонив по номеру 503-797-1890 в рабочие дни с 8:00 до 17:00 и за пять рабочих дней до даты собрания.

#### Avizul Metro privind nediscriminarea

Metro respectă drepturile civile. Pentru informații cu privire la programul Metro pentru drepturi civile sau pentru a obține un formular de reclamație împotriva discriminării, vizitați www.oregonmetro.gov/civilrights. Dacă aveți nevoie de un interpret de limbă la o ședință publică, sunați la 503-797-1890 (între orele 8 și 5, în timpul zilelor lucrătoare) cu cinci zile lucrătoare înainte de ședință, pentru a putea să vă răspunde în mod favorabil la cerere.

#### Metro txoj kev ntxub ntxaug daim ntawv ceeb toom

Metro tributes cai. Rau cov lus qhia txog Metro txoj cai kev pab, los yog kom sau ib daim ntawy tsis txaus siab, mus saib www.oregonmetro.gov/civilrights. Yog hais tias koj xav tau lus kev pab, hu rau 503-797-1890 (8 teev sawv ntxov txog 5 teev tsaus ntuj weekdays) 5 hnub ua hauj lwm ua ntej ntawm lub rooj sib tham.





## 2016 TPAC Work Program

As of 10/20/16

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

October 28, 2016	November 18, 2016
Comments from the chair:	Comments from the chair:
• 2018 RTP Update: Regional Leadership Forum #3	Regional active transportation project menu and  REFA band progeeds for project development.
<ul> <li>Regional Flexible Fund Allocation         Information/Discussion (Leybold/Kaempff, 55 min)     </li> <li>2018 RTP: Call for Projects Update         Information/Discussion (Ellis; 20 min)     </li> <li>2018 RTP: System Evaluation Measures         Information/Discussion (Mermin; 45 min)     </li> <li>2018 RTP: Regional transit vision, needs and service typologies. Information/Discussion (Snook, 45 mins)</li> </ul>	<ul> <li>RFFA bond proceeds for project development</li> <li>Regional Flexible Fund Allocation         Recommendation to JPACT (Leybold/Kaempff, 60 mins)</li> <li>2018 RTP: Draft Revenue Forecast         Information/Discussion (Leybold, Lobeck; 45 min)</li> <li>2018 RTP: Call for Projects Approach         Information/Discussion (Ellis, 30 min)</li> <li>Special Transportation Fund Allocation Process         Information/Discussion (Cho, 15 min)</li> <li>2017 MPO Endorsement Process for National Grants –         Approaches and Criteria Information/Discussion (Cho, 30 min)</li> </ul>
December 16, 2016	January 27, 2017
<ul> <li>2018 RTP: Safety Crash Data Analysis         <u>Information/Discussion</u> (McTighe; request 45 mins)     </li> <li>2018 RTP: Regional transit vision, needs and service typologies. <u>Information/Discussion</u> (Snook, request 40 mins)</li> <li>Regional SRTS program. <u>Information/Discussion</u> Kaempff, 40 mins)</li> </ul>	Draft Unified Planning Work Program (UPWP)     2017-2018 Information/Discussion (Myers; 20 min)
<u>February 24, 2017</u>	March 24, 2017
• Final Unified Planning Work Program (UPWP) 2017-2018 Recommendation to JPACT (Myers; 20 min)	

#### **Parking Lot**

- TAP project delivery contingency fund pilot update (Leybold, Cho)
- Federal Training Group Concept (Lobeck)
- Vehicle Electrification Project Options Information/Discussion (Leybold, Winter)



## 2016 JPACT Work Program

As of 10/11/16

Items in italics are tentative; **bold** denotes required items
\*Reflects new 2016 meeting schedule: 3<sup>rd</sup> Thursday of each month\*

October 20, 2016 gangalled	November 10, 2016
October 20, 2016 – cancelled	<ul> <li>November 10, 2016</li> <li>Chair comments (5+ min)         <ul> <li>2018 RTP Update: Background for RTP Regional Leadership Forum #3</li> </ul> </li> <li>2018 RTP Update: Project Update (Kim Ellis, Metro; 30 min)</li> <li>2018 RTP Update: Draft Regional Transit Vision (Jamie Snook, Metro; Stephan Lashbrook, SMART; Eric Hesse, TriMet; 35 min)</li> </ul>
Oct. 9-12: RailVolution 2016, Bay Area, CA  Oct. 24, 7:30am – 9 am: JPACT Finance Subcommittee, Metro Regional Center, Rooms 370 A & B	Nov. 14-17: Association of Oregon Counties Annual Conference, Eugene, OR  Nov. 16-17: Transportation 4 America: Capital Ideas II Conference, Sacramento, CA
<ul> <li>Chair comments TBD (5+ min)</li> <li>Special Transportation Fund/5310         Allocation/Process – Information/Discussion         (TriMet; 15 min)</li> <li>2018 RTP Draft Revenue Forecast (Ted         Leybold/Ken Lobeck, Metro)</li> <li>Regional Flexible Fund Step 2 Project Selection         – Discussion (Ted Leybold/Dan Kaempff,         Metro; 30 min)</li> </ul>	<ul> <li>January 19, 2017</li> <li>Chair comments TBD (5+ min)</li> <li>2018 RTP Update: Safety Strategies &amp; Actions (Lake McTighe, Metro; 20 min)</li> <li>Regional Flexible Fund Allocation – Decision (Ted Leybold/Dan Kaempff, Metro)</li> </ul>
<u>Dec. 2, 8am – 12pm (OCC)</u> : RTP Regional Leadership Forum #3 (Transforming Our Vision into Regional Priorities)  February 16, 2017	March 16, 2017
• Chair comments TBD (5+ min)	• Chair comments TBD (5+ min)

- Draft Unified Planning Work Program (UPWP)
   2017-2018 Information/Discussion (Chris Myers, Metro)
- Draft Unified Planning Work Program (UPWP) 2017-2018 – Recommendation (Chris Myers, Metro)

# April 20, 2017 • Chair comments TBD (5+ min) • Chair comments TBD (5+ min)

#### 2017-18 Events/Forums:

- October 2017: RTP Regional Leadership Forum #4 (Drafting Our Shared Plan for the Region)
- **June 2018**: RTP Regional Leadership Forum #5 (Finalizing Our Shared Plan for the Region)

#### **Parking Lot:**

- Southwest Corridor Plan
- Land use & transportation connections
- Prioritization of projects/programs
- Westside Freight Study/ITS improvements & funding
- All Roads Safety Program (ODOT)
- Air Quality program status update
- Washington County Transportation Futures Study (TBD)





## TRANSPORTATION POLICY ALTERNATIVES COMMITTEE September 30, 2016 Metro Regional Center, Council Chamber

<u>MEMBERS PRESENT</u> <u>AFFILIATION</u>

John Williams, Chair Metro

Karen Buehrig Clackamas County Chris Deffebach Washington County

Don Odermott Cities of Hillsboro and Washington County

Cora Potter Community Representative Charity Fain Community Representative

Judith Gray City of Portland Joanna Valencia Multnomah County

Eric Hesse TriMet

MEMBERS EXCUSED AFFILIATION

Dave Nordberg ODEQ

Adrian Esteban Community Representative

Lynda David SW Washington Regional Transportation Council

Patricia Kepler Community Representative
Rachel Tupica Federal Highway Administration
Jared Franz Community Representative
Heidi Guenin Community Representative

ALTERNATES PRESENT AFFILIATION
Jason Gibben WSDOT

Phil Healy Port of Portland

Jon Makler ODOT

Chris Strong Cities of Gresham and Multnomah County

Amanda Ownings City of Wilsonville and Cities of Clackamas County

<u>Guests Present</u>:; Zoe Monahan, City of Tualatin, Lidwien Rahmen, Robin Marshburn, Dan Bower, Russ,

Metro Staff Present: Kim Ellis, Dan Kaempff, Tom Kloster, Ted Leybold, Lake McTighe

#### 1. CALL TO ORDER AND DECLARATION OF A QUORUM

Chair Williams called the meeting to 9:40 a.m. and declared a quorum was present.

#### 2. COMMENTS FROM THE CHAIR AND COMMITTEE MEMBERS

• 2018 RTP: Performance Measures update – John Mermin referred to a memo he provided and gave a brief update on the progress for the performance measures component of the Regional Transportation Plan Update. The committee's work is to inform local leadership, integrate input from partners and help raise issues for discussion at TPAC, JPACT, and Metro Council. Focus has been on system evaluation measures and potential refinements to

those to evaluate the RTP project list to see how the system performs under various scenarios. Further discussion on this topic will take place at TPAC on October 28

#### 3. CITIZEN COMMUNICATIONS ON AGENDA ITEMS

There were no citizen communications.

#### 4. CONSIDERATION OF THE TPAC MINUTES FOR AUGUST 26, 2016

Mr. John Makler noted one correction to a statement attributed to him and requested that it be stricken from the summary.

<u>MOTION</u>: Mr. Makler moved to approve the TPAC minutes as amended for August 26, 2016. Ms. Judith Gray seconded the motion.

**ACTION**: The motion <u>passed</u> unanimously.

## 5. <u>2018 RTP: REGION 1 HIGHWAY OVER-DIMENSIONAL PINCH-POINT STUDY INFORMATION/DISCUSSION</u>

Mr. Robin Marshburn (ODOT) provided an update on the highlights, outcomes, and possible actions resulting from the Region 1 Highway Over-Dimensional (OD) Pinch-point Study. The study was developed to help implement strategies in the 2011 Oregon Freight Plan pertaining to the efficient movement of OD loads. It identifies and brings awareness to highway pinch points that restrict the movement of OD loads. Considerations included issues such as height, width, weight, length, short curves, weight restricted bridges, bridge signs, and other issues. He noted that in the Portland area there are 85 pinch points, of which 18 are high priority pinch points. Across the state there are 381 pinch points, of which 25 percent are in Portland. The information provided in the report can be used by planners and government agencies to consider freight issues in transportation planning processes.

Committee discussion included:

- Ms. Gray discussed her involvement with the rulemaking committee in the state legislature and noted that one of the positive outcomes of establishing that committee was identifying the differences between a standard freight route and an OD truck route. Another outcome was setting forth a clear process for inclusion of the local governments in the process, so that it was inclusive, transparent, and predictable for engaging stakeholders. Important to understand how agencies can work together to address issues of safety without further obstructing pinch points or creating additional issues of concern.
- Mr. Marshburn noted that the report identifies the issues, but that it is up to city and county agencies to use as needed.
- Ms. Karen Buehrig appreciated the comprehensive quality of the report and noted that one positive outcome would be more ability to share and collaborate on locally and regionally identified issues so that there might be more consistency in how areas are rated and prioritized.
- Don Odermott requested clarification on trip permits and special loads so that jurisdictions can be aware of certain types of freight movement and can be scheduled to move during off-hours.

#### 6. 2018 RTP: REGIONAL FREIGHT NEEDS

Mr. Tim Collins provided an update on regional freight needs identified by the Regional Freight Work Group and a general strategy for addressing those needs. He asked committee members to note that the handout provided entitled: "2014 Financially Constrained (FC) RTP Freight, Throughways, and Roads and Bridges Projects on the Regional Freight Network should be considered as "DRAFT."

Mr. Collins called the committee's attention to the memo provide in the packet. He noted that the Regional Freight Work Group has reviewed and updated a regional list of priority freight needs and constraints by mode. The different freight modes include trucks, rail lines, air freight, energy pipelines, and marine/river modes. Discussions focus on the need for freight-oriented development and multi-modal access to these sites, with the goal of using the freight needs defined by mode to update the Regional Freight Plan, and to develop freight evaluation measures that can be used to help prioritize projects and solutions for addressing these needs and current constraints. He noted that the RTP policies include provisions to:

- Ensure a systems approach to planning
- Reduce delays
- Protect industrial lands , industry
- Look beyond roadway to rail and marine throughways
- Pursue clean, green and climate smart practices

Ms. Gray noted that perhaps not all are "needs" some could be considered "challenges" and requested clarification about how the process is being guided by strategy. For example, a mix of modes, combining fixes, seismic priority, freight consolidation, local approaches, other ways to strategize and consider. She asked for clarification about the differences between the work being done now and the previous freight plan.

Mr. Collins noted that some priorities have changed, for example the emphasis during the previous iteration was heavily invested in strategy around the Columbia River Crossing. However, the work group is operating with is more direction about regional priorities from the JPACT Finance Subcommittee with emphasis on completion of transit, active transportation, and larger highway projects, with a balance between modes. In addition, he noted that ODOT is completeing statewide and national bottleneck study that will provide important criteria for assessing priorities.

He also noted that a scope of work for a regional rail plan would be developed later that would provide additional perspective and balance.

Ms. Karen Buehrig requested clarification regarding whether any additional modeling had been done to help identify needs or challenges. She suggested that it would help to have identified needs compared to projects that already exist and asked if there might be a way to capture that information to prioritize in emerging industrial areas. Mr. Collins noted that those were some of the issues that were to be discussed during upcoming work group meetings.

Mr. Phil Healy provided additional perspective on modeling underway, including a truck model that is currently being improved by Metro. However, that model will not be completed in time to use for the current iteration of the RTP.

Other committee comments included suggestions to:

- Document and identify multi-mode with descriptions and commentary from industry professionals
- Find opportunities to for coordination between agencies.

• Continue work to find freight consolidation opportunities, investigating statewide initiatives to effectively plan and remove freight from the highways, and to investigate demand management for short trips on the highways to ensure highest and best use through a demand management model rather than working to expand highways.

#### 7. 2018-2021 MTIP AIR QUALITY CONFORMITY DETERMINATION – ANALYSIS APPROACH

Ms. Grace Cho, Associate Transportation Planner, distributed a memo dated August 17, 2016. She noted that to comply with federal mandates, Metro is required to conduct an air quality assessment with each update of Metro's Regional Transportation Plan (RTP) and development of a new Metropolitan Transportation Improvement Program (MTIP). As part of the conducting the analysis, Metro consults and solicits feedback from our local and regional partners about the approach and methodology for conducting the analysis. She provided an overview of the process and noted that two main items have to be demonstrably achieved to demonstrate air quality conformity:

- 1. Illustrate the projected emissions from transportation sources are equal to or less than the motor vehicle emissions budget(s) established for each analysis year
- 2. Illustrate the region is meeting performance standards for any adopted transportation control measures

The standard process will include the following required elements:

- Consultation
- Documentation, assessment, and formal determination
- Emissions demonstration and passing budget muster
- Transportation Control Measures (TCMs) progress
- Public comment
- Adoption process

Ms. Cho noted on minor adjustment to proposed approach. For the Regional Emissions Analysis –to use previous regional emissions analysis. This can be done since all of the following conditions have been met:

- No more than 4 years since previous analysis
- No new regionally significant projects added
- Projects have not significantly changed in scope

Federal mandates are expiring in 2017 October, so no changes to the demographic data are being proposed.

<u>MOTION</u>: Mr. Hesse moved to approve the MPO's proposed approach to conducting the air quality conformity determination for the 2018-2021 MTIP. Ms. Cora Potter seconded the motion.

ACTION: The motion passed unanimously.

#### 8. 2018 RTP: REGIONAL TRANSIT VISION & SERVICE ENHANCEMENT PLANS UPDATE

Ms. Jamie Snook (Metro), provide the committee with an introduction to the regional transit strategy (RTS) vision and system wide performance measures. The RTS will serve as the transit component of the 2018 Regional Transportation Plan (RTP) update and will provide a coordinated vision and strategy for transit in the Portland metropolitan area. The strategy is being developed from previous work that has been underway over the past 20 years. The RTS process is engaging community leaders and transit providers and other stakeholders to develop a shared vision and investment strategy with the mission to ensure that transit in our region is more frequent, convenient, accessible and affordable. I

The regional transit vision will be comprised of three components:

- 1. Transit service improvements: local and regional transit service improvements.
- 2. Capital investments: new enhanced transit strategies such as signal priority, queue jumps, or high capacity transit options such as bus rapid transit or light rail.
- 3. Transit supportive elements: such as sidewalks, crossings and complementary land uses.

Our region has limited transportation funding resources, but has simultaneously identified multiple transportation priorities. If not addressed, the challenges of growth will compromise our region's economic prosperity and quality of life. As part of the Regional Transportation Strategy process, we will update Metro's transit system expansion policy. Once adopted, the policy framework will provide guidance on how to prioritize and advance projects seeking regional support.

#### **Transit related performance measures**

In order to support and measure our progress in meeting the transit vision, the transit work group has been developing the following transit related performance measures to support the system evaluation for the 2018 RTP update:

#### Frequent

- Daily revenue transit service hours per mode
- Transit productivity (transit boarding riders per revenue hour)

#### Convenient

- Motor vehicle and transit travel time parity between key origin and destinations
- Non-drive alone mode share

#### Accessible

- Bike and pedestrian network completeness within ½ mile of transit stops and stations (this is a sub-set of the a regional bike and pedestrian network completeness and connectivity measure)
- Daily needs accessible within 30 minutes by public transportation for the region and historically under-represented communities
- Jobs, including low-wage and middle-wage jobs, accessible by 45 minutes by public transportation for the region and historically under-represented communities
- Proximity of households, low-income households and employment within ¼-mile of transit and frequent service transit

#### Affordable

Housing + transportation costs relative to the cost burdened designation

Committee members discussed the following points:

- transit supportive elements such as park and rides and other and whether they would be included in the definition of access.
- accessibility and how it is defined
- growth areas that do not yet have transit yet
- system-wide performance measures, and transit-specific measures.
- which forecast data might be used during the process
- daily needs need to be processed formally to ensure inclusiveness
- existing and future conditions to be aligned with annual processes and longer term issues.
- long term planning and its inherent uncertainties with regard to community planning / building of centers as well as the mix of density in terms of land use
- importance of staying committed to the framework in light of limited resources.

Ms. Snook and Ms. Cho noted that some of the issues would be further clarified at the October TPAC meeting during the performance measures discussion.

#### 9. 2019-21 REGIONAL FLEXIBLE FUNDS STEP 2 PROJECT TECHNICAL EVALUATION

Mr. Dan Kaempff, Principal Transportation Planner Brief TPAC on the outcomes of the RFFA Step 2 project technical evaluation process prior to commencement of the 30-day public comment period. He directed the committee's attention to the memo and its attachments provided in the packet, entitled "2019-21 Regional Flexible Funds Step 2 Project Technical Evaluation – INFORMATIONAL"

A total of 31 project applications were submitted to Metro to be considered for funding through the Step 2 category of the 2019-21 Regional Flexible Funds Allocation. Four projects were submitted in the Regional Freight Initiatives category, totaling \$8,454,173 in funding requests. \$7.34 million is available. 27 projects were submitted in the Active Transportation/Complete Streets category, totaling \$92,425,459 in funding requests. \$25.81 million is available.

A five-person technical evaluation work group, comprised of two TPAC Citizen Representatives, and staff from Metro, TriMet and ODOT, reviewed and scored the project proposals independently. The work group then met on September 13 to review and discuss the proposal scores. The discussion served to resolve any differences in how the work group members reviewed and interpreted the criteria and project descriptions, and to confirm a final list of project technical scores.

The technical scores are but one source of information that will be used by the region's decision-makers in the adoption of a final list of projects. Additional sources to inform the process include public comments on the project proposals, any indication of sub-regional priorities that the three county coordinating committees and City of Portland may choose to provide, a report on project readiness, and affirmation from JPACT that a draft list of projects to be funded adheres to RFFA policy direction.

Mr. Kaempff clarified questions from the committee about the following:

• Project readiness and the timelines – applicants are given an opportunity to respond and correct particular issues.

- Public comment or other response and how they affect the outcome. TPAC will develop a recommendation to JPACT after evaluating the technical scores, public input and project readiness.
- Timing of the public hearing. A full Metro Council meeting will be held on October 27 with JPACT members who wish to attend and listen. Policy guidance will be used to guide the decision making.
- Balancing projects to ensure they will be reasonably distributed throughout the region.

#### 10. ADJOURN

Chair Williams said the next TPAC meeting would be held October 28, 2016. Due to the fullness of the agenda, TPAC members agreed to extend the length of the meeting, starting at 9:00 am to 12:00 pm. The meeting was adjourned at 11:50 a.m.

Respectfully submitted,

Lisa Hunrichs

Planning & Development

### ATTACHMENTS TO THE PUBLIC RECORD FOR THE MEETING OF SEPTEMBER 30, 2016

ITEM	ТҮРЕ	Doc Date	DOCUMENT DESCRIPTION	DOCUMENT NO.
1	Agenda	9/30/16	9/30/16 TPAC Agenda	093016T-01
2	Work Program	9/29/16	2016 TPAC Work Program	093016T-02
3	Work Program	09/23/16	2016 JPACT Work Program	093016T-03
4	Meeting Summary	08/26/16	8/26/16 TPAC meeting summary	093016T-04
5	Memo	8/23/16	To: TPAC and Interested parties From: John Mermin Re: Overview of 2018 RTP performance measures work group	093016T-05
6	Memo and attachments	10/16/15	To: ODOT Region Managers From: Erik Havig, Planning Section Manager Re: Highway Over-dimension Load Pinch Point (HOLPP) Reports	093016T-06
7	Memo	9/23/16	To: TPAC and Interested parties From: Grace Cho Re: Approach for Conducting the 2018-2021 MTIP Air Quality Conformity Determination	093016T-07
8	Report	5/6/16	2018-2021 Metropolitan Transportation Improvement Program Air Quality Conformity Plan	093016T-08
9	Memo	9/22/16	To: TPAC and Interested parties From: Jamie Snook Re: Regional Transit Vision and Strategy Development	093016T-09
10	Flyer	Fall 2016	2018 Regional Transit Strategy – Getting there by transit	093016T-10
11	Memo and attachments	8/27/16	To: TPAC and Interested parties From: Dan Kaempff Re: 2019-21 Regional Flexible Funds Step 2 Project Technical Evaluation - INFORMATIONAL	093016T-11
12	Мар	2014	2014 Regional Transportation Plan Update – Regional Freight Network	093016T-12
13	Presentation	9/28/16	2018 – 20121 – MTIP Air Quality Conformity	093016T-13
14	Presentation	9/29/16	Regional Transit Strategy – a component of the 2018 RTP	093016T-14

ITEM	ТҮРЕ	DOC DATE	DOCUMENT DESCRIPTION	DOCUMENT NO.
15	Presentation	9/30/16	2019-21 RFFA Project Evaluation Technical Scoring	093016T-15

## Memo



Date: October 24, 2016

To: TPAC and Interested Parties

From: Dan Kaempff, Principal Transportation Planner

Ken Lobeck, Senior Transportation Planner

Subject: Regional Flexible Funds Allocation process update

#### **PURPOSE**

Brief TPAC on RFFA process to date and detail the steps leading to adoption of a final package of RFFA investments.

#### TECHNICAL SCORING AND PUBLIC COMMENT

A total of 32 project applications were received for consideration in the 2019-21 Regional Flexible Funds Allocation process.

Applications were due to Metro on August 26, 2016. Subsequently, a work group conducted a technical evaluation process to determine the level to which the projects met the RFFA project criteria. The work group completed the technical evaluation and released the results on September

Metro is currently conducting a 30-day public comment period to gather qualitative feedback on the project applications. Feedback is being captured through a variety of methods. Primary among these is an online interactive map tool which can be found at oregonmetro.gov/RFFA. Comments are also being received via email, letters and phone calls. The public hearing closes at 5:00 p.m. on November 7.

As a part of the public comment process, Metro Council is holding a public hearing on Thursday, October 27, at 4:00 p.m. This public hearing provides Metro Council an opportunity to hear residents speak first hand as to the importance of various projects to their lives and communities.

#### **DISCUSSION AT TPAC, JPACT and METRO COUNCIL**

The input received through this public comment period is one portion of the information that will be used by regional decision-makers in determining a final list of funded projects. Besides the public comments, they will also consider:

- Quantitative input, from the project technical scores, listed in Attachment A to this memo.
   These scores indicate how well the project scored against the project criteria developed for the two project funding categories (Regional Freight Initiatives and Active Transportation/Complete Streets)
- Input from county coordinating committees and the City of Portland as to the relative priority of projects they may wish to identify within their sub-region
- Direction provided through the 2018-21 Metropolitan Transportation Improvement Program & 2019-21 Regional Flexible Funds Allocation Policy Report. Specifically, decision-makers must consider if their proposed final package of projects to fund achieves the RFFA Objectives, found in section 6.0 of the Policy Report and attached to this memo as Attachment B.

RFFA PROCESS UPDATE OCTOBER 24, 2016

#### PROCESS FOR DEVELOPING A FINAL INVESTMENTS PACKAGE

Upon the close of public comment on November 7, staff will prepare a summary-level report of all of the input received through the public comment period to help county coordinating committees with their identification of their priority project. A more detailed report will be made available prior to discussion of a recommended final list of projects at the December TPAC meeting and the January JPACT meeting.

- November 10 JPACT: JPACT will be provided with a short update on the public comment process and remind members of the next steps though comments from the JPACT Chair at the November 10 meeting.
- November 17: Sub-regions are to submit any prioritization of projects to Metro for inclusion in meeting materials for subsequent TPAC and JPACT meetings. This prioritization could be a rank order of all projects within their sub-region, identification of a single priority project, or other statement of sub-regional priorities.
- November 18 TPAC: TPAC will discuss all RFFA input received to date and provide comments for the December 15 JPACT meeting.
- December 6 Metro Council work session: Council will be briefed on the RFFA process to date and will provide input to JPACT discussion, if they desire.
- December 15 JPACT: Discussion of RFFA input, plus TPAC input from November 18 meeting and Council input from December 6 work session (if any).
- December 16 (or January 6) TPAC: TPAC develop recommendation on final RFFA funding package for JPACT consideration.
- January 19 JPACT: JPACT will consider request to take action on TPAC RFFA funding package recommendation.
- February 2 Metro Council: Council will consider JPACT action of January 19

#### PROIECT READINESS REVIEW

The Project Readiness Review was included as a non-scoring component to the evaluation of submitted RFFA funding applications. The purpose was to determine the project implementation readiness level based on the application details. From this assessment, funded RFFA projects could have a head start in preparing for the federal project delivery process, and would experience fewer implementation delays than current projects are now facing.

The Project Readiness Review examined projects from eight primary readiness areas that included:

- Project scope and deliverables.
- RTP and MTIP review/verification.
- Prior project development work completed.
- Funding and costs.
- Project phase reviews.
- Phase milestones and project implementation timing.
- Capacity to deliver the project through the transportation delivery process.
- Past history in using federal transportation funds.

RFFA PROCESS UPDATE OCTOBER 24, 2016

Up to eight ODOT Local Agency Liaisons (LALs) and a Metro staff member assisted in the project readiness review. Approximately 150 hours of staff time was committed to the readiness review.

#### **READINESS REVIEW VERSUS RFFA OBJECTIVES**

The basic idea of the readiness review was to determine if the applications were funded and sent on to the ODOT LALs to initiate PE (or project development), what type of issues they would face as they began the project delivery process. The readiness review intended to develop a picture about each project to answer the following questions:

- Was the project scope clear enough to understand the problem and the needed solution?
- Was the proposed alignment clear?
- Did the project include sufficient scope elements to understand how the project would be completed?
- Did the proposed alignment and project solution understand the environmental, right-of-way (ROW), and/or construction challenges that may be present?
- Did the project explain the possible environmental, ROW and/or construction challenges and how they would be addressed?
- Did the project appear to be adequately funded?
- Did past project development work exist that could assist in facilitating efficient project delivery?
- Was the proposed project timing logical and reasonable?
- Did the lead agency demonstrate clear expertise to properly manage and deliver the project in an efficient manner?
- Was there anything in the project application that could become a "red flag" and become a barrier to required federal approvals for the project?

#### ISSUES ENCOUNTERED DURING THE READINESS REVIEWS

A key issue reviewers experienced was that the RFFA application did not require enough specific information to fully evaluate project readiness. The RFFA application was set up to address RFFA funding and policy criteria for prioritizing projects. As a result, the reviews found the applications lacking sufficient readiness details to determine the project as "ready" for implementation. This does not mean the RFFA application represented a bad project. It means from a readiness point of view, there is not enough information to know whether the projects are ready to begin the federal Preliminary Engineering and environmental process as currently proposed in their RFFA application submission.

Since only about a 1/3<sup>rd</sup> of the submitted RFFA project proposals will receive funding, the readiness review comments have not been finalized or distributed. Staff's opinion is that the readiness review comments should be kept separate from the final scoring decisions. Upon the final awards, the readiness review comments will be passed on to the lead agency as the "Next Step" to prepare them for implementation through the federal project delivery process.

#### **SUMMARY OF READINESS REVIEW ISSUES ENCOUNTERED**

Virtually all project applications encountered many of the below concerns:

Project under-costing: Most of the submitted applications appear to be under-costed. This
may be due to the cost methodology used, not including required scope elements, external
scope element requirements not foreseen, or a combination of all three. This includes not
adequately accounting for federal environmental and engineering documentation in the
projects' PE phases as well.

RFFA PROCESS UPDATE OCTOBER 24, 2016

• *Project implementation timing issues:* Most project proposed implementation years appear optimistic. Examples: Most projects reflect PE to be complete in a year. Completing the environmental (NEPA) portion will take year by itself. For most projects the standard time to complete PE is eighteen months to two years.

- Sufficiently defined project scope elements: Most of the projects provided insufficient scoping details to help determine if their proposed project costs are accurate. Many projects appeared to have left out key scope elements (e.g. retaining walls) that could be required as part of the project. For projects that are funded, they will need to develop a more detailed scoping document prior to implementation of PE or project development planning.
- Right-of-Way (ROW) potential issues: Several projects included ROW phases but did not
  address how the ROW phase will be completed. Several others did not address utility
  relocation elements and costs.
- Proposed alignment issues: Several projects proposed potential alignments that could impact ODOT ROW or be in conflict with other external elements.

#### **USE OF THIS READINESS REVIEW WORK**

The readiness review functioned as a pre-scoping exercise to identify potential delivery issues before the projects are ready to be implemented. Since the first implementation year is proposed to be FFY 2019 (starting October 1, 2018), time exists to address scoping, timing, or other potential issues with the final awarded projects.

#### THE NEXT STEPS

Upon approval of the final RFFA project awards, the following pre-implementation next steps will need to occur with the lead agencies:

- Receive and review the project readiness comments.
- Evaluate how to address the comments.
- Determine if the project is still adequately funded to complete the project as awarded and options if the updated scope of work results in added costs to the project.
- Develop a detailed scope of work by each funded project phase along with an updated cost methodology.
- Develop a complete project prospectus.

Note: In order to initiate the PE phase, the lead agency will need to submit a detailed scope of work and project prospectus to their assigned ODOT LAL. If PE is planned to start in FFY 2019 (October 2018), then the project prospectus and scope of work will need to be submitted to ODOT at least six months prior (by April 2018) for review and time to develop the IGA. However, ODOT recommends submitting the completed project prospectus and scope of work about year prior (October 2017) to ensure sufficient time exists to review and evaluate the project scope elements, implementation timing, potential delivery issues, and proposed costs.

Attachment A

## **2019-21 RFFA Project Applications** DRAFT project technical scores

#### Regional Freight Initiatives - \$7.34 M available

<u>Project name</u>	<u>Applicant</u>	<u>Sub-region</u>	RFFA request	Total project cost	<u>Total</u>	Technical score ranking
			Total requested = \$8.96 M		Max pts = 330	
Hunziker Road Industrial Area	City of Tigard	Washington	\$1,851,740	\$7,030,554	264	1
Central Eastside Access & Circulation Improvements	City of Portland	Portland	\$3,002,433	\$5,402,433	263	2
Basalt Creek Parkway Extension	Washington County	Washington	\$3,000,000	\$4,000,000	233	3
Columbia Blvd Intelligent Transportation System	City of Portland	Portland	\$600,000	\$1,000,000	204	4
Regional Freight Planning	Metro	Regional	\$500,000	\$500,000	n/a	n/a

#### Active Transportation/Complete Streets - \$25.81 M available

<u>Project name</u>	<u>Applicant</u>	Sub-region	RFFA request	Total project cost	<u>Total</u>	Technical score ranking
			Total requested = \$92.43 M		Max pts = 315	
Halsey Street Safety and Access to Transit	City of Portland	Portland	\$2,992,800	\$5,160,000	288	1
Cully Walking and Biking Parkway	City of Portland	Portland	\$2,998,153	\$5,996,306	285	2
I-5 Walking and Biking Bridge	City of Wilsonville	Clackamas	\$2,250,000	\$2,950,000	280	3
Jade and Montavilla Connected Centers	City of Portland	Portland	\$3,941,500	\$7,883,000	274	4
Beaverton Creek Trail	THPRD	Washington	\$3,892,399	\$4,616,515	270	5
Molalla Avenue Walking and Biking Improvements	City of Oregon City	Clackamas	\$3,985,379	\$7,985,379	268	6
Outer Stark/Halsey Complete Streets	City of Portland	Portland	\$300,000	\$335,000	268	6
Monroe Street Walking and Biking Improvements	Clackamas County	Clackamas	\$3,000,000	\$6,073,647	262	8
Herman Road Walking and Biking Improvements	City of Tualatin	Washington	\$625,000	\$725,000	256	9
Complete Cleveland Street	City of Gresham	Multnomah	\$3,141,156	\$4,188,181	251	10
Brentwood-Darlington Safe Routes to School	City of Portland	Portland	\$3,100,850	\$6,201,000	248	11
Cornfoot Road Walking and Biking Path	Port of Portland	Portland	\$3,327,672	\$3,708,539	245	12
Hillsdale Town Center Pedestrian Connections	City of Portland	Portland	\$2,346,000	\$3,128,000	243	13
Westside Trail Walking and Biking Bridge Design	Washington County	Washington	\$800,000	\$1,011,492	243	13
Cornelius Pass Walking and Biking Bridge Design	Washington County	Washington	\$800,000	\$898,000	240	15
David Douglas Safe Routes to School	City of Portland	Portland	\$3,048,000	\$6,096,000	239	16
Sandy Boulevard Walking and Biking Improvements	Multnomah County	Multnomah	\$5,319,631	\$5,928,486	238	17
Highway 43 Walking and Biking Improvements	City of West Linn	Clackamas	\$3,400,000	\$5,810,000	238	17
North Portland Greenway Trail	City of Portland	Portland	\$2,909,680	\$3,637,100	237	19
Fanno Creek Greenway RegionalTrail	City of Tigard	Washington	\$6,700,600	\$7,615,600	234	20
Complete Division Street	City of Gresham	Multnomah	\$3,459,284	\$4,612,380	233	21
Monroe Street Neighborhood Greenway	City of Milwaukie	Clackamas	\$2,320,000	\$2,900,000	233	21
Johnson Street Access to School	Washington County	Washington	\$4,700,000	\$6,000,000	226	23
Designing Hogan Road	City of Gresham	Multnomah	\$9,633,428	\$10,763,606	220	24
Designing Highland Dr/Pleasant View Dr/190th Ave	City of Gresham	Multnomah	\$8,487,054	\$11,316,072	196	25
Highway 99W Sidewalk Safety Improvements	City of Sherwood	Washington	\$2,168,000	\$2,518,000	178	26
I-205 Walking and Biking Trail	City of West Linn	Clackamas	\$2,778,873	\$3,431,374	111	27

RFFA Process Update Memo to TPAC October 24, 2016 Attachment B

#### 6.0 REGIONAL FLEXIBLE FUND ALLOCATION OBJECTIVES

The following objectives define how the RFFA process should be conducted and what outcomes should be achieved with the overall allocation process.

- 1. Select projects from throughout the region; however, consistent with federal rules, there is no sub-allocation formula or commitment to a particular distribution of funds to any sub-area of the region.
- 2. Honor previous funding commitments made by JPACT and the Metro Council.
- 3. Address air quality requirements by ensuring air quality Transportation Control Measures (TCMs) for pedestrian and bicycle improvements are met and that an adequate pool of CMAQ-eligible projects is available for funding.
- 4. Achieve multiple transportation policy objectives.
- 5. Allow use of funding for project development and local match of large-scale projects (greater than \$10 million) that compete well in addressing policy objectives when there is a strong potential to leverage other sources of discretionary funding.
- 6. Encourage the application of projects that efficiently and cost-effectively make use of federal funds.
- 7. Recognize the difference in transportation infrastructure investment needs relative to an areas stage of development (developed, developing, undeveloped) consistent with RTP Table 2.2.
- 8. Identify project delivery performance issues that may impact ability to complete a project on time and on budget.
- 9. Ensure agencies have qualifications for leading federal aid transportation projects.
- 10. Identify opportunities for leveraging, coordinating, and collaboration.

**Getting there** with a connected region



















### What did leaders say?

Technology is a tool, not a solution.

There are people who are not in rooms like this who depend on the conversation.

People will support what they help create.

## 2018 REGIONAL TRANSPORTATION PLAN UPDATE Regional Leadership Forum 2 summary

## **Building the Future We Want**

The region is looking ahead to how our transportation system will accommodate future growth and change – and what investments we should make over the next 25 years to build a transportation system that provides every person and business with access to safe, reliable, affordable and healthy ways to get around.

On Sept. 23, 2016, the Metro Council convened more than 70 leaders and 80 stakeholders from across the Portland metropolitan region to discuss the role of technology in our transportation system and to learn about successful transportation funding campaigns in Los Angeles, the Bay Area and Seattle.

City, county, regional and state policymakers and business and community leaders came together to explore what the future of transportation might look like from local and national leaders actively engaged in envisioning the future with their communities. Forum participants came from established and emerging businesses, business alliances, workforce partnerships, skilled trades organizations, and community-based organizations working on transportation advocacy, environmental justice, housing, community design, workforce equity, environmental protection and issues impacting youth and older adults.

Bringing these diverse perspectives to the conversation prompted a call for greater representation from communities whose quality of life and economic prosperity are most often impacted by our region's transportation system.





66 For folks from different walks of life, from different income levels, and different parts of the region, if there isn't a way for them to remain connected and a way for the transportation system to be efficient, they really fear for their future. 99

-Cyreena Boston Ashby, COO, Oregon Public Health Institute















## Five key takeaways

1. Technology and data are tools, not solutions.

Innovative technologies, ranging from car sharing and ridesharing services to electric cars and self-driving vehicles, are fundamentally changing how we travel. We need to enact thoughtful policies that deliver helpful technology, while ensuring these new tools and services benefit all residents and businesses and support our vision for the future.

2. We need to keep people and goods connected and moving with smart investments and measurable results.

Transportation investments support our region's economic prosperity and quality of life. Investments should safely and reliably connect people work, school, services and other opportunities; maximize use of existing infrastructure; and promote greater use of efficient travel modes for both people and goods. This includes keeping our existing transportation system in good repair and using technology and other tools to achieve greater efficiencies. An essential step is providing more and better travel options and greater access to transportation services for everyone.

3. We must take steps to strengthen public confidence and demonstrate the benefits of transportation investments.

Building the future we want means prioritizing transportation investments that support our vision and holding ourselves accountable by measuring how investments support the desired outcomes identified in our vision. It's important that we demonstrate to the public that taxpayer dollars are being spent wisely.

4. Coalitions need strong leadership and leaders need strong coalitions.

The region's government, business and community leaders need to work together to agree on a bold vision for the future that reflects what people and businesses value and want in the region's transportation system. We need to welcome new voices and leaders to the table to help identify solutions to address the challenges we face. This can build broad support for the solutions and help make the case more funding to build the future we want for our region.

5. People will support what they help create.

It will take more than having diverse perspectives at the table to get us to the future we want. Building deeper relationships with community and business coupled with meaningful engagement opportunities will help shape policy and investment decisions. The degree to which we invest in these relationships reflects our level of commitment to providing a transportation system that meets the needs of all communities and businesses.

### More information

News coverage of the forum is available at **oregonmetro.gov/forum2recap**. Materials and presentations from the forum are available at **oregonmetro.gov/event/building-future-we-want.** 

Find out more about the 2018 RTP update at oregonmetro.gov/rtp.

## Memo



Date: Tuesday, October 18, 2016

To: Transportation Policy Advisory Committee (TPAC) and interested parties

From: Jamie Snook, Principal Planner

Subject: Regional Transit Strategy; Regional Transit Vision and Typologies

#### **Purpose**

The purpose of this memorandum is to provide information to TPAC on the development of the Regional Transit Vision and emerging strategies for prioritizing and implementing major capital investments in transit. It also describes how these elements fit within the Regional Transit Strategy, the goal of which is *to make transit more frequent, convenient, accessible and affordable*. Investments in the transit system should help achieve the following outcomes:

- **Frequent:** Align frequency and type of transit service to meet existing and projected demand and in support of local and regional land use and transportation visions.
- **Convenient:** Make transit more convenient and competitive with driving by improving transit speed and reliability through priority treatments (e.g., signal priority, bus lanes, queue jumps, etc.) and other strategies. Improve customer experience by ensuring seamless connections between various transit providers, including transfers, information and payment.
- Accessible: Provide safe and direct biking and walking routes and crossings that connect to stops to make transit more accessible. Expand the system to improve access to jobs and essential destinations/daily needs.
- Affordable: Ensure transit remains affordable, especially for those dependent upon it.

This is an important time to update the Regional Transit Vision. With continued regional growth come challenges such as more congestion, higher housing prices, and strained access to employment. Residents, elected officials, and community organizations view increased transit service as a critical part of the overall solution to these challenges. If we want to become the region we laid out in our 2040 Growth Concept, we must continue improving transit's accessibility, service, reliability, and reach.

#### **Action Requested**

Staff is seeking feedback from TPAC members regarding the following issues:

- key elements that should be presented to JPACT,
- approach to updating the High Capacity Transit (HCT) Plan, and
- integrating the Enhanced Transit Corridors concept into the Regional Transit Strategy (RTS).

#### **Regional Transit Vision**

Through the Regional Transit Strategy (RTS), we are engaging community leaders and regional transit providers, to develop a shared vision and investment strategy. The Regional Transit Vision will be comprised of three components:

- 1. **Transit service improvements**: local and regional transit service improvements designed to meet current and projected demand in line with local and regional visions.
- 2. **Capital investments**: new enhanced transit strategies such as signal priority, queue jumps, etc or high capacity transit options such as bus rapid transit or light rail.
- 3. **Transit supportive elements**: including policies such as Travel Demand Management and physical improvements such as sidewalks, crossings and complementary land uses.

.

Limited funding is a challenge faced by regions and transit providers throughout the country. Many jurisdictions have taken to raising funds at the local level as a means to leverage the limited federal funds available. While our region is potentially preparing for a funding measure to support specific transit capital improvements, this will not address additional needs identified by stakeholders in the regional transit vision, nor will it support increased operations or service investments.

#### **Regional Transit Vision - Transit service improvements**

These include the planned local and regional transit service improvements being developed by transit providers throughout the region. Examples include: TriMet's Service Enhancement Plans, SMART Master Plan, and future Portland Streetcar service lines. These service improvements will be incorporated into a regional transit service typology that reflects the varying needs for different types of transit service throughout the region based on demand and geography, and aligns them with existing and proposed local and regional land use and transportation visions.

#### **Regional Transit Vision - Capital investments**

The capital investment component of the regional transit vision includes two types of investments: High Capacity Transit (HCT) and Enhanced Transit Corridors (ECT). These investments are intended to connect regional centers, town centers, and to improve the speed and reliability of major transit lines. Transit providers throughout the region are collaborating on a coordinated transit vision which includes transit service improvements and capital investments

#### **High Capacity Transit (HCT)**

In 2009, the region concluded a process to create the first high capacity transit system plan since the 1980s. This plan defined a tiered list of HCT corridors for prioritization, which was adopted into the RTP in 2010. Since the HCT plan adoption, the region has moved forward with the top two priorities: Southwest Corridor and Powell-Division Corridor. *See attached HCT System map*.

Since 2009, a number of changes have occurred that necessitate updating the HCT plan. For example in 2009:

- The Lake Oswego Transit and I-5 Bridge Replacement projects were identified as moving forward toward project development at the time of approval. However, these projects are currently on hold;
- An HCT line was identified that connected the regional center of Damascus, which recently voted to disincorporate; and
- The Division bus rapid transit project is moving forward and will meet some critical near term needs in one part of the Powell-Division corridor; the Powell corridor HCT needs remain unmet.

These changes, as well as other regional developments, should be reflected in the newest HCT plan.

#### **Enhanced Transit Corridors**

The Enhanced Transit Corridors (ETC) concept was developed as a way to increase speed, capacity and reliability in congested and heavy used transit corridors, which have been consistently eroding as the region continues to grow and congestion worsens in these key corridors. These improvements tend to be relatively low cost, context sensitive, and quickly deployed when compared to HCT projects. This concept is not necessarily new, but helps provide a framework for advancing a toolkit of improvements to transit corridors where they would provide the greatest benefit. These tools include technological improvements, such as next-generation, connected vehicle-based Transit Signal Improvement, and off-board payment to infrastructural improvements, such as queue jumps and transit-only rights of way.

While there are numerous possible packages of investment that could be implemented, Enhanced Transit Corridors could be grouped into two major categories (Levels 1 & 2), based on the type, intensity, and extent of the toolbox elements deployed and requested by the partner jurisdiction. The key distinctions between the two typologies are the intensity of improvements and potential funding mechanisms.

The ETC concept builds off of the Service Enhancement Plan (SEP) to restore and expand transit service. The ETC is an opportunity to provide speed and reliability to corridors that need it most.

**ETC Level 1** consists of smaller scale enhanced transit improvements, most likely ranging from \$10-\$50 million. These are lower intensity investments that could include spot improvements on more than one line, modest improvements throughout a corridor or focused investments on key segments of a corridor. Typical ETC Level 1 improvements could include:

- More frequent service
- Wide stop spacing
- Improved stops with shelter amenities, bike racks, real-time arrival information, and improved lighting
- Next-generation transit signal priority
- Right-turn-except-bus lanes or Business Access and Transit (BAT) lanes where feasible/needed

**ETC Level 2** consists of medium to large scale enhanced transit improvements, likely to include FTA as a funding partner and range from \$50 - \$300 million (FTA Capital Investment Grant, Small Starts maximum funding levels). These are higher intensity levels of investments in infrastructure treatments to meet corridor-wide transit needs. Projects identified here would need to meet the System Expansion Policy criteria and FTA Capital Investment Grant Small Starts requirements. Typical ETC Level 2 are inclusive of the Level 1 improvements, but also may include:

- Longer articulated buses and in some cases streetcar
- Level or near-level boarding platforms
- Exclusive transit lanes / grade separation crossings where feasible/needed

See attached description of Enhanced Transit Corridors for more detailed information.

#### **Transit vision - transit supportive elements**

The regional transit vision also includes transit supportive elements. These are infrastructural improvements, programs, policies, and strategies that that bolster demand for and improve access to transit in the region. These supportive elements include efforts such as Travel Demand Management (TDM) strategies such as individualized and employer-based travel training, mixed use and higher intensity development with managed parking, improved pedestrian and bicycle safety and connections, integrated trip planning and payment systems, and transit signal priority.

#### **Transit vision - implementation**

There are different ways in which the transit vision will be implemented. First, prioritizing and implementing transit service improvements are the responsibility of the transit provider, though they also rely on regional/local partnerships that demonstrate support for increased transit demand and improved performance. Transit service improvements are programmed on an annual basis through the Annual Service Plan process, which is tied to the service providers' annual budget processes, though service improvements may themselves be implemented at multiple times during the year.

Through the Regional Transit Strategy, we will be updating the Transit System Expansion Policy to provide a clear and transparent process for prioritizing and implementing capital investments related transit capital improvements. The updated System Expansion Policy will provide the framework and guidance to help answer the question "What are the region's next priorities?". The update will include an analysis of how funding and policies have changed locally, regionally, and federally. This, in turn, will allow for an update to the process to prioritize projects on readiness and merit. This would apply to any project seeking regional support to pursue FTA Capital Investment Grants such as Small Starts, New Starts or Core Capacity funding.

#### **Next Steps**

We are continuing to work with regional partners through the Transit Work Group to help define the Regional Transit Vision in more detail as well as develop a clear and transparent Regional Transit Strategy implementation process. Below is a short list of next steps:

- Develop a Regional Transit Vision, including service improvements and transit-supportive elements (Fall 2016/Winter/Spring 2017)
- Update High Capacity Transit plan (Fall 2016/Winter 2017)
- Refine Enhanced Transit Corridors concept and incorporate into Vision if supported (Winter/Spring 2017)
- Update Transit System Expansion Policy and implementation process (Winter/Spring 2017)
- Provide coordination between RTS and RTP working groups and products (ongoing)

### **Enhanced Transit Corridors**

<u>Concept</u>: In order to meet the Portland Metro region's environmental, economic, livability and equity goals as we grow over the next several decades, we need new partnerships to produce transit service that provides <u>increased capacity and reliability</u> yet is <u>relatively low-cost to construct, context-sensitive</u>, and able to be <u>deployed more quickly throughout the region</u> where needed. Producing this "Enhanced Transit," through the co-investment of multiple partners could be a major improvement over existing service, including our region's best Frequent Service bus lines, but less capital-intensive and more quickly implemented than larger scale high capacity transit projects the region has built to date. Investments would serve our many rapidly growing mixed-use centers and corridors and employment areas that demand a higher level of transit service but are not seen as good candidates for light rail, or larger bus rapid transit with fully dedicated lanes.

Enhanced Transit partnerships could also create quicker, higher quality transit connections to connect low-income and transit-dependent riders to jobs, school and services. It would allow for a more fine-grained network of higher-quality transit service to complement our high capacity transit investments, relieve congestion and grow ridership throughout the region in response to the region's rapid growth.

Enhanced Transit Toolbox: Enhanced Transit service could include elements such as:

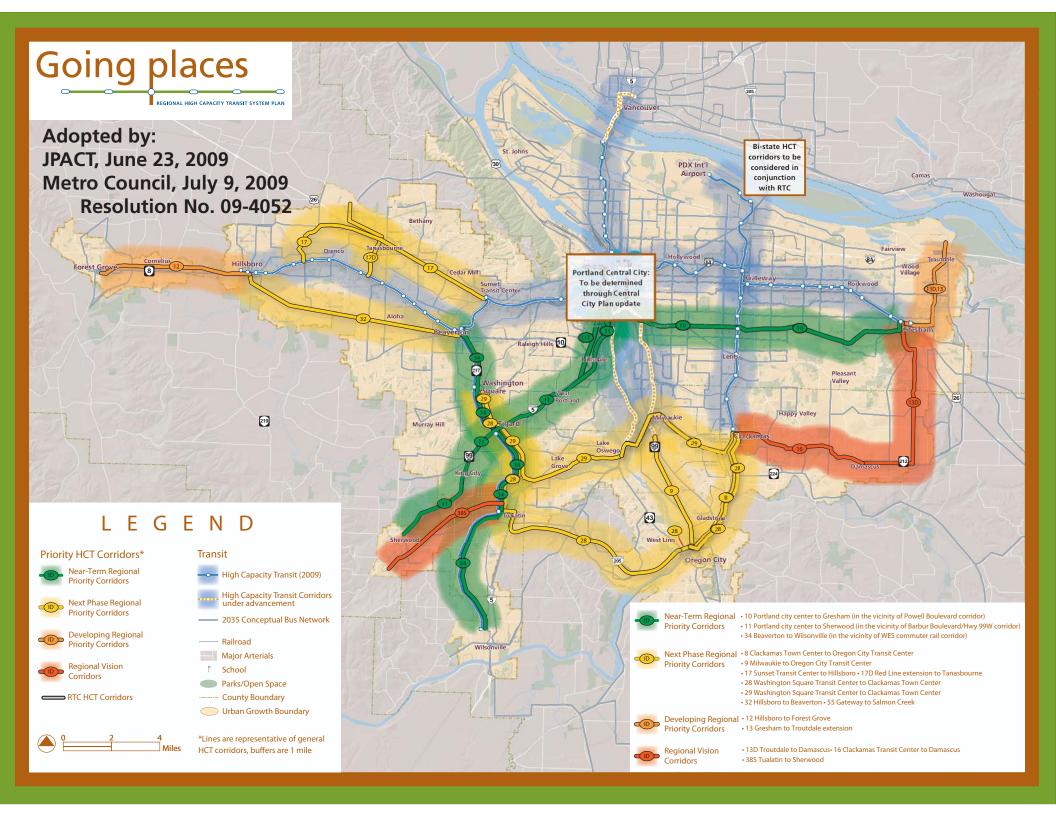
- More frequent service
- Longer articulated buses, and in some corridors, streetcar
- Wider stop spacing
- Improved stops with shelter amenities, weather protection, real-time arrival information, bike racks, improved lighting
- Level or near-level boarding platforms
- Off-board electronic fare payment with all-door boarding
- Next-generation transit signal priority
- Intersection treatments such as queue jumps
- Intersection treatments such bus-only signals, and bypass lanes
- Right-turn-except-bus lanes or Business Access and Transit (BAT) lanes
- Exclusive transit lanes where feasible
- · Access to Transit investments including sidewalks and pedestrian crossings
- Policy commitments to support transit ridership (TDM Programs, adopted policies to prioritize transit reliability)

<u>Enhanced Transit Corridor "Levels:"</u> While there are numerous possible packages of investment using the toolbox listed above, projects could be grouped into two major categories or Levels, based on the type, intensity and extent of the toolbox elements deployed. See attached table for potential descriptions.

Level 1: Smaller Scale Enhanced Transit (\$10-50 Million)

Level 2: Medium to Large Scale Enhanced Transit with FTA funding partnerships (\$50-300 Million)

Implementation: Implementation of this new program would need to occur region-wide to identify co-investment opportunities for TriMet service increases and develop a comprehensive, prioritized investment pipeline of Enhanced Transit Corridors ready to be included in regional plans and upcoming funding requests. Timing is perfect as TriMet has recently begun implementing its Service Enhancement Plan service improvements and should be leveraging partnerships with local jurisdictions in that investment. Development of the higher level corridors now is also crucial to ensure that Enhanced Transit is able to receive funding in upcoming regional and state funding opportunities and to establish eligibility for federal funding where appropriate.



### **Enhanced Transit Corridors Typologies**

Draft: 10/4/2016

	<u>Level</u>	Potential Improvements	Potential Funding	Rough Cost Range
Foundation	TriMet Service Enhancement Plan Partnerships with Local Jurisdictions Projects prioritized through TriMet's Service Enhancement Plan process in coordination with jurisdiction(s).	<ul> <li>More frequent service, increased span, route restructuring or new service coverage</li> <li>Intersection treatments such as queue jumps</li> <li>Improved stops with basic amenities</li> <li>Access to Transit investments including sidewalks and pedestrian crossings</li> <li>Policy commitments to support transit ridership (TDM Programs, adopted policies to prioritize transit reliability)</li> </ul>	TriMet Service Local Jurisdiction(s) Institutional or Private Partner(s)	\$2-10 Million
1	Level 1 Enhanced Transit Lower intensity of investment, infrastructure treatments may be focused as follows:  - Modest investments throughout a corridor - Focused investments on key segments of a corridor - Spot improvements on more than one line.  Cost range driven primarily by number and type of investments.  Projects prioritized through TriMet's Service Enhancement Plan process in coordination with jurisdiction(s) proposing project. Projects identified as Enhanced Transit Corridors in RTP, with RTP project description and cost defined by project partners.	<ul> <li>More frequent service</li> <li>Wider stop spacing</li> <li>Improved stops with shelter amenities, bike racks, real-time arrival information, and improved lighting</li> <li>Next-generation transit signal priority</li> <li>Intersection treatments such as queue jumps where feasible</li> <li>Intersection treatments such bus-only signals, and bypass lanes where feasible</li> <li>Right-turn-except-bus lanes or Business Access and Transit (BAT) lanes where feasible</li> <li>Potentially longer articulated buses in some corridors</li> <li>Access to Transit investments including sidewalks and pedestrian crossings, ADA treatments</li> <li>Policy commitments to support transit ridership (TDM Programs, adopted policies to prioritize transit reliability)</li> </ul>	TriMet Service Local Jurisdiction(s) Institutional or Private Partner(s) State (Connect Oregon, STIP, Transportation Package, ODOT Region 1) Regional Funding Measure TriMet Capital TIGER	\$10-50 Million
2	and intensity of imvestments.	<ul> <li>More frequent service, at least meeting Federally required minimums</li> <li>Longer articulated buses, and in some corridors, streetcar, including unique branding</li> <li>Wider stop spacing</li> <li>Improved stops with shelter amenities, bike racks, real-time arrival information, improved lighting</li> <li>Level or near-level boarding platforms</li> <li>Off-board electronic fare payment with all-door boarding</li> <li>Next-generation transit signal priority</li> <li>Intersection treatments such as queue jumps where feasible</li> <li>Intersection treatments such as bus-only signals, and bypass lanes where feasible</li> <li>Right-turn-except-bus lanes or Business Access and Transit (BAT) lanes where feasible</li> <li>Exclusive transit lanes where feasible</li> <li>Grade separated crossings where needed</li> <li>Access to Transit investments including sidewalks and pedestrian crossings, ADA treatments</li> <li>Policy commitments to support transit ridership (TDM Programs, adopted policies to prioritize transit reliability)</li> </ul>	FTA Small Starts TriMet Service TriMet Capital Local Jurisdiction(s) Institutional or Private Partner(s) State (Connect Oregon, Transportation Package, STIP, ODOT Region 1) Regional Funding Measure	A) \$50-100 Million*  B) \$100-175 Million*  C) \$175 Million-\$300 (maximum allowed under Small Starts grant program;* requires significant local funds to overmatch, given FTA funding structure)

\*Use Small Starts Warrants to help inform project evaluation and prioritization

## Memo



Date: October 20, 2016

To: Transportation Policy Alternatives Committee (TPAC) and interested parties

From: John Mermin, Performance Measures Work Group Lead

Subject: 2018 RTP: Recommended Refinements to RTP System Evaluation Measures

#### **Action Requested**

TPAC review and comment on proposed refinements to the RTP System evaluation measures and provide suggestions for effectively summarizing the recommended measures to policymakers. TPAC will have a second opportunity to discuss recommended RTP system evaluation measures at the January 27 meeting.

#### **Background**

The Performance Measures Work Group is one of eight technical work groups identified to provide input and technical expertise to support development of the 2018 Regional Transportation Plan (RTP). The main charge of the work group is to provide technical input and make recommendations to Metro staff on updating the RTP performance measures. Additionally, work group members have been asked to:

- Provide information to their organization's leadership and/or staff about the progress of the work (in addition to technical and policy committee representatives).
- Integrate input from partners, the public and other RTP work groups (safety, transit, equity and freight) to develop recommendations to Metro staff.
- Identify issues that need to be resolved by Metro Council, MPAC and JPACT.

The Performance Measures work group met five times in 2016 to review and recommend updates to the *RTP system evaluation measures*, with an emphasis on simplifying and decreasing the number of measures. Performance measures were pulled from and based upon industry best practices, the 2014 RTP, the 2014 Climate Smart Strategy and the performance measures identified by other RTP work groups. The system evaluation measures will be used to evaluate performance of the 2018 RTP as a whole. The evaluation will help policymakers understand the degree to which projects and programs advance the region towards the RTP goals, and identify where additional efforts may be needed.

#### **Recommended changes to RTP System Evaluation Measures**

Attachment 1 summarizes recommended changes to the existing RTP system evaluation measures based on discussion at the Performance work group meetings as well at the meetings of the Transit, Equity, Safety and Freight work groups. The proposed refinements include changes to methods, geographies, and the addition of new measures. Further refinements to the measures may be recommended pending the RTP system evaluation in 2017.

#### **Next Steps**

Recommendations for some measures are still under development by staff and other work groups related to measuring congestion, freight, and equity. Staff will document the data and methodology to be used for calculating each measure. *Attachment 2* provides a sample template of the information to be included in the methodology documentation.

JOHN MERMIN, RTP PERFORMANCE WORK GROUP LEAD

2018 RTP: RECOMMENDED
REFINEMENTS TO RTP SYSTEM
EVALUATION MEASURES

In addition, staff will continue to refine presentation of the measures and will bring input from TPAC, the Metro Technical Advisory Committee (MTAC) and the December 2 RTP Regional Leadership Forum to a December meeting of the Performance work group (*Date TBD – likely 12/5 or 12/12*). Thus, TPAC will have a second opportunity to discuss refinements to the RTP system evaluation measures and how they are presented at the January 27 meeting.

In 2017, the work group will focus on setting performance targets and establishing monitoring measures for the RTP. Target setting will address recent federal rulemaking in response to the Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation Act (FAST Act), as appropriate. As noted previously, further refinements to the measures may be recommended pending the RTP system evaluation.

ID	System Evaluation	Staff Recommendation	Rationale / Notes	Work Group(s) Recommendation
#	Measure			
Tra	vel Characteristics			
1.	Vehicle travel – VMT per person (total and per capita)	Refine and rename – "Auto travel" and expand to report VMT per employee in addition to reporting total VMT per person along with bicycle miles traveled, pedestrian miles traveled, freight miles traveled and person miles traveled per VMT.	This measure provides information on the amount of driving in the region. VMT per employee may better factor in fluctuation in VMT due to economic swings.	Performance work group supports the staff recommendation and reporting by # of miles and % of overall miles traveled by sub-region (urban Washington Co, urban Clackamas County, Portland, East Multnomah County) to better show variations across the region.
2.	Bicycle travel - Bicycle miles traveled (total and per capita)	No change.	This measure will provide information on the amount of bicycling occurring in the region.	
3.	Mode Share - System wide for walking, bicycling and transit, Non-SOV% targets by 2040 design type, by mobility corridor and for central city and individual regional centers	Refine and rename. Active transportation and transit mode share	Narrow this measure to evaluate mode share for the Central City and Regional Centers (as well as region-wide and by mobility corridor) as done in past RTP updates. This formally acknowledges that Metro cannot accurately measure mode share at geographies as small as town centers, industrial and employment areas. Chapter 2 of the RTP (p.2-22) and table 2.5 will need to be updated to reflect this recommended change. These refinements are consistent with the state's Transportation Planning Rule (TPR) - the original impetus for creating these targets. Regional-level mode share targets will be addressed in 2017 as part of the broader RTP target-setting discussions.	Performance and transit work groups support the staff recommendation and requested the analysis be reported by sub-region (urban Washington Co, urban Clackamas County, Portland, East Multnomah County) to better show variations across the region.
4.	<b>Transit ridership -</b> System wide for each transit service type	Add as new measure.	This measure will provide information about the amount transit use in the region.	Performance and transit work groups support the staff recommendation.
Aff	ordability			
5.	Affordability* - Combined cost of housing and transportation	Refine methodology.	Staff will continue to develop a methodology. This measure is a major priority of the equity work group.	The Equity work group supports the staff recommendation with the recognition that there are a number of methodological components that need further work in order to be useful.  Transit Work Group has expressed concerns that current tools and methods won't capture the transit cost component very well.
Saf	ety			
6.	<b>Safety</b> - Fatal & severe crashes for pedestrian, bicyclists, motorists	Move to RTP monitoring measures.	This measure cannot be used as a system evaluation measure due to the inability of the regional travel model to directly predict crashes.	The Performance and Safety workgroups support the staff recommendation.
7.	Safety - Percent of number and cost of safety projects in the RTP investment packages region-wide and in areas with historically underrepresented communities.	Add as new measure.	Safety is a key concern of the RTP and has not been part of past system evaluations. This measure will assess whether safety investments are being made disproportionately. Safety projects are defined as: "Infrastructure projects with the primary intent to address a safety issue, and allocate a majority of the project cost to a documented safety countermeasure(s) to address a specific documented risk, or improve safety for vulnerable users, including people walking and bicycling, older adults and youth." In response to feedback from the performance and safety work groups, references to high-injury corridors and safe routes to school projects were removed from an earlier draft safety project definition.	The Safety, Equity and Performance work groups support the staff recommendation.
8.	Safety* - Exposure to crash risk through the sum of all non-	Add as new measure.	Safety is a key concern of the RTP and has not been part of past system evaluations. This is an interim measure until a safety and crash predictive model is developed involving other factors.	The Safety, Equity and Performance work groups support the general approach of the staff

ID	System Evaluation	Staff Recommendation	Rationale / Notes	Work Group(s) Recommendation
#	Measure			
	interstate vehicle miles traveled (VMT) in Transportation Area Zones (TAZ) for RTP investment packages region-wide, and in historically underrepresented communities.		Measuring transportation safety is a priority topic area for historically underrepresented communities and there is some interest in looking at forecastable indicators to flag potential transportation safety issues. Staff has found a statistical correlation between VMT and crashes. Staff will further test the measure to determine if using per capita is the right approach and refine which limited-access facilities are excluded from the analysis.	recommendation. Additionally, the Performance work group provided general support to continue to explore this measure and use It for an initial assessment, and asked staff to use "non-throughway" or "non-freeway" instead of "non-interstate" to ensure that limited access facilities such as US 26 and Hwy 217 are accounted for. The safety work group recommends further testing the measure, including whether s per capita is the right approach.
Ac	cess, Connectivity and Co	mpleteness		
9.	Basic infrastructure* - Miles of (regional networks) of sidewalk, bikeways, and trails	Refine, continue to develop methodology and rename -"Access to Travel Options – system connectivity."	A methodology to measure street connectivity will need to be developed to implement this recommendation. Developing this measure will have resource impacts for both Metro and local governments.	The Equity work group's preliminary recommendation is to expand this measure to add street connectivity to sidewalks, bikeways and trails with an emphasis on looking at the timing of basic infrastructure investments in historically underrepresented communities. The Performance work group recommends packaging all of the "access" measures as a suite, being sure to address completeness, route directness/connectivity, origins & destinations.
10.	Access to Jobs* - Number of jobs (classified by wage groups – low, middle, and high) accessible within 30 minutes by auto; 45 minutes by transit; 30 minutes by bike, and 20 minutes by walking.	Add as a new measure.	Access to jobs is a significant transportation priority identified by historically underrepresented communities. The Access to jobs and access to daily needs measures have been recognized by work groups and staff as extremely important. Metro Planning and Research Center staff will work to further develop these accessibility-related measures.	Equity, Transit and Performance work groups support the staff recommendation.
11.	Access to Daily Needs* - Number of essential destinations accessible within 30 minutes by bicycling & public transit for low-income, minority, senior and disabled populations	Refine and rename - "Access to Places."	Metro staff recommends this measure be renamed and refined to: 1) measure access by bicycling, walking, transit, driving; 2) adjust the time sheds for each mode; and 3) define existing "daily needs" consistent with other similar efforts, including the TriMet Equity Index. The Access to jobs and Access to daily needs measures have been recognized by workgroups and staff as extremely important. Metro Planning and Research Center staff will work to further develop these accessibility-related measures.	Equity, Transit and Performance work groups support the staff recommendation.
12.	Trail Accessibility - Number and percent of households within ½-mile of a regional trail	Refine and rename – "Access to Bicycle and Pedestrian Parkways - Number and percent of households within ½ mile of a regional trail bicycle or pedestrian parkway."	This change would better reflect access to the major regional off-street and on-street bicycling and walking routes throughout the region.	The Performance work group supports the staff recommendation.
13.	Access to transit – percent of bike or pedestrian network gaps completed within ½-mile of transit	Add as a new measure.	This is seen as a subset to the Access to system connectivity measure. This also supports the transit supportive elements part of the regional transit vision.	The Transit and Performance work groups support the staff recommendation.
14.	Transit coverage – number and share of households, low-income households and employment within ¼- mile of high capacity transit or frequent service transit	Add as a new measure.	This measure was recommended through the Climate Smart Strategy and by the Transit Work Group. This measure provides information on how much of the region's households and jobs are served by transit.	The Transit work group supports the staff recommendation. The Performance work group noted that this measure will eventually be replaced by the access measures.

ID #	System Evaluation Measure	Staff Recommendation	Rationale / Notes	Work Group(s) Recommendation
15.	Freight Accessibility	Under development.	Under development by RTP Freight workgroup	TBD
Tra	vel Time and Efficiency			
16.	Motor vehicle and transit travel times - Between key origin-destinations for mid-day and 2-hr PM peak	Refine and rename – "Multimodal travel times"	Metro staff recommends renaming and refining this measure to evaluate bicycling and freight travel times in addition to auto and transit for each regional mobility corridor. <i>Note: the regional travel model is not currently able to forecast walking travel times.</i> Metro staff will bring back a list/map of proposed origins/destination that match up with each mobility corridor. It is possible that some important Origin/Destination pairs for biking, freight or transit don't match up within the mobility corridors.	The Performance and Transit work groups support the staff recommendation.
17.	Congestion - Vehicle hours of delay per person *defined in RTP as time accrued in congested conditions (V/C > 0.9)	Under development.	Metro staff will develop options for discussion by TPAC and the performance work group this winter. Discussions are underway with ODOT regarding updates to regional and state congestion measures and the Interim Regional Mobility Policy. Developing a recommendation for this measure is especially challenging since the new federal regulations relating to congestion measurement are not yet finalized.	TBD
18.	Interim Regional Mobility Policy - Locations of throughways, arterials, and regional freight network facilities that that exceed LOS threshold	Under development.	Metro staff will develop options for discussion by TPAC and the performance work group this winter. Discussions are underway with ODOT regarding updates to regional and state congestion measures and the Interim Regional Mobility Policy. Developing a recommendation for this measure is especially challenging since the new federal regulations relating to congestion measurement are not yet finalized.	TBD
19.	Freight reliability - Hours of delay per truck trip	Refine and rename – "Freight truck delay"	The Freight work group recommends evaluating delay per truck trip exclusively on regional freight network rather than entire roadway system. Also, the measure should be called "Freight truck delay" since it does not measure reliability. A reliability measure for current conditions has been developed to include in RTP Monitoring Measures.	The Freight and Performance work groups support the staff recommendation. The performance work group noted that the freight travel time measure within #14 "Multimodal travel times" may end up covering this, making this measure unnecessary.
20.	Cost of freight delay - Total cost of delay on freight network	Under development.	Under development by RTP Freight work group	TBD
21.	Freight Congestion – Map locations and calculate number miles on throughways, arterials, and the regional freight network that exceed RTP defined congested conditions.	Under development.	Metro staff will develop options for discussion by TPAC and the performance workgroup this winter. Discussions are underway with ODOT regarding updates to regional and state congestion measures and the Interim Regional Mobility Policy. Developing a recommendation for this measure is especially challenging since the new federal regulations relating to congestion measurement are not yet finalized.	TBD
22.	Transit productivity - Boarding rides per revenue hour for HCT & bus	No change.	The measure provides information on the productivity and efficiency of transit service provided.	The Transit work group supports the staff recommendation. The Performance work group recommends collapsing it with the transit revenue hours measure under the "transit productivity" heading and to add in transit ridership in as well.
23.	Transit revenue hours –revenue hours by transit mode	Report as part of the transit productivity measure.	This measure was recommended through Climate Smart Strategy and by the Transit Work Group. The measure provides information on the amount of transit service provided.	The Transit and Performance work groups support the staff recommendation. The Performance work group recommends adding in transit ridership as well (see measure #5).
	vironment			
24.	Climate Change – Tons of transportation-related	No change.	The region is required to measure greenhouse gas emissions to help demonstrate whether the RTP is meeting state-required per capita greenhouse gas emissions reductions. During 2017 target setting	The Performance work group supports the staff recommendation.

**Attachment 1.** Summary of Recommended changes to RTP System Evaluation Measures. October 20, 2016

ID	System Evaluation	Staff Recommendation	Rationale / Notes	Work Group(s) Recommendation
#	Measure			
	greenhouse gas emissions (total and per capita)		discussion, ensure that the new target is consistent with statewide target and Climate Smart Strategy.	
25.	Clean air - Tons of transportation related air pollutants (e.g. CO, ozone, PM-10)	Refine air pollutants reported.	Metro staff recommends this measure be refined. This is an important measure for evaluating transportation impact on air quality and human health. Pollutants reported may change pending further consultation with DEQ.	The Performance work group supports the staff recommendation. The work group member requested staff to provide mapping at the sub-regional level if possible since the Tualatin Valley has unique air quality compared to the east side of the region.
26.	Habitat impact* - Number and percent of projects that intersect high value habitat	Refine methodology.	The Equity work group recommends assessing whether there are disparities between historically underrepresented communities and transportation projects that may impact habitat conservation/preservation, primarily focusing the assessment on roadway projects.	The Equity and Performance work groups support the staff recommendation. The Performance work group recommends adding contextual language to describe the purpose of this measure, better define high value habitat, and note that it is tied to federal requirements to consult with resource agencies as part of an RTP update. The Performance work group also supports continuing to use this measure to identify projects in the RTP for informational purposes for the public and project sponsors.

<sup>\*</sup> Reflects the transportation priorities identified by historically underrepresented communities and will serve as the basis for the federally-required Title VI Benefits and Burdens analysis.

**Attachment 2.** Sample template to document methodology for RTP System Evaluation Measures 10/20/16

Evaluation Measure: Access to Jobs

<u>Purpose</u>: To identify whether the package of future transportation investments will increase the ability of region's residents to get to low and middle-wage jobs and to look at the difference in job accessibility in areas with high concentrations of historically underrepresented communities and the region.

#### **RTP Goals**

•	Foster vibrant communities and compact urban form	•	Promote environmental stewardship		
•	Sustain economic competitiveness and prosperity	•	Enhance human health		
•	Expand transportation choices		Demonstrate leadership at reducing greenhouse gas emissions		
	Effective and efficient management of system	•	Ensure equity		
	Enhance safety and security		Ensure fiscal stewardship		
•	Deliver accountability				

#### **Function of Measure**

•	System Evaluation		Project Evaluation		System Monitoring		Performance Target
---	-------------------	--	--------------------	--	-------------------	--	--------------------

#### Related RTP Performance Measure(s): None to date

#### **Methodology Description:**

The **Access to Jobs** measure looks to assess the following questions for the region's transportation system:

- 1) How many low and middle-wage jobs can be reached in a given time window by different travel modes?
- 2) What are differences in low and middle-wage job access for the region and specifically for historically underrepresented communities?
- 3) Is there a difference in low and middle-wage job access between automobile and transit?
- 4) Is there a difference which extends beyond a reasonable threshold and creating a "transit access disadvantage" to low and middle-wage jobs in certain areas? If so, do those "transit access disadvantage" areas overlap with historically underrepresented communities?

The Access to Jobs measure is calculated by using forecasted data from MetroScope to identify the low-wage and middle-wage jobs (defined in assumptions) throughout the region. The analysis will first determine the number of low and middle-wage jobs reached using the existing transportation system and looking at the differences in low and middle-wage jobs accessed by travel mode (automobile, transit, bicycle, and walking) in a given travel time window for the entire region and in areas with high concentrations of historically underrepresented communities to determine base year conditions. The next step is to conduct the same assessment, but use the proposed package of transportation investments in the long-range regional transportation plan as the input to determine the future year accessibility to forecasted low and middle-wage jobs by mode for the entire region and in areas with high concentrations of historically underrepresented communities. Look at the change in the accessibility to these low and middle-wage jobs between the base year and future year, with an emphasis on the change in historically underrepresented communities with added transportation investments.

**Attachment 2.** Sample template to document methodology for RTP System Evaluation Measures 10/20/16

Furthermore, the number of low and middle-wage jobs accessible by transit and by automobile will also be compared. A threshold will be applied to determine whether there is a "transit access disadvantage" to low and middle-wage jobs. (Meaning there is significantly less access to low and middle-wage jobs by transit compared to automobile access.) The areas which are identified as "transit access disadvantaged" will be compared to areas where there are higher concentrations of historically underrepresented communities.

**Output Units:** Number of low and middle-wage jobs accessed by mode (# - Auto; # - Transit; # - Bike; # - Walk)

#### **Potential Output of Assessment:**

Job Access – Low-Wage:

	Base Year				lı	nterir	n Yea	ır	Future Year – Financially Constrained			Future Year – Strategic				
	Α	Т	В	W	Α	Т	В	W	Α	T	В	W	Α	Т	В	W
Region-wide																
Historically																
Underrepresented																
Communities																

A – Automobile; T – Transit; B – Bicycle; W - Walk

Job Access – Middle-Wage:

	Base Year			I	nterir	n Yea	ır	Future Year – Financially Constrained			,	Future Year – Strategic				
	A	T	В	W	Α	Т	В	W	Α	Т	В	W	Α	Т	В	W
Region-wide																
Historically Underrepresented Communities			K													

A – Automobile; T – Transit; B – Bicycle; W - Walk

Job Access – Transit Access Disadvantage

	Base Year		Interim Year			Year – cially rained	Future Year – Strategic	
	Jobs Inaccessible		Jobs Ina	ccessible	Jobs Inac	ccessible	Jobs Inaccessible	
	By Transit		By Tr	ansit	By Transit		By Transit	
	LW	MW	LW	MW	LW	MW	LW	MW
Region-wide								
Historically								
Underrepresented								
Communities								

LW – Lower-wage; MW – Middle-wage

**Attachment 2.** Sample template to document methodology for RTP System Evaluation Measures 10/20/16

#### **Key Assumptions to Methodology:**

#### **Dataset Used:**

Dataset	Type of Data
Geospatial project information for proposed transportation projects	Observed
Employment/jobs outputs from Metroscope <sup>1</sup>	Forecasted

Tools Used for Analysis: Metro's Travel Demand Model, Metro's Metroscope Model

#### Populations to Apply In this Measure:

- People of Color
- Persons with Limited English Proficiency
- Low-Income Households

Young people and older adults are not being proposed for assessment in this system evaluation as it considered that traveling to and from employment is less likely a priority.

**Definition of Low-Wage Jobs:** Jobs which pay an annual salary between \$0 - \$39,999.<sup>2</sup>

**Definitions of Middle-Wage Jobs:** Jobs which pay an annual salary between \$40,000 – \$65,000.

#### Methods for Defining and Identifying Low and Middle-Wage Jobs:

The annual salary band was based on the average household size of three (3) and a combination of different income, program eligibility, and self-sufficiency definitions (HUD median income, UW self-sufficiency index, federal poverty level, and uniform relocation assistance and real property acquisition act) The definition of low and middle-wage jobs is not taking into consideration employer benefits provided as part of the identification of wages.

#### Distribution of Low and Middle-Wage Jobs Assumptions:

The distribution of low and middle-wage jobs is based on underlying U.S. Bureau of Labor Statistics data and assumptions regarding growth for the employment industries in MetroScope. (See MetroScope documentation regarding employment industry forecast assumptions.) The low and middle-wage band will not change according to inflation. Low and middle-wage jobs were determined by the wage profile of each MetroScope industry, looking at the percentage of jobs, which paid within the annual salary range. This range was applied to the employment forecast for the future year to determine the distribution.

**Definition of Transit Access Disadvantage: TBD** 

3

<sup>&</sup>lt;sup>1</sup> Forecasted estimates are based on MetroScope assumptions on employment industries and based off U.S. Bureau of Labor Statistics data. Documentation can be found at: http://www.oregonmetro.gov/forecasting-models-and-model-documentation

<sup>&</sup>lt;sup>2</sup> Wages are set as static for the purposes of the analysis and are not indexed to inflation. Therefore, the wage bands for low-wage and middle wage will not adjust between the based-year and future year.

<sup>&</sup>lt;sup>3</sup> See Footnote 4.

**Attachment 2.** Sample template to document methodology for RTP System Evaluation Measures 10/20/16

#### **Travel Time Windows by Mode:**

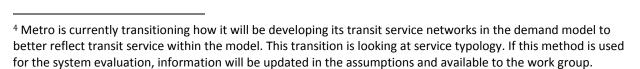
- Automobile 30 minutes\*
- Transit 45 minutes\*
- Bicycle 30 minutes
- Walk 20 minutes

#### **Travel Time Assumptions:**

Travel time windows by mode were developed by gathering information from the Oregon Household Activity Survey (OHAS) and gathering research from around the country on travel time by different modes for different types of trips. Additionally, internal Metro staff consultation was conducted.

#### Transit Service Networks Used:4

- Peak Transit service running from 6am 9am & 3pm 6pm
- Off-Peak Transit service running at any other time



<sup>\*</sup>Includes access and egress times.

#### Memo



Date: October 21, 2016

To: Transportation Policy Alternatives Committee (TPAC) and interested parties

From: Kim Ellis, RTP Project Manager

Subject: 2018 Regional Transportation Plan Update – Technical Work Group Meetings

#### **PURPOSE**

Provide electronic copies of meeting notes from technical work group meetings. No action requested.

#### **BACKGROUND**

At the January meeting, members of the Transportation Policy Alternatives Committee (TPAC) requested meeting notes from work group meetings be provided to TPAC and the Metro Technical Advisory Committee (MTAC) to help TPAC and MTAC members stay informed of the work group discussions and progress.

The current schedule of work group meetings and copies of recently completed meeting notes are attached.

#### FOR MORE INFORMATION

All work group meeting materials and other project related information are posted online at: <a href="https://www.oregonmetro.gov/rtp">www.oregonmetro.gov/rtp</a>.

#### Attachments

- Schedule of technical work group meetings (October 21, 2016)
- Equity Work Group Meeting #5 (Sept. 29, 2016)
- Finance Work Group Meeting #3 (June 14, 2016)
- Performance Work Group Meeting (Sept. 12, 2016)
- Safety Work Group Meeting #2 (July 26, 2016)
- Transit Work Group Meeting #6 (Sept. 13, 2016)

**2018 RTP UPDATE | Technical Work Group Meetings** 

2016	Equity	Finance	Transit	Freight	Performance	Safety
	Jan. 8		Jan. 7	Jan. 20		
January	9-11 a.m.		10 a.mnoon	8-9:30 a.m.		
	Room 401, MRC		Room 401, MRC	Room 370, MRC		
	Feb. 18	Feb. 29	Feb. 24		Feb. 22	
February	1–3 p.m.	2:30-4:30 p.m.,	1 - 3 p.m.,		2-4 p.m.	
	Room 401, MRC	Room 501, MRC	Room 401, MRC		Room 501, MRC	
March						
					April 25	
April					2-4 p.m.	
					Room 501, MRC	
	May 12	May 12		May 23		May 20
May	1-3 p.m.	9-11 a.m., Council		10 a.mnoon,		9 a.mnoon
•	Room 401, MRC	Chamber, MRC		Council chamber		Room 270, MRC
	June 30	June 14	June 9		June 27	
June	1-3 p.m., Council	9-11 a.m.,	1-3 p.m., Room		2-4 p.m.	
	chamber, MRC	Room 401, MRC	370A/B, MRC		Room 401, MRC	
			July 19			July 26
July			9-11 a.m., Room			8:30-10:30 a.m.,
•			370A/B, MRC			Room 401, MRC
			Aug. 10			
August			1-3 p.m., Room			
_			370A/B, MRC			
	Sept. 29	Sept. 22	Sept. 13	Sept. 27	Sept. 12	
September	9-11 a.m., Room	9-11 a.m., Council	2-4 p.m., Room	8-10 a.m., Council	2-4 p.m.	
	370AB, MRC	chamber, MRC	370A/B, MRC	chamber, MRC	Room 401, MRC	
		Oct. 13	Oct. 5		Oct. 14	Oct. 20
October		1:30-3:30 p.m.,	1-3 p.m., Room		9 a.mnoon	9-11 a.m.
		Room 501, MRC	370A/B, MRC		Room 401, MRC	Room 501, MRC
	Nov. 17	Nov. 10	Nov. 2	Nov. 8		
November	1-3 p.m.	1:30-3:30 p.m.,	1-3 p.m., Room	8-10 a.m., Council		
	Room 401, MRC	Room 401, MRC	370A/B, MRC	chamber, MRC		
			Dec. 7		Dec. 5 or 12	
December			1-3 p.m., Room		Time and room	
			370A/B, MRC		TBD, MRC	

Meetings of the Design and Policy Actions work groups begin in 2017. Meeting materials will be posted at oregonmetro.gov/rtp and oregonmetro.gov/calendar



# 2018 RTP Transportation Equity Work Group – Meeting #5 Thursday, September 29, 2016 9:00 – 10:00 a.m. Metro Regional Center, 370 A/B

<b>Committee Members</b>	Affiliation	Attendance
Dan Rutzick	City of Hillsboro	Present
April Bertelsen	City of Portland – Transportation	Present
Aaron Golub	Portland State University	Present
Jon Holan	City of Forest Grove	Present
Jake Warr	TriMet	Present
Cora Potter	Ride Connection	Present
Steve Williams	Clackamas County	Present
Kari Schlosshauer	Oregon Walks/National Safe Routes to School Partnership	Present
Karen Savage	Washington County	Present
Jared Franz	ATU	Present
Brendon Haggerty	Multnomah County Public Health	Present
Terra Lingley	ODOT	Present
Nicole Phillips	Bus Riders Unite	Present
Noel Mickelberry	Oregon Walks	Present
Interested Parties		
Katie Selin	Portland State University	Present
Metro Staff		
Grace Cho	Metro	Present
Lake McTighe	Metro	Present
Cliff Higgins	Metro	Present
Jamie Snook	Metro	Present
John Mermin	Metro	Present
Maribeth Todd	Metro	Present
Cindy Pederson	Metro	Present
Ted Leybold	Metro	Present

#### I. WELCOME AND INTRODUCTIONS

Cliff Higgins welcomed meeting attendees and walked through the agenda for the work group meeting. He mentioned the change in the order of the agenda in order to accommodate work

group members who may need to leave early. Following the notification about the agenda changes, he asked for a quick round of introductions.

### II. 2018 RTP TRANSPORTATION EQUITY SYSTEM EVALUATION MEASURES – RECOMMENDED METHODS

Ms. Cho provided a brief recap of where the work group had left off at its last meeting from June 30<sup>th</sup>. She discussed how the work group had given Metro staff the green light to move forward with developing the methods for the individual system evaluation measures for the transportation equity analysis.

Following the recap of where the work group left off in June, Ms. Cho briefly reviewed the transportation equity system measures and also the key assumptions to the evaluation. She then moved into a recap of the main assumptions being made to help ground the entire transportation equity analysis. She noted there were three main areas of assumptions: 1) the geography and definition of historically underrepresented communities; 2) the transportation and land use inputs for the system evaluation; and 3) how certain communities will be treated as part of analysis and forecasting. Ms. Cho provided some additional information and detail regarding the definitions and the identification of census tracts which would be considered historically underrepresented communities for the purposes of transportation equity system evaluation.

At the end of the assumptions presentation, Ms. Cho paused to take any questions.

Questions and Discussion Regarding Definitions of Historically Underrepresented Communities Mr. Warr asked why age was treated differently in the process for identifying historically underrepresented communities. Ms. Cho responded that early research work identified when looking at older adults and young people at concentrations above the regional rate, in combination with other historically underrepresented communities, the entire region would then be considered a historically underrepresented community.

Mr. Williams asked how Eastern European immigrant communities may be accounted for in the historically underrepresented communities. Ms. Cho clarified that the definition used for people of color would not capture people Eastern European immigrants, but two other historically underrepresented communities: limited English proficiency populations and/or low-income households would be places in which Eastern European immigrants would likely get captured in the analysis.

Mr. Warr also mentioned the U.S. Census office has released a number of new statistical tools which can look more closely at statistical validity with surveyed populations. He stated these tools may provide for greater finesse to the selection of the census tracts which will define the historically underrepresented communities for the transportation equity analysis.

Another work group member also mentioned the U.S. Census recently released a different demographic data package which looks at the ratio of working age vs. not working age. The work group member suggested this may be a better approach in identifying historically underrepresented communities.

Mr. Holan commented that several areas on the westside which have been identified as historically underrepresented communities, but in knowing the landscape of the westside of the region, he commented these areas happen to be more affluent. He asked staff if there was consideration of undergoing a secondary screening to look at the areas where there are intersections of poverty with the other historically underrepresented communities.

As a follow on to Mr. Holan's comment, Mr. Rutzick asked where population maps had been created which look at census tracts which might have higher concentrations than the region rate for historically underrepresented communities and how that might help better define and focus the system evaluation for historically underrepresented communities. Ms. Cho responded that Metro staff is deliberating the potential of doing a secondary analysis of the transportation equity assessment focusing on census tracts which are seeing above the regional rate for all five historically underrepresented communities. However, the concept as proposed by Mr. Rutzick could be something to consider as an approach.

Ms. Bertelsen mentioned she desired to see population density get accounted for in the identification of historically underrepresented communities.

Ms. Cho committed to working with any interested work group members on revisiting how to approach an additional screening of historically underrepresented communities or potentially looking at different threshold definitions for the historically underrepresented communities. She said she would bring the information back to the work group.

#### Questions and Discussion of System Evaluation Measures

Following the discussion of the historically underrepresented communities, Ms. Cho then discussed the development of the methods of the individual measures. She addressed the question about system evaluation vs. project evaluation, as she noted there have been a number of work group members who have wanted to know why the work will focus at a system scale. She discussed the general benefits and drawbacks of each and also mentioned the current discussion happening around the topic of conducting project evaluation for the 2018 RTP. Ms. Cho encouraged that members of the work group interested in project evaluation speak to TPAC and MTAC members to have them express their interest since the discussion is currently happening at the technical committees.

A work group member asked whether the project evaluation would include running the travel model for each individual project. Ms. Cho responded that the details and criteria for conducting a project evaluation are yet to be determined, but if policymakers decide that is the direction to go, then the topic would likely return to the work group to discuss and recommend some form of transportation equity criteria to include.

Following the brief discussion of system evaluation vs. project evaluation, Ms. Cho then discussed the areas where staff seeks direction regarding the five individual system evaluation measures in which a method has been developed. She walked through the methodology question for each individual system evaluation measure prior to opening the floor for discussion.

<u>Questions and Discussion of Individual System Measures – Access to Travel Options</u>

Ms. Cho provided a brief overview of the Access to Travel Options system evaluation measure and she explained the main questions staff seeks input are:

- 1. Should this measure primarily focus on looking at system connectivity for active transportation projects proposed in the 2018 RTP? Or should street connectivity (i.e. roadway projects) be included in this analysis?
- 2. How should active transportation investments be defined? Should only those transportation investments on the regional bikeway and pedestrian pathway network considered or are all local active transportation investments acceptable?

Mr. Haggerty was in support of expanding the system measure to include local street connectivity. He explained public health literature has illustrated greater local street connectivity has been supportive of more physical activity and active forms of transport, which is significant to health outcomes. He suggested using intersection density as a means of measuring local connectivity for environmental health outcomes.

Work group members expressed support for potentially expanding the Access to Travel Option system evaluation measure to include local street connectivity. Local jurisdiction partners were generally supportive of the additional work which would be needed as part of this measure.

Ms. Schlosshauer asked a clarifying question as to how the Access to Travel Options system measure is considering transit connectivity. Ms. Cho clarified that the measure would not be addressing transit connectivity as the measure is more focused on physical, basic infrastructure. She mentioned that the other accessibility measures will inherently be addressing the questions around transit connectivity as they will be looking at where transit can get a person within a certain time frame.

For the measure, Ms. Cho has committed to looking into the possibility of expanding the Access to Travel Option measure to further include local street connectivity. She will provide an update at the November meeting of the staff recommendation.

<u>Questions and Discussion of Individual System Measures – Access to Jobs</u>

Ms. Cho provided a brief overview of the Access to Jobs system evaluation measure and she explained the main question staff seeks input is:

1. What should be the threshold for determining when an area is "transit access disadvantaged?"

A work group member asked whether a baseline or sensitivity analysis has been conducted for the "transit access disadvantage" concept. Ms. Cho said the region has not conducted this work, but she referred to Mr. Golub who had developed the academic concept to the transit access disadvantage system measure. He explained in his testing in the Bay Area, a transit access disadvantage threshold of 33% was used. Meaning if transit could only access 33% of the jobs that automobiles can access, then there was a transit access disadvantage.

The work group discussed different threshold ideas, but did not feel ready to provide direction on a specific threshold for transit access disadvantage. Metro staff and the work group came to the agreement that a potential threshold definition should be determined after conducting some initial baseline analysis and return with a recommendation to the work group.

Following the discussion of the transit access disadvantage, Mr. Rutzick asked whether the transit travel time shed could be increased from 45 minute to one hour for the measure. Ms.

Cho responded in asking the work group whether there would be interest in changing the transit travel time shed. Ms. Snook, who is leading the Regional Transit Strategy, mentioned that the transit travel time is "all-inclusive" meaning it would include the walk time at both ends of the trip, wait time, and transfer wait time in addition to the in-vehicle time. Work group members were in general agreement 45 minutes is a more reasonable transit travel time shed especially since the analysis is focused on looking at access to low and middle-wage jobs.

Mr. Holan asked whether the transit travel time took into consideration the transit travel experience and how that is accounted for in the analysis. Ms. Cho looked to Ms. Pederson who works on the travel demand model and Ms. Pederson explained how the model accounts for transit travel perceptions and how it affects the travel behavior in the model. An example she provided was that there is a transfer penalty within the transit travel model.

#### Questions and Discussion of Individual System Measures – Access to Places

Ms. Cho provided a brief overview of the Access to Places system evaluation measure and she explained the main question staff seeks input is:

1. Should the automobile travel time shed (places reached by automobile within 30 minutes) threshold be shortened?

The work group came to general agreement that the automobile travel time shed (30 minutes) could be shortened. A work group member suggested shortening the automobile travel time shed to mirror the ratio difference between the travel time sheds proposed for automobile and transit in the Access to Jobs system measure. This ratio is 1:3. Therefore, the automobile travel time shed would be 20 minutes. Ms. Cho said she would adjust the measure to reflect an automobile travel shed to 20 minutes.

Ms. Potter made a comment that there has some discussions happening at the Regional Transit Strategy work group regarding the Access to Places system measure not accounting for hospitals and medical facilities as part of the list of places being measures. Ms. Potter noted the significance that accessing medical care, especially for the elderly, becomes and it begins to impact travel choices.

At the end of the discussion, Metro staff committed to looking further into adding other daily needs to the list of places for the system evaluation measure and would report back to the work group the staff recommendation.

#### Resource Habitats and Transportation Investments

Ms. Cho provided a brief overview of the Resource Habitats and Transportation Investments system evaluation measure and she explained the main question staff seeks input is:

1. Should only certain types of transportation investments (e.g. roadway) be considered for this analysis and not others (active transportation)? Or should all transportation investments proposed be assessed under this system measure?

The work group generally came to agreement that the Resource Habitat and Transportation Investments system evaluation should focus more a certain types of transportation projects, predominately roadway capacity increasing projects, which have the potential for more significant resource habitats impacts.

Transportation Equity System Evaluation Measures – Further Follow Up Needed
Following the discussion of the individual system evaluation measures and the direction requested from staff, Ms. Cho provide a brief update on the progress being made on the system evaluation measures which had not been discussed at the work group. Ms. Cho noted that staff has been conducting statistical analysis on the Non-Freeway Vehicle Miles Traveled Exposure measure to ensure the measure would be a valid approach in looking at transportation safety. She said that the statistical analysis indicated there was a statistically significant correlation between vehicle miles traveled and crashes. But she also noted that the statistical analysis also validated there are many factors which affect crashes. She also clarified that the measure is not intending to use vehicle miles traveled exposure as a means to predicting crashes, but rather can serve as a tool to help understand whether additional transportation safety considerations are needed. Ms. Cho said that Metro staff is still trying to determine whether the measure will move forward as part of the system evaluation, but she would report back by the November meeting on the staff recommendation.

Ms. Cho also noted there were two system evaluation measures recommended from the June work group meeting in which staff will need to continue to work on developing a system evaluation measure. These measures are the Combined Housing and Transportation Expenditure and Cost-Burden as well as the Vehicle Emissions Exposure and Air Quality. Ms. Cho mentioned that these two system measures still require further consultation to define the methods. She also noted that the Combined Housing and Transportation Expenditure and Cost-Burden measure will need significant staff capacity to update the model to run the analysis and therefore, if this measure remains of interest to the work group, then that interest should be expressed to Metro staff as well as to TPAC and MTAC members so they can continue to communicate that message to leadership.

#### IV. SPRING ENAGEMENT UPDATE

Mr. Higgins gave a recap of the spring engagement activities Metro had undertaken with historically underrepresented communities. He discussed the results from a focused survey effort and a set of focus groups. Mr. Higgins brought up the different lessons learned through the survey and focus group work and he was able to confirm the topic areas which the 2018 RTP Transportation Equity Analysis will be evaluation are reflective of the priorities of historically underrepresented communities. He also provided a summary of the key communications takeaways.

#### V. NEXT STEPS

Ms. Cho walked through a preview of the material to be covered at the November work group meeting. She also outlined the tentative first two meetings for 2017. Lastly, Ms. Cho walked through the homework assignments for the work group. She asked between the work group meetings, for members to complete the following "homework" assignments:

- Report back to your people what was discussed at the work group meeting and bring any feedback.
- Reach out with any questions or further input on the system evaluation measures.
- Lastly come prepared at the next work group meeting for discussion about the 2018 RTP performance targets and the potential monitoring measures.

#### **VI. QUESTIONS AND ANSWERS**

After providing the work group the next steps, Ms. Cho opened the meeting for any final questions.

Ms. Schlosshauer expressed her interest in Metro moving forward with conducting a combined housing and transportation expenditure and cost-burden evaluation.

Ms. Bertelsen asked when the system evaluation measures for the transportation equity analysis will be discussed again at TPAC. Ms. Cho mentioned that TPAC and MTAC would receive updates on the system evaluation measures for the transportation equity analysis at their upcoming October and November meetings.

#### VIII. ADJOURN

There being no further business or questions, Ms. Cho and Mr. Higgins adjourned the meeting at 11:00 a.m.

Meeting summary prepared by: Grace Cho, Transportation Equity Project Manager

#### Meeting materials:

		Document	
Item	Topic	Date	Description
1	Agenda	09/29/16	Meeting Agenda
2	Memorandum Synthesizing Feedback, Findings, and Draft Measures	09/29/16	Overview of findings of community priorities and process for defining draft transportation equity measures.
3	Attachment A	09/29/16	
4	2018 RTP Assessing Directional Change - Overview and Methods	09/29/16	
5	Work Group Meeting 2 Summary	06/30/16	Summary of transportation equity work group meeting #4.
6	Presentation	05/12/16	TE Work Group Presentation
7	Mtg. Evaluation	05/12/16	TE Meeting #5 Meeting Evaluation

600 NE Grand Ave. Portland, OR 97232-2736 503-797-1700 503-797-1804 TDD 503-797-1797 fax



# 2018 RTP Finance Work Group - Meeting #3 June 14, 2016 9 - 11 AM Metro Regional Center, 401

#### **Work Group Members Present**

NameAffiliationTina BaileyCity of HillsboroRich BlackbumCity of Forest GroveChris DeffebachWashington County

Eric Hesse TriMet

Ken Lee City of Portland Mark Lear City of Portland

Ted Leybold Metro Ken Lobeck Metro

John Lewis

John Lewis

City of Oregon City
City of Oregon City
City of Happy Valley
Steve Kelley

Washington County
Nancy Kraushaar

City of Wilsonville

Lake McTighe Metro
Jamie Snook Metro

Joanna Valencia Multnomah County

Metro Staff Present: Ted Leybold, Ken Lobeck, Jamie Snook, Lake McTighe and Kim Ellis.

#### I. WELCOME

Ted Leybold welcomed members to the third meeting of the RTP Finance Work Group.

#### II. PARTNER UPDATES

- Jamie Lorenzini, City of Happy Valley, identified that the city of Happy Valley is
  examining a transportation maintenance fee based on several factors. She indicated
  the discussion currently is very preliminary and is really more in the feasibility stage.
- Jamie also identified that Clackamas County Commission may seek an eight cent gas tax in the fall, but the item has not been referred. Again, the discussion is more in

the feasibility stage. The advisory vote on the May ballot received 65% support. It was included on a Transportation summit recently that provided an opportunity for cities to describe their preferences including a VRF or gas tax. The County has identified the revenue stream in support of maintenance needs. Discussions among the cities for the possible measure will continue.

- Richard Blackmum, city of Forest Grove identified that the city Council will also be looking at road maintenance fee. People now recognize the impact of not having sufficient funding to maintain the system. Discussions are beginning.
- Ken Lee, city of Portland provided an update to their recently passed city gas tax.
   The city of Portland is working through the administration requirements of the new gas tax and demonstrating value to community. The business and truck fee details are still being worked out.

#### III. UPDATE ON IDENTIFICATION OF EXISTING LOCAL REVENUES

Ken Lobeck provided an update on the local revenue templates in development:

- Work continues but development of the templates has been delayed due to ongoing MTIP/STIP project delivery issues that are taking priority over the RTP revenue templates.
- Washington County's templates are nearly complete. Ken will continue working with Multnomah and Clackamas counties into July.
- The goal is to finish all revenue templates by the end of July.
- The TSPs and budget summaries are being used as the source for the local revenues, but many of the TSPs have revenue assumption shortcomings. As a result, Ken encouraged staff to review the template revenues closely for logic and accuracy.

#### IV. RTP OPERATIONS AND MAINTENANCE REVENUES AND COSTS

Ken Lobeck and Ted Leybold provided an update to the Operations and Maintenance (O&M) exercise also underway:

- Based feedback from the May RTP Finance Group meeting, Metro developed a summary worksheet to capture O&M costs to balance against the O&M revenues being identified on the local revenue templates.
- Ken reviewed the O&M cost worksheet with group members.
- The primary goal is to capture at a summary high level if the identified annual O&M revenues are sufficient to meet the transportation maintenance requirements, or if a maintenance gap exists.
- The second goal is to identify again only at a high summary level how agencies address the maintenance gap, and/or utilize deferred maintenance practices.
- Ted Leybold clarified that this intended to get at a view of the entire regional transportation network because it impacts the ability to invest in local and regional system capital needs. This information will help explain the depth of the

- deferred maintenance issue, and help policy makers better understand the associated opportunity costs when considering new funding commitments to capital or maintenance needs.
- Discussion then focused on specific O&M cost areas to ensure members understand how to complete the worksheet. Topic areas included:
  - The impact of Washington County's projected maintenance gap being on the collectors and arterials.
  - How to have a complete O&M cost picture at a high level for Fall Regional Leadership Forums when agencies may be defining their maintenance programs differently.
  - How the County Coordinating Committees can help collect the O&M costs data.
  - Defining if storm water maintenance should be included as a transportation O&M category.
  - Discussing if street light replacement to LEDs and other maintenance areas are maintenance or capital areas, and how to define the line between the two.
  - Discussing ADA guidelines, plus how this adds another serious wrinkle to the maintenance costs issue, and how ADA areas should be treated.
  - Considering for the Fall Regional Leadership Forums how to share agency maintenance program information.
  - Addressing a request to provide additional guidance on how deferred maintenance is defined, plus what is defined as an adequate level of maintenance. The definitions may vary across jurisdictions. Ted clarified that Metro is looking for a brief summary description of how each jurisdiction defines their deferred maintenance program. Providing extensive details are not required.
  - Washington County group members mentioned that they are updating their ADA plan now. One key finding emerging is the cost of the upgrades for ADA compliance. Others agreed that this should be highlighted as a significant need. Discussion continued as to whether ADA compliance projects are maintenance or capital improvements. Clarification is needed here.
  - Bridge replacements are another big cost and O&M topic area discussed. Ted Leybold confirmed that that ongoing annual maintenance to bridges fit into the O&M logic. However, bridge replacements even if not providing capacity improvements are considered capital improvements rather than O&M.
- Due to the mixed opinions expressed as to what defines O&M costs, the group requested Metro research several areas and provide additional clarification on the final worksheet that will be released.

#### V. UPDATE ON REGIONAL LEADERSHIP FORUMS AND NEXT STEPS:

- Kim Ellis provided an overview of the key takeaways of the first Regional Leadership Forum and the proposed schedule for the Fall Leadership Workshops.
- There were six primary takeaways Kim passed on to the group that included:
  - Our region is growing and changing and so is the world around us.
  - The region's transportation system is a shared experience and a shared responsibility.
  - We need to define a bold vision for the future of transportation and the role it should play in our communities.
  - Our transportation system must be inclusive and benefit all families, communities, and economy.
  - Technology and data will be transformational and are key to a bold vision.
  - We need partnerships and leadership to create a great future.

#### VI. NEXT STEPS:

- Several members expressed concerns about the use of the revenue data at the
  Fall Leadership Forums. Ken reassured group members they would receive the
  draft revenue forecast for review prior to the Fall Leadership Workshops. He also
  cautioned that the initial revenue forecast will be extremely "soft" as many of
  the identified revenues will require follow-on review and possible adjustments.
  Once drafted, the financially constrained revenue forecast will be a living
  document undergoing constant minor updating until formal approval occurs.
- The next meeting will be Aug. 4. A meeting appointment will be sent out to group members.
- With no further business to discuss, the meeting was adjourned at approximately 3:40 pm.

Approved as written,

Ken Lobeck Funding Programs Lead, Metro





## 2018 REGIONAL TRANSPORTATION PLAN UPDATE RTP Performance Work Group - Meeting # 4

Date: September 12, 2016

Time: 2-4 p.m.

Place: Metro Regional Center, Room 401

600 NE Grand Avenue, Portland, OR 97232

Performance Work Group Meeting #4
September 12, 2016, 2:00 to 4:00 PM
Metro Regional Center, Room 401

#### **Committee Members Present:**

Name Affiliation

Jessica Berry Multnomah County Mike Coleman Port of Portland

Christina Fera-Thomas Hillsboro

Abbot Flatt Clackamas County

Eric Hesse TriMet

Bill Holstrom Oregon Dept. of Land Conservation & Development

Steve Kelley Washington County

Peter Hurley Portland Judith Gray Portland

Lidwien Rahman Oregon Department of Transportation

Chris Rall Transportation 4 America

Dan Riordan Forest Grove

#### **Metro Staff Present**

John Mermin

Kim Ellis

Cindy Pederson

Peter Bosa

Lake McTighe

**Grace Cho** 

Tim Collins

#### Welcome, introductions and partner updates

Work Group members and other attendees introduced themselves. Work Group members shared partner updates.

- Dan Riordan Forest Grove has a work group that he has been updating on the Work Group's progress.
- Chris Rall there is interest among the different RTP work groups (equity, safety, transit, freight)
  on how the input of the different work groups will be incorporated into the Performance
  Measures Work Group discussions.
- Peter Hurley lots of discussion around performance measures in Portland. City is looking at removing the V/C standard (based on the Interim Regional Mobility Policy) from its TSP, which is up for adoption this Fall.

- Eric Hesse –interested in how the work on performance measures, especially transit, being done by the other RTP work groups will be incorporated into the Performance Measures Work Group.
- Bill Holstrom DLCD is updating GHG targets, working with an advisory committee. Also reviewing the TPR.

#### Review Agenda & Brief update on RTP

Kim Ellis previewed the agenda and also shared an update on the upcoming September 23 Regional Leadership Forum.

- Work Group members briefly discussed how autonomous vehicles would be addressed in the RTP. Metro modeling staff confirmed that they will not be included in the modeling. Kim Ellis stated that autonomous vehicles will be discussed in the RTP, and that more information is needed.
- A member noted that an upcoming peer exchange on best practices for autonomous vehicles with PSRC in Washington that should provide information. Kim Ellis said staff would share information from the peer exchange with the Work Group. It was also noted that a session at the recent TREC Summit was devoted to autonomous vehicles and that PSU and ODOT are working on the topic.

#### Continue discussion of potential refinements to measures for 2018 RTP

#### **Review Context for RTP Measures**

Assessment of RTP Measures

John Mermin reviewed the handout with a matrix with the results of an assessment of the measures for understandability, goals addressed, data availability, user experience, and usefulness for project prioritization. Work Group members discussed the matrix and its usefulness.

- John described that the handout was partially based on an assessment done by Washington County & Kittleson in 2014 (understandability, usefulness for project prioritization, user experience), but with a few additional criteria added in and assessed by Metro staff (# of goals addressed, observed data available and modeled data based on metro staff assessment.)
- Overall Work Group members liked the matrix and thought it was helpful.
- A few times Work Group had to re-orient that they were discussing system evaluation measures and not project prioritization or monitoring measures. The Work Group discussed the difference between the different types of measures and that some measures would not be useful for one purpose (e.g. region wide system evaluation) but could be for another (e.g. corridor plan)
- Surprised to see #15 (safety) was red (low) under goals addressed, safety is so important seems like it would address more goals. John reminded everyone that the assessment was subjective and number of goals met could be reviewed.
- Interesting to note that the Congestion measure has only one green (availability of data) illustrates that not a very useful measure.
- Just because a measure only meets one or two goals, or only one green, does not mean it is not important.
- Matrix is useful as a tool for the Work Group, but not for general communication. Staff agreed.
- ODOT uses performance measures for plan amendments and development review. ODOT will not eliminate certain performance measures, such as V/C, which are used for development review if there is nothing to replace them.
- Concern that performance measures are adopted region wide but then applied on other scales (development review). Response: it may be the same performance measure (e.g. v/c, safety) but is applied differently at the site level scale.
- DKS conducted a system review for Clackamas County that might be helpful as a way to understand the various geographic scales at which performance measures can be applied. Abbott will share it with Metro staff.
- It was clarified that the matrix does not decide anything it is a tool to better understand the

- performance measures and their relationship to goals, project evaluation, etc.
- Project prioritization column is useful, and there will need to be other tools to evaluate project prioritization criteria/measures.

#### Summary of RTP Goals addressed by each measure

John Mermin reviewed a table showing which RTP goals were addressed through each measure. He noted that the highlighted/underlined parts were new information that had been added to a table that was first included in the 2010 RTP.

- Members found the table useful.
- Each goal is addressed by at least one measure
- The assessment is subjective and open to discussion.
- Useful to use this tool for other work groups such as for transit vision, goals and performance measures being explored.
- Odd that only transit performance measure hits Fiscal Stewardship goal- seems like others would.
- What is difference between fiscal stewardship and accountability goals? Seems odd that every performance measure hits accountability, but only one hits fiscal stewardship.
- Maybe fiscal stewardship is more of a project prioritization goal
- Would be interesting to review how goals are structured is there a hierarchy to them?
- How do you measure security goal?
- Should we measure every goal?

#### Contninued discussion of measure refinement from last meeting

John Mermin reviewed the measures recommended to be retained and /or refined (following up from the last Work Group meeting).

#### Motor vehicle travel times

- Distinguish between higher and lower value trips in motor vehicle travel times
- Transit is missing (it is covered by the transit work group)
- Include truck freight travel times.
- Clarify this is by mobility corridor, not facility (transit is on a separate facility than highway)
- Origins and destinations travel times for all sorts of origins and destinations, all types of businesses
- We need accessibility measure to "round out" this measure; travel times not a useful measure

#### Number and percent of households w/in ½ mile of trail

- Most members ok with this recommendation with a change from "trail" to "Regional Bicycle or Pedestrian Parkway". One workgroup member expressed hesitation with using Metro designations. This change could be problematic if local jurisdictions do not have same classifications. Staff responded that the classifications should be consistent with the RTP
- Helpful, good way to simplify and collapse

#### Mode share

- The group is not comfortable making a recommendation at this time. Need to take to TPAC.
   Seems like a policy issue for TPAC.
- Need to explain that we cannot currently measure mode share as described in RTP
- What about the trip not taken, will there be a mode share target for that? This at least should be included in monitoring measures discussion.
- Shouldn't we look at where the projected job growth is going to be when determining

- geography for targets?
- The accessibility measures under development may get us to the smaller geographies desired.
- Bulk of growth is in corridors but we cannot measure them with our tools. There are not defined boundaries for corridors, but we need to consider the implications
- Need to think carefully about the implications of not having targets for town centers and corridors
- Could it impact project prioritization if there were no targets for town centers?
- Will activity based model (DASH) be able to measure at finer scale? No, it will still use TAZ, but will eventually be able to go to smaller scale parcel.
- If this is a measure that is included specifically to meet state requirements. That's okay
- We need a system completeness measure for all modes, including highways and freeways, including crossings and curb ramps. Also need connectivity measure, # of lanes on arterials and freeways vs ideal, arterial connectivity (are there arterials spaced every mile as intended in regional policy?) These would really help ODOT let go of V/C measure. Lack of data is an issue.
- Bring options to October meeting.

#### Habitat impact

• Work Group ok with proposal to not use this as a system evaluation measure, but to continue to use it and informational item to inform project sponsors and the public (via flagging projects that intersect high value habitat on RTP project list).

#### Congestion and Delay

- Staff updated the group on ODOT/Metro discussions The direction we're heading is to defer to
  the OHP on congestion standards. ODOT agreed we're trying to preserve mobility on the
  freeways. We don't' see value in the RTP setting congestion standards for non-freeway facilities.
  If local jurisdictions want to set their own standards for these facilities they would be free to do
  so.
- The RTP would continue to monitor the peak periods and attempt to maintain the off-peak for freight movement
- Work group ok with this direction
- V/C Targets would still be in the Oregon Hwy Plan and used for development review
- System completeness should apply to TSPs
- Amending OHP not up to Region 1 ODOT, though they are supportive of it
- However, local jurisdictions can adopt other targets with OTC approval
- Steve delay is still a good measure at corridor level if not regional
- Important to keep watching California moving away from LOS

#### Discuss potential refinements recommended by other workgroups

John Mermin gave a brief verbal update of transit performance measure development (since Jamie Snook had a conflict), referring to Transit memo. Jamie will attend the 10/14 meeting to provide a recommendation to the workgroup.

#### Safety

John introduced Lake McTighe, who is leading the update to the Regional Safety Plan and noted that her group is a bit ahead of our group (and the other workgroups working on performance measures – transit, freight, equity). We've been focusing on system evaluation measures and plan to discuss target setting for our system measures as well as monitoring measures/data collection in 2017.

Lake's group has recommendations for all system evaluation measures, targets and monitoring. The focus of today will be system evaluation measures for safety. Lake presented a summary of the recommendations from the Safety workgroup.

#### System evaluation measure #1: % of safety projects in RTP (and % within underserved communities)

- The % of costs of RTP projects (that address safety) may be more informative than % of # of projects e.g. a really big project (large geographic scope) may have more impact than less expensive ones.
- A member took issue with high injury network map (mostly eastside locations). Lake replied that the map matches up with Wash Co's draft safety plan map
- Several members recommended that the Safe Routes to school projects be defined.
- A member noted that we're moving in the right direction compared to the past when every project was considered a "safety project"
- Should all safe routes projects be treated the same way?
- Are any of the safe routes projects not on the regional systems? With limited \$ don't expand definition of what's included on regional system
- Lake described that there is a meeting with local partners this week to delve into definition of a safety project. She'll put together an FAQ

### <u>System evaluation measure #2 – Exposure to crash risk: Non-freeway VMT by TAZ (and within underserved communities)</u>

- VMT exposure is big contributor to severe crashes. Evaluating pass-through traffic at TAZ level.
- Metro staff is still verifying whether we can do it and analyzing what the level of tis correlation between VMT & severe crashes
- Lake: the long-term goal is to develop a safety model. FHWA is interested.
- VMT exposure is an interim/blunt approach
- How are local road VMT extracted from model? Modeling staff replied that Centroid connectors in model sends traffic to regional system from center of zone.
- Lake: An area analysis, not an individual facility analysis.
- Speed is more important than VMT, so factor it in.
- Follow up: explore data availability for posted speeds. That's been a roadblock in past.

#### Recommended refinements to the Clean Air measure

This item was deferred to the October 14<sup>th</sup> meeting

#### **Next Steps**

- Informational briefing at 9/30 TPAC
- Continue workgroup discussion of measure refinements Friday October 14 10am-noon
- Discuss recommendations at 10/28 TPAC
- 2017 meetings to discuss target setting and monitoring

#### Follow up action items

- ✓ Share outcomes from autonomous vehicles best practices peer exchange in PSRC
- ✓ Update performance measures summary of goals addressed based on input during and after the meeting
- ✓ Further refine and bring back for discussion: mode share, travel times
- ✓ Share information on development of Regional High Injury Corridors with Work Group
- ✓ Define "Safe Routes to School project"
- ✓ Update definition of a safety project based on input
- ✓ Explore data availability of posted speeds



## Safety Work Group Meeting Summary (Draft until approved by work group) July 26, 2016, 8:30 to 10:30 AM | Metro Regional Center, Room 401

ATTENDED (Work Group):

Becky Bodoyni, Multnomah County Health

Anthony Buczek, Metro

Tegan Enloe, Hillsboro

Nick Fortey, FHWA

Tom Kloster, Metro

Lake McTighe, Metro

Jeff Owen, TriMet

Amanda Owings, Lake Oswego

Lidwien Rahman, (alternate for ODOT/Oregon Walks)

Katherine Burns, ODOT

Kari Schlosshauer, SRTS National Partnership

Chris Strong, Gresham

Aszita Mansor, Multnomah County

Dyami Valentine, Washington County

Clay Veka, Portland

Stacy Revay, Beaverton

Noel Mickelberry, Oregon Walks

ATTENDED (Interested Persons/Metro Staff/ Invited Guests):

Robin Ness (ODOT, presenting on crash data)

Clint Chiavarini, Metro

Alexa Todd, Metro

Kim Ellis, Metro

Beth Wemple, Cambridge Systematics

Cindy Pederson, Metro

#### **UNABLE TO ATTEND:**

Joe Marek, Clackamas County Stacy Shetler, Washington County

Mike Ward, Wilsonville

#### Follow-up actions

- ✓ Provide work group with Robin Ness' presentation (included with Oct. 20 mtg materials)
- ✓ Set up presentation on Regional High Injury Corridors (held on August 23)
- ✓ Refine regional safety target based on input, including revisiting how target dates are set (to be reviewed at Oct 20 mtg)

- ✓ Develop interim safety targets (included in safety target for 2025)
- ✓ Test crash exposure methods, bring results to work group (tested, VMT and crash correlation determined)
- ✓ Investigate whether posted speed data can be relatively easily available for regional model (data is not mapped not easily accessible for the measure)
- ✓ Add reference to 23 United States Code 409 (liability code) to Safety Policy Framework Report (done)
- ✓ Investigate metro developing a safety crash model (Metro is pursuing this but it will not be available for the 2018 update)
- ✓ Develop annual rolling targets for bikes and peds (will be discussed at Mtg. #4)

#### **Welcome & Overview**

Tom Kloster, meeting chair, welcomed the workgroup.

Lake McTighe, safety work group lead, recapped what was covered at the first meeting in May:

- Safety work group purpose
- Overview of safety trends
- Status of recommended actions in 2012 RTSP
- Policy context overview what's changed
- Vision Zero/Towards Zero Deaths discussion and activity

Lake went over the agenda, materials and desired outcomes.

- Answer 3 questions in "Safety Performance Measures and Targets" Memo
- Preview of development of Regional High Injury Network & Discussion
- Information on ODOT's process for analyzing data & Discussion

#### **Safety Performance Measures and Targets Discussion**

Tom Kloster reviewed three questions for the work group to answer:

- 1. Does the Work Group support the proposed RTP Safety Performance Target for the 2018 RTP?
- 2. Does the Work Group support exploring potential RTP System Evaluation Measures for infrastructure disparities and exposure to crashes?
- 3. Does the Work Group have input or comments on the proposed method for setting annual targets for the Federal safety performance measures?

Lake provided an overview of the policy framework report and walked through the Safety Performance Measures and Targets Memo.

Members of the work group discussed each of the questions.

1. Does the Work Group support the proposed RTP Safety Performance Target for the 2018 RTP?

Proposed 2018 RTP safety target: "By 2040, eliminate fatal and severe crashes for all motor vehicle occupants, pedestrians, and bicycle riders."

 Remove reference to specific modes. Referring to specific modes leaves out motorcyclists, etc. Change wording to "all users."

- Discussion on 2040 date in the target; it matches the "plan year" of the RTP. Shouldn't it match the ODOT state target of 2035? It is confusing to have different years (Portland has 2025). Also, it is a problem to have the target date change (pushed forward) each time the RTP is updated. The target date should not move. Also, 2040 is so far away it is easy to not take action; would prefer smaller target sooner (e.g. 25% reduction by 2025). On the other hand, a far out goal allows for flexibility for smaller jurisdictions. Safety goals/target year need to be consistent with other targets/goals. Metro needs to look at the target year for all targets, not just safety.
- Instead of "plan year" target, use interim target years (e.g. 2025, 2035) along with annual targets required by FHWA.
- What happens if the target is not reached? Is Metro, jurisdictions liable if targets are not reached? Title 23 United States Code 409
   (https://www.fhwa.dot.gov/map21/docs/title23usc.pdf) protects agencies from liability for planning work, using data to set targets, etc. Setting targets does not make agencies liable. FHWA discussion on the topic: http://safety.fhwa.dot.gov/rsa/legal.cfm
- Support for target of zero deaths and serious injuries.
- 2. Does the Work Group support exploring potential RTP System Evaluation Measures for infrastructure disparities and exposure to crashes?
  - Do not like language "investments being made evenly" doesn't identify where there are disparities, doesn't identify whether that means dollars or number of projects
  - Define "certain communities"
  - Need to define "high injury facility" need clearer definition, such as whether it includes drunk driving
  - Issue with the VMT exposure as a safety evaluation measure; a project could increase VMT and increase safety; or, some projects may reduce VMT but may not be the most important safety project
  - Support for exposure in some way or another, just not sure how
  - Look at including speed in the measure; land use, population, etc are important
  - Measuring exposure from a public health perspective is important
  - Important that they focus safety projects on the number of fatal/severe injury crashes happening
  - Like the "infrastructure disparity" measure like being able to take credit for a "safety project"
  - Not sure what the VMT number will tell us
  - There are so many other factors besides VMT: population, land use, speed. Need to look at those to. Should include speed.
  - From health perspective exposure to VMT is a helpful measure
  - Huntsville MPO developed analysis using several factors, including speed, male population, intersection density
- 3. Does the Work Group have input or comments on the proposed method for setting annual targets for the Federal safety performance measures?

- Trend line of crashes is up for the region, state is down; mostly due to pedestrian severe crashes
- Would be good to know how many fatalities are happening in transit stops, as well as the role of age in fatal/severe injury crashes – how are we targeting different age groups?
- Set targets for bikes and peds
- Important to consider which group is bearing the brunt of these crashes, ie. Pedestrians
- Need for adaptive methodology for when/if Metro implements a policy that isn't as effective as they'd hoped
- All investments have a safety component "need to hone in on that" which is how Metro is creating a safer system. Focusing solely on safety projects is too narrow.
- Focus on number of people for targets

#### **Overview of ODOT Crash Data Analysis Process**

Robin Ness, Manager of ODOT's Crash Data Analysis Unit provided an overview of the how crash data is processed and analyzed. She also shared ways the department is trying to make crash data available sooner.

#### **Next steps**

There was not enough time to review the Regional High Crash Corridors. Metro staff will set up a time before the next Work Group meeting to go over this topic.

#### Lake outlined next steps:

- Share input on safety performance measures and target with
  - -Equity Work Group (July 28)
  - -RTP Performance Measures Work Group (Sept 12 & Oct14)
  - -MTAC (Sept 21)
  - -TPAC (Sept 30)
- Work Group members provide additional input by Aug 1
- Next meeting is Thursday, Oct 20



# Regional Transit Work Group Meeting #6 Tuesday, September 13, 2016 2:00 to 4:00p.m. Metro Regional Center, Room 370 A/B

#### **Committee Members Present**

April Bertelsen
Mike Coleman
Karyn Criswell
Radcliffe Decanny
Roger Hanson
Eric Hesse
Nancy Kraushaar
Stephan Lashbrook
Mauricio Leclerc

Luke Pelz Lidwien Rahman Joanna Valencia Dyami Valentine Dayna Webb Steve White

#### **Metro Staff Present**

Clint Chiavarini Grace Cho Tyler Frisbee Cindy Pederson City of Portland Port of Portland

Oregon Department of Transportation

City of Portland

C-TRAN TriMet

City of Wilsonville City of Wilsonville City of Portland City of Beaverton

Oregon Department of Transportation

Multnomah County Washington County City of Oregon City Oregon Health Authority

#### I. INTRODUCTIONS

Members of the work group introduced themselves and described who they were talking to about the regional transit issues.

#### II. REGIONAL TRANSIT VISION DISCUSSION

Ms Snook reviewed the regional transit vision and the goals that the group has been discussing as a work group. Ms Snook reminded the group of list they came up with when asked about what was important to capture in the regional transit vision. We should keep this in mind when we start talking about the vision. Ms Snook then introduced the three different components of the transit vision: transit service, capital investments and transit supportive elements.

The group was reminded that the transit service component of the vision is developed through TriMet's Service Enhancement Plans (SEP), SMART's Master Plan and other processes being conducted by the transit providers.

The capital investments part of the vision is where a lot of the visioning discussions will happen. The enhanced transit corridor (ETC) is a new concept that this group will be working through. ETC includes strategies such as wider stop spacing, improved stop shelters and amenities, higher capacity vehicles, exclusive transit lanes where feasible, more frequent service, next generation transit signal priority, intersection treatments and off board electronic fare payment. The capital investment part of the vision also includes updating the High Capacity Transit (HCT) System Plan.

The transit supportive element part of the vision includes elements to the land use and transportation system that support transit, such as, bicycle and pedestrian access to transit, transit oriented development, equitable housing strategy, future land use plans, technology and ITS, and shared mobility services.

#### III. TRANSIT PERFORMANCE MEASURES FOR THE RTP

Ms Snook reminded the work group where they left off on the performance measures. Out of the performance measures there were only a few that needed further discussion:

- Number or percent of bike or pedestrian projects or mileage that improve access to transit or fill in identified gaps in the system to access transit. (This is a subset of a broader performance measure that looks at closing bike and pedestrian gaps region wide.)
- Access to daily needs
- Access to jobs
- Housing + transportation costs

#### Bike and pedestrian access to transit

Ms Snook provided some options for this measure:

- Option 1: Percent of bike and pedestrian network completed with ¼ mile of a transit stop or station
- Option 2: Number of project within a ¼ mile of transit stop or station
- Option 3: Miles of new bike and pedestrian investments within a ¼ mile of transit

Ms Snook mentioned that option 1, was the preferred option, but that this would require the local jurisdictions that are nominating projects for the RTP to provide more detailed information about the pedestrian improvements and include line work or GIS shape files.

#### Work group discussion:

- The work group preferred option 1 as well.
- The work group recommended looking at difference distances, such as ½ mile from stops and stations.

The recommendation was to move forward with option 1 and revisit the distance from stops and stations.

#### Access to daily needs

Ms Snook reviewed the access to daily needs measure and described that the jobs portion of this measure was removed and became a separate measure. This measure was described as: **Daily needs** accessible within 30 minutes by public transportation for the region and historically underrepresented communities.

#### Work group discussion:

- There was a question about how the daily needs correspond to the essential destinations listed in Metro's Regional Transportation Functional Plan (RTFP).
- There was discussion about 30 minutes vs 15 minutes and recommendation to include both in the measure. The group interested in a heat map that showed both time frames.

The recommendation was to move forward with this measure but reconcile the daily needs vs essential destinations and revisit the timeframe to which the destinations are accessible.

#### Access to jobs

Ms Snook reviewed the access to jobs measure: **Jobs, including middle-wage jobs, accessible within 45** minutes by public transportation for the region and historically under-represented communities.

#### Work group discussion:

- The work group was concerned that we were only looking at all jobs and middle-wage jobs. They suggested that we also include low-wage jobs.
- The work group wants to make sure we look at peak and off-peak travel.

The recommendation was to move forward with this measure but include low-wage jobs and look at peak and off-peak times.

#### **Housing + transportation costs**

Ms Snook reviewed the housing + transportation measure: **Housing +Transportation cost relative to cost burdened designation**.

#### Work group discussion:

- The work group raised concern that this measure is not transit specific.
- The work group expressed interest in measuring the housing (rents) and the proposed investments and leaving the transportation out.

#### IV. C-TRAN FUTURE SERVICE IMPROVEMENTS

Discussions on the transit vision and the performance measures, there was not enough time to have this discussion.

#### **V. PORTLAND STREETCAR FUTURE INVESTMENT STRATEGY**

Discussions on the transit vision and the performance measures, there was not enough time to have this discussion.

#### **VI. NEXT STEPS**

Discussions on the transit vision and the performance measures, there was not enough time to have this discussion.

#### **VI. ADJOURN**

The meeting at was adjourned at 4:20 p.m.

#### Attachments to the Record:

		Document	
Item	Topic	Date	Description
1	Agenda	9/13/16	September 13, 2016 Meeting Agenda
2	Meeting summary	8/10/16	August Regional Transit Work Group meeting Summary
3	Notes	8/10/16	Notes from brainstorm on RTS vision
4	Memo	8/17/16	Draft performance measure recommendation
5	Methodologies	9/8/16	Evaluation methodology write up – access to jobs
6	Methodologies	9/8/16	Evaluation methodology write up – access to places
7	Methodologies	9/8/16	Evaluation methodology write up – H+T

Materials after this page were distril	buted at the meeting.	



### **2018 REGIONAL TRANSPORTATION PLAN WORK PLAN**

Getting there with a connected region

Safe • Reliable • Affordable • Healthy				
PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5
A	FRAMING TRENDS AND CHALLENGES C. '15		BUILDING A SHARED STRATEGY Action Feb. '15	
May to Dec. 2015	Jan. to April 2016	May 2016 to March 2017	April 2017 to Feb. 2018	March to Dec. 2018
Identify partners and stakeholders to engage Establish project goals and desired outcomes Develop project work plan and public engagement plan Compile data and analysis tools  Approve work plan DELIVERABLES	Identify key trends and transportation challenges	Refine vision Refine outcomes-based evaluation framework Update revenue forecast  ☆ Recommend RTP priorities and evaluation framework to guide building RTP investment strategy	Update regional transportation priorities (Call for Projects)  Assess and report on benefits of draft priorities across economic, social equity and environmental goals  Identify policy changes and implementation actions  Provide direction on finalizing draft plan (and its components) for public review	Release draft 2018 RTP and its components for public review Prepare legislation and findings  Adopt 2018 RTP and its components
<ul><li>✓ Work Plan</li><li>✓ Public Engagement Plan</li><li>✓ Public Engagement Report</li></ul>	✓ Regional Snapshot - Transportation ✓ Public Engagement Summaries	Regional Vision Regional Transportation Challenges Revenue Forecast (draft) Updated Outcomes-based Evaluation Framework Regional Transportation Priorities Call for Projects Packe	RTP Investment Strategy Analysis & Findings Regional Transportation Priorities (draft) Finance, Freight, Transit and Safety strategies (draft) Performance Targets & Monitoring Measures (draft) RTP Policy, Regional Framework Plan and Functional Plan amendments (draft) Public Engagement Summaries	Public review draft 2018 RTP (and its components) Final 2018 RTP (and its components) Public Engagement Report
* Metro Council action on	JPACT and MPAC recommendations	•	· I done Lingagement Jummanes	OCTOBER 28, 2016

**Getting there** 



















by transit



# Regional Transit Strategy

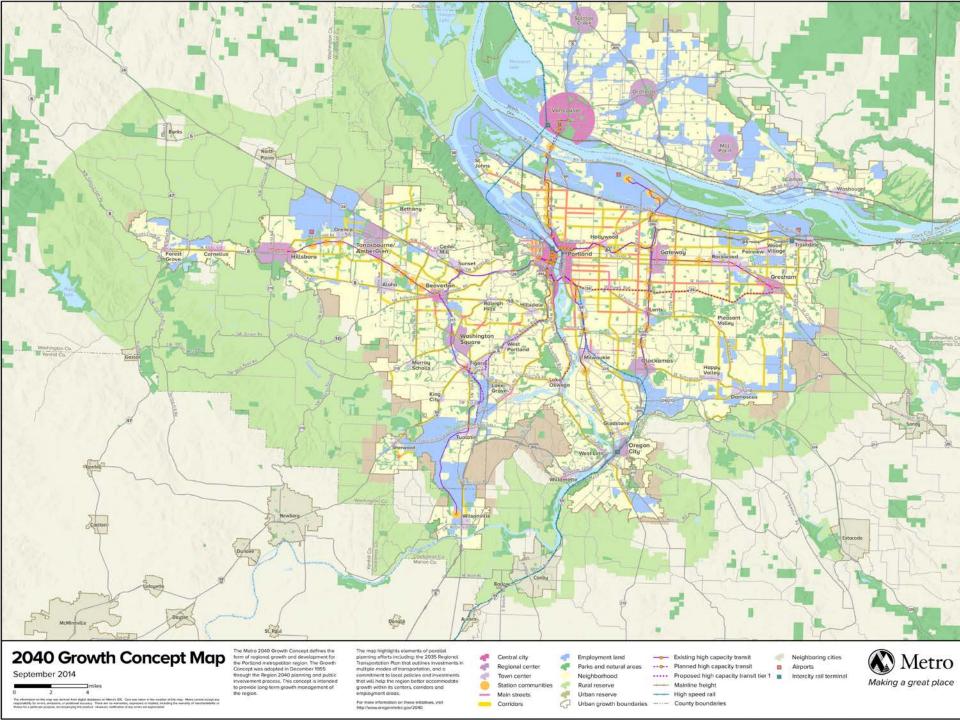
a component of the 2018 RTP

TPAC briefing
October 28, 2016

## Regional Transit Strategy

## Developing a shared transit vision

- Collaborative effort
- Building off future transit service planning
- Defining transit investments
- Supports the 2018 Regional Transportation Plan



## We are growing...



### Top 10 transit lines

#### 2015 Top 10 transit lines (by ridership)

Number of boarding rides



1. MAX Blue Line



6. MAX Yellow Line



2. MAX Green Line



7. Portland Streetcar



3. MAX Red Line



8. MAX Orange Line



4. 4-Division/Fessenden



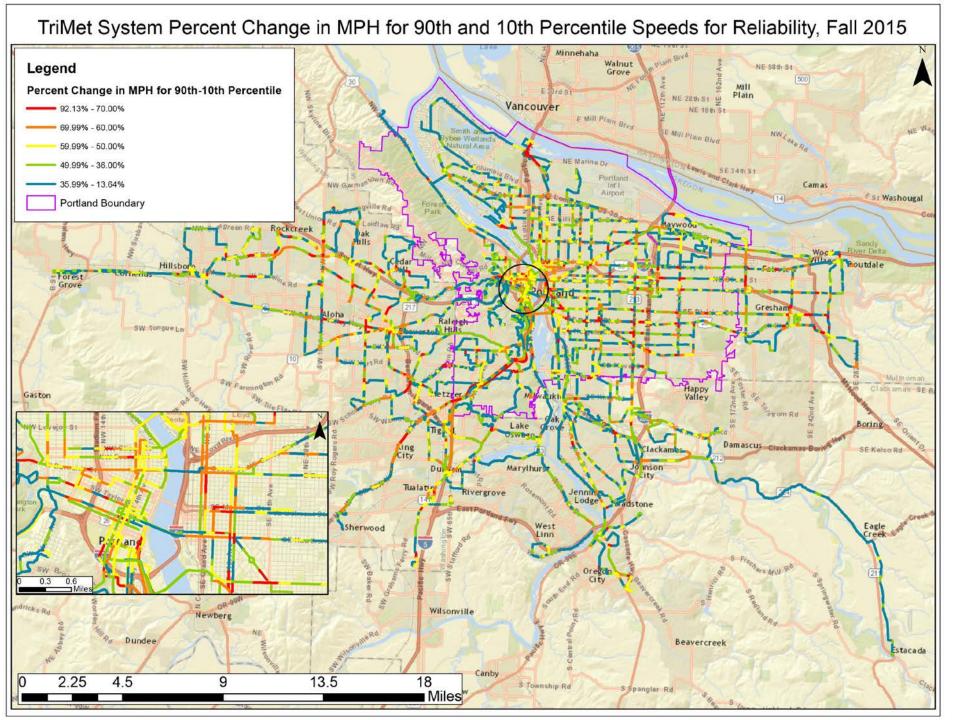
9. 20-Burnside/Stark



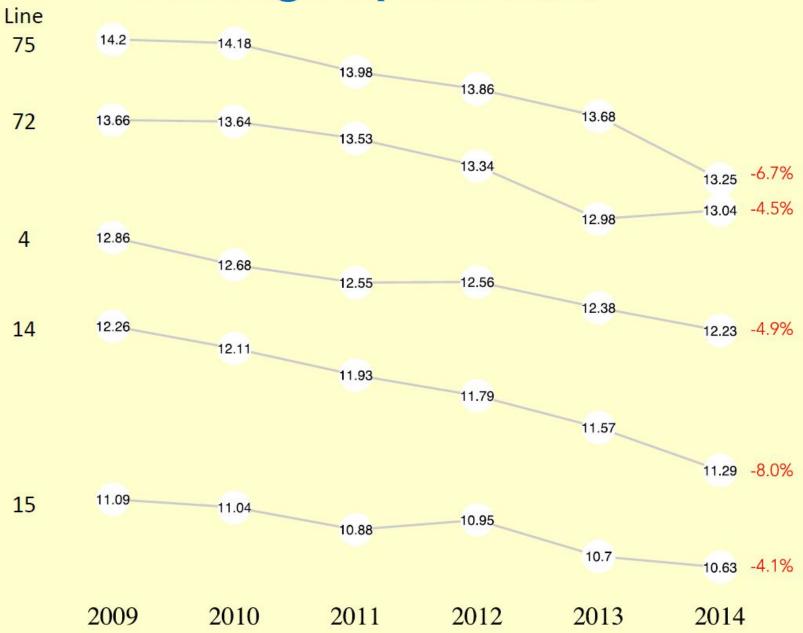
5. 72-Killingsworth/ 82nd Avenue



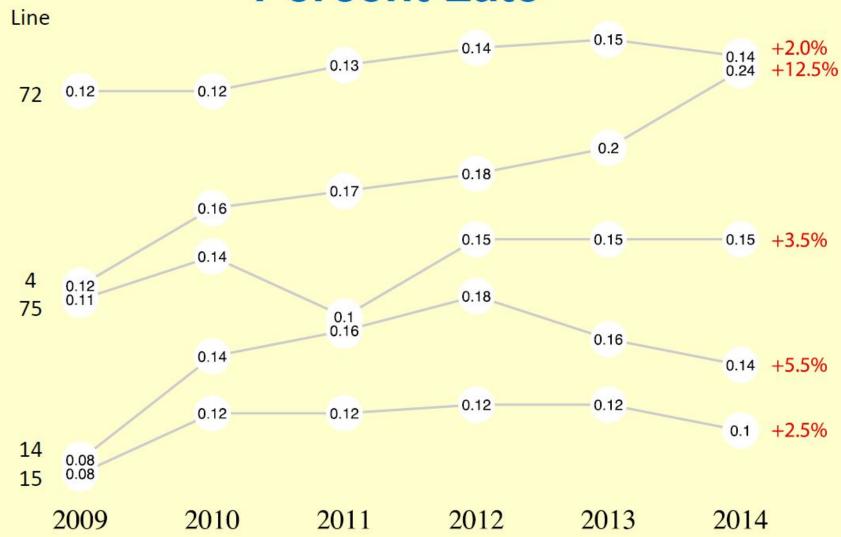
10. 75-Cesar Chavez/ Lombard



### Average Speed (mph)



#### **Percent Late**



# Connecting the strategy to our needs

Local & regional bus

Express bus, frequent bus, enhanced transit, streetcar

Bus rapid transit, light rail

Less frequent

Less capacity

Operates in mixed traffic

Streetscape doubles as stop or station

Supports linear development

Connects home, work, school and play

Locally funded

More frequent

All/majority of operation in exclusive guideway

High investment in station access

Supports nodal development

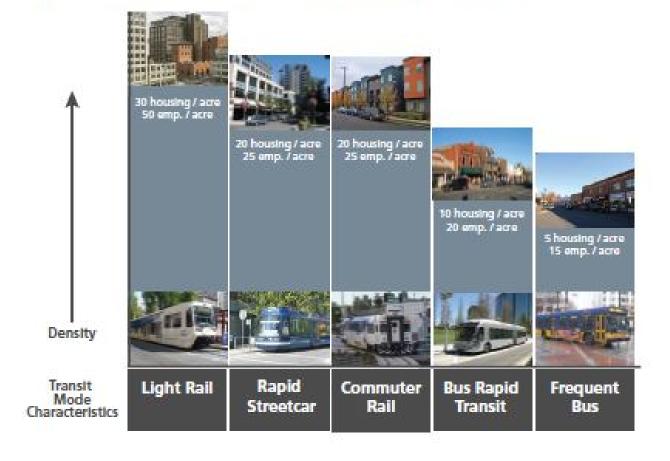
Connects regional and town centers

Federally funded

More capacity

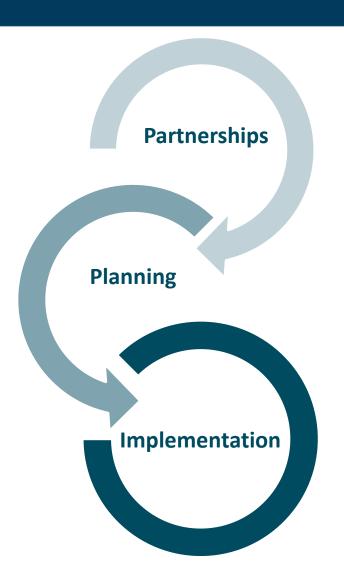
# Connecting the strategy to our needs...

Figure 3.9: Station area density targets for high capacity transit modes



### Regional Transit Vision

To make transit more frequent, convenient, accessible and affordable



### Regional transit vision

#### Transit service

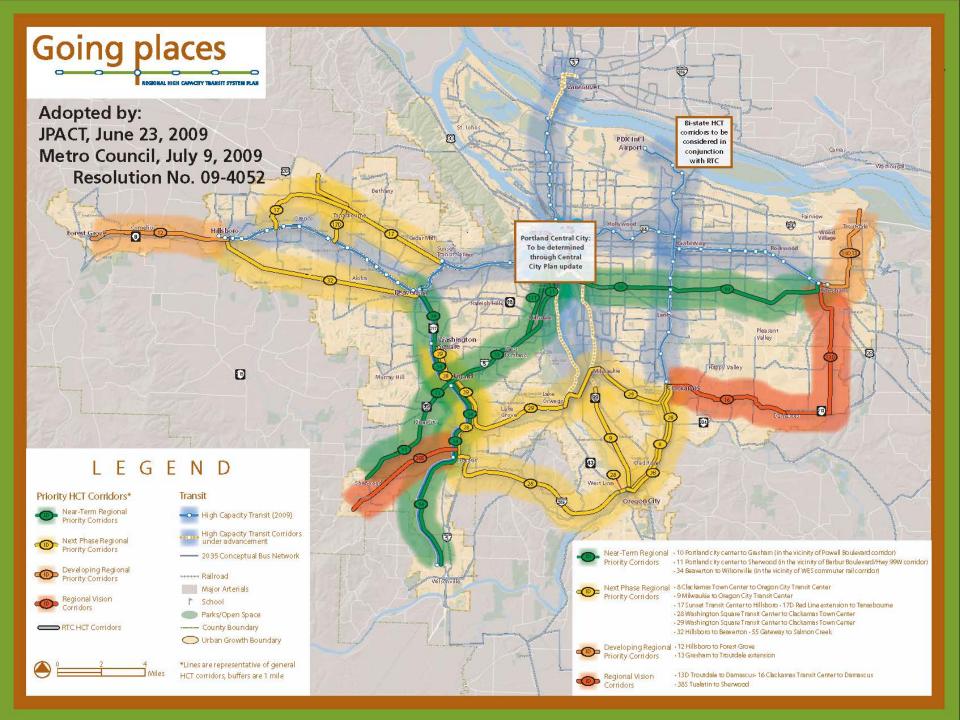
- TriMet
- SMART
- Portland Streetcar
- Ride Connection
- CTRAN
- CAT
- SAM
- Salem-Keizer
- Other transit providers
- CTP

#### Capital investments

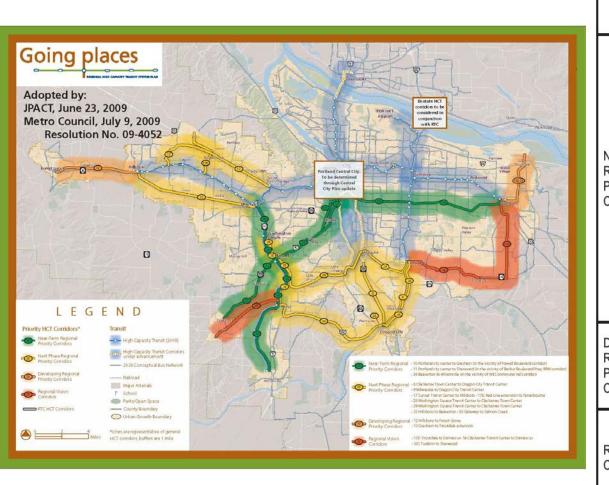
- Enhanced transit corridors
- High capacity transit

### Transit supportive elements

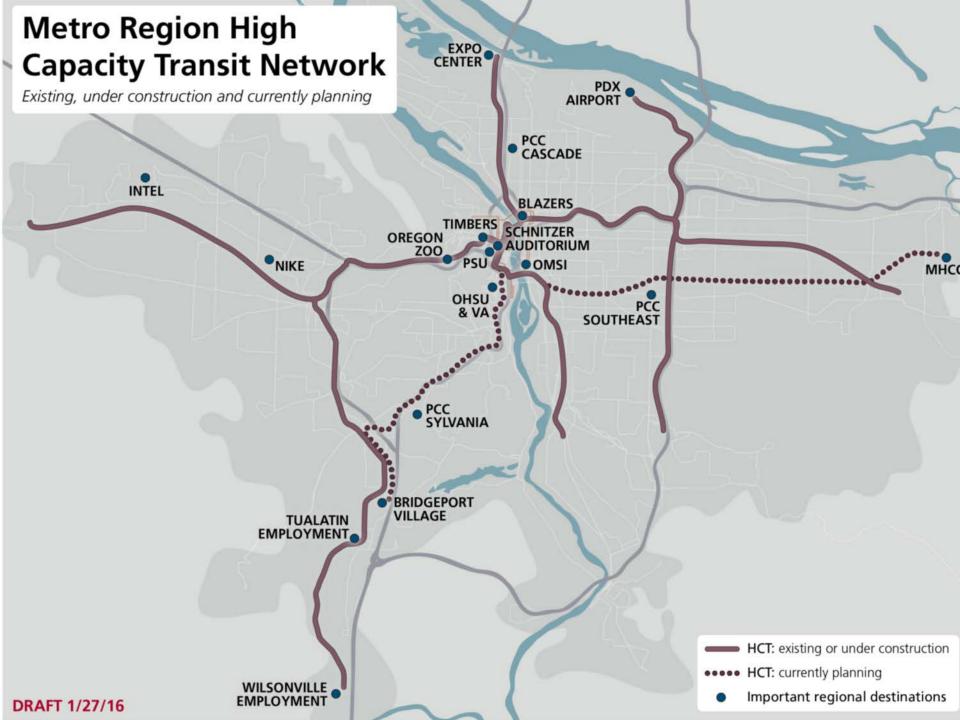
- Bike/pedestrian improvements
- First/last mile
- TOD investments
- Affordable housing strategy
- Land use plans
- ITS/technology
- Shared mobility



### Adopted HCT Plan...



Tier	Corridor Description (Mode As Evaluated) 1					
Near Term Regional Priority	Portland to Gresham in the vicinity of Powell Corridor (LRT)					
	Portland to Sherwood in the vicinity of Barbur/Hwy 99W Corridor (LRT)					
	Beaverton to Wilsonville (LRT) in the vicinity of WES2					
Next Phase Regional Priority Corridors	CTC to Oregon City in the vicinity of I-205 Corridor (LRT) <sup>3</sup> Park Ave to Oregon City in the vicinity of McLoughlin Corridor(LRT extension) <sup>3</sup>					
	Sunset Transit Center to Hillsboro in the vicinity of Hwy 26 Corridor/ Evergreen (LRT)					
	Tanasborne (LRT extension) <sup>4</sup>					
	Clackamas Town Center to Washington Square in the vicinity of I-205/217 Corridors(LRT)					
	Clackamas Town Center to Washington Square in the vicinity of RR ROW (LRT)					
	Beaverton to Hillsboro in the vicinity of TV Highway (LRT)					
	Gateway to Salmon Creek in the vicinity of I-205 Corridor <sup>5</sup>					
Developing Regional	Hillsboro to Forest Grove (LRT extension)					
Priority Corridors	Gresham to Troutdale Extension (LRT Extension)					
Regional Vision Corridors	Troutdale to Damascus (LRT)					
	Clackamas Town Center to Damascus (LRT)					
	Sherwood to Tualatin (LRT)					



### Enhanced transit corridors...

Increase capacity and reliability

Relatively low cost and context sensitive

Deployed quickly



#### Enhanced transit corridors...

#### Enhanced Transit service could include elements such as:

B 4	r		•
$N/I \cap r \cap$	traa	IIIANT	CORVICO
IVIOLE	1160	lueiii.	service
		G C C	56. 1.66

Articulated buses or streetcar

Wider stop spacing

Improved shelters and amenities

Level or near level boarding

Transit signal priority

queue jumps

bus-only signals, and bypass lanes

Right-turn-except-bus lanes or Business

Access and Transit (BAT) lanes

Exclusive transit lanes where feasible

Access to Transit investments

Policy commitments to support transit ridership

#### Enhanced transit corridors...

#### **Enhanced Transit Corridor "Levels:"**

Level 1: Smaller Scale Enhanced Transit (\$10-50 Million)

Level 2: Medium to Large Scale Enhanced Transit with FTA funding partnerships (\$50-300 Million)

### Regional transit vision

#### Transit service

- TriMet
- SMART
- Portland Streetcar
- Ride Connection
- CTRAN
- CAT
- SAM
- Salem-Keizer
- Other transit providers
- CTP

#### Capital investments

- Enhanced transit corridors
- High capacity transit

### Transit supportive elements

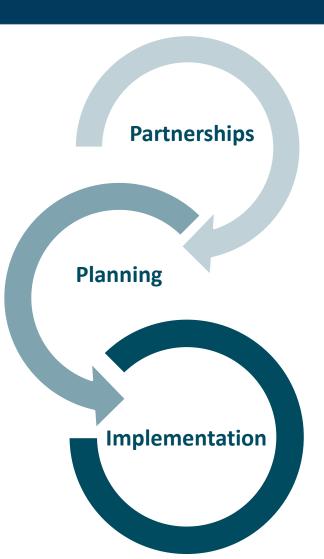
- Bike/pedestrian improvements
- First/last mile
- TOD investments
- Affordable housing strategy
- Land use plans
- ITS/technology
- Shared mobility

### Vision - implementation

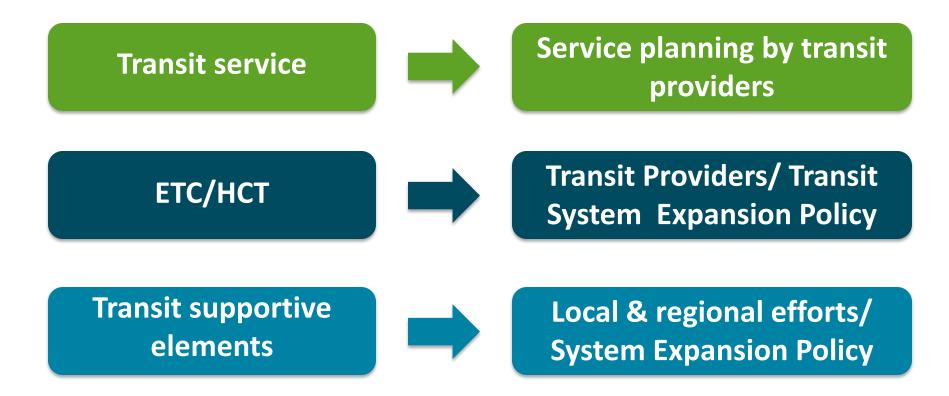
The Plan: VISION



IMPLEMENTATION



### Implementation/policy framework

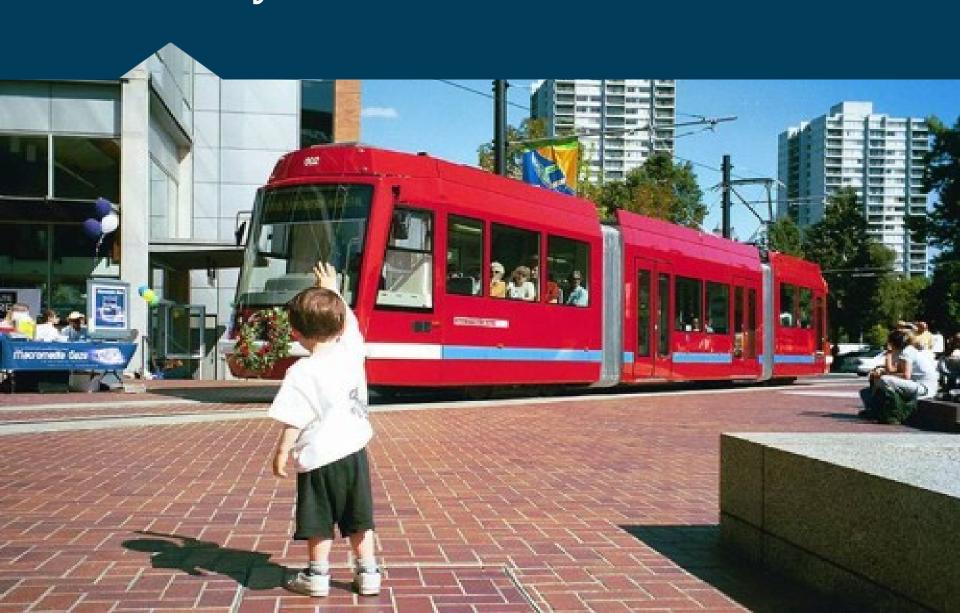


#### Discussion

- Key elements to present at JPACT?
- Approach to updating the HCT Plan?
- Integrating the enhanced transit corridors concept



## Thank you



### oregonmetro.gov





# **2018 RTP System Evaluation Measures**

Presentation to TPAC, October 28, 2016 John Mermin, Regional Planner

### **Meeting Purpose**

- Discuss proposed refinements to the RTP System evaluation measures
- Provide suggestions for effectively summarizing the recommended measures to policymakers.

### Background

- Performance one of 8 RTP work groups
- Providing technical expertise to staff to help refine performance measures
- Met 5 times in 2016
- Emphasis on simplifying measures

### ...Background (cont'd)

- Several RTP workgroups have contributed to these recommendations
- Context for equity work
  - Identify transportation priorities for historically underrepresented communities
     develop ways to measure them in RTP
- New and challenging work

# How are System Evaluation Measures used?

- Evaluate performance of the 2018 RTP as a whole
- Helps policymakers understand how well RTP projects & programs help meet regional goals

#### RTP Performance framework

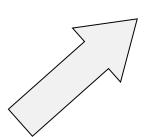
- RTP System Evaluation Measures compare the base year conditions with alternative investment packages (projects) to document how well each package of transportation investments performs on an array of measures that are linked to RTP goals, and in most cases, overlap with the RTP performance targets.
- RTP Performance Targets set time bound, quantifiable goals for achieving the region's desired policy outcomes for investment in the region's transportation system. These measures use a combination of modeled and observed data.
- RTP Monitoring Measures support the region's federally-required Congestion Management Process reporting between RTP update cycles.

### RTP Performance Measurement system

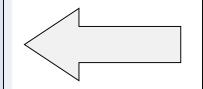
Current year collected data

Policy and plan
development
Collected and forecasted
data

Future year forecasted data



Plan monitoring
Collected data



Plan evaluation

Collected and forecasted data

# Themes to organize the measures

- Travel Characteristics
- Affordability
- Safety
- Access, Connectivity and Completeness
- Travel Time and Efficiency
- Environment

## Travel Characteristics (#1 - 4 in table)

- No change: Bicycle miles traveled
- New measure: Transit ridership
- Refine and rename: Active Transportation and transit mode
- Refinements: Vehicle travel

## Affordability\* (#5)

Refine methodology

## **Safety** (#6 - 8)

- Move Crash data to monitoring
- New measure: % of safety projects in the RTP and within historically underrepresented communities
- \*New measure: exposure to crash risk via VMT regionwide and in historically underrepresented communities

# Access, Connectivity & Completeness (#9-12)

- \*Refine, continue to develop methodology and rename: basic infrastructure: "Access to Travel
   Options- system connectivity."
- \*New measure: Access to Jobs
- \*Refine and rename access to daily needs "Access to Places."
- Refine and rename trail accessibility "Access to Bicycle & Pedestrian Parkways"

# ...Access, Connectivity & Completeness cont'd (#13-15)

- Add new: Access to transit
- Add new: Transit coverage
- Under development: freight accessibility

## Travel Time & Efficiency (#16 - 18)

- Refine and rename: Motor vehicle and transit travel times "Multimodal travel times"
- Under development: Congestion
- Under development: Interim Regional Mobility Policy

## Travel Time & Efficiency (#19 - 23)

- Refine and rename: Freight reliability
   "Freight truck delay"
- Under development: Cost of freight delay
- Under development: Freight congestion
- No change: Transit productivity
- Report as part of transit productivity measure: Transit revenue hours

## **Environment** (#24 - 26)

- No change: Climate Change
- Refine air pollutants reported
- \*Refine methodology: Habitat impact

# RTP Measures vs Goals

#### Attachment 1. RTP System Evaluation Measures and RTP Goals Comparison (Performance work group 10/14/15) (Assument based on RTP performance work group recommendations adopted in 2010, except for those underlined which are based on 2015 and assument).

— T	1	RTP Goals										
	RTP System Evaluation Measures		State Exercise Competitioners and Property	Espain Transportation Cholors	Elicates and Elicited Management of System	Enhance Saley and Security	Promote Environmental Stemandahip	Esharo Harus Healb	Demonstrate texterish preducing green bearing as commission	State State	Example Food Several Skip	Defer Acces to billy
	Vehicle miles traveled (total and per capita)				-	-			-			
8	Stoce miss traveled Motel and ner canits	*		2			-	*	-			
SE .	Total delayand cost of delayon he regional heightnetworkin mid-day and PM peak/auto & truck delay/		•		•							
E E	Notic rehide and transit travel time between keyorigin-destinations for mid-dayand Z-HR, PM geak	•	•	•	•							
Existing RTP system evaluation measu	Congestion - Location and number of miss of throughways, arterists, and regional freight network facilities that exceed RTP interim regional mobility policy thresholds in mid-day and 3-HR PM geak.		•		•							
же ше	Mode share and non-drive sions hippayatem-wide, by mobility corridor and for central dry and includual regional centers (Number of delity wrating, bippling, shared note and transitings and Niby mode)	•	×	•	•		•	•	*			
<u>3</u>	Transitgroductivity (thensit boarding rolesger revenue hour) for High Cagady Transit (HCT) and bus						-	-	-			
E .	Number and percent of households within 15-mile of regional half system	*	*	•		-	•	•	-	•		
g.	Environmental judice measure (under development) (See of bridebilly, access, safety, anytomental and health measures below)										#	2
諥	Tonsof hangoriston-related air poliulants (e.g. COccosecus PM-10)										2	2
ă	Tonsof transportation-related greenhouse gas emissions (e.g., COs)									_	4	4
	Percent of projects that intersect high value habitationers (Ablential to be updated by "Resource Habitational Inhestructure" below)	•					•				r Account	r Account
	Shirta desvoer ceres				-						'Example of Senandship and Defect Accountability goals	ad Defre
	House had desires had be		*		*							
	Meno? Science & Sience and India (Sciente in he remeated by Azzera, in Trave, Ontone he by							*			48	曹
	Eate Serand Serous Pruner		*	•							1	1 2
	Average have hald semioned sole? haveing and banqueristen (See affordability measure below)										Ball	100
	Number of securital conditations a securities within 20 min by brighing. It publishes all the law-insuran, minority-service 2 disabled populations (dealered development) (See accessibly measures 2 disable).	•		•			•	•		•	Be 'Banel	lhere are so spiken en halke anamerake he "famre final Senardisk and Beher Accesabilish goals
	Afterdability – Combined Housing and Transportation Eigenditure TED – METHOD UNIDER DEVELOPMENT										2	2
(sdn								2	×		200	8
ork gru	Options measure below) Transit Coverage - number and share of households, low-income households and employments (thin 1/4-mile of high capacity transit or frequential vices transit.										There are no system evaluation measures for the	white
± s	Transification Fours - revenue hours by transificade			•		-	•	-	-	•	-	1
8 E	Access to Paces - number of essential destinations accessible within 30 minutes by blogding & public transit for low-income, minority,										910	2
measu ety, an	senior and deabled populations Access to Jobs - Number of jobs (described by wage groups - low, middle, and high) accessible within 30 minutes by subo, 45 minutes by	<u>=</u>	<u>=</u>					2			The se	The s
<u>8</u> 8	Iranat; 30 minutes by bite, and 20 minutes bywalking Access to Travel Options – system connectivity											
重量	Safety - Percent of number and cost of safety projects in the RTP											
New or refined meas ures funder development by equity, safety, and transit work groups)	investment gedages region-nide and in areas with historically underregressmed communities.		*		*		*	2	*	*		
	Safely - Exposure - Non-Pressury VIII response per capital Exposure to seat mit through the sum of all non-inflantate vahida missisterated (VIIII) in Transportation Area Zones (TAZ) for RTP maximum) gadages region-side, and in historically underrepresented communities.		•					•				
nderd	Environmental and Health Impads – Transportation emissions exposure TED-METHOD UNDER DEVELOPMENT											
2	Resource Habilata and Infrastructure						=	2		=		
	Freight Assessibility TEO - METHICO UNIDER DEVELOPMENT											Щ

### RTP Measures vs Goals

	RTP Goals									
RTP System Evaluation Measures		Sustain Economic Competitiveness and Prosperity	Expand Transportation Choices	Effective and Efficient Management of System	Enhance Safety and Security	Promote Environmental Stewardship	Enhance Human Health	Demonstrate leadership reducing greenhouse gas emissions	Ensure Equity	
Vehicle miles traveled (total and per capita)	•	•	•	•	•	•	•	•		
Bicycle miles traveled (total and per capita)	<u>•</u>		<u>•</u>			<u>•</u>	•	<u>•</u>		
Total delay and cost of delay on the regional freight network in mid-day and PM peak (auto & truck delay)		•		•						
Motor vehicle and transit travel time between key origin-destinations for mid-day and 2-HR PM peak		•	•	•						
Congestion - Location and number of miles of throughways, arterials, and regional freight network facilities that exceed RTP interim regional mobility policy thresholds in mid-day and 2-HR PM peak		•		•	<u>•</u>	<u>•</u>		<u>•</u>		
Mode share and non-drive alone trips system-wide, by mobility corridor and for central city and individual regional centers (Number of daily walking, bicycling, shared ride and transit trips and % by mode)	•	•	•	•		•	•	•		
Transit productivity (transit boarding rides per revenue hour) for High Capacity Transit (HCT) and bus			•		•	•	•	•		
Number and percent of households within ½-mile of regional trail system	_	_			_			_		

## How to package & simplify measure recommendations?

We need your



Suggestions?

### **Next Steps**

#### **Tasks**

- Documenting data and methodology to be used for each measure
- Finalize measures still under development
- Refine presentation / packaging of measures

#### **Discussions**

- November 2 MTAC
- November 8 Freight work group
- November 17 Equity work group
- December 12 Performance work group
- January 27 TPAC
- February 24 TPAC recommendation to JPACT (as part of Call for Projects)