600 NORTHEAST GRAND AVENUE | PORTLAND, OREGON 97232-2736 TEL 503-797-1916 | FAX 503-797-1930



MEETING:	JOINT POLICY ADVISORY COMMITTEE ON TRANSPORTATION
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October 12, 2006 DATE:

TIME:			7:30 A.M.	
PLACE:			Council Chambers, Metro Regional Center	
7:30 AM	1.		CALL TO ORDER AND DECLARATION OF A QUORUM	Rex Burkholder, Chair
7:35 AM	2.		INTRODUCTIONS	Rex Burkholder, Chair
7:35 AM	3.		CITIZEN COMMUNICATIONS	
7:40 AM	4.		COMMENTS FROM CONGRESSMAN DAVID WU	
7:45 AM	5.		COMMENTS FROM THE CHAIR	Rex Burkholder, Chair
			 Preview of October 25, 2006 Regional Roundtable Preparation for FY08 Federal Earmark Request 	Brian Newman Rex Burkholder, Chair
7:55 AM	6.	*	CONSENT AGENDA	Rex Burkholder, Chair
			Consideration of JPACT minutes for September 7, 2006	
	7		ACTION ITEMS	
8:00 AM	7.1	*	Resolution No. 06-3733, For the Purpose of Amending the 2006- 09 Metropolitan Transportation Improvement Program (MTIP) to Add the NW Cornell Road: Evergreen Parkway to 158 th Avenue Widening Project - <u>ACTION REQUESTED</u>	Ted Leybold
8:05 AM	7.2	*	Resolution No. 06-3734, For the Purpose of Concurring That TriMet, C-Tran, And SMART Be The Designated Recipients Of Federal Jobs Access And Reverse Commute And New Freedom Transportation Funds Allocated To The Portland-Vancouver Urbanized Area - ACTION REQUESTED	Ted Leybold
8:10 AM	7.3	*	MTIP Review of First Cut List / Comments from TPAC – <u>ACTION</u> <u>REQUESTED</u>	Ted Leybold
	8		INFORMATION / DISCUSSION ITEMS	
8:45 AM	8.1	*	TriMet TIP – <u>INFORMATION</u>	Phil Selinger
9:00 AM	9		ADJOURN	Rex Burkholder, Chair

Material available electronically.

All material will be available at the meeting.

Material to be emailed at a later date.

[#]

Material provided at meeting.



Joint Policy Advisory Committee on Transportation

MINUTES

September 7, 2006 7:30 a.m. – 9:00 a.m. Council Chambers

MEMBERS PRESENT AFFILIATION

Rex Burkholder, Chair Metro Council Rod Park, Vice Chair Metro Council

Rob Drake City of Beaverton, representing Cities of Washington County

Fred Hansen TriMet

Bill Kennemer Clackamas County Roy Rogers Washington County Maria Rojo de Steffey Multnomah County

Dick Pedersen DEQ

Paul Thalhofer City of Troutdale, representing Cities of Multnomah County
Jason Tell Oregon Department of Transportation (ODOT - Region 1)

Don Wagner Washington DOT

Lynn Peterson City of Lake Oswego, representing Cities of Clackamas County

MEMBERS EXCUSED AFFILIATION

Sam Adams City of Portland (VACATION)

Brian Newman Metro Council
Royce Pollard City of Vancouver
Bill Wyatt Port of Portland
Steve Stuart Clark County

ALTERNATES PRESENT Susie Lahsene AFFILIATION Port of Portland

Rian Windsheimer Oregon Department of Transportation (ODOT - Region 1)

GUESTS PRESENT AFFILIATION
Kenny Asher City of Milwaukie

Scott Bricker BTA

Kathy Busse Washington County Roland Chlapowski City of Portland

Olivia Clark TriMet

Danielle Cowan

Jeff Dalin

Rob Foster

Cam Gilmour

City of Wilsinville

City of Cornelius

Forest Grove

Clackamas County

Jack Hallin CLF

John Hartsock City of Damascus

Jim Howell AORTA Tom Markgraf CRC

Robin McCaffrey Port of Portland

Sharon Nasset ETA
Dave Nordberg DEQ

Lawrence Odell

Ron Papsdorf City of Gresham

Phil Selinger TriMet

Karen Schilling Multnomah County Paul Smith City of Portland

Dan Wehlan Office of Congressman David Wu Janice Wilson Transportation Commission

STAFF

Andy Cotugno, Kim Ellis, Pat Emmerson, Tom Kloster, Ted Leybold, Jessica Martin, Amy Rose, Randy Tucker

1. CALL TO ORDER

Chair Rex Burkholder declared a quorum and called the meeting to order at 7:34 a.m.

2. INTRODUCTIONS

There were none.

3. CITIZEN COMMUNICATIONS

Sharon Nasset, 1113 N. Baldwin, Portland, appeared before the committee and requested that when the Columbia River Crossing is discussed that seismic issues not be a priority concern as there would have to be a significant event, and in the case of such, the federal government would be the insurer. She asked that that the realities of inefficient and inadequate roads into our industrial areas be the primary focus.

4. COMMENTS FROM THE CHAIR

Chair Burkholder announced that the Oregon Metropolitan Planning Organization Consortium (OMPOC) statewide summit for elected officials, transportation planners, local and regional decision-makers, and state leaders will be held on October 6 and 7 at the Inn of the Seventh Mountain in Bend, Oregon.

5. CONSENT AGENDA

Consideration of minutes for the August 10, 2006 JPACT meeting

ACTION: Chair Burkholder called for approval of the July 13, 2006 meeting minutes. Hearing no objections, the minutes were <u>accepted</u> as presented.

6. <u>INFORMATION / DISCUSSION ITEMS</u>

6.1 MTIP Review / Comments from TPAC

Metro staff completed the technical evaluation of the Transportation Priorities applications and submitted a draft recommendation for a First Cut list to TPAC at its August 25th meeting. TPAC requested additional options for crafting a First Cut list recommendation to that provided by Metro staff. In developing options, TPAC requested to consider cutting applications at this stage that have not traditionally been considered for cutting until development of the Final Cut list or that have no clear policy direction on that technical basis to make a narrowing recommendation. Policy direction is needed if the committee and the Metro Council wish to have technical staff consider cutting applications in the Planning, Project Development, Program, or Diesel Retrofit categories prior to the public comment period and Final Cut phase. Options for

providing this direction to technical staff were included in the meeting packet (included as part of the meeting record). Mr. Ted Leybold reviewed the Recommendation Summary, which included the following:

- No cuts to funding existing planning activities at this time. Limited cuts to new planning activities.
- No cuts to funding existing project development activities at this time. Limited cuts to new project development activities.
- No cuts to existing level of funding for program activities at this time. Limited cuts to new programs or proposed increase in program funding levels.
- Complete the technical evaluation on the two-diesel retrofit project applications and propose narrowing.
- Do not propose to scale projects at this time, other than new programmatic and diesel retrofit applications.
- Define the 150% of available funds as a target, not a limit.

Mr. Fred Hanson commented that he is fine with not cutting the planning applications at this stage in the process, but would like to see how they rank in achieving overall goals, even if the ranking criteria is objective. He added that rather than taking one big step, this should be a two-step process.

Mr. Dick Pedersen stated his appreciation for TPAC's work and noted that DEQ would continue to support diesel retrofits. He supports the recommendation to complete the technical evaluation on the two project applications with the existing narrowing policy criteria that are relevant to this category of projects. He suggested that TPAC inquire about the timing of the funds and how it fits into the schedule of beginning the operation of new busses.

Councilor Rod Park commented on the importance of updating the Regional Transportation Plan (RTP), which is currently underway, as it will provide new guidance from the public and will also better help determine what projects will have the greatest impact for the investment.

Mr. Roy Rogers agreed with Councilor Park's comments and added that with such limited funds, he hoped that the committee would look at a projects overall return on investment and not just whether they scored high in a certain category.

Mr. Hansen suggested that the committee get close to the 150% range and then reconvene for another round of evaluation, as it is very difficult to go from 180% to 100% in one step.

Chair Burkholder reiterated two points the committee echoed: Ask TPAC to provide a qualitative ranking for planning projects and present the committee with a list close to the 150% target.

Mayor Rob Drake stated that he is not troubled with having a first cut list above 150% as it allows for a more frank discussion of all the needs with citizens.

Mr. Jason Tell asked if anyone had gone back to look into how we leverage state investments and inquired about the rationale for cutting into existing programs.

6.2 RTP Outcomes and Measures

Ms. Kim Ellis appeared before the committee to present RTP Outcomes and Measures report. She noted that the purpose of this agenda item today is to provide JPACT with a brief overview of the next steps for their 2035 RTP update and begin discussion of desired outcomes and measures to analyze performance of the regional transportation system and assess the degree to which current policies are achieving the broader

desired outcomes embodied in the 2040 Growth Concept. During Phase 2, the end of June through December 2006, the process will focus on research and analysis that will be used to re-tool the current plan's policies to better implement the 2040 Growth Concept and to address new policy issues that have emerged since the last major update in 2000, including the New Look policy direction. The research will include an analysis of current regional transportation system conditions and financial, transportation, land use, environmental and economic/demographic trends.

She directed the committee's attention to a memo (included as part of the meeting record) which describes a recommended approach to guide RTP research and policy development and targeted stakeholder engagement activities during Phase 2 to address identified policy gaps and integration of an outcomes-base framework to support those activities. She reviewed the policy gaps listed within the memo. During Phase 3, the updated RTP policies and outcomes-based framework will guide the RTP investment solicitation, prioritization and evaluation process from February to June 2007.

Ms. Susie Lahsene commented that the outcomes should answer the question "what", which would clarify what is trying to be accomplished as well as set priorities.

Mr. Fred Hansen stated his preference for having the goals be quantifiable. The challenge will be for the goals to help prioritize transportation decisions. The current RTP policies make it difficult to prioritize.

Mayor Drake commented that educating the public is important so that they better understand the return on the investments made.

Mr. Don Wagner noted that there are other entities that need to be involved in solving congestion problems. As one example, he mentioned that law enforcement is one group that has a lot to do with congestion, for instance, the time it takes to clear an accident scene during rush-hour traffic. He inquired how the committee should consider addressing these issues. Mr. Andy Cotugno responded that one of the topics being wrestled with is how involved we should get in the regional operation and not just construction of the system.

6.3 TriMet TIP

Due to time constraints, the TriMet TIP presentation was postponed until the next regular JPACT meeting.

6.1 MTIP Review / Comments from TPAC (continue)

The committee continued discussing the MTIP agenda item. The committee agreed to amend the following recommendations to say:

1. Narrowing of Planning Applications

"May Ppropose cuts at First Cut phase to new planning activities only when application does not clearly address program policy objectives and application would compete well for other funding sources. based on analysis of applications relative to program policy objectives and potential for funding from other sources."

2. Narrowing of Project Development Applications

"May Ppropose cuts <u>at First Cut phase</u> to new project development activities only when application does not clearly address program policy objectives and application would compete well for other funding sources <u>based on analysis of applications relative to program policy objectives and potential for funding from other sources."</u>

3. Narrowing of Programmatic Applications

<u>May Propose cuts to new program activities (including scale of project scope) at First Cut phase based when application does not clearly address program policy objectives and the application would compete well for other funding sources on analysis of applications relative to program policy objectives and potential for funding from other sources.</u>

7. <u>ADJOURN</u>

There being no further business, Chair Burkholder adjourned the meeting at 8:55 a.m.

Respectfully submitted,

Jessica Martin Recording Secretary

ATTACHMENTS TO THE PUBLIC RECORD FOR SEPTEMBER 7, 2006

The following have been included as part of the official public record:

			Doc		
	ITEM	TOPIC	DATE	DOCUMENT DESCRIPTION	DOCUMENT NO.
**	4	Information Sheet	N/A	Save the date information sheet on OMPOC Fall Summit 2006	090706j-01
*	5	Minutes	8/10/06	JPACT meeting minutes of August 10, 2006	090706j-02
*	6.1	Memo	8/30/06	To: JPACT From: Ted Leybold Re: Transportation Priorities Technical Evaluation	090706j-03
*	6.1	Calendar	8/30/06	Calendar of 2007 Transportation Priorities and 2008-11 MTIP	090706j-04
*	6.1	Report	9/7/06	Draft Technical Evaluation and Qualitative Factors Summary	090706j-05
*	6.1	Report	August 2006	Draft Environmental Justice Report	090706j-06
*	6.1	Report	August 2006	Draft Diesel Retrofit and CMAQ Funding Evaluation Report	090706j-07
**	6.1	Memo	9/5/06	To: JPACT From: Ted Leybold Re: Transportation Priorities First Cut Recommendation	090706j-10
**	6.1	Summary Chart	NA	Transportation Priorities 2008-2011 Application Summary	090706j-11
*	6.2	Memo	8/31/06	To: JPACT From: Kim Ellis Re: Integrating an Outcomes-Based Approach to Update the Regional Transportation Plan	090706j-08
*	6.3	Power Point	N/A	TriMet Transit Investment Plan	090706j-09

^{*} Included in packet

^{**}Distributed at meeting



DRAFT

DATE: October 5, 2006

TO: JPACT

FROM: Andy Cotugno, Planning Director

SUBJECT: FY '08 Appropriations Requests – Recommendation

Staff is seeking policy guidance from JPACT on what to emphasize in the region's FY '08 Transportation Appropriations request. Issues surrounding this are as follows:

1. The FY '07 Approps process is on going and it is unclear when it will be completed.

- **2.** The Oregon delegation has raised concerns about the region's request for project earmarks being too long, asking the region to more aggressively set priorities.
- **3.** The region <u>must</u> seek earmarks for the transit program categories. Conversely, most of the highway program funds are distributed through formulas and many of the highway discretionary funding categories have already been earmarked in the authorization bill.
- **4.** The process to compile the FY '08 earmark requests has not yet been initiated.

Recommendations

- **1.** JPACT should establish a regional program for earmarking requests from the transit program.
- **2.** JPACT should endorse earmarks from <u>non</u>-transportation appropriations bills that help further the regional transportation agenda.
- **3.** JPACT should set highway earmarking priorities as follows:
 - a. All earmark requests should be in the financially constrained portion of the RTP.
 - b. Requests should be limited to a dollar amount and category that is appropriate. Based upon historical experience, this means requests should generally be no greater than \$3-5 million.

- c. Requests should be only for work that can be obligated within the timeframe of this bill, not simply requests to accumulate over multiple bills for a later date. Only ask for projects and project amounts sufficient to complete the next logical step or a finance plan to complete the phase (i.e. enough to complete PE, right-of-way or construction step). Do not allow requests that are simply a partial payment toward one of these steps.
- d. JPACT should expect the following interests to limit their requests to one or two priorities:
 - Portland
 - Multnomah County and Cities of Multnomah County
 - Clackamas County and Cities of Clackamas
 - Washington County and Cities of Washington County
 - Port of Portland
 - ODOT
 - Metro
- e. JPACT should structure its project requests being mindful of the Congressional districts in which they are located.

BEFORE THE METRO COUNCIL

FOR THE PURPOSE OF AMENDING THE) RESOLUTION NO. 06-3733
2006-09 METROPOLITAN)
TRANSPORTATION IMPROVEMENT) Introduced by Councilor Rex Burkholder
PROGRAM (MTIP) TO ADD THE NW)
CORNELL ROAD: EVERGREEN PARKWAY	
TO 158 TH AVENUE WIDENING PROJECT)
WHEREAS, the Metropolitan Transportation from the Regional Transportation Plan to receive tra	on Improvement Program (MTIP) prioritizes projects ansportation related funding; and
	nmittee on Transportation (JPACT) and the Metro t amendments to add new projects to the MTIP; and
WHEREAS, the JPACT and the Metro Cou and	ancil approved the 2006-09 MTIP on August 18, 2005;
WHEREAS, the State of Oregon awarded Widening of NW Cornell Road between Evergreen I Opportunity Fund to support economic developmen	•
WHEREAS, this is a new transportation pro Transportation Improvement Program prior to these	oject requiring amendment into the Metropolitan funds being made available to the project; and
WHEREAS, the project has been determine for air quality per federal regulations; and	ed in conformity with the State Implementation Plan
WHEREAS, the project is consistent with the	he Regional Transportation Plan; now therefore
BE IT RESOLVED that the Metro Council the NW Cornell Road: Evergreen Parkway to 158 th Transportation Improvement Program.	hereby adopts the recommendation of JPACT to add Avenue project into the 2006-09 Metropolitan
ADOPTED by the Metro Council this 26th	day of October 2006.
	David Bragdon, Council President
Approved as to Form:	
Daniel B. Cooper, Metro Attorney	
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STAFF REPORT

IN CONSIDERATION OF RESOLUTION NO. 06-3733, FOR THE PURPOSE OF AMENDING THE 2006-09 METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM (MTIP) TO ADD THE NW CORNELL ROAD: EVERGREEN PARKWAY $-158^{\rm TH}$ AVENUE WIDENING PROJECT

Date: September 20, 2006 Prepared by: Ted Leybold

BACKGROUND

The Oregon Transportation Commission has awarded Washington County \$1 million from the Immediate Opportunity Fund for the widening of NW Cornell Road between Evergreen Parkway and 158th Avenue. The purpose of the Immediate Opportunity Fund is to respond quickly to infrastructure investment needs that will support economic development opportunities.

The NW Cornell Road project will bring the last remaining two-lane section of Cornell Road south of Highway 26 up to its planned standard and capacity by adding two travel lanes, a turn-lane where necessary, bike lanes, sidewalks, planter strips and street lighting.

Air quality conformity analysis has been submitted to the state and federal air quality agencies and TPAC for consultation and forwarded to FHWA for approval.

This resolution would approve amending the 2006-09 Metropolitan Transportation Improvement Program to include programming of \$1 million of state transportation project funds obtained for the project.

ANALYSIS/INFORMATION

- 1. **Known Opposition** None known at this time.
- **2. Legal Antecedents** Amends the 2006-09 Metropolitan Transportation Improvement Program adopted by Metro Council Resolution 05-3606 on August 18, 2005 (For the Purpose of Approving the 2006-09 Metropolitan Transportation Improvement Program for the Portland Metropolitan Area).
- **3. Anticipated Effects** Adoption of this resolution will make available state transportation funding to Washington County for the NW Cornell Road: Evergreen Parkway to 158th Avenue project.
- 4. **Budget Impacts** None.

RECOMMENDED ACTION

Metro staff recommends the approval of Resolution No. 06-3733.

BEFORE THE METRO COUNCIL

FOR THE PURPOSE OF CONCURRING THAT) RESOLUTION NO. 06-3734					
TRIMET, C-TRAN, AND SMART BE THE DESIGNATED RECIPIENTS OF FEDERAL JOBS ACCESS AND REVERSE COMMUTE) Introduced by Councilor Rex Burkholder					
AND NEW FREEDOM TRANSPORTATION)					
FUNDS ALLOCATED TO THE PORTLAND-)					
VANCOUVER URBANIZED AREA)					
WHEREAS, the Metro Council and Joint Po (JPACT) are the federally designated Metropolitan l Portland-Vancouver urbanized area and are authoriz Metropolitan Transportation Improvement Program	zed to program federal transportation funds into the					
WHEREAS, the Jobs Access and Reverse Commute (JARC) federal transportation funding program has been changed from a grant award funding program to a formula funding program allocated to all urbanized areas; and						
WHEREAS, a new federal transportation for created to provide new public transportation service	ormula funding program titled New Freedom has been s for individual with disabilities; and					
	portation Commission of Southwest Washington have airements necessary to be designated as a recipient of and					
WHEREAS, TriMet, C-Tran and SMART a	are qualified to receive these funds; and					
WHEREAS, Metro and TriMet will update roles and responsibilities of each agency in carrying effectively administer these funds; and	the Memorandum of Understanding that identifies the out regional transportation planning activities to					
WHEREAS, federal law requires the Metrogovernors of Oregon and Washington in designating therefore	politan Planning Organization concur with the g a recipient of these new program funds; now,					
concur that TriMet, C-Tran and SMART be designated	hereby accepts the recommendation of JPACT to sted by the Governors of Oregon and Washington as in funds allocated to the Portland-Vancouver urbanized					
ADOPTED by the Metro Council this 26th day of C	October 2006.					
Approved as to Form:	David Bragdon, Council President					
Daniel B. Cooper, Metro Attorney						

STAFF REPORT

IN CONSIDERATION OF RESOLUTION NO. 06-3734, FOR THE PURPOSE OF CONCURRING THAT TRIMET, C-TRAN AND SMART BE THE DESIGNATED RECIPIENTS OF FEDERAL JOBS ACCESS AND REVERSE COMMUTE AND NEW FREEDOM TRANSPORTATION FUNDS ALLOCATED TO THE PORTLAND-VANCOUVER URBANIZED AREA

Date: September 20, 2006 Prepared by: Ted Leybold

BACKGROUND

The recent federal transportation authorization act created a new funding program to provide new transportation services beyond those required by the Americans with Disabilities Act and that assist individuals with disabilities with transportation. The act also changed the Jobs Access and Reverse Commute (JARC) program from a competitive grant program to a formula-funding program provided to all eligible areas.

The act requires the Governors of Oregon and Washington to identify the "designated recipients" for these two funding programs. There must also be concurrence of the designation by the providers of publicly owned transit service and the Metropolitan Planning Organization in the urbanized area. Typically, the public transit service providers will serve as the recipients of these funds and will administer the distribution of these funds at the local level.

TriMet, C-Tran, and SMART have provided the documentation necessary to demonstrate that they have the legal and administrative capacity to be the designated recipient of these funds. Metro and TriMet will also update their Memorandum of Understanding for carrying out planning activities to clarify agencies responsibilities related to the administration of these funds.

ANALYSIS/INFORMATION

- 1. **Known Opposition** None known at this time.
- **2. Legal Antecedents** The recent federal transportation authorization law (Safe, Accountable, Flexible, Efficient Transportation Equity Act a Legacy for Users or SAFETEA-LU) created two new federal formula funding programs and required Metropolitan Planning Organizations to concur with the state governor on the designated local recipient of these funds.
- **3. Anticipated Effects** Adoption of this resolution will authorize TriMet, C-Tran and SMART to receive federal transportation funds provided through the federal New Freedom and Jobs Access and Reverse Commute funding programs.
- 4. Budget Impacts None.

RECOMMENDED ACTION

Metro staff recommends the approval of Resolution No. 06-3734.

600 NORTHEAST GRAND AVENUE TEL 503 797 1700

PORTLAND, OREGON 97232 2736 FAX 503 797 1794



DATE: October 5, 2006

TO: JPACT and Interested Parties

FROM: Ted Leybold, MTIP Manager

SUBJECT: Transportation Priorities 2008-11 – Metro Staff and TPAC

Recommended First Cut Lists

* * * * * * *

Introduction

This memorandum summarizes Transportation Priorities program policy objectives and the Metro staff recommended First Cut List of projects and recommendation rational. This recommendation was considered by TPAC, which adopted its own recommendation September 29th. The TPAC First Cut list recommendation and policy rational is also provided. The recommendations are summarized in the attached Table 1.

Policy Guidance for the 2008-11 Transportation Priorities Program

Program Objectives

The primary policy objective for MTIP and the allocation of region flexible transportation funds is to:

- Leverage economic development in priority 2040 land-use areas through investment to support:
 - 2040 Tier I and II mixed-use areas (central city, regional centers, town centers, main streets and station communities);
 - 2040 Tier I and II industrial areas (regionally significant industrial areas and industrial areas); and
 - 2040 Tier I and II mixed-use and industrial areas within UGB expansion areas with completed concept plans.

Other policy objectives include:

- Emphasize modes that do not have other sources of dedicated revenues
- Complete gaps in modal systems

- Develop a multi-modal transportation system with a strong emphasis on funding: bicycle, boulevard, freight, green street demonstration, pedestrian, regional transportation options, transit oriented development and transit projects and programs; and
- Meet the average annual requirements of the State Implementation Plan for air quality for the provision of pedestrian and bicycle facilities.

Factors Used to Develop Narrowing Recommendations

In developing both the first cut and final cut narrowing recommendations, Metro technical staff will consider the following information and policies:

- Honoring previous funding commitments made by JPACT and the Metro Council.
- Program policy direction relating to:
 - Economic development in priority land use areas;
 - Modal emphasis on bicycle, boulevard, green streets demonstration, freight, pedestrian, RTO, TOD and transit;
 - Addressing system gaps;
 - Emphasis on modes without other dedicated sources of revenue; and
 - Meeting SIP air quality requirements for miles of bike and pedestrian projects.
- Funding projects throughout the region.
- Technical rankings and qualitative factors:
 - The top-ranked projects at clear break points in technical scoring in the bicycle, boulevard, freight, green streets, pedestrian, regional travel options, transit and TOD categories (with limited consideration of qualitative issues and public comments).
 - Projects in the road capacity, reconstruction or bridge categories when the project competes well within its modal category for 2040 land use technical score and overall technical score, and the project best addresses (relative to competing candidate projects) one or more of the following criteria:
 - Project leverages traded-sector development in Tier I or II mixed-use and industrial areas
 - Funds are needed for project development and/or match to leverage large sources of discretionary funding from other sources
 - The project provides new bike, pedestrian, transit or green street elements that would not otherwise be constructed without regional flexible funding (new elements that do not currently exist or elements beyond minimum design standards).
 - Recommend additional funding for existing projects when the project scores well and documents legitimate cost increases relative to unanticipated factors. It is expected, however, that projects will be managed to budget. Only in the most extraordinary of circumstances will additional monies to cover these costs be granted.
- When considering nomination of applications to fund project development or match costs, address the following:

- Strong potential to leverage discretionary (competitive) revenues.
- Partnering agencies illustrate a financial strategy (not a commitment) to complete construction that does not rely on large, future allocations from Transportation Priorities funding.
- Partnering agencies demonstrate how dedicated road or bridge revenues are used within their agencies on competing road or bridge priorities.
- As a means of further emphasis on implementation of Green Street principles, staff may propose conditional approval of project funding to further review of the feasibility of including green street elements.

Explanation of Metro Staff Project/Program Recommendations

The First Cut target amount was calculated as 150% of available funds (\$68.1 million) plus one half of planning, diesel retrofit, new program proposals and project development application amounts (\$8.3 million). Half of the planning, diesel retrofit and project development costs were added to the traditional First Cut target of 150% of available funds due to the new policies and administrative emphasis on project development increasing the number of these types of applications submitted in this funding cycle. As planning and project development applications are not quantitatively scored and ranked against other projects, Metro staff does not make a recommendation on further consideration of these applications until after the public comment period and further narrowing direction from JPACT and the Metro Council. However, keeping the increased number of planning and project development applications on a 150% First Cut list would have significantly decreased the number of construction applicants on the list.

Following are summaries of the projects and programs proposed for consideration of the First Cut List by project staff within each mode category.

Bike/Trail

- Five of the top six technically ranked projects were nominated for inclusion in the first cut list.
- The NE/SE 70's project is not recommended due to desire to fund projects throughout the region and its relatively large cost.
- The projects included, along with those in the Boulevard category, would meet progress needed on air quality Transportation Control Measures for miles of bicycle improvements.
- The project development applications of the Sullivan's Gulch Trail: Eastbank Esplanade to 122nd and the Westside Corridor Trail: Tualatin River to Willamette River were not technically ranked against the other bike projects and recommended for further consideration for the public

comment period and to receive further direction from JPACT and the Metro Council.

Boulevard

- The top six technically ranked projects were nominated for further consideration.
- These projects, along with projects recommended in the Bike and Pedestrian categories would meet progress needed on air quality Transportation Control Measures for miles of bicycle and pedestrian improvements.

Diesel Retrofits

As the two diesel retrofit applications have not yet been evaluated, they
are recommended for further consideration through the public comment
period and until Metro staff receives further policy direction from JPACT
and the Metro Council. Options for evaluating these applications will be
presented to JPACT and the Council.

Green Streets

- Both green street retrofit demonstration projects are recommended for further consideration as they had similar technical scores.
- The only culvert retrofit project is recommended for inclusion on the first cut list. It is the highest priority culvert retrofit on the regional inventory (approximately 150 culverts) due to amount and quality of upstream habitat potentially accessible to endangered/threatened fish species.

Freight

- The top ranked freight project is recommended for further consideration.
- As a project development activity, the Portland/Columbia intersection project is also recommended for further consideration.
- The Burgard/Lombard project is not recommended for further consideration due to its lower technical score, relatively high costs, uncertainty of future inclusion in the RTP, uncertainty of future revenue sources to pay for construction costs, and a desire to fund projects throughout the region.

Large Bridge

 The Morrison Bridge deck rehabilitation project is recommended for further consideration. While this category is not a policy emphasis for the Transportation Priorities program, funding of this project could result in cost efficiencies associated with coordinating the project with the Morrison Bridge bike/pedestrian project previously funded through the Transportation Priorities program.

Planning

As no technical evaluation of planning applications is undertaken, Metro staff recommends further consideration of planning studies until after the public comment period and after receiving further direction from JPACT and the Metro Council.

Pedestrian

- The top three technically ranked projects are recommended for further consideration on the first cut list.
- The projects included, along with those in the Boulevard category, would meet progress needed on air quality Transportation Control Measures for miles of pedestrian improvements.
- As project development and planning activities, the Fanno Creek trail Hall Boulevard crossing and the Pedestrian network analysis applications are also recommended for further consideration.

Road Capacity

- Four of the top five technically ranked road capacity projects are recommended for further consideration.
- The 190th Avenue project, while of similar technical score to the Tualatin-Sherwood Road ITS project, is not recommended for further consideration due to its relatively high cost in a modal category that is not a policy emphasis for the Transportation Priorities program.
- As a project development activity, the Highway 217 environmental assessment application is also recommended for further consideration.
- As applications that could not be evaluated under the traditional road capacity quantitative criteria, the ITS Programmatic allocation and the Clackamas County ITS application are also recommended for further consideration through the public comment period and until Metro staff receives further policy direction from JPACT and the Metro Council.

Road Reconstruction

• The two road reconstruction projects are not recommended for further consideration. The projects are not in a modal policy emphasis for the

Transportation Priorities program and did not meet the stringent criteria for providing additional funds to a previously funded project.

Regional Travel Options

- The Regional Travel Options program is recommended for further consideration at the level of funding needed to implement the programs strategic plan.
- Further consideration of an additional individualized marketing program and additional TMA support is recommended for further consideration to receive public comment period and further policy direction from JPACT and Metro Council.

Transit Oriented Development (TOD)

 All three transit oriented development applications are recommended for further consideration.

Transit

- Both transit capital project applications are recommended for further consideration.
- As project development activities, both the South Corridor Phase II PE and Tigard transit center redesign applications are recommended for further consideration through the public comment period and to receive further policy direction from JPACT and the Metro Council.
- Metro staff recommends honoring the existing commitment to repay bond debt on the I-205/Mall light rail, Wilsonville-Beaverton commuter rail and South Waterfront streetcar transit projects.

TPAC Recommendation

TPAC expressed an interest in proposing a different First Cut recommendation and in proposing further cuts in the Planning, Project Development, Diesel Retrofit and Programmatic applications. Additional policy direction was sought from Metro Council and JPACT. The following direction was provided:

Supplemental Policy Direction for First Cut Recommendation from Technical Staff

1. Narrowing of Planning Applications

Issue: Planning applications are not quantitatively evaluated and represent a total of \$3.8 million of the \$133.4 million in applications. Past practice has been to propose no cuts to existing planning activities until the Final Cut phase. In the past, cuts to new planning activities have been proposed only when clear funding alternatives exist. This allows public comment on the merits of the proposed planning activity relative to project work.

Policy Direction: • No cuts at this time to existing planning activities.
• May propose cuts at First Cut phase to new planning activities based on analysis of applications relative to program policy objectives and potential for funding from other sources.

2. Narrowing of Project Development Applications

Issue: Project development encompasses project planning, environmental and engineering activities to define a single design option to enter final design and engineering. In past funding cycles, these types of applications were defined as either Planning or Preliminary Engineering. Project development activities represent \$4.1 million of application requests. Only limited quantitative analysis is completed on these applications. As this is a new classification of application, no history or policy direction exists on how to narrow these types of applications in the First Cut phase.

Policy Direction: • No cuts at this time to existing project development activities• May propose cuts at First Cut phase to new project development activities based on analysis of applications relative to program policy objectives and potential for funding from other sources.

3. Narrowing of Programmatic Applications

Issue: Programs such as the Transit Oriented Development and Regional Travel Options apply for funding to continue activities at current levels and provide options for additional activities. Local agencies sometimes apply to fund a specific activity in these "programmatic" areas. A new Intelligent Transportation System programmatic application was submitted this cycle.

These applications are not quantitatively evaluated and represent \$17.1 million of application requests.

Policy Direction: • No cuts at this time to existing level of funding for program activities. • May propose cuts to new program activities (including scale of project scope) at First Cut phase based on analysis of applications relative to program policy objectives and potential for funding from other sources.

4. Diesel Retrofit

Issue: New project funding category in response to new policy language in federal law to prioritize Congestion Mitigation/Air Quality funds for this activity. No prior adopted program policies or technical evaluation methods adopted for this category of projects. TPAC has reviewed a proposed technical evaluation methodology and is scheduled to receive the evaluation of the two applications at its September meeting. These represent \$3.8 million of application requests.

Policy Direction: Complete the technical evaluation on the two project applications and propose narrowing according to existing narrowing policy criteria that are relevant to this category of projects.

5. Scale project applications by scope or phase

Issue: Several large projects that are competitive in the quantitative technical evaluation are expensive, making it difficult to fit all of these types of projects onto a First Cut list. These projects may be able to reduce requested amount by reducing the length of the project or only funding the final engineering or right-of-way phase of the project. Reducing costs by scaling the application request has traditionally been done during the Final Cut process only, but there is no policy direction to technical staff on this issue.

Policy Direction: • Do not propose to scale projects at this time other than new programmatic and diesel retrofit applications. • Recommend a First Cut list that best meets existing policy direction.

Whole projects should be discussed during the public comment period based on the merits of the whole application. Project scaling should be reserved for making the highest priority projects fit within existing funding levels at the Final Cut phase.

6. First Cut Target Amount

Issue: TPAC expressed a desire to be disciplined about meeting a target of 150% of available funding in its First Cut recommendation. Metro staff has viewed this as a target and in its recommendation proposed a First Cut list \$8 million more than 150% of available revenues due to the new diesel retrofit

and project development applications that were not proposed to be narrowed during the First Cut.

Policy Direction: Define the 150% of available funds as a target, not a limit, and include applications that best meet the program policy objectives and narrowing policy direction.

TPAC Action

Following are changes to the Metro staff recommendation developed by TPAC at its meeting on September 29th. This memo summaries the policy rational as provided at the TPAC meeting and summaries. Attached to this memo is a summary sheet of the project applications.

Bike/Trail

- 1. Cut the Willamette Greenway Trail: SW Gibbs to SW Lowell project (\$1.8 million). Proposed that previous Transportation Priorities \$10 million allocation to the South Waterfront area should be considered a sufficient contribution to public infrastructure in this area.
- 2. Add a portion of the NE/SE 70's Bikeway project (\$1.8 million of the \$3.698 million request). TPAC recommended a reduced portion of this project be included in the First Cut list due to its having a similar technical score to other bike projects included in the First Cut list and to the large potential impact to inducing new riders in an area underserved by bicycle facilities. Applicant staff will be asked to define a project that could be constructed with a \$1.8 million federal share funding amount.

Boulevard

3. TPAC recommended cutting the construction and right-of-way portions (\$1.2 million) from the \$1.5 million Burnside: 181st to Stark Boulevard project application. This was proposed as a cost savings measure by the project applicant as a means of including the SE 190thDrive:Pleasant View/Highland to 30th road capacity project on the First Cut list as a local priority.

Diesel Retrofit

4. Cut additional \$700 K (TriMet has reduced its original request by \$1.1 million) from the TriMet Bus diesel retrofit application. This would eliminate retrofitting of approximately 59 of the oldest of 325 buses proposed for retrofitting from obtaining emission reduction equipment. The federal share of the TriMet application would be reduced from \$2.5 million to \$1.8 million. The TriMet bus fleet currently totals 606 buses.

Planning

- 5. TPAC recommended cuts to one-half of the costs of the one-time Planning projects as a means of reducing costs without reducing existing service levels. The recommended cuts included:
 - a. Rx for Big Streets (250 K)
 - b. Tanasbourne Town Center Planning Study (200 K)
 - c. Pedestrian Network Analysis (125 K partial cut: scope and staff support reduced)

One-time planning studies recommended for public comment include:

- a. Livable Streets Update (additional \$50 K to incorporate Big Street project element to be defined)
- b. Hillsboro Regional Center transportation design, PE and environmental
- c. Pedestrian Network Analysis (at a reduced project scope)

The Livable Streets update application based on it being a continuation of existing planning and design activities rather than taking on the next phase of the transportation and land-use Corridor work that would be undertaken in the Rx for Big Streets work scope. The Hillsboro regional center planning activities as a priority over the Tanasbourne town center planning activities based on the priority of regional center land uses being of higher significance than town center planning activities.

Regional Travel Options (RTO)

- 6. TPAC recommends cuts to half the new RTO Program applications as a means of reducing costs without cutting existing service levels. This included:
- \$200 K cut from the Individualized Marketing program, and
- \$400 K cut from the New TMA start-up support applications

This would level of funding would support one Individualized Marketing project for 6,650 households in addition to the 10,000 household effort funded in the base program. It would also support formation of one additional TMA. The base program includes ongoing support for six existing TMAs and support for year two and three start-up funds for up to three TMAs that may be started in FY 07.

Road Capacity

- 7. TPAC recommended consolidating and reducing total funding to the ITS/ATMS projects in the Road capacity modal category as a means of utilizing the expertise of the Transport subcommittee and reducing costs. The recommendation includes consolidating the following candidate projects:
- ITS programmatic application (\$3.0 million)
- Tualatin-Sherwood Road (\$1.561 million)
- Clackamas County ITS program (\$.561 million)

A new regional ITS/ATMS programmatic application of \$3.5 million (a \$1.653 million cut from the total of all three applications) would be created for review and proposed prioritization of program elements by the Transport subcommittee of TPAC. The first priority of the programmatic application would be a Tualatin-Sherwood Road project of similar scope to the existing application and consideration of the Clackamas County program application but with project elements recommended by Transport. The balance of projects would be recommended by Transport,

taking into consideration geographic distribution of projects throughout the region.

- 8. Add the SE 190th Drive: Pleasant View/Highland to SW 30th Street project (\$3.967 million). This project was added due to its similar technical score to other projects in the Road Capacity category, as a means of supporting development of infrastructure in a 540 acre annexation of the Pleasant Valley urban boundary expansion area by Gresham, and the need to link with development funded work to 190th between SW 30th and Richey Road. Funding target capacity for inclusion of this project was partially offset by a proposal of the project sponsor to reduce proposed funding on the Burnside: 181st to Stark Boulevard project by \$1.2 million.
- 9. TPAC recommended a policy review of the role of Transportation Priorities funding on highway projects prior to the final cut of projects next spring. The Highway 217: B-H Hwy to Allen Environmental Assessment project should be considered at that time in the context of a potential partnership with ODOT and other interested parties.

Road Reconstruction

10. TPAC recommended the addition of the NE 223rd Avenue Railroad under crossing project as the application addresses significant cost over runs imposed on the project by forces beyond the control of the lead agency. This is a policy issue identified as a concern by and allowed for within the application process by JPACT and the Metro Council (\$1 million).

Transportation Priorities 2008-2011 Application Summary

Project code	Project name	Funding request	Technical Score	Metro Staff Recommend- ation	TPAC Recommend ation
Bike/Trail					
Bk1126	NE/SE 50s Bikeway: NE Thompson to SE Woodstock	\$1.366	78	х	x
Bk1048	Willamette Greenway Trail: SW Gibbs - SW Lowell	\$1.800	72	x	
	Trolley Trail: Arista St Glen Echo	·		х	х
Bk5026	·	\$1.875	65		x @ \$1.8
	NE/SE 70s Bikeway 70s: NE Killingsworth - SE Clatsop	\$3.698	65	x	X
Bk3012	Rock Creek Path: Orchard Park - NW Wilkins	\$0.600	64	^	^
Bk4011	Marine Drive Bike Facility Gaps: NE 6th - NE 185th	\$1.873	61		
N/A Bk3014, 3072.	Sullivan's Gulch Trail: Esplanade - 122nd Ave	\$0.224	**(50-85) 77	x	x x
,	Westside Corridor Trail: Tualatin River - Willamette River	\$0.300	**(39-94) 87		
Bk5053	Milwaukie - Lake Oswego Trail (PE)	\$0.583	**(59-74) 69	х	х
Bk5193	Willamette Falls Dr: 10th St - Willamette Dr	\$2.987	48		
Bk3114	NE 28th Ave: NE Grant - E. Main St (PE)	\$0.300	**(40-55) 47		
	Subtotal	\$15.606		\$6.748	\$6.748
Boulevard			T		
Bd3169	East Baseline Street (Cornelius): 10th Ave - 19th Ave	\$3.231	96	X	X
Bd3169	East Burnside: 3rd Ave - 14th Ave	\$4.700	93	x x	X
Bd5134	McLoughlin Blvd: Clackamas River - Dunes Drive	\$2.800	91	x	X X
Bd2015 Bd2104	NE 102nd Avenue: NE Glisan - NE Stark SE Burnside: 181 Street - Stark Street: PD	\$1.918 \$1.500	90	x	x @ \$.3
D02104		ψ1.500	90	x	x
Bd1221	Killingsworth: N Commercial - NE MLK Jr Blvd	\$1.955	84	^	^
Bd3020	Rose Biggi extension: Crescent St Hall	\$5.387	78		
Bd6127	Boones Ferry Road: Red Cedar Way - S of Reese Road	\$3.491 \$24.982	78	£4C 404	£44.004
Diesel Retro	Subtotal Subtotal	\$24.962		\$16.104	\$14.904
DR8028	Transit Bus Emission Reduction: Metro Region: 266 buses	\$1.800	83	х	х
	Transit Bus Emission Reduction: Metro Region: 59 buses	\$0.700	83	х	
DR0001	Sierra Cascade SmartWay Technology: Metro Region	\$0.200	76	x	х
	Subtotal	\$2.700		\$2.700	\$2.000
reight			l	Ι	
Fr4044	82nd Ave/Columbia Intersection Improvement	\$2.000	86.75	x	х
	·		**(66.25-91.25)	х	х
			88		
Fr0002	Portland Road/Columbia Blvd Intersection	\$0.538	00		
Fr0002 Fr0001	Portland Road/Columbia Blvd Intersection N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal	\$0.538 \$3.967 \$6.506	70	\$2.538	\$2.538
	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal	\$3.967		\$2.538	\$2.538
Fr0001 Green Stree	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert	\$3.967 \$6.506	70	\$2.538	\$2.538 X
Fr0001	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal	\$3.967 \$6.506 \$1.055		-	х
Fr0001 Green Stree	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal	\$3.967 \$6.506	70	х	
Fr0001 Green Stree GS5049	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal	\$3.967 \$6.506 \$1.055	70	х	х
Fr0001 Green Stree GS5049 Green Stree	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit	\$3.967 \$6.506 \$1.055 \$1.055	70	x \$1.055	x \$1.055
GS5049 Green Stree GS1224 GS6050	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal	\$3.967 \$6.506 \$1.055 \$1.055	70 100 77.50	x \$1.055	x \$1.055
Fr0001 Green Stree GS5049 Green Stree GS1224	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540	70 100 77.50	x \$1.055	x \$1.055 x x
GS5049 Green Stree GS1224 GS6050	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540	70 100 77.50	x \$1.055	x \$1.055 x x
Fr0001 Green Stree GS5049 Green Stree GS1224 GS6050 arge Bridg RR1010	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal e	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540 \$5.747	70 100 77.50 72	x \$1.055 x x x \$5.747	x \$1.055 X X \$5.747
Fr0001 Green Stree GS5049 Green Stree GS1224 GS6050 arge Bridg	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal e Morrison Bridge: Willamette River (Portland)	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540 \$5.747	70 100 77.50 72	x \$1.055 x x \$5.747 x \$2.000	x \$1.055 x x \$5.747 x \$2.000
Fr0001 Green Stree GS5049 Green Stree GS1224 GS6050 arge Bridg RR1010	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal e Morrison Bridge: Willamette River (Portland)	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540 \$5.747	70 100 77.50 72	x \$1.055 x x x \$5.747	x \$1.055 x x x \$5.747
GS5049 Green Stree GS1224 GS6050 arge Bridg RR1010	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal e Morrison Bridge: Willamette River (Portland) Subtotal	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540 \$5.747 \$2.000 \$2.000	70 100 77.50 72 75.75	x \$1.055 x x \$5.747 x \$2.000	x \$1.055 x x \$5.747 x \$2.000
GS5049 Green Stree GS1224 GS6050 Arge Bridg RR1010 Cedestrian Pd2057	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal e Morrison Bridge: Willamette River (Portland) Subtotal Hood Street: SE Division Street - SE Powell Blvd	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540 \$5.747 \$2.000 \$0.887	70 100 77.50 72 75.75	x \$1.055 x x \$5.747 x \$2.000	x \$1.055 x x \$5.747 x \$2.000
GS5049 Green Stree GS1224 GS6050 Arge Bridg RR1010 Pd2057 Pd1160	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal e Morrison Bridge: Willamette River (Portland) Subtotal Hood Street: SE Division Street - SE Powell Blvd Foster Woodstock: SE 87th St - SE 101 St	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540 \$5.747 \$2.000 \$2.000 \$0.887 \$1.931	70 100 77.50 72 75.75	x \$1.055 x x \$5.747 x \$2.000	x \$1.055 x x \$5.747 x \$2.000
Fr0001 Green Stree GS5049 Green Stree GS1224 GS6050 Arge Bridg RR1010 Pd2057 Pd1160 Pd5052 Pd1120	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal e Morrison Bridge: Willamette River (Portland) Subtotal Hood Street: SE Division Street - SE Powell Blvd Foster Woodstock: SE 87th St - SE 101 St SE 17th Ave: SE Ochoco - SE Lava Drive Sandy Blvd Ped Improvements: NE 17 - NE Wasco St Hall Blvd Bike/Ped crossing study: Fanno Creek trail and	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540 \$5.747 \$2.000 \$2.000 \$0.887 \$1.931 \$1.655 \$0.712	70 100 77.50 72 75.75 90 87 82 70	x \$1.055 x x \$5.747 x \$2.000	x \$1.055 x x \$5.747 x \$2.000
GS5049 GS5049 GREEN Stree GS1224 GS6050 Arge Bridg RR1010 Cedestrian Pd2057 Pd1160 Pd5052 Pd1120 Pd6007	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal e Morrison Bridge: Willamette River (Portland) Subtotal Hood Street: SE Division Street - SE Powell Blvd Foster Woodstock: SE 87th St - SE 101 St SE 17th Ave: SE Ochoco - SE Lava Drive Sandy Blvd Ped Improvements: NE 17 - NE Wasco St Hall Blvd Bike/Ped crossing study: Fanno Creek trail and Hall	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540 \$5.747 \$2.000 \$0.887 \$1.931 \$1.655 \$0.712 \$0.359	70 100 77.50 72 75.75 90 87 82 70 **(40-80) 67	x \$1.055 x x \$5.747 x \$2.000	x \$1.055 x x \$5.747 x \$2.000
Fr0001 GS5049 GS5049 GS1224 GS6050 Arge Bridg RR1010 edestrian Pd2057 Pd1160 Pd5052 Pd1120	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge Subtotal ts Culvert OR 99-E Bridge at Kellogg Lake Subtotal ts Retrofit Cully Boulevard: NE Prescott - NE Killingsworth Main Street: Rail Corridor: Hwy 99E (Tigard) Subtotal e Morrison Bridge: Willamette River (Portland) Subtotal Hood Street: SE Division Street - SE Powell Blvd Foster Woodstock: SE 87th St - SE 101 St SE 17th Ave: SE Ochoco - SE Lava Drive Sandy Blvd Ped Improvements: NE 17 - NE Wasco St Hall Blvd Bike/Ped crossing study: Fanno Creek trail and	\$3.967 \$6.506 \$1.055 \$1.055 \$3.207 \$2.540 \$5.747 \$2.000 \$2.000 \$0.887 \$1.931 \$1.655 \$0.712	70 100 77.50 72 75.75 90 87 82 70	x \$1.055 x x \$5.747 x \$2.000	x \$1.055 x x \$5.747 x \$2.000

Transportation Priorities 2008-2011 **Application Summary**

Project code	Project name	Funding request	Technical Score	Metro Staff Recommend- ation	TPAC Recommend- ation
PI0005	RTP Corridor Project: Metro Region	\$0.600	n/a	х	х
Pl0002	Livable Streets Guidebook Update: Metro Region	\$0.200	n/a	х	x @ \$.250
Pd8035	Pedestrian Network Analysis: Metro Region	\$0.247	n/a	х	x @ \$.125
Pl0003	Tanasbourne Town Center Planning Study: Hillsboro	\$0.200	n/a	х	
Pl0001	Rx for Big Streets: Metro Region 2040 corridors	\$0.250	n/a	х	
Pl0004	Hillsboro RC Planning Study: Hillsboro	\$0.350	n/a	х	x
	Subtotal	\$3.840		\$3.840	\$3.318
Regional Tra	avel Options				
n/a	Regional Travel Options: Metro Region	\$4.447	n/a	x	x
n/a	RTO Individualized Marketing Program: Metro Region (Add)	\$0.600	n/a	х	x @ \$.400
n/a	RTO New TMA Support: Metro region (Add)	\$0.600	n/a	х	x @ \$.200
	Subtotal	\$5.647		\$5.647	\$5.047
Road Capac	ity				
RC5069	Harmony Road: 82nd Ave - Highway 224	\$1.500	84.50	х	х
RC3030	Farmington Road: SW Murray Blvd - SW Hocken Ave	\$4.284	80.75	х	х
RC3016	Tualatin-Sherwood Road ATMS: 99W - SW Teton Rd	\$1.561	77.00	х	
	SE 10th Ave: East Main Street - Baseline			x	х
RC3113		\$0.600	76.25		x
RC7036	SE 190th Dr: Pleasant View/Highland - SW 30th St	\$3.967	75.50		^
RC5101	Clackamas County ITS: Clackamas County	\$0.592	n/a	х	
RC0001	ITS Programmatic Allocation: Metro Region	\$3.000	n/a	х	x @ \$3.5*
RC3023	Highway 217 E: Beaverton Hillsdale Hwy - SW Allen Blvd	\$0.500	**score under review	х	x
PI0007	Happy Valley Town Center Arterial Street Planning	\$0.432	n/a	х	X
RC7000	SE 172nd Ave: Multnomah Co line - Sunnyside Rd	\$1.500	69.50		
RC3150	Cornell Road ATMS and ATIS: Hillsboro - US 26	\$2.002	67.75		
RC2110	Wood Village Blvd: NE Halsey St - NE Arata Rd	\$0.643	61.50		
RC3192	Sue/Dogwood Connection: NW Dale - NW Saltzman	\$3.455	30.25		
100102	Subtotal	\$24.035	30.23	\$12.469	\$14.783
Road Recon		V 2000		\$12.400	ψ14.100
RR1214	Division Street: SE 6th St - 39th St	\$2.000	79		
RR2081	223rd RR under-crossing at Sandy Boulevard	\$1.000	76		х
TRIVEOUT	Subtotal	\$3.000			\$1.000
Transit	Justotui	, 2.2.2.2			,
				х	v
Tr1106	Eastside Streetcar: NW 10th - NE Oregon	\$1.000	80	^	х
Tr8035	On-Street Transit Facilities: Metro Region	\$2.750	74	х	x
Tr1003	South Corridor Phase 2: (PE)Portland - Milwaukie	\$2.000	**(85-100) 100	x	х
Tr8025	Tigard Transit Center: SW Commercial St (Tigard)	\$0.160	**(33-68) 55	х	x
	Subtotal	\$5.910	<u> </u>	\$5.910	\$5.910
Transit Orie	nted Development				
TD8005a	Metro TOD Implementation Program: Metro Region	\$4.000	97	х	x
TD8005b	Metro Centers Implementation Program: Metro Region	\$2.000	** (82-97) 96	х	х
TD8025	Hollywood Transit Center: NE Halsey and NE 42nd St	\$0.202	** (80-95) 94	х	х
	Subtotal	\$6.202		\$6.202	\$6.202

Bond Repayment \$18.600

Grand Total \$132.473 \$75.792 \$76.084

Available Funds after Bond Repayment \$45.400 150% Target of Available Funds (Net of Bond Repayment) \$68.100

^{*}Transport subcommittee of TPAC to recommend program elements with Tualatin-Sherwood Road project as first priority, consideration of the Clackamas County program application and the balance of projects considering geographical distribution of projects.

** Project develoment application: project received a score range based on the score for project elements that could be quantitatively evaluated on a 100 point scale and a weighted score that assigned a quantitative score to evaluation measures that could not be scored based on project performance on evaluation measures that were scored.



Transit Investment Plan

- 5 yr plan, annual updates
- Grounded in the 2040
 Framework Plan and RTP
- Requires partnerships



Priorities

Build the Total Transit System

Community integration, complete transit riding experience

Expand High Capacity Transit

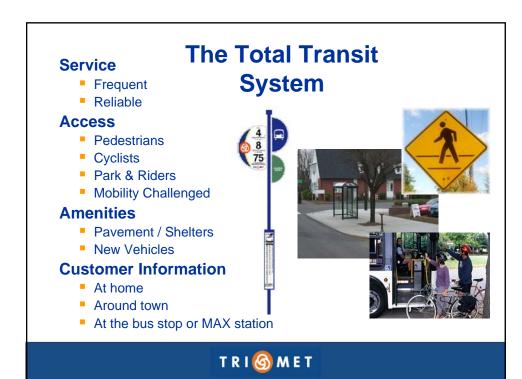
Connecting 2040 centers

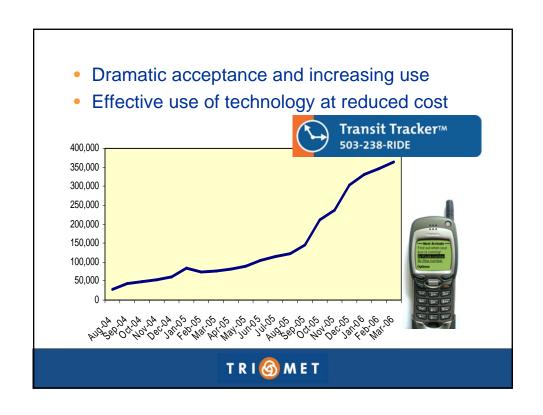
Expand Frequent Service

Frequent, reliable support for centers and corridors

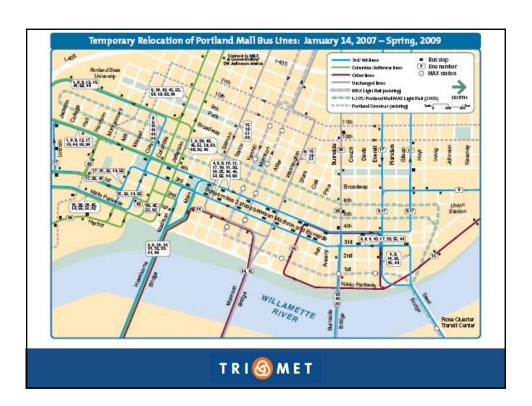
Improve local service

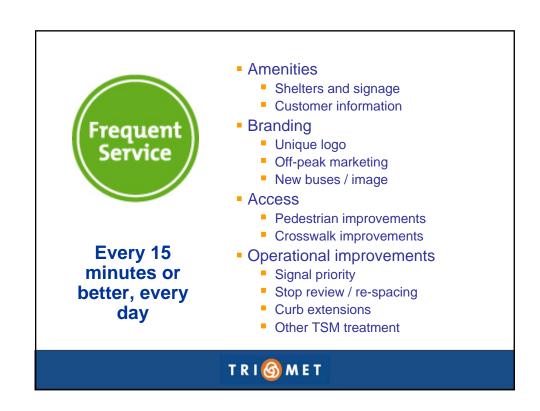
- Support and respond to community needs
- Develop park & ride lots





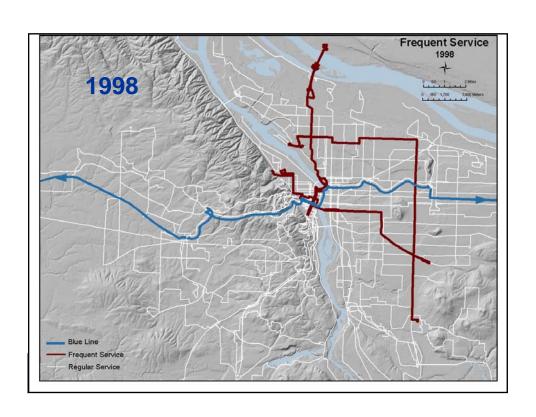


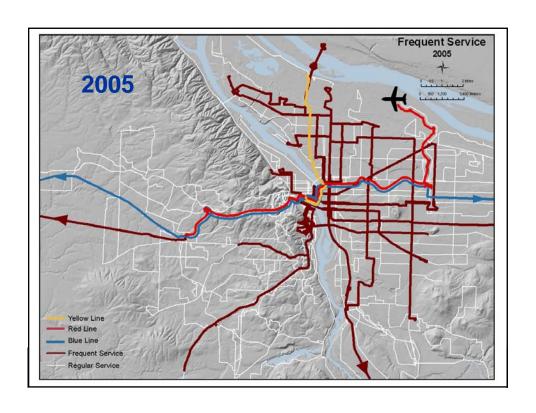




Eight Years of Frequent Service Development

Fiscal Year	1999	2001	2003	2005
Lines	4	9	14	16
Weekly Ridership	210,190	413,880	565,630	686,317
Share of bus rides	18%	34%	47%	55%





Frequent Service Efficiency

	FREQUENT SERVICE	Standard Service
Bus routes	16	78
Boarding rides per vehicle hour	39	25
Operating cost per boarding ride	\$1.94	\$3.04

FY05 Data

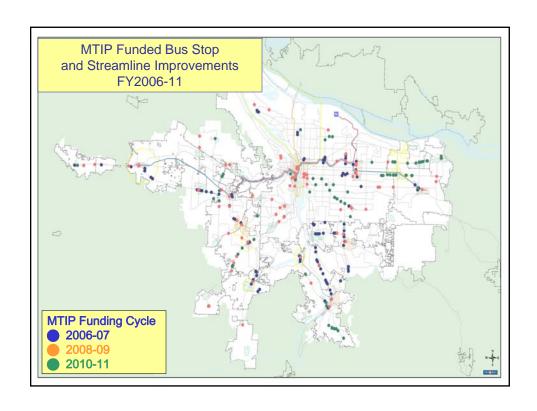
Future Development

- More shelters and solar lighting
- More Frequent Service Lines
 - Line 76 Beaverton / Tualatin
 - Line 31 SE King Road
 - Line 35 SW Macadam Avenue
- Longer hours of service

TRI 6 MET

MTIP Support of the TIP

- Sustain regional rail commitments
 - South Corridor Phases 1 and 2
 - Washington County Commuter Rail
 - North Macadam streetcar
- Continue to develop on-street bus facilities and priority treatments – focused on 2040 Centers and Frequent Bus corridors
- Pedestrian and bike access to transit
- Transit Oriented Development



Making Progress at Bus Stops FY06 to FY11

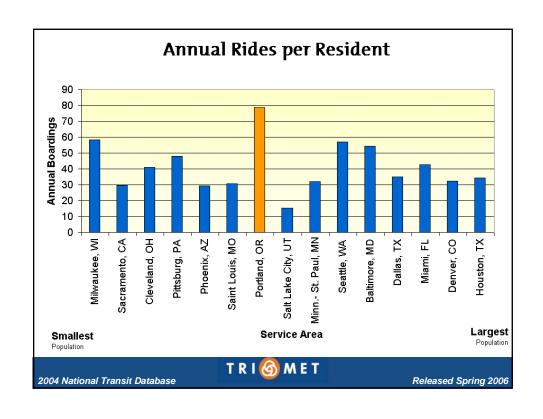
- Fully implemented sign replacement
- 150 new shelters from 22% to 16% shelter deficient – some w/ solar lighting
- Elimination of redundant bus stops speeds up service
- Improved pedestrian connections
- Expanded transit signal priority treatment

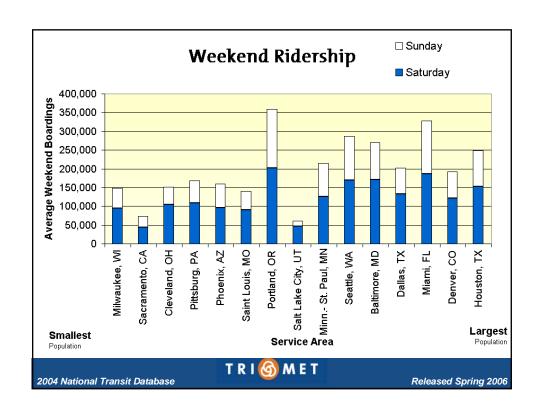


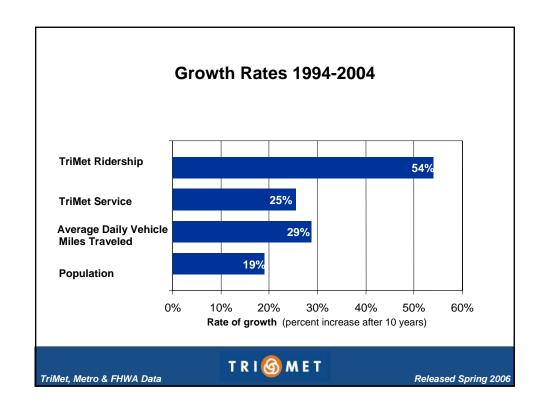
Growing Pains

- How do we sequence and sustain development of the rail system?
- How can we best leverage transit investments to implement the 2040 Growth Concept?
- How do we balance the expansion of services with payroll tax capacity?
- What contingencies should be in place for an energy "crisis"?











Materials following this page were distributed at the meeting.

MOBILITY THE SMART WAY:

THE STATE OF
INTELLIGENT TRANSPORTATION SYSTEMS IN
THE PORTLAND METROPOLITAN REGION

What does an elected official need to know about transportation technology?

Technology is one of the tools in the toolbox for making transportation safer and more efficient.

- Hear what your peers have to say about their success stories.
- Learn what technologies are already generating benefits around Portland and throughout Oregon.
- Find out what you need to know to make good investments in "intelligent transportation systems."

Gail Achterman, a member of the Oregon Transportation Commission, will moderate a panel of your fellow leaders.

Thursday, October 26th: 7:30—9:00am
Oregon Convention Center Room C121
777 NE Martin Luther King Blvd in Portland
Breakfast will be served
FREE!

Your response is requested by Monday, October 16th Please direct RSVPs and questions to: Jon Makler: maklerj@metro.dst.or.us or (503) 797-1873

This event has been made possible by a grant from the Federal Highway Administration's Operations Support Program to the Intelligent Transportation Society of Oregon, a volunteer partnership that supports information sharing, education and outreach regarding transportation technology.





MOBILITY THE SMART WAY:

THE STATE OF
INTELLIGENT TRANSPORTATION SYSTEMS IN
THE PORTLAND METROPOLITAN REGION

Thursday, October 26, 2006
Oregon Convention Center—Room C121
777 NE MLK Blvd, Portland
7:30—9:00am
Breakfast will be served

ACELLEDAY

7:30 - Welcome
Gail Achterman, Oregon Transportation Commission

7:40 - Opening Remarks
Rick Capka, Federal Highway Administration
Sandra McDonough, Portland Business Alliance

8:00 - Presentation Panel
Dr. Robert Bertini, Portland State University
Commissioner Sam Adams, City of Portland
General Manager Fred Hansen, TriMet
State Senator Betsy Johnson, Scappoose
Councilor Rex Burkholder, Metro District 5

9:00 - Adjourn

Can't Make it?

You can download Metropolitan Mobility the Smart Way at www.metro-region.org

For more information

Please contact Jon Makler maklerj@metro.dst.or.us.or.(503) 797-1873

This event has been made possible by a grant from the Federal Highway Administration's Operations Support Program to the Intelligent Transportation Society of Oregon, a volunteer partnership that supports information sharing, education and outreach regarding transportation technology.





New Look at Regional Choices: Integrated Policy Framework

PRINCIPLES:

- All regional growth management and investment decisions should reinforce growth in centers, corridors, and employment areas.
- Within this framework, the region will support and facilitate, when warranted, expansions of the urban growth boundary to develop vibrant new communities and employment areas, while balancing new development with the protection of the region's agricultural industry and important natural areas.
- The policy elements listed below should be viewed as a single integrated strategy.
- This strategy should be pursued through the collaborative efforts of multiple jurisdictions rather than controlled exclusively by the Metro Council.

1. Focus Fiscal Resources and Taxation Tools to Stimulate Development in Centers, Corridors and Employment Areas

- Public and private resources should be channeled into redevelopment and retrofitting of
 existing urban areas to meet changing demographic, employment, urban service and economic
 demands.
- Regional policy and legislative efforts should be directed to the development of new sources
 of financing for development of centers and corridors, as well as to broadening the utility of
 existing funding sources.
- Benefits include neighborhood revitalization, economic development, more efficient land use, more transportation choices, improved air quality, more effective targeting of public infrastructure investments, protection of farmland and natural areas.

2. Coordinate Growth With Neighboring Communities

- Metro should explicitly coordinate with neighboring communities on how to accommodate growth.
- This coordination should inform mutual decisions related to urban reserves, rural/agricultural
 activities, and long-term transportation connections or green belt separations.

3. Base UGB Expansion Decisions on Urban Performance

• Decisions to draw down urban reserves should be based on a reasonable range of population and employment forecasts and tied to efficient development within the UGB. These decisions should reinforce development in centers, corridors, and employment areas.

• The current arbitrary timeline for reevaluating and expanding the UGB should be extended to enable the region to focus more on quality development within the boundary, including making land recently brought into the UGB ready for development.

4. Designate and Plan Urban Reserves

- Urban reserves should be designated in areas that present the best opportunities for urbanization, reinforce existing centers and corridors, and accommodate the need to protect important agricultural land or natural features.
- Concept planning should be completed in urban reserve areas before those areas are brought inside the UGB. The supply of planned urban reserves could then be drawn down for urbanization as needed.
- Designating urban reserves provides direction regarding how to address household and job
 needs over the long term. Over time, this should offer greater predictability for landowners
 and reduce the level of controversy associated with urban growth boundary expansion
 decisions.

5. Designate Areas That Shall Not Be Urbanized

- Metro should work with local governments of the region, neighboring communities, and the state to designate critical agricultural and natural areas as locations where the region will not urbanize.
- The designation of agricultural and natural reserves should link to a commitment to policy tools and financial strategies that reduce urbanization pressures and support successful farming, rural lifestyles, and natural resource protection.

6. <u>Prioritize and Invest in Transportation Improvements that Support Efficient Development and Strengthen the Economy</u>

- The updated Regional Transportation Plan should reinforce the integration of land use and transportation planning and support development in centers, corridors and employment areas.
- This integration is a critical factor in the strategic selection of transportation projects and can reduce the need for costly facilities while improving outcomes for both transportation and community development.
- In recognition of current funding realities, the updated RTP should focus on the transportation investments that are the most strategic, cost-effective, and important from the standpoints of economic development and regional livability.

New Look Regional Roundtable Wednesday, October 25, 2006 Oregon Convention Center, C 123-124

5:00 – 5:30 pm	Buffet Dinner
5:15 – 5:30	Welcome Richard Kidd, Chair, MPAC and Mayor, City of Forest Grove Rex Burkholder, Chair, JPACT and Metro Councilor
5:30 – 5:45	A Regional Agenda: An Integrated Policy Framework David Bragdon, Metro Council President
5:45 – 6:00	The Case for Change Mike Gleason, The Gleason Group
6:00 - 6:45	What's Your View about the Integrated Policy Framework? Facilitated Roundtable Discussions
6:45 - 7:45	Building a Regional Agenda: How Do We Implement 2040? Facilitated Group Discussion, Mike Gleason, Facilitator
7:45 – 8:00	Next Steps David Bragdon

600 NORTHEAST GRAND AVENUE TEL 503 797 1700

PORTLAND, OREGON 97232 2736 FAX 503 797 1794



DATE: October 12, 2006

TO: JPACT and Interested Parties

FROM: Ted Leybold, MTIP Manager

SUBJECT: Transportation Priorities 2008-11 – Metro Staff and TPAC

Recommended First Cut Lists

* * * * * * :

The following change to the summary of the TPAC recommendation has been requested by ODOT staff. This change will be reflected in the final version of the recommendation as accepted by JPACT.

TPAC Action

Following are changes to the Metro staff recommendation developed by TPAC at its meeting on September 29th. The following summarizes the policy rational as provided at the TPAC meeting and summaries. Attached to this memo is a summary sheet of the project applications.

Road Capacity

9. TPAC recommended a policy review of the role of Transportation Priorities funding on highway projects and potential partnerships with ODOT and other interested parties. prior to the final cut of projects next spring. The Highway 217: B-H Hwy to Allen Environmental Assessment project should be considered at that time for consistency with the JPACT policy discussion. in the context of a potential partnership with ODOT and other interested parties.

Transportation Priorities 2008-2011

Summary of Candidate Applications

Project	Summary of Candidate A	Funding		Metro Staff	TPAC
code	Project name	request	Technical Score	Recommend- ation	Recommend- ation
Bike/Trail			1	ı	
Bk1126	NE/SE 50s Bikeway: NE Thompson to SE Woodstock	\$1.366	78	х	x
Bk1048	Willamette Greenway Trail: SW Gibbs - SW Lowell	\$1.800	72	х	
Bk5026	Trolley Trail: Arista St Glen Echo	\$1.875	65	x	x
Not in RTP	NE/SE 70s Bikeway 70s: NE Killingsworth - SE Clatsop	\$3.698	65		x @ \$1.8
Bk3012	Rock Creek Path: Orchard Park - NW Wilkins	\$0.600	64	x	x
Bk4011	Marine Drive Bike Facility Gaps: NE 6th - NE 185th	\$1.873	61		
N/A Bk3014,	Sullivan's Gulch Trail: Esplanade - 122nd Ave	\$0.224	**(50-85) 77	x	x
3072,				x	x
	Westside Corridor Trail: Tualatin River - Willamette River	\$0.300	**(39-94) 87	x	x
	Milwaukie - Lake Oswego Trail (PE)	\$0.583	**(59-74) 69	^	^
Bk5193	Willamette Falls Dr: 10th St - Willamette Dr	\$2.987	48		
Bk3114	NE 28th Ave: NE Grant - E. Main St (PE)	\$0.300	**(40-55) 47		
Boulevard	Subtotal	\$15.606		\$6.748	\$6.748
Bd3169	Fact Pagalina Street (Cornalius): 10th Avg. 10th Avg.	¢2 221	96	x	x
Bd3169	East Baseline Street (Cornelius): 10th Ave - 19th Ave East Burnside: 3rd Ave - 14th Ave	\$3.231 \$4.700	93	x	X
Bd5134	McLoughlin Blvd: Clackamas River - Dunes Drive	\$2.800	91	х	х
Bd2015	NE 102nd Avenue: NE Glisan - NE Stark	\$1.918	90	х	х
Bd2104	SE Burnside: 181 Street - Stark Street: PD	\$1.500	90	x	x @ \$.3
D44004	Killingsworth, N. Commoraid, NE M. K. Ir Dhyd	¢4 055	9.4	х	х
Bd1221 Bd3020	Killingsworth: N Commercial - NE MLK Jr Blvd Rose Biggi extension: Crescent St Hall	\$1.955 \$5.387	84 78		
		•			
Bd6127	Boones Ferry Road: Red Cedar Way - S of Reese Road Subtotal	\$3.491 \$24.982	78	\$16.104	£4.4.00.4
Diesel Retro		φ <u>24.302</u>		\$10.104	\$14.904
DR8028	Transit Bus Emission Reduction: Metro Region: 266 buses	\$1.800	83	х	х
DR8028	Transit Bus Emission Reduction: Metro Region: 59 buses	\$0.700	83	x	
DR0001	Sierra Cascade SmartWay Technology: Metro Region	\$0.200	76	х	x
	Subtotal	\$2.700		\$2.700	\$2.000
Freight			T	<u> </u>	
Fr4044	82nd Ave/Columbia Intersection Improvement	\$2.000	86.75	х	X
Fr0002	Portland Road/Columbia Blvd Intersection	\$0.538	**(66.25-91.25) 88	x	x
Fr0001	N Burgard/Lombard: N Columbia Blvd- UPRR Bridge	\$3.967	70		
110001	Subtotal	\$6.506	70	\$2.538	\$2.538
Green Stree	ts Culvert				
005040	OD 00 5 Deidne et Kelle verlede	#4.055	400	x	x
GS5049	OR 99-E Bridge at Kellogg Lake Subtotal	\$1.055 \$1.055	100	\$1.055	\$1.055
Green Stree		V 11000		¥ 11333	ψσσ
GS1224	Cully Boulevard: NE Prescott - NE Killingsworth	\$3.207	77.50	х	x
GS6050	Main Street: Rail Corridor: Hwy 99E (Tigard)	\$2.540	72	x	x
	Subtotal	\$5.747		\$5.747	\$5.747
Large Bridg					
RR1010	Morrison Bridge: Willamette River (Portland)	\$2.000	75.75	х	х
Pedestrian	Subtotal	\$2.000		\$2.000	\$2.000
		A-			v
Pd2057	Hood Street: SE Division Street - SE Powell Blvd	\$0.887	90	X	×
Pd1160	Foster Woodstock: SE 87th St - SE 101 St	\$1.931	87	X	X
Pd5052	SE 17th Ave: SE Ochoco - SE Lava Drive	\$1.655	82	X	X
Pd1120	Sandy Blvd Ped Improvements: NE 17 - NE Wasco St	\$0.712	70		
Pd6007	Hall Blvd Bike/Ped crossing study: Fanno Creek trail and Hall	\$0.359	**(40-80) 67	х	х
Pd6117	Pine Street: Willamette St - Sunset Blvd	\$1.100	47		<u> </u>

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UPDATED 10/11/06

Transportation Priorities 2008-2011

Summary of Candidate Applications

Project code	Summary of Candidate A Project name	Funding request	Technical Score	Metro Staff Recommend-	TPAC Recommend-
Planning		request		ation	ation
Pl0006	MPO Program: Metro Region	\$1.993	n/a	x	x
PI0005	RTP Corridor Project: Metro Region	\$0.600	n/a	х	х
PI0002	Livable Streets Guidebook Update: Metro Region	\$0.200	n/a	х	x @ \$.250
Pd8035	Pedestrian Network Analysis: Metro Region	\$0.247	n/a	х	x @ \$.125
PI0003	Tanasbourne Town Center Planning Study: Hillsboro	\$0.200	n/a	х	
PI0001	Rx for Big Streets: Metro Region 2040 corridors	\$0.250	n/a	х	
PI0004	Hillsboro RC Planning Study: Hillsboro	\$0.350	n/a	х	X
Danianal Tr	Subtotal	\$3.840		\$3.840	\$3.318
	avel Options		, , , , , , , , , , , , , , , , , , ,		<u> </u>
n/a	Regional Travel Options: Metro Region	\$4.447	n/a	X	X
n/a	RTO Individualized Marketing Program: Metro Region (Add)	\$0.600	n/a	Х	x @ \$.400
n/a	RTO New TMA Support: Metro region (Add)	\$0.600	n/a	х	x @ \$.200
	Subtotal	\$5.647		\$5.647	\$5.047
Road Capac	sity			l	
RC5069	Harmony Road: 82nd Ave - Highway 224	\$1.500	84.50	х	Х
RC3030	Farmington Road: SW Murray Blvd - SW Hocken Ave	\$4.284	80.75	X	X
RC3016	Tualatin-Sherwood Road ATMS: 99W - SW Teton Rd	\$1.561	77.00	X	
RC3113	SE 10th Ave: East Main Street - Baseline	\$0.600	76.25	X	X
RC7036	SE 190th Dr: Pleasant View/Highland - SW 30th St	\$3.967	75.50		X
RC5101	Clackamas County ITS: Clackamas County	\$0.592	n/a	X	
RC0001	ITS Programmatic Allocation: Metro Region	\$3.000	n/a	х	x @ \$3.5*
RC3023	Highway 217 E: Beaverton Hillsdale Hwy - SW Allen Blvd	\$0.500	*(*50-85) 74	х	x
PI0007	Happy Valley Town Center Arterial Street Planning	\$0.432	n/a	х	Х
RC7000	SE 172nd Ave: Multnomah Co line - Sunnyside Rd	\$1.500	69.50		
RC3150	Cornell Road ATMS and ATIS: Hillsboro - US 26	\$2.002	67.75		
RC2110	Wood Village Blvd: NE Halsey St - NE Arata Rd	\$0.643	61.50		
RC3192	Sue/Dogwood Connection: NW Dale - NW Saltzman	\$3.455	30.25		
1100102	Subtotal	\$24.035	00.20	\$12.469	\$14.783
Road Recor	nstruction				
			79		
RR1214	Division Street: SE 6th St - 39th St	\$2.000			
RR2081	223rd RR under-crossing at Sandy Boulevard	\$1.000	76		X
Transit	Subtotal	\$3.000			\$1.000
Transit					
Tr1106	Eastside Streetcar: NW 10th - NE Oregon	\$1.000	80	х	X
Tr8035	On-Street Transit Facilities: Metro Region	\$2.750	74	х	X
Tr1003	South Corridor Phase 2: (PE)Portland - Milwaukie	\$2.000	**(85-100) 100	Х	x
Tr8025	Tigard Transit Center: SW Commercial St (Tigard)	\$0.160	**(33-68) 55	x	X
Transit Ori	Subtotal Payalonment	\$5.910		\$5.910	\$5.910
	nted Development				
TD8005a	Metro TOD Implementation Program: Metro Region	\$4.000	97	X	X
TD8005b	Metro Centers Implementation Program: Metro Region	\$2.000	** (82-97) 96	X	X
TD8025	Hollywood Transit Center: NE Halsey and NE 42nd St	\$0.202	** (80-95) 94	x	X
	Subtotal	\$6.202		\$6.202	\$6.202

Bond Repayment \$18.600

Grand Total \$132.473 \$75.792 \$76.084

Available Funds after Bond Repayment 150% Target of Available Funds (Net of Bond Repayment)

\$68.100

\$45.400

^{*} Transport subcommittee of TPAC to recommend program elements with Tualatin-Sherwood Road project as first priority, consideration of the Clackamas County program application and the balance of projects considering geographical distribution of projects.

^{**} Project develoment application: project received a score range based on the score for project elements that could be quantitatively evaluated on a 100 point scale and a weighted score that assigned a quantitative score to evaluation measures that could not be scored based on project performance on evaluation measures that were scored.



CITY OF LAKE OSWEGO

October 10, 2006

Metro Councilor Rex Burkholder, District 5, IPACT Chair Joint Policy Advisory Committee on Transportation Metro 600 NE Grand Avenue Portland, OR 97232

Dear Councilor Burkholder:

The City of Lake Oswego applied for a Metropolitan Transportation Improvement Program grant in June, 2006, for Boones Ferry Road Improvements - Lake Oswego Corridor (RTP Project No. 6127). According to the Draft Technical Rankings for Boulevard Projects, our project scored very low. We have been informed that there are no remaining opportunities to amend or clarify our application at this time; however, we would like to take this opportunity to give more explanation to some of the qualitative factors that have significant bearing on the project to this community. Some quantitative factors need to also be clarified.

First of all, it is important to state that this area is designated a Town Center, a Main Street and a Transit Corridor according to Metro's design types. These have been incorporated into Lake Oswego's Comprehensive Plan as well. Our goal with respect to this area is to greatly improve the multi-modal function of the town center while maintaining the viability of the existing businesses that are here.

- This Boulevard will ultimately have 9-12 foot sidewalks plus required private property active use at the sidewalk of five feet (Att. 1), per the Lake Grove Village Center Plan and zoning.
- This project would result in significant improvements to the pedestrian, bike and transit system in this corridor.
- There are currently no bike lanes (Att. 2). This project adds bike lanes.
- There is currently one pedestrian crossing in this 2000 foot stretch of Boones Ferry. This project would add two additional crossings (Att. 3). The center landscaped median will provide pedestrian refuge for crossing as well as slow traffic. While integral to the design, it is also flexible in width to accommodate existing conditions. (Att. 4)
- Current sidewalk conditions include areas of 4 and 5 foot sidewalks and dangerous gaps in sidewalks through parking lot aisles and maneuvering areas. This project resolves those impediments.
- This project reduces travel lane widths from 12 feet to 11 feet.

380 "A" AVENUE POST OFFICE BOX 369 LAKE OSWEGO, **OREGON 97034** (503) 635-0213 FAX (503) 697-6594 MAYOR@ci.oswego.or.us

> JUDIE HAMMERSTAD. MAYOR

> > GAY GRAHAM, COUNCILOR

JACK HOFFMAN, COUNCILOR

> ELLIE MCPEAK, COUNCILOR

FRANK GROZNIK. COUNCILOR

LYNN PETERSON. COUNCILOR

> JOHN TURCHI, COUNCILOR



- This request is Phase II of completing the Boulevard treatment along Boones Ferry. The first is a \$1.6 million City-funded demonstration project that will show how this treatment will work and will be completed in 2007.
- This corridor is, and will continue to be, the center of public and private investment in the Lake Grove Village Center (Att 5).
- The City recently purchased the \$20 million Safeco Property in the Lake Grove Village Center. A citizen committee will recommend a preferred design in early 2007. This project will provide an important neighborhood anchor for this area.
- The City is completing a \$350,000 overlay of Boones Ferry in 2007.
- The Lake Grove Village Center Plan proposes a range of investments shown on the attachment including public parking, a village commons, pedestrian connections to the surrounding neighborhoods and gathering places, and proposes a TIF district.
- Private proposals have been submitted to the City for review in the past two months including a senior housing project and a commercial/ housing project.
- The social, economic and land use benefits of this area are of enormous importance to the businesses and residents of the entire west end of the community. The City's commitment to this area is exemplified in the match that it will commit to this request as well as the \$1.6 million in funding that has been allocated to the demonstration project for the boulevard treatment in 2007.

There are other reasons as well, that I encourage JPACT to approve this project. This is the third year that Lake Oswego has submitted a request for funding for Boones Ferry Road in order to enhance multi-modal transportation and business activity. This is the third year that our technical rankings have not resulted in promoting this project to the funding category. Several years ago, we also proposed funding for a three block boulevard treatment to our downtown Town Center and were not selected. Yet today, Metro and other groups brings busloads of planners, elected officials and business people to tour this City-funded project, as an example of how to provide an active, vibrant, pedestrian oriented streetscape. If viable projects in smaller town centers, along main streets and transit corridors, cannot compete for funding in this arena, as a region we need to develop more inclusive or different criteria.

Page 3

Letter to JPACT, RE: Boones Ferry Boulevard Project

I look forward to discussing our project at the October 12 JPACT meeting.

Sincerely,

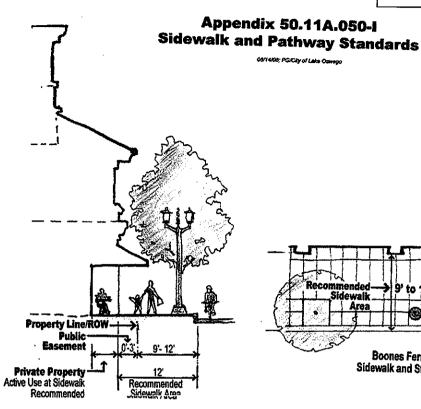
Judie Hammerstad

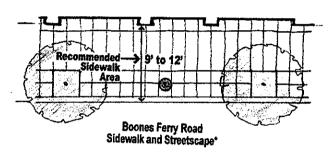
Mayor

Cc: Lake Oswego City Councilors

Doug Schmitz, City Manager

08/14/00; PG/City of Lake Osmogo





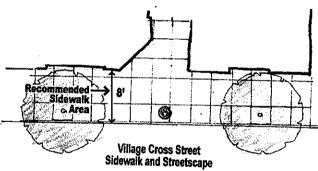
Section Boones Ferry Road Sidewalk and Streetscape*

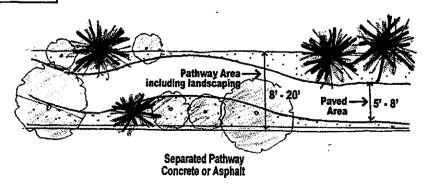
* Cross reference Boones Ferry Typical Mid-block Street Section (Appendix 50.11A.050-E, page A-22) and Boones Ferry Typical Signalized Intersection Street Section (Appenddix 50.11A.050-F, page A-22).

Notes:

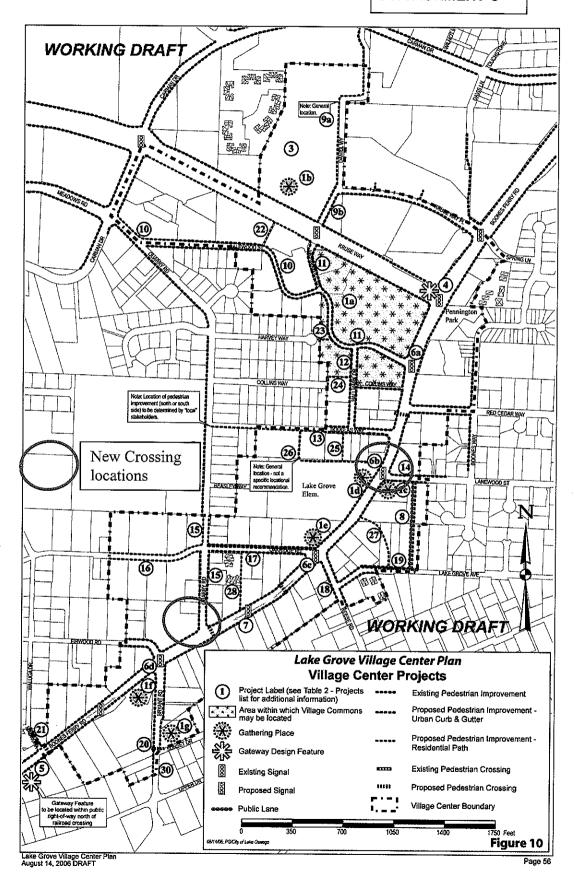
Final widths for pathway area or sidewalk area inclusive of right-of-way and public easement to be determined by City Engineer.

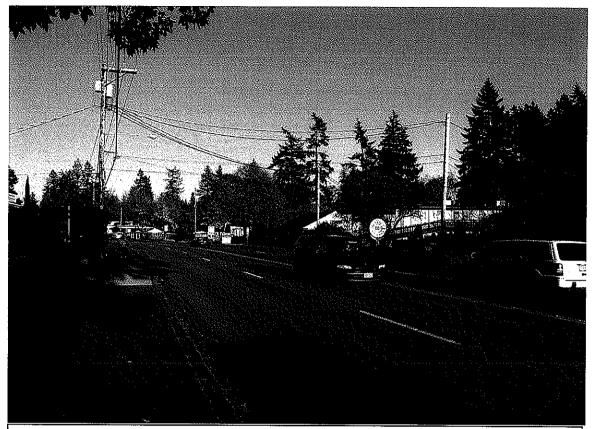
Green street features at Lake Grove School and other locations to be determined by City Engineer.



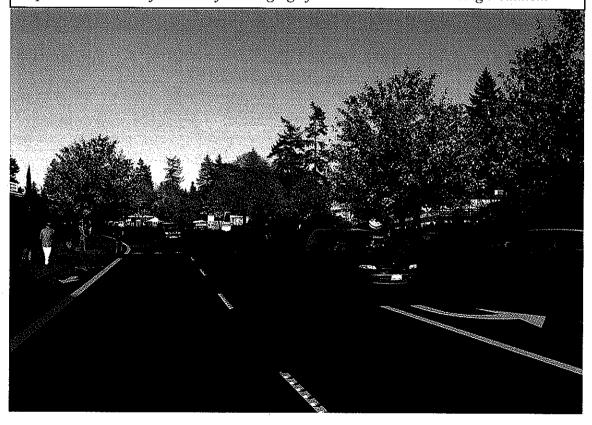








Top: Sidewalk in foreground in auto maneuvering area
Top and bottom: Before and after imaging of median/bike lane/crossing treatment



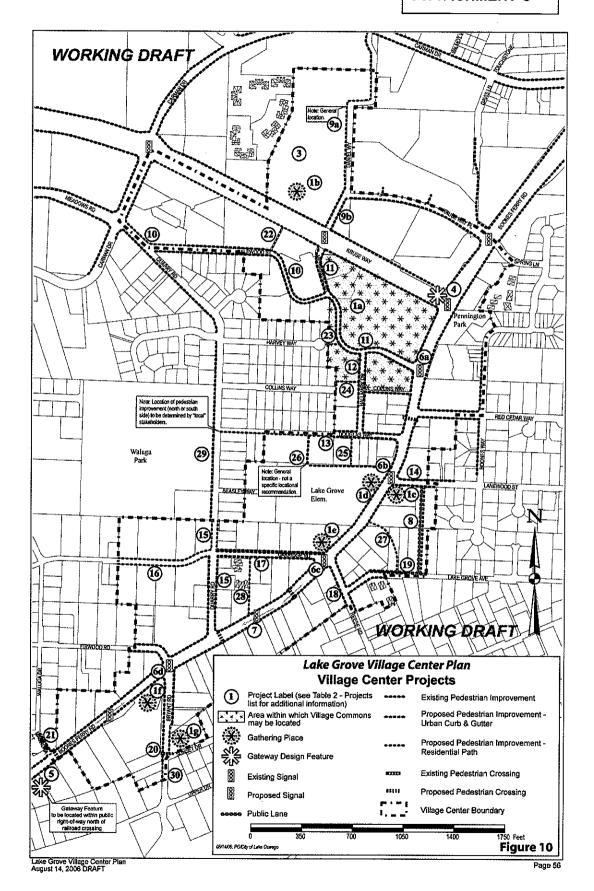


Table 2. Village Center Projects and Prioritization

	te Print agente, Nageri	Estimated	Cooti	
Project	Priority	(Range)	化催化洗涤剂 郭大石 化	Comments
Village Center Features				
Village Commons and Gathering Places: a. Viliage Commons (Mercantile Village area) – core, larger scale; hardscape and greenscape areas, with natural water feature b. Gathering Place - NW of Kruse Wy/Daniel Wy (current Safeco site); greenscape c. Gathering Place - SE of Boones Ferry Rd/Lanewood St (current Pacific Lumber site); hardscape d. Gathering Place - W of Boones Ferry Rd across from Lanewood (south of Lake Grove School driveway); hardscape and greenscape e. Gathering Place - NW of Boones Ferry and Oakridge (current Post Office site); hardscape and greenscape				
f. Gathering Place - On either side of Boones Ferry Rd between two new pedestrian crosswalks to be located between Oakridge and Quarry Roads; hardscape and greenscape g. Gathering Place - SW of Boones Ferry and Bryant (current Bank of America/Wizer's site); hardscape h. Gathering Place - NE of Bryant and Sunset (current Lake Grove Fire Station site); greenscape	4	1,000,000 - 2,0	000,000	
2. Public parking - Site and develop three lots/facilities, as opportunities for site acquisition arise, distributed throughout the three areas of the village center: a. North, b. Central, c. South.	HIGH	120,000 - 18	0,000	40-120 spaces ² @\$3,000 space
 Site and develop a community facility (e.g. recreation center, satellite library, swim club) - identify public-private partnership opportunities on Safeco parcel. 	HIGH	-		
4. Gateway feature at Kruse Wy. and Boones Ferry Rd in public ROW	MEDIUM	20,000 - 20	,000	
5. Gateway feature at Boones Ferry Rd north of RR crossing - in public ROW	MEDIUM	20,000 - 20	,000	
	TOTAL;	1,160,000 - 2,2	220,000	
Street and Alley Improvements	l de la companya de			
 Boones Ferry - Corridor Improvements (Kruse to Madrona) - including pedestrian amenities, landscaped medians, bikeways, intersection improvements, signals and mid-block pedestrian crossings.^{3,4} 	HIGH	5,000,000 - 10	,000,000	
a. Mercantile intersection	LOW			
b. Lanewood intersection	MEDIUM			
c. Reese-Oakridge intersection	HIGH			
d. Bryant-Firwood intersection	MEDIUM			
7. New Signal / Crossing for pedestrians and vehicles at Boones Ferry between Reese and Bryant ⁵	HIGH	220,000 - 25	0,000	
New Alley- north/south between Lake Grove Ave. & Lanewood St., including separated pedestrian facility.	MEDIUM	60,000 - 90	,000	600 lineal feet (@\$100-150/l.ft)
	TOTAL:	5,280,000 - 10	340,000	
Pedestrian Improvements (On Street)				
9a. Upon redevelopment of Safeco site, incorporate "residential" path linking site with VC and neighborhoods to north.	MEDIUM	57,750 -	110,880	1,155 lineal feet (@\$50-96/Lft)
9b. Daniel Way - "urban" curb and gutter between Kruse Wy Place and Kruse Wy.	LOW	14,000 -	26,880	280 lineal feet (@\$50-96/l.ft)
10. Galewood/Quarry - "urban" curb and gutter along curve at west end. Curb and gutter existing on south side, partially on north.	LOW	25,000 -	48,000	Siting may be difficult due to trees. 500 lineal feet (@\$50-96/l.ft)
11. Mercantile Drive - "urban" curb and gutter to complete west/south side (west side existing between Kruse & Hallmark, except portion in front of Caldwell Banker bldg.) and all of east/north side.		82,500 -	158,400	1,650 lineal feet (@\$50-96/l.ft)

12. Hallmark Drive - "urban" curb and gutter west side north of Collins Wy			İ	
to Mercantile Dr.	LOW	10,000 -	19,200	200 lineal feet (@\$50-96/l.ft)

Table 2. Village Center Projects and Prioritization (continued)

Dealers.		Estimated Cost ¹	
Project	Priority	(Range) in \$	Comments
Pedestrian Improvements (On Street)	Esse Paragraphic Section 1		
13. Douglas Way - "urban" curb and gutter both sides from BF to edge of VTA, where missing. "Residential" path west of VTA in residential area			Location to be determined by stakeholders
on one side only.	HIGH	92,500 - 177,600	1,850 lineal feet (@\$50-96/l.ft)
14. Lanewood Street - "urban" curb and gutter to complete south side to edge of VTA and to complete north side to edge of GC.	MEDIUM	15,000 - 28,800	300 lineal feet (@\$50-96/i.ft)
15. Quarry Road - north of Oakridge, "residential" path upon redevelopment adjacent to 3 parcels of VTA/R-0 on east, "residential" path adjacent to new town homes on west; south of Oakridge on east side - "urban" curb and gutter.	MEDIUM	36,250 - 69,600	725 lineal feet (@\$50-96/l.ft)
16. Oakridge Road, west of Quarry - north and south.	LOW	64,000 - 122,880	1,280 lineal feet (@\$50-96/l.ft)
17. Oakridge Road, east of Quarry - south side "urban" curb and gutter. "Residential" path already existing on north side - upon redevelopment, "urban" curb and gutter.	MEDIUM	68,750 - 132,000	1,375 lineal feet (@\$50-96/l.ft)
18. Reese Road - continue "urban" curb and gutter on west side to edge of VTA boundary. Already existing on east side.	MEDIUM	3,750 - 7,200	75 lineal feet (@50-96/l.ft)
19. Lake Grove Avenue - "urban" curb and gutter north side adjacent to east VTA parcels, transition to "residential" path adjacent to R-0 (currently exists but is inconsistent adjacent to R-0 and eastern portion of VTA).	LOW	16,500 - 31,680	330 lineal feet (@\$50-96/l.ft)
20. Bryant Road - "urban" curb and gutter west side from Boones Ferry to edge of VTA, then transition to "residential" path south (adjacent to R-3); east side transition to "residential" path in front of Lake Grove Fire Station south to Sunset Dr.	FIIGH	41,250 - 79,200	
21. Madrona at Boones Ferry - "urban" curb and gutter on east side.	LOW	7,500 - 14,400	825 lineal feet (@\$50-96/l.ft)
-1. Madiona at Bookes t city - dibait cuib and guiter on east side.			150 lineal feet (@\$50-96/l.ft)
Pedestrian Improvements (Off Street) ⁶	TOTAL:	534,750 - 1,026,720	Particular in the APA To the tell, one feath of i
22. Kruse Wy. to Galewood St.	LOW	0.500 40.000	
2. Muse wy. to dalewood St.	LOW	8,500 - 16,320	170 lineal feet (@\$50-96/l.ft)
23. East end of Harvey Way to Mercantile Drive	LOW	5,000 - 9,600	No sidewalk on Harvey 100 lineal feet (@\$50-96/l.ft)
24. East end of Collins Wy. to Hallmark Dr.	LOW	10,000 - 19,200	No sidewalk on Collins 200 lineal feet (@\$50-96/l.ft)
25. Douglas Way south to school driveway	MEDIUM	8,750 - 16,800	175 lineal feet (@\$50-96/l.ft)
26. Lake Grove Elem safe pedestrian connections from Douglas Wy and Boones Ferry Rd.	MEDIUM	40,000 - 76,800	800 lineal feet (@\$50-96/l.ft)
77. Lake Grove Ave. to Boones Ferry Rd.	LOW	21,500 - 41,280	430 lineal feet (@\$50-96/l.ft)
8. Oakridge Rd. to Boones Ferry Rd.	LOW	19,000 - 36,480	380 lineal feet (@\$50-96/l.ft)
VV	TOTAL:	112,750 - 216,480	
Sicycle & Transit Improvements	wij de kalandi		
 Bike ways⁷ on Quarry Road. Could include project/study to letermine safe ped. and bike access on Quarry Rd, cost not shown. 	LOW	96,000 - 192,000	3,200 lineal feet (@\$30-60/l.ft)
0. Bike ways ⁷ on Bryant Road	LOW	48,000 - 96,000	1,600 lineal feet (@\$30-60/l.ft)
11. Bus stop shelters - 5 new shelters on Boones Ferry, where appropriate	LOW	65,000 - 65,000	\$13,000 per shelter
	TOTAL:	209,000 - 353,000	
	TOTAL:	7,296,500 - 14,156,200	

Notes:

^{1.} Estimates are for comparison purposes and are rough estimates; are for improvement costs only and do not include right-of-way or property acquisition costs.

2. Assume 325 sq. ft. per space (including drive aisle, landscaping, etc.). Cost per space goes down to \$2,000/space for 100 or more spaces.

- Cost range based on type of materials and amenities. Basic pedestrian amenities include sidewalks, pedestrian-scale lighting, street trees and other landscaping. Additional amenities may include recessed lighting, hanging baskets/banners, street furniture.
 Does not include cost for right-of-way acquisition and engineering (estimated at \$3,000,000).
 New signal in conjunction with driveway consolidation, shared access and parking lot connections on north and south sides of Boones Ferry.

- 6. Pedestrian ways assume an 8' wide path. 7. Bike ways may include bike lanes, shared path or shared roadway.



October 11, 2006

Dear Metro Council:

Alpha Community Development urges the Council to reinstate the MTIF funding for 190th improvements in Gresham. The development of this strategic roadway will enhance and promote the development of neighborhood and commercial centers, employment and rooftops for the future residents. This is not an "only" project for Gresham, but for the regional demands of Damascus, Happy Valley, and Clackamas County.

An improved 190th will be the major north-south regional connection for the East Counties area. Lending your support to fund this crucial roadway for the development of Pleasant Valley, Damascus, and North Clackamas County will release millions of dollars of land value and revenue into future funding streams for employment centers, parks, and neighborhoods that will provide a sense of place.

We urge you to be a legacy. Be wise in your forward-looking vote and include 190th in the MTIF proposal.

Sincerely,

Alpha Community Development New Community Planners and Engineers for Orenco Station, Villebois, Bethany Village, Fairview Village

9600 SW Oak, #230 Portland, OR 97223 [T] 503.452.8003 [F] 503.452.8043

www.AlphaCommunity.com

The Honorable Rex Burkholder, Metro Councilor Chair, Joint Policy Advisory Committee on Transportation (JPACT) 600 NE Grand Ave. Portland, OR 97232

RE: Pleasant Valley and 190th St. Improvements

Chair Burkholder, Members of JPACT:

The Pleasant Valley UGB expansion area is a priority for economic development in the City of Gresham and Multnomah County. Currently, developers in the Pleasant Valley Expansion Area hold more than 150 acres of land and the City of Gresham has annexed over 540 acres of property into the city. Pleasant Valley is regarded as Gresham's best opportunity for measured, well-planned residential community growth. However, without significant regional investment in 190th St., connecting Pleasant Valley to the City of Gresham, the progress made in Pleasant Valley is in serious jeopardy.

JPACT places a priority on UGB expansion areas with a completed concept plan. The City of Gresham has finished a concept plan and is attempting to finish a master plan for the area in order for development to begin. In addition to the work staff has completed, a Memorandum of Understanding (MOU) between the City of Gresham and three residential developers representing nearly 120 acres of developable property is nearing completion. The agreement will provide \$25 million worth of infrastructure improvements, including major offsite sewer, transportation and storm water projects.

Enter 190th St. and Metro. While private development will complete significant frontage improvements to 190th and offsite improvements to intersections throughout the area of impact, an additional investment of \$3.5 million is necessary in order to complete all needed improvements. This includes a fully capable five-lane street with integrated "green street" components and a functional passage from new development to existing development. The City of Gresham has stated they do not have the ability to pay for these critical connection improvements and the developers cannot carry additional costs up and over the \$14 million in pre-development infrastructure costs associated with these projects and remain profitable.

The City of Gresham's application for this project is critical to the completion of the proposed MOU. The un-funded shortfall currently holding up the MOU would grow by at least \$3.5 million if JPACT removes this project from its list for consideration. An increase of this magnitude would surely doom the MOU and any near term development in Pleasant Valley.

Keeping Gresham's 190th St. application as part of JPACT's initial recommendation for funding will allow the City to leverage more than \$14 million of initial private investment from the three undersigned companies. We are committed to Pleasant Valley and believe that a special community can grow from the Pleasant Valley Expansion Area. Without your partnership in this venture, Pleasant Valley is likely to languish without significant infrastructural improvement for the foreseeable future.

Sinceleik

Henry Gerhard

Vice President, Acquisition & Development

Pacific Lifestyle Homes

Designing A Regional Transportation System

Highway 217 serves as the major north-south corridor in eastern Washington County, and serves residents and workers in 6 metropolitan area counties with direct access to their work places. The Highway currently handles 110,000 vehicles per day, a number that is expected to increase to 140,000 by 2030. Where are all these vehicles coming from? And where are they all going?

Washington County Residents Working In Clark County	\rightarrow	2,016 5,604	→	Clark County Residents Working In Washington County
Washington County Residents Working In Clackamas County	>	12,789 19,590	→	Clackamas County Residents Working In Washington County
Washington County Residents Working In Marion County	\rightarrow	1,541 4,598	→	Marion County Residents Working In Washington County
Washington County Residents Working In Multnomah County	\rightarrow	52,610 32,587	→	Multnomah County Residents Working In Washington County
Washington County Residents Working In Yamhill County	\rightarrow	1,922 6,653	→	Yamhill County Residents Working In Washington County
Washington County Residents Working In Columbia County	→	N A 2,191	→	Columbia County Residents Working In Washington County
Washington County Residents Wh Commute To Metro Area Counties		70,878 71,223	→	Metro Area Residents Who Commute To Work In Washington County

Source: Work Source Oregon, July 2005

Statewide Vehicle Registration Trends (1975 - 2005)

Year (December 31)	Statewide Population	Registered Passenger Vehicles	Net Increase (Prior date-12/31/04	Monthly Increase In Vehicle Counts	Daily Increase In Vehicle Counts
2004	3,582,600	3,153,327		TOTAL COUNTS	THE VEHICLE COUNTS
2000	3,421,399	2,979,471	173,856	3,622,00	120.73
1995*	3,131,500		490.573		
1990	2,842,321		781,210	110 12:00	155.00
1975*	2,326,000	365,847	2,787,480	8,010.00	

Countywide Vehicle Registration Trends (1975 - 2005)

			·			
Year (<u>December 31)</u>	County <u>Population</u>	Registered <u>Passenger Vehicles</u>	As a % of Statewide Totals	Net Increase (Prior date-12/31/04	Monthly Increase In Vehicle Counts	Daily Increase In Vehicle Counts
Clackamas Co	ounty			, , , , , , , , , , , , , , , , , , , ,		m tomolo counto
2004*	356,718	311,922	9.89			
2000	338,391	291,270		20,652	430.25	14 24
1995*	306,819			39,213	363.00	14.34 12.10
1990	278,850			73,206	435.75	14.52
1975*	204,000	31,309	8.55	280,612	806.35	26.87
Multnomah Co	ounty					
2004	686.357	505,168	16.02		<u> </u>	
2000	660,486	497,486		7,682	160.00	5.33
1995	620,145	454,312	17.06		470.88	15.69
1990	583,887	412,318	17.38		552.67	18.42
1975	558,658	76,199	20.82	428,969	1,232.66	41.08

Washington County

2004	480,896	377,002	11.95			
2000	445,342	346,133	11.62	30,869	643.00	04.40
1995*	365,333	289,068	10.85	87,934	814.20	21.43
1990	311,554	245,550	10.35	131,452	782.40	27.14
1975*	201,890	29,466	8.05	347,536	998.66	26.08 33.28

Sources: Oregon Dept. of Motor Vehicles (Vehicle Registration Data)

Oregon Blue Book (Population Census Data)

Population Research Center Portland State University

* Mid-term estimates based on 10 year census data



TO:

JPACT

FROM;

Scott Bricker, TPAC Citizen Member

SUBJECT:

MTIP First Cut List - TPAC Bike Resolution

DATE:

October 12, 2006

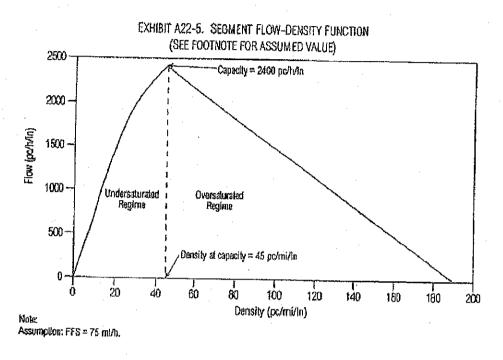
On September 29th TPAC passed its MTIP first cut list. The list includes a motion that passed 10 - 3 to add the 70's Bicycle Boulevard project (at \$1.8 million) and remove the Willamette Greenway Trail (\$1.8 million). Both are City of Portland projects; the motion caused no net increase in cost.

I am urging JPACT to retain TPAC's recommendation in the Bike/Trail category. As a citizen representative, I work to ensure funds are used strategically; as a bicycle and pedestrian advocate I focus primarily on details of bicycle and pedestrian funds. The table below briefly outlines why JPACT should retain TPAC's recommendation to remove the Willamette Greenway Trail and add the 70's Bicycle Boulevard.

In short:

- Metro has scarce regional funds
- The Greenway Trail was previously funded through MTIP
- The Greenway Trail has adequate funding through other sources
- Bike boulevards are a cost-effective strategy serving transportation needs and safety goals

DATE	ACTION	CYTATACADAY
		SUMMARY
June	2004-07 MTIP, Metro	Portland receives \$10 million of MTIP funds for S.
2003	Council Resolution 03-	Waterfront, including the #1 ranked Greenway Trail. The
	3335	resolution says states "fundsstreetcar, tram, bike/
• •	1	pedestrian and street improvements. If this condition is not
		met, these MTIP funds will be applied instead to the S.
	1	Corridor project."
Aug	Metro staff	Metro staff recommends Greenway Trail; removes 70's
2006	recommendation	Bicycle Boulevard from first-cut list even though it is
		technically competitive based on geographic equity issues.
Sept 6,	Portland City Council	Exhibit O - documents park and trail budget of \$8.0 million
2006	amends 8th Macadam	met with \$6.0 scheduled and guaranteed TIF funds and \$2.0
	Development Agreement	million of Parks SDC funds.
Sept 27,	Parks Budget and Cost	Exhibits that the multiuse trail and park improvements will
2006	Document	be funded with existing resources.
Sept 29,	TPAC Approves adding	TPAC votes 10-3 to support citizen motion to add 70's Bike
2006	70's and cutting	Boulevard and cut the Greenway Trail. Boulevard project
	Greenway Trail	seen as strategic allocation of scarce regional funds.
Sept 29,	TPAC Discussion	PDC staffers confirm that funding for the park, 1300 feet of
2006		trail, and amenities exists in the Central Development
		District and would be built without the MTIP funds.



Findings

Traffic data was collected in October of 2005 as part of the Columbia River Crossing Project. Traffic volume counts were collected for all on- and off-ramps between the Marquam Bridge in Oregon and the Pioneer Street Interchange in Washington. In addition to volume data, travel time runs were performed during the AM and PM peak periods. These travel times runs provided average speeds throughout the corridor.

Density and LOS were calculated for both the AM and PM four-hour peak periods between the Hayden Island off-ramp and the Hayden Island on-ramp. **Tables 1** and **2** show the calculations for both the southbound and northbound directions, respectively. For undersaturated conditions (density less than 45 veh/mi/lane), Equation 7-5 from the HCM was used to estimate density. For oversaturated conditions, Exhibit A22-5 was used for a free flow speed of 60 miles per hour.

August 25, 2006 Page 5

Table 1	Southbound	LOS	and	Density	Calculations

able 1: Southbound LOS	114112 17 0110	A		PM					
SOUTHBOUND	6-7	7-8	8-9	9-10	3-4	4-5	5-6_	6-7	
Number of Lanes Flow Rate (velt/hr/lane) Flow Rate (velt/hr/lane) Average Speed (mi/hr)	3 4755 1585 32	3 4525 1508	3 4795 1598 27	3 3995 1332 49	3 3170 1057 51	3 3315 1105 51	3 3520 1173 51	3 2870 957 51	
Density (veh/mi/lane)	>45 (90)	>45 (95)	>45 (90)	27	21	22	23	19	
Level-of-Service	F	F	F	D /	C	<u> </u>	<u> </u>		

Source: David Evans & Associates, Inc.

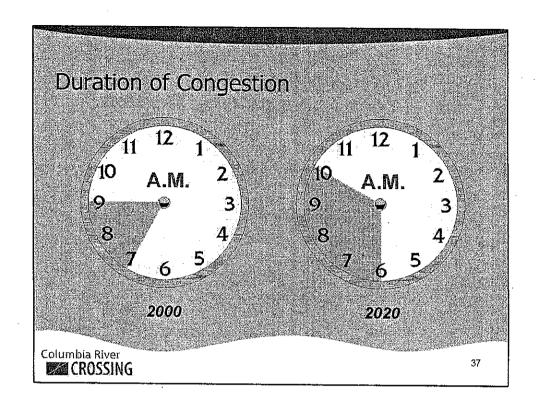
Table 2: Northbound LOS and Density Calculations

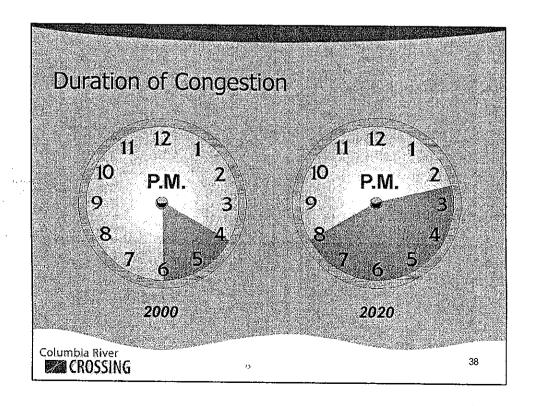
able 2: Northbound LOS		A	M			P!			الم صريم
NORTHBOUND	6-7	7-8	8-9	9-10	3-4	4-5	5-6	6-7	not 2 wi
Number of Lanes Flow Rate (veh/lur) Flow Rate (veh/lur/lane) Average Speed (mi/lur)	3 2075 692 56.4	3 2785 928 55.8	2895 965 55.7	3 2490 830 56	3 3905 1302 11.8	4390 1463 14.6	4820 1607 17.3	4565 1522 30.4	The Speed
Density (veh/mi/lane)	12	17	17	15	>45 (105)	>45 (95)	>45 (90)	(95)_	1 a le pri
Level-of-Service	В	В	В	В	F	F	F	ob CACS) (0/

Currently, during weekdays I-5 in the vicinity of Hayden Island operates at LOS F for at least three hours in the southbound direction and for at least four hours in the northbound direction. LOS F conditions describe breakdowns in vehicular flow downstream or at the point of the bottleneck. In other words, I-5's travel demands in the vicinity of Hayden Island exceed the freeway's capacity.

Note that the City of Portland's Transportation System Plan (TSP) performance measures, as well as those from Metro's Regional Transportation Plan (RTP), is to provide at least one hour of LOS E and at most one hour of LOS F conditions for I-5 North during the AM and PM two-hour peak periods. Since I-5 in the vicinity of Hayden Island operates at LOS F for three hours or more during both the AM and PM peak periods, the existing operation of I-5 is inconsistent with the TSP and RTP goals.

Level of Service data starts with "F" + ENDing in "F" Does not give a realistic view of the Level of Service. I-5 is an "F" A 6 km how EARLY did it Become From 10 Am - to 3 pm ? F?

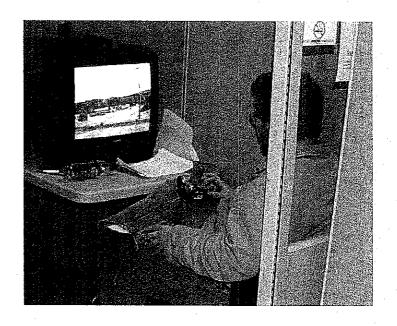




Sept 12,2005

Ramp Counts and License Plate Surveys

- 24-hour counts were conducted at all I-5 ramps in October 2005
- Video cameras used to capture license plates of vehicles traveling to and from ramps in the Bridge Influence Area





Subj: The new David Evans Analysis/Report on I-5 Congestion referenced by Sam Adams

Date: 9/28/06 3:35:08 PM Pacific Daylight Time From: pauloedgar@gwest.net (Paul Edgar)

Reply-to: pauloedgar@gwest.net

To: AndersonR@columbiarivercrossing.org (Anderson, Ron)

CC: samadams@ci.portland.or.us (Sam Adams), FiccoD@columbiarivercrossing.org (Ficco, Doug), osbomj@columbiarivercrossing.org (Osborn, John), LymanJ@columbiarivercrossing.org (Lyman, Jay),

ParisiD@columbiarivercrossing.org (Parisi, Dave), Imullen@enviroissues.com (Linda Mullen).

MullenL@columbiarivercrossing.org (Mullen, Linda), StricklerK@columbiarivercrossing.org (Strickler, Kris),

GleasonT@columbiarivercrossing.org (Gleason, Tonja)

I can see from reading the report that this information was extracted from data/information collected and taken from a October 2005 incidence of travel study done for the CRC Task Force.

It said that data/incidents of travel information was collected for "all on and off ramps from the Marquam Bridge on I-5 into Vancouver", with this effort. Is this data/information in a report form and also available in an excel spread sheet?

I am taking course jointly sponsered by PDOT and PSU at PSU on transportation considerations targeted at Portland Region and I would like to use this information in a class project.

Thanks, Paul

---Original Message----

From: Anderson, Ron [mailto:AndersonR@columbiarivercrossing.org]

Sent: Wednesday, September 27, 2006 3:01 PM

To: pauloedgar@gwest.net

Cc: Gleason, Tonja; Strickler, Kris; Mullen, Linda; Linda Mullen;

Parisi, Dave; Lyman, Jay; Osborn, John; Ficco, Doug

Subject: RE: The new David Evans Analysis/Report on I-5 Congestion

referenced by Sam Adams

Paul, DEA did this work for the City of Portland under a separate contract. Following is a link to Commissioner Adams and the report should be available as an attachment.

http://www.commissionersam.com/node/1123#attachments

Also in the paper was an article that suggested a copy of the traffic study is available at:

www.oregonlive.com/weblogs/cityhall/

I wasn't involved in the analysis. I suggest after reviewing the report - if you still have questions you can work through the City of Portland who was DEA's client on the project.

Thanks, Ron

---Original Message---

From: Paul Edgar [mailto:pauloedgar@qwest.net] Sent: Wednesday, September 27, 2006 12:32 PM

To: Ronald Q. Anderson

Subject: The new David Evans Analysis/Report on I-5 Congestion



Transportation Priorities 2008-11:

Investing in the 2040 Growth Concept

Draft Technical Evaluation and Qualitative Factors Summary

October 12, 2006

Transp	Draft	n Priorities 2008-11 Projects: Technical Rankings ce/Trail Projects	Requested	ct Points	PERFORMANCE		2040	IVENESS
Agency	Code	Project Title	Federal Funds (millions)	Total Project Points	MODAL PERFO	SAFETY	SUPPORTS 20	COST EFFECTIVENESS
City of Portland	Bk1126	NE/SE 50s Bikeway: NE Thompson to SE Woodstock	\$1.366	78	18	16	29	15
City of Portland	Bk1048	Willamette Greenway Trail : SW Gibbs to SW Lowell.	\$1.800	72	20	8	40	4
City of Portland	Not in RTP	NE/SE 70s Bikeway 70s: NE Killingsworth to SE Clatsop	\$3.698	65	18	13	27	7
N. Clackamas Parks and Recreation District	Bk5026	Trolley Trail: Arista to Glen Echo	\$1.875	65	17	10	27	11
Hillsboro	Bk3012	Rock Creek Trail: Orchard Park to NW Wilkins	\$0.600	64	15	20	25	4
City of Portland	Bk4011	Marine Dr. Bike Lanes and Trail Gaps: NE 6th Ave. to NE 185th Ave.	\$1.873	61	7	20	31	3
West Linn	Bk5193	Willamette Falls Drive: Hwy 43 to 10th St	\$2.987	48	11	15	19	3
Project development **	•							
City of Lake Oswego	Bk5053	Milwaukie TC to Lake Oswego TC Trail PE	\$0.583	(59-74) 69	8	20	31	N/A
Metro	N/A	Sullivan's Gulch Planning Study: Eastbank Esplanade to 122nd Ave	\$0.224	(50-85) 77				
Metro	72, 3092, 6020	Westside Corridor Trail (aka Beaverton Power Line Trail) - Tualatin River to Willamette River	\$0.300	(39-94) 87	7	6	27	N/A
Hillsboro	Bk3114	NE 28th Ave: E. Main St to NE Grant	\$0.300	(40-55) 47	7	6	27	N/A

TOTAL:

\$10.146

^{*} overmatch for NE 28th is 23% (90,000/390,000), but pro-rata formula yields a 30% overmatch (city leveraging MTIP PE \$ to get local arterial TIF funds)

^{**} Projects have a score range and a weighted score as their cost effectiveness cannot be calculated.

^{***} Rock Creek Trail and a portion (1.5 miles) of Marine Drive trail gaps already counted toward bike TCM for '08-'09 allocation

	Transportation Priorities 2008-11 Projects: Qualitative Factors												
								m	ispo	rtatio	,,,,,	Bike/Trail Projects	
Agency	Project title	Past Regional Commitment?	Linked Project?	Minimum Phase?	Multi-Modal Benefit?	Overmatch (local match shown for projects that exceed required 10% march)	Affordable Housing/ Schools?	Environmental Justice Impact?	Received public comments?	Transportation Control Measure for air quality?	Estimated reduction in CO emissions (kg/day)	QUALITATIVE FACTORS	
City of Portland	NE/SE 50s Bikeway: NE Thompson to SE Woodstock		Υ	Y	Y		Y	Y		4.30		Links to several other projects: Division Streetscape, Hawthorne Transit and Pedestrian improvements, Hollywood-Sandy Streetscape, Foster Streetscape, Hollywood Transit Center station area planning. Project intersects several established bikeways: Tillamook bikeway, Burnside corridor bikeway, Lincoln-Harrison bikeway, Clinton-Woodward bikeway, Woodstock bike lanes, Duke bike lanes. Project will dramatically improve multi-modal characteristics of the corridor. Main design element employs innovative alternating curb extensions (with bicycle passage) that lends itself to "green treatments" for stormwater retention.	
City of Portland	Willamette Greenway Trail: SW Gibbs to SW Lowell		Υ	Y	Y		Y			0.47		The Greenway and associated trail development is an innovative combination of brownfield restoration, habitat improvement and dense mixed-use development. Trail users will travel through or next to five blocks of the \$6 million dollar "greenway" project (SW Gibbs to Lane), which is not included in this MTIP request. Wildlife and human visitors will use new features including in-water habitat structures for salmon, nesting structures, overlook with bird blind, interpretative plaza, light water craft dock, several viewing terraces, shade pavilion, lawn terraces, meadows, seating, bioswales and extensive wetland and riparian plantings.	
City of Portland	NE/SE 70s Bikeway 70s: NE Killingsworth to SE Clatsop		Υ		Y		Y	Y		7.60		Links to several other projects: Lents Urban Renewal District, Foster Streetscape. Project intersects several established east-west bikeways: Killingsworth-Lombard bicycle lanes, Tillamook bikeway, Clinton-Woodward bikeway, Woodstock bike lanes, Duke bike lanes, Flavel bike lanes, Springwater trail. Main design element employs innovative alternating curb extensions (with bicycle passage) that lends itself to "green treatments" for stormwater retention. Applicant must identify a project in the financially constrained RTP to trade out, if this project were to be funded.	
N. Clackamas Parks and Recreation District	Trolley Trail: Arista to Glen Echo	Y	Y	Υ	Υ		Y			3.00		Trail has tremendous public support and input from citizens and business owners. Constructing the remaining portion of trail will complete a critical gap in the regional bicycle network. Project will serve 12 schools within a half-mile of trail and provide a functional link between the town centers of Milwaukie and Gladstone.	
Hillsboro	Rock Creek Trail: Orchard Park to NW Wilkins	Y	Y		Y	Υ	Y			0.66 ***		Serves as primary multi-modal trail in the Hillsboro area, and is the number one priority of the Hillsboro Bicycle / Pedestrian Task Force. It has been strongly supported by the community at numerous public meetings, and through phone calls, emails and letters. The trail follows along a regionally significant greenspace corridor. In partnership with the City, Clean Water Services has invested significantly in habitat enhancement and restoration projects along Rock Creek, with plans for continued efforts.	
City of Portland	Marine Dr. Bike Lanes and Trail Gaps: NE 6th Ave. to NE 185th Ave.	Υ	Υ		Y					2.40 ***		Completes a gap that is still incomplete after 20 years of constructing individual segments. Would improve access to Kelley Point Park, Smith and Bybee Lakes Wildlife area, Heron Lakes Golf Course, Portland International Raceway, East Delta Park, Broughton Beach, Blue Lake Park and Sandy River Delta Natural area. Serves concentration of Black population.	
West Linn	Willamette Falls Drive: Hwy 43 to 10th St		Υ	Υ	Υ	Υ	Y			2.33		Project location provides the only "water level" surface street through area and connects to two significant projects: 1) Boulevard design along Willamette Falls Dr (from 10th to 16th), which has led to the revitalization and redevelopment of the historic Willamette townsite. 2)10th Street corridor along Blankenship Rd to the north and to the I-205/Tenth St interchange that have been funded by private interests in association with large commercial, office, and residential developments along this corridor.	
Project develo	pment					T	T	T					
City of Lake Oswego	PE for trail between Milwaukie TC and Lake Oswego TC	Y	Υ	Y	Y							Project connects east and west sides of Wilamette river in area with nobike/ped bridge crossing for several miles (Sellwood Bridge to the West Linn/Oregon City Bridge). The future construction of a safe trail crossing would prevent potential accidents on the railroad bridge (some users currently attempt to cross on it). The path would connect downtown Lake Oswego with downtown Milwaukie, the Trolley Trail and the Oak Grove neighborhood. Project development work previously funded begins next fiscal year - will develop more accurate PE cost estimate. Applicant must identify a project in the financially constrained RTP to trade out, if this project were to be funded.	
Metro	Westside Corridor Trail (aka Beaverton Power Line Trail) - Tualatin River to Willamette River							Υ				The corridor presents a unique opportunity to develop a critical piece of the regional transportation system serving as a spine connecting people, jobs (e.g. Nike, Columbia Sportswear, etc.) town centers, bus and MAX station, parks, natural areas, and schools. Project serves one Environmental Justice population: Asian (pop 1023).	
Metro	Sullivan's Gulch Planning Study: Eastbank Esplanade to 122nd Ave							Y				Project connects with 40-mile loop system and creates complete trail loop in eastside of Portland (via Eastbank Esplanade, Springwater and I-205 trails). Although some bike facilities on streets north and south of the Gulch have been improved, this route would provide a good alternative to NE Sandy and eastern portions of NE Halsey and Glisan. In addition, some cyclists are not comfortable in streets such as NE Lloyd (30 mph), Multnomah, Sandy (30-35 mph), Glisan (35 mph) or Halsey (35 mph) even when bike lanes are striped. Project serves three environmental justice populations: Asian (pop. 1127), Black (pop. 1170), and Low-Income (pop. 2151). Applicant must identify a project in the financially constrained RTP to trade out, if this project were to be funded.	
Hillsboro	NE 28th Ave: E. Main St to NE Grant		Y	Y	Y	Υ*	Y	Υ				Project completes missing link in the City's bicycle network. This funding request for PE would leverage use of local arterial Traffic Impact Fee funds which would then be used for the accompanying roadway infrastructure improvements, yielding a 70/30 split and a resulting local over-match. The leveraging of the requested funds would also leverage adjacent private investment opportunity in mixed use development within the 28th/Main "Main Street" district. Project serves one Environmental Justice population: Hispanic (21%).	

Transpo	Draft	Te	Priorities 2008-11 Projects: echnical Rankings evard Projects	quested	Ş	IANCE				NESS
Agency	Code	Technical Rank	Project Title	Federal Funds Requested (millions)	Total Project Points	MODAL PERFORMANCE	SAFETY	SUPPORTS 2040	GREEN STREETS	COST EFFECTIVENESS
City of Cornelius	Bd3169	1	E Baseline: 10th to 19th	\$3.231	96	22	13	36	10	15
City of Portland	Bd3169	2	E Burnside/Couch Street: 3rd to 14th	\$4.700	93	22	17	36	10	8
City of Oregon City	Bd5134	3	McLoughlin Blvd: Clackamas River to Dunes Dr.	\$2.800	91	22	10	34	10	15
City of Gresham	Bd2104	4	Burnside Road: 181st to Stark	\$1.500	90	22	13	30	10	15
City of Portland	Bd2015	4	NE 102nd Ave: Stark to Glisan	\$1.918	90	15	13	37	10	15
City of Portland	Bd1221	6	Killingsworth Phase 2: Commercial to MLK	\$1.955	84	18	10	31	10	15
City of Beaverton	Bd3020	7	Rose Biggi extension: Crescent St. to Hall	\$5.387	78	15	14	39	10	0
City of Lake Oswego	Bd6127	7	Boones Ferry Rd: Red Cedar to S. of Reese Rd.	\$3.491	78	14	10	36	10	8

TOTAL:

24.982

	Transportation Priorities 2008-11 Projects: Qualitative Factors												
													vard Projects
Agency	Project title	Past Regional Commitment?	Linked Project?	Minimum Phase?	Multi-Modal Benefit?	Overmatch? (local match shown for projects that exceed required 10% match)	Affordable Housing/ Schools?	Environmental Justice Impact?	Received public comments?	Transportation Control Measure for air quality (Bike)	Trasportation Control Measure for air quality (ped)	Estimated reduction in CO emissions (kg/day)	QUALITATIVE FACTORS
City of Cornelius	E Baseline: 10th to 19th		Y	Y	Y		Y	Y		0.54	0.18		Project complements boulevard improvements to Adair Street funded through Transportation Priorities 2000. Project provides a new pedestrian link between Adair and Baseline. The City's southern neighborhoods house significant numbers of low and moderate-income, transit dependent families. These neighborhoods rely on commercial, educational, medical and social services with walking access along and across Baseline Street. The community has the longest average home-to-work commutes of any city inside Metro's jurisdiction (resulting from a jobs/housing imbalance). The project serves two significant concentrations of Environmental Justice populations: Hispanic (2,064 persons and 33.5% of area population) and Low Income (1,903 persons). Facility is designatrf as an STA as needed for boulevard improvements on state facilities.
City of Portland	E Burnside/Couch Street: 3rd to 14th	Y	Y	Y	Y					0.55	1.10		Project supports allowance of significant new development at either end of the project area. Two new blocks of development opportunity are created by the redesign of the 12th/Sandy/Burnside intersection. At the West end of the project, the Bridgehead Development is dependent on access provided by the couplet.
City of Oregon City	McLoughlin Blvd: Clackamas River to Dunes Dr.		Y	Y	Y	Y					0.41		Project considered a catalyst for private development and redevelopment in the Oregon City Regional Center, particularly in the Clackamette Cove and Oregon City Shopping Center areas. Received point credit for narrowing of travel lanes that is subject to ODOT approval of freight element of STA plan.
City of Gresham	Burnside Road: 181st to Stark				Y	Y	Y	Y		0.48	0.48		Project has been identified as a priority need in several City plans. Boulevard design would attract new private investment and redevelopment opportunities to Rockwood. In light of the critical importance of the project, the Rockwood-W. Gresham Urban Renewal District is prepared to provide a significant over match of nearly \$3 million towards the project. This overmatch includes funding to underground utilities improve the light rail track area which will improve aesthetics and safety of the boulevard. The project serves two Environmental Justice populations: Hispanic (28%) and Low-Income (pop. 3433).
City of Portland	NE 102nd Ave: Stark to Glisan	Y	Y		Y					0.50	0.50		The project has received strong regional and congressional support and is considered one of the most important elements in developing the Gateway Regional Center.
City of Portland	Killingsworth Phase 2: Commercial to MLK	Y	Y		Y	Y*	Y	Y					Project need and design resulted from 6-month planning process that involved more than 1,000 community members and a citizen advisory committee. Community process included surveys in 4 languages, presentations to more than 15 community groups and phone calls to encourage participation in community meetings. Complements Interstate MAX improvements, PCC Cascade campus expansion, the Jefferson Pavilion Project Interstate urban renewal area monies and other mixed-use redevelopment efforts in community. This project serves two Environmental Justice populations: Black (35%) and Low-Income (pop. 2544).
City of Beaverton	Rose Biggi extension: Crescent St. to Hall	Y	Y	Y	Y						0.16		Project complements extensive planning and redevelopment in downtown Beaverton - library expansion, The Round, Hall/Watson Beautification Plan, downtown parking and street design study and other plans. Provides critical multi-modal connection to the Round and Beaverton Transit Center which serves light rail, bus and future commuter rail. Supports other transit oriented development activities, such as the recently purchased old theatre site. The project is identified as a positive improvement serving Minority Race and Hispanic Origin Populations and Low Income Populations as identified on Metro maps.
City of Lake Oswego	Boones Ferry Rd: Red Cedar to S. of Reese Rd.		Y	Y	Y		Y			0.25			Project ranked as high priority in the Lake Grove Village Center Plan. In many respects it is the critical component of Plan. The roadway is being relied upon to hold the district together, bring users of the Center to, from and through the Center. Lake Grove Elementary has served as a community focus and landmark in the area dating back to the 1920s.

Transportation Control Measure: 5 miles average per biennium.

^{*}Killingsworth overmatch is for final design & engineering. ROW & Construction has regular local match

		sportation Priorities 2008-11 iesel Retrofit Projects			Technic	al Score		
Agency	Code	Project Title	Federal Funds Requested	Total Score	Modal Performance: PM10 reduction/yr	Safety: Population exposure (primary routes)	Safety: Population exposure (secondary routes)	Cost-effectiveness: Cost/emission reduction
LRAPA	DR0001	Sierra Cascade SmartWay Technology and outreach center	\$0.200	76	24	23	9	20
TriMet	DR8028	Transit Bus Diesel Engine Emission Reduction	\$2.500	83	40	25	15	3

Total \$2.700

Tran	-	raft	n Priorities 2008-11 Projects: Technical Rankings reight Projects	sted					ESS
Agency	Code	Technical Rank	Project Title	Federal Funds Requested	Total Project Points	USE FACTOR	SAFETY	SUPPORTS 2040	COST EFFECTIVENESS
PoP/CoP	Fr4044	1	82nd Avenue/Columbia Blvd Intersection Improvement	\$2.00	86.75	25	13.75	40	8
CoP	Fr0001	2	N. Burgard/Lombard Street Improvements	\$3.97	70.00	14	15.00	37	4
Project develo	pment								
СоР	Fr0002		N. Portland Rd/Columbia Boulevard Intersection Improvements	\$0.54					

TOTAL:

\$6.506

	T	ran	SDC	orta	ntio	n P	rio	ritie	es 20	008-1	1 Pr	ojects: Qualitative Factors
			- 70							ght F		
Agency	Project Title	Past Regional Commitment?	Linked Project?	Minimum Phase?	Multi-Modal Benefit?	Overmatch?	Affordable Housing/ Schools?	Environmental Jusitce Impact?	Received public comments?	Transportation Control Measure for air quality?	Estimated reduction in CO emissions (kg/day)	QUALITATIVE FACTORS
	82nd Avenue/Columbia Blvd Intersection Improvement		Y	Y	Y	Y						LINKED: A project currently under construction east of the proposed improvement, the East Columbia-Lombard Connector, improves the intersection between Columbia and Lombard (Killingsworth) and Columbia Blvd east of NE 82nd. This project extends Columbia Blvd improvements west of NE 82nd. Includes inter-tie of signalization. MULTI-MODAL BENEFITS: Project includes bicycle and pedestrian facilities. OVERMATCH: Port of Portland is providing a 41% match for the proposed project.
СоР	N. Burgard/Lombard Street Improvements		Y	Y	Y							LINKED: Bridge over abandoned Union Pacific rail track is scheduled for replacement due to structural deficiencies. It is programmed in the 2006-2009 STIP, with construction beginning 2006/2007. Columbia/Burgard intersection, at northern terminus of the proposed project, was upgraded in 1999 with additional lane capacity, signalization, bicycle and pedestrian facilities. N Lombard overpass, north of Burgard/Columbia intersection, was completed in 2005. MULTI-MODAL BENEFITS: Project includes bicycle and pedestrian facilities.
Project de	evelopment											
СоР	N. Portland Rd/Columbia Boulevard Intersection Improvements		Υ	Y	Υ			Y				MULTI-MODAL BENEFITS: Project includes bicycle and pedestrian facilities. EJ: Project impacts two Environmental Justice populations: Black (10%) and Low-Income (pop. 1378).

Tra		Dra	ion Priorities 2008-11 Projects: ft Technical Rankings een Street Retrofit	sted		ANCE			ESS
Agency	Code	Technical Rank	Project Title	Federal Funds Requested	Total Project Points	MODAL PERFORMANC	SAFETY	SUPPORTS 2040	COST EFFECTIVENESS
City of Portland	GS1224	1	NE Cully Boulevard: 60th to Prescott	\$3.207	77.50	45	17.50	7	8
City of Tigard	GS6050	2	Tigard Main Street retrofit: Hwy 99 to Railroad crossing	\$2.540	72.00	52	5	7	8

TOTAL: \$5.747

Tra	nspor I	Requested		RMANCE	ENESS		
Agency	Code	Technical Rank	Project Title	Federal Funds Re	Total Project Points	MODAL PERFOR	COST EFFECTIV
City of Milwaukie	GS5049	1	McLoughlin Blvd: Kellog Lake culvert/dam removal	\$1.055	100	70	30

TOTAL: \$1.055

	Transportation Priorities 2008-11 Projects: Qualitative Factors Green Street Retrofit													
Agency	Project Title	Past Regional Commitment?	Linked Project?	Minimum Phase?	Multi-Modal Benefit?	Overmatch? (local match shown for projects that exceed required 10% match)	Affordable Housing/ Schools?	Environmental Jusitce Impact?	Received public comments?	Transportation Control Measure for air quality?	Estimated reduction in CO emissions (kg/day)	QUALITATIVE FACTORS		
City of Portland	NE Cully Boulevard: 60th to Prescott	Y			Y	Y	Y	Y				REGIONAL COMMITMENT: The project was awarded MTIP funds in 2002 during the 2004 – 2007 Priorities process. MULTI-MODAL: New sidewalks and bike lanes will complete needed gaps in the street network and connect to existing sidewalks and bike lanes on Cully Boulevard to the north and south of the reconstruction project. AFFORDABLE HOUSING: Project associated with low income community and housing development. EJ: Serves concentrations of Black, Hispanic and low-income populations. Project serves one Environmental Justice population: Low-income (pop. 1024).		
City of Tigard	Tigard Main Street retrofit: Hwy 99 to Railroad crossing		Y	Y	Y	Y	Y					LINKED:Tigard has defined and adopted a new Downtown Plan, and Urban Renewal Plan that are in support of the key objectives identified in the Metro 2040 Plan. MINIMUM PHASE: If funding provided is insufficient to fund the entire Phase 1 scope, Phase 1 can be subdivided into two segments with the segment from the rail corridor southwest to Fanno Creek (approximately 900 lineal feas as the high priority for funding. MULTI-MODAL: Five TriMet bus routes travel through Downtown Tigard. Commuter rail from Wilsonville to Beaverton through Tigard will have a commuter rail station adjacent to the Transit Center. Enhancing pedestrian access to the bus stops and Transit Center. AFFORDABLE HOUSING: The downtown area contains some 185 low-rent housing units. Other affordable housing in the downtown includes the older, 37-unit Cascade Mobile Villa. The City recently adopted a policy of encouraging the development of affordable housing in the Downtown area.		

							T	ransp	ortati	on Pric				<i>jects:</i> ulvert		ative Factors
Agency	Project Title	Multiple culverts on samestream?	Consistent with Green Streets guidebook?	Geomorphology analysis?	On regional culvert inventory?	Past Regional Commitment?	Linked Project?	Minimum Phase?	Multi-Modal Benefit?	Overmatch? (local match shown for projects that exceed required 10% match)	Affordable Housing/ Schools?	Environmental Jusitce Impact?	Received public comments?	Transportation Control Measure for air quality?	Estimated reduction in CO emissions (kg/day)	QUALITATIVE FACTORS
City of Milwaukie	McLoughlin Blvd: Kellog Lake culverl/dam removal		Y	Y	Y		Y		Y	Y						CULVERT INVENTORY: High priority culvert. LINKED:The replacement bridge would lie at the southern terminus of the recently completed McLoughlin Boulevard project, a series of pedestrian and other boulevard treatments in a designated "Special Transportation Area. MULTI-MODAL: The redesigned bridge would include a substantially improved bike lane and sidewalk on the east side. West side facilities would be designed to complement or connect with the Trolley Trail currently under design by the North Clackamas Parks and Recreation District.

Tra	-	Dra	ion Priorities 2008-11 Projects: ft Technical Rankings edestrian Projects	sted		ANCE			ESS
Agency	Code	Technical Rank	Project Title	Federal Funds Requested	Total Project Points	MODAL PERFORMANCE	SAFETY	SUPPORTS 2040	COST EFFECTIVENESS
City of Gresham	Pd2057	1	Hood Avenue: SE Division to SE Powell	\$0.887	90.00	25	10	40	15
City of Portland	Pd1160	2	Foster-Woodstock: SE 87th to SE 101st	\$1.931	87.00	25	20	32	10
Milwaukie City of Portland City of	Pd5052 Pd1120	4	17th Ave: SE Ochoco to SE Lava Drive Sandy Blvd Pedestrian Improvements	\$1.655 \$0.712	70.00	25 15	17 15	30 25	10 15
Sherwood	Pd6117	5	Pine Street: Willamette Street to Sunset Blvd	\$1.100	47.00	10	10	22	5
Project devel	opment								
THPRD	Pd6007		Fanno Creek trail: Hall Blvd crossing study	\$0.359					
TriMet	Pd8035		Pedestrian Network Analysis	\$0.247					

TOTAL:

\$6.890

					Transport	ation	Priori	ties 2	008-11	Proje	cts: Qualitative Factors
					-		P	edes	strian	Proje	cts
Agency	Project Title	Past Regional Commitment?	Linked Project?	Minimum Phase?	Multi-Modal Benefit? Overmatch: (local match shown for projects that exceed required 10% match)	Affordable Housing/ Schools?	Environmental Jusitce Impact?	Received public comments?	Transportation Control Measure for air quality?	Estimated reduction in CO emissions (kg/day)	QUALITATIVE FACTORS
City of Gresham	Hood Avenue: SE Division to SE Powell		Υ		Y				.18 mi		LINKED: Improvements to the pedestrian system on Hood Avenue to facilitate access to the Gresham Central Transit Center/Light Rail station have been identified as a priority need in documents including the Gresham study titled "Accomodating Pedestrians to "Max" Light Rail Stations in Gresham," the Gresham TSP, and the Gresham CIP. MULTI-MODAL: The project will enhance multi-modal opportunities and safety by providing additional sidewalks on the east side of Hood Avenue within the project with ADA accessible ramps The project will provide multi-modal access to lands zoned Central Urban Core and Downtown Transit, both of which are targeted for economic development and jobs benefit by the Gresham Downtown Plan District.
City of Portland	Foster-Woodstock: SE 87th to SE 101st		Y		Y	Y			1.13 mi		LINKED: The project is directly supportive of the region's intent to create a 2040 town center in Lents and the on-going efforts of the City to implement the town center designation through the urban renewal district. The project also supports the planned I-205 MAX project. MULTI-MODAL: The project is in close proximity to the planned Lents/ Foster Road light rail station and will improve access to the new transit service and desirability of living in transit oriented developments within the station area.AFFORDABLE HOUSING: Reedway Place is a 24 unit affordable housing project adjacent to the project area and those residents would directly benefit from the proposed streetscape improvements.
City of Milwaukie	17th Ave: SE Ochoco to SE Lava Drive		Y	Y	Y				.9 mi		LINKED: The proposed 17th Ave. Connector would link two major regional multi-use trail systems, the Trolley Trail and the Springwater Corridor, the proposed project would improve multi-modal access to any downtown Milwaukie LRT stop, as envisioned in the South Corridor study (currently funded for EIS). MINIMUM PHASE: Design of the project will preserve the possibility of completing the east side sidewalks at a later point. MULTI-MODAL: The proposed project primarily benefits pedestrians and bicyclists. In addition, new sidewalks would improve pedestrian and ADA access to a TriMet frequent service bus route along 17th Ave. (70-12th Ave).
City of Portland	Sandy Blvd Pedestrian Improvements		Y		Y				.24 mi		LINKED: The improvements identified in this application are included in the Sandy Boulevard Resurfacing and Streetscape Plan adopted by City Council April 2005. MULTI-MODAL: The multimodal facilities along Sandy Boulevard will remove pedestrian barriers to crossing Sandy Boulevard. The project will benefit pedestrians by shortening the crossing distance at intersections, eliminating driveways or reducing their width, and adding on-street parking where feasible.
Sherwood	Pine Street: Willamette Street to Sunset Blvd			Υ	YY				.47 mi		MINIMUM PHASE: The City of Sherwood has reserved local sources to fund all design and ROW phases of the project. MULTI-MODAL: Replaces sidewalks, adds raised crossings and marked crossings.
Project de	velopment										
THPRD	Hall Blvd Bike/Ped crossing study: Fanno Creek trail and Hall		Y	Y	Y	Y					LINKED: This trail was the subject of a Metro study in 2003 and would help complete trail network in the Washington Square area. MINIMUM PHASE: Planning study to identify alternatives. MULTI-MODAL: trail supports pedestrian and bicycling, and specifically addresses a difficult crossing point. SCHOOLS: three schools within one mile of crossing point.
TriMet	Pedestrian Network Analysis		Υ	Υ	Υ						LINKED: builds on Oregon Bicycle and Pedestrian Plan (ODOT) MULTI-MODAL: pedestrian and transit

Transportation Control Measure: 1.5 miles average per biennium.

Planning	•	ation Priorities 2008-11	spun.	Summary of applicable factors
Agency	Code	Project Title	Federal Funds Requested	Culliniary of applicable factors
Planning				
Metro	Pl0002	Metro Livable Streets Policy and Guidebook Update	\$0.200	The project is not an existing or ongoing activity. It has low eligibility for support from other sources of funding due to the nature of the project proposes research of best practices for livable street design and would be included in the updated book. The project received a "medium" for encouraging development of the multi-modal system through street design.
City of Hillsboro	P10003	Tanasborne Town Center	\$0,200	This project is not an existing or ongoing activity. The project received a "medium" for eligibility for other planning funds because it supports 2040 implementation and leads to project readiness. The project is located in a town center which is a Tier II 2040 land use area. The project received a "medium" for emphasizing modes not supported by other funds and for contributing to the development of a multi-modal transportation system in the town center. The Project serves one Environmental Justice population: Asian (pop. 1292).
Metro	PI0001	Metro Big Streets: design solutions for 2040 corridors	\$0.250	This project is not an existing or ongoing activity. The project received a "low" for eligibility for other planning funds, but could be altered to make it a better candidate for other funds. The project does involve research and development of best practices for corridor design. The project received a "medium" for contributing to the development of the multi-modal system by identifying design solutions for making corridors more safe for multiple modal users.
City of Hillsboro	PI0004	Hillsboro Regional Center	\$0.350	This project is not an existing or ongoing activity. The project received a "medium" for eligibility for other planning funds because it supports 2040 implementation and leads to project readiness. The project does not involve research of best practices. The project is in a Tier I 2040 land use area because it is a Regional Center. It received a "medium" for emphasizing modes not supported by other sources and developing a multi-modal system as part of the project. Project serves two Environmental Justice populations: Hispanic (32%) and Low-Income (pop. 1200).
Metro	PI0005	Metro RTP Corridor	\$0.600	This project is an existing or ongoing activity. The project received a "low" for eligibility for other planning funds. The project would involve best practices research for corridor design. The project does not support a Tier I, II, III land use area. The project received a "medium" for emphasizing modes not supported by other funds and for contributing to the development of a multi-modal system through good corridor design.
Metro	PI0006	Metro MPO planning	\$1.993	This project is an existing or ongoing activity. The project received a "low" for eligibility for other planning funds because it merely replaces the local dues structure which was difficult to administer and collect. The other measures are not applicable to this project.
TriMet	Pd8035	Pedestrian Network Analysis	\$0.247	This is not an existing and ongoing activity. The project received a "low" for eligibility for other sources of funding. The project includes best practices for pedestrian improvements. The project emphasizes pedestrian system improvements which generally do not have a dedicated source of funding, it received a "medium" for this measure. The project received a "medium" for completing system gaps because it would plan and prioritize improvements. The project also got a "medium" score for contributing to a multi-modal system for identifying needed pedestrian system improvements.
CoP/TriMet Programs	TD8025	Hollywood Transit Center Redesign and Development	\$0.202	This project is not an existing or ongoing activity. The project received a "low" for eligibility for other planning funds because there is no known commitment from any agency for funding this project. The area is located in the Hollywood Town Center, which is a Tier II 2040 land use area. The project received a "high" for emphasizing modes not supported by other funds as well as a "high" for developing a multi-modal system by planning for a TOD development.
Clackamas County	var.	Clackamas County ITS (Pedestrian, etc.)	\$0.592	This project is not an existing or ongoing activity. The project received a "high" for eligibility for other funds as other transportation funds could be prioritized to support it. The project would increase transportation efficiency by improving the function of the system in Clackamas County, however the project scope is localized, not regional in scope.
Metro	то	RTO Add: Individualized Marketing Program	\$0.600	The RTO program is an existing and ongoing activity. The individualized marketing program received a "low" for eligibility for other funding sources. Individualized marketing efforts have shown to increase the use of alternative modes in the areas where they are applied, increasing the efficiency of the transportation system. Specific areas are chosen from the region to focus on, so the pool of eligible areas for these efforts is regional in scope, however only a few areas are actually selected.
Metro	то	RTO Add: Additional TMA Program Support	\$0.600	The RTO program is an existing and ongoing activity. TMA's are eligible for other sources of funding and receive funds from members of the TMA through dues, it received a "medium" for this measure. TMA's help implement regional transportation goals by providing travel options and information in centers. Their work contributes to improving transportation efficiency by promoting alternative modes of travel. TMA's are located in specific areas and create localized benefits, however, supporting additional TMA's could help expand the regional TMA network, thus could contribute to a regional scale improvement.
Metro	var.	ITS Programatic Allocation	\$3.000	This is not an existing and ongoing activity. It is a new programmatic area. The individualized marketing program received a "medium" for eligibility for other funding sources as other transportation funds could be prioritized to support it, but coordination of this support would be difficult. The ITS programmatic allocation would increase transportation efficiency in the areas where projects are funded. The pool of potential projects is region-wide.

Tra	nspor	tation Priorities 2008-11		
	Proj	ect Development	s	
Agency Bike/Trail	Code	Project Title	Federal Funds Requested	Evaluation summary
Dike/ITali				
City of Portland	Bk0001	Sullivan's Gulch Planning Study: Eastbank Esplanade to 122nd Ave	\$0.224	Had a technical evaluation been done for this project it would have received 12 of 15 points for modal performance (not including a ridership score of up to 10 points), 14 out of 20 for safety, 24 out of 30 for meeting 2040 land use objectives (not including a % trips serving centers score of up to 10 points). Cost effectiveness does not apply yet. Based on this information the project received a weighted score of 77 and a range of 50 to 85 points.
Metro	Bk3014	Westside Corridor Trail (aka Beaverton Power Line Trail) - Tualatin River to Willamette River following the BPA power line corridor	\$0.300	Had a technical evaluation been done for this project it would have received 12 of 15 points for modal performance (not including a ridership score of up to 10 points), 20 out of 20 for safety, 7 out of 10 for meeting 2040 land use objectives (not including a % trips serving centers core of up to 10 points, and an economic/comunity development score of up to 20 points.) Cost effectiveness does not apply yet. Based on this information the project received a weighted score of 87 and a range of 39-94 points.
Freight				
City of Portland Pedestrian	Fr0002	N. Portland Rd/Columbia Boulevard Intersection Improvements	\$0.538	Had a technical evaluation been done for this project it would have received 15 out of 25 points for modal performance for improving freight network connectivity, Portland Rd and Columbia Blvd are Roadway connectors on the regional system as well as NHS connectors. Did not receive points for increasing travel time reliability- no data available. The project received 11.25 points out of 20 for safety. It would have received 40 out of 40 points for supporting 2040 land use because of streets in the project area on the NHS system, serves Rivergate industrial area and meets general economic development objectives for improving mobility and access to industrial areas. Cost effectiveness does not apply yet. Based on this information the project received a weighted score of 88 and a range of 66.25-91.25 points.
i cacotilan				
THPRD		Hall Blvd Bike/Ped crossing study	\$0.359	Had a technical evaluation been done for this project it would have received 20 out of 25 points for modal performance for being in an a pedestrian district. It would not receive points for completing a missing sidewalk link. Project would receive 10 out of 20 for safety for addressing some safety factors that deter walking, but does not document a safety problem with quantitative data. The project would receive 30 out of 40 for meeting 2040 land use objectives for bing in a regional center, but it does not have a high level of community focus. Cost effectiveness does not apply yet. Based on this information the project received a weighted score of 67 and a range of 40-80 points.
Road Capaci	ity			
Washington County	3023	217 Environmental Assessment	\$0.500	Had a technical analysis been performed for this project it would have received 19 points out of 25 for modal performance for a high V/C ratio and TSMO elements. The project would have received 10 out of 40 points for supporting 2040 land use for economic development activities, but project is not in a 2040 land use area. The project would have received 15 out of 15 for high cost effectiveness and 3 out of 10 bonus points for transit and freight benefits. Safety did not apply. Based on this information the project received a weighted score of 59 and a range of 47-77 points. Project leverages potential \$300,000 of federal earmark funding.
Happy Valley	PI0007	Happy Valley Town Center	\$0.432	Had a technical analysis been performed for this project it would have received 0 out of 10 for modal performance, 7 out of 10 points for 2040 land use for being in a town center, 2.5 bonus points out 5 for being on a regional transit route, and 2.5 bonus points out of 2.5 for planting street trees. Based on this information the project received a weighted score of 44 and a range of 12-82.5 points. Project plans for bicycle, pedestrian and green streets elements, which may not get built without funding for this project.
TOD				
CoP/TriMet Transit	TD8025	Hollywood Transit Center Redesign and Development	\$0.202	Had a technical evaluation been done for this project it would have received 25 out of 25 points for increasing non-auto mode share - it would be expected to generate 26,800 transit trips a year. The project would have received 20 out of 20 points for density by requiring private development on the site to provide ground floor active uses and a minimum of 36 housing units in a project with a minimum floor area ratio (FAR) of 2:1. The project would have received 35 out of 40 points for supporting 2040 land use. Cost effectiveness does not apply yet. Based on this information the project received a weighted score of 94 and a range of 80-95 points.
TriMet	Tr1003	South Corridor Ph. 2: Preliminary Engineering	\$2.000	Forecasted to serve 25,330 daily riders (2020), and would improve schedule reliability and customer experience: would received maximum modal performance points. Project serves the Central City and Milwaukie regional center and light rail has demonstrated ability to orient development - would receive maximum 2040 points. Project would improve safety and security for a high number of riders - would receive maximum safety points. Cost-effectiveness does not yet apply. Based on this information the project received a weighted score of 100 and a range of 85-100 points.
Tigard	Tr8025	Tigard Transit Center Redesign	\$0.160	Transit center servesdaily trips and would improve customer experience-would receive a medium/low modal performance score. Project serves a town center and attemptss to identify a TOD site - would received a medium 2040 score. Design might improve safety and security for passengers, but score does not apply as design outcome is not known. Cost-effectiveness is also not known until outcome of design process. Based on this information the project received a weighted score of 55 and a range of 33-68 points.
			\$4 715	

Tra	Dı	raft	n Priorities 2008-11 Projects: Technical Rankings	_						
Agency	Code	Technical Rank	Capacity Projects Project Title	Federal Funds Requested	Total Project Points	USE FACTOR	SAFETY	SUPPORTS 2040	Cost Effectiveness	Bonus Points
City of Beaverton	3030	2	Farmington Road: SW Murray to SW Hocken	\$4.284	80.75	20	11.25	33	12	5
Washington County	3016	3	Tualatin-Sherwood Road ATMS: 99W to I-5	\$1.561	77.00	19	7.50	36	10	5
City of Hillsboro	3113	4	10th Avenue: Southbound right turn lane	\$0.600	76.25	15	8.75	30	15	8
City of Gresham	7036	5	190th: Pleasant View/Highland to 30th	\$3.967	75.50	17	11.25	26	15	6
Washington County	3150	7	Cornell Road System Management: Downtown Hillsboro to US 26	\$2.002	67.75	18	6.25	29	10	5
Multnomah County	2110	9	Wood Village Boulevard: Halsey to Arata	\$0.643	61.50	17	10.00	27	5	3
Washington County	3192	10	Sue/Dogwood Connection	\$3.455	30.25	10	7.50	9	0	4
Clackamas County	var.		Clackamas County ITS (Pedestrian, etc.) *	\$0.592						
Metro	var.		ITS Programatic Allocation *	\$3.000						
Project development									ı	
Clackamas County	5069	1	Harmony Road: 82nd Ave to Highway 224	\$1.500	(69.5-84.5) 82	17	12.50	33	n/a	8
Washington County	3023	6	Highway 217 Environmental Assessment	\$0.500	(49.5-84.5) 74	19	n/a	28	n/a	3
Clackamas County	7000	8	172nd Avenue: Sunnyside Road to Multnomah County line	\$1.500	(54.5-69.5) 66	14	5	33	n/a	3

TOTAL: \$23.603

^{*} received additional qualitative evaluation. Please see Planning and programmatic applications sheet for additional information.

			Tra	ns	por	tation	Pri	ori	ies	200	8-11	Project: Qualitative Factors
												/ Projects
Agency	Project title	Past Regional Commitment?	Linked Project?	Minimum Phase?	Multi-Modal Benefit?	Overmatch? (local match shown for projects that exceed required 10% match)	Affordable Housing/ Schools?	Environmental Jusitce Impact?	Received public comments?	Transportation Control Measure for air quality?	Estimated reduction in CO emissions (kg/day)	QUALITATIVE FACTORS
City of Beaverton	Farmington Road: Sw Murray to SW Hocken	Υ					Υ					REGIONAL COMMITMENT: Engineering for project funded previously through MTIP. HOUSING/SCHOOLS: close to schools.
Washington County	Tualatin-Sherwood Road ATMS: 99W to I-5	Y	Y	Υ	Υ							REGIONAL COMMITMENT: has received previous MTIP funding. LINKED: close to other Washington County project. MULTI-MODAL: would support transit signal priority on regional bus system route.
City of Hillsboro	10th Avenue: Southbound right turn lane	Y			Y			Υ				REGIONAL COMMITMENT: project has already been given some funding. MULTI-MODAL BENEFIT: project helps manage high traffic volumes around crossing of light rail tracks near downtown Hillsboro. EJ: project serves two Environmental Justice populations: Hispanic (41%) and Low-Income (pop. 1337).
City of Gresham	190th: Pleasant View/Highland to 30th					Y	Υ					MULTI-MODAL BENEFIT: project provides transit and bike improvements. OVERMATCH: provided by city of Gresham. HOUSING/SCHOOLS: close to schools and low-income housing.
Washington County	Cornell Road System Management: Downtown Hillsboro to US 26		Υ	Y	Y		Υ	Y				LINKED: close to ODOT project. HOUSING/SCHOOLS: close to schools and low-income housing. MULTI-MODAL BENEFIT: project helps manage high traffic volumes around crossing of light rail tracks near downtown Hillsboro. EJ: project serves two Environmental Justice populations: Hispanic (20%) and Low-Income (pop. 1405).
Multnomah County	Wood Village Boulevard: Halsey to Arata		Y	Υ		Y						LINKED: project allows other Multnomah County project to improve safety and function of nearby 223rd and Halsey intersection.
Washington County	Sue/Dogwood Connection		Υ				Υ					LINKED: close to other projects on Cornell, Murray, Saltzman roads. HOUSING/SCHOOLS: is close to two schools.
Clackamas County	Clackamas County ITS (Pedestrian, etc.)				Υ							MULTI-MODAL BENEFIT: project will provide pedestrian countdown timers.
Metro	ITS Programatic Allocation											
Clackamas County	Harmony Road: 82nd Ave to Highway 224		Υ	Y	Υ	Y	Υ					LINKED: links to ODOT ITS project. MULTI-MODAL BENEFIT: will grade-separate crossing of SP Freight rail and Amtrak line. OVERMATCH: provided by Clackamas County. HOUSING/SCHOOLS: is close to Clackamas Community College and LaSalle schools.
Clackamas County	172nd Avenue: Sunnyside Road to Multnomah County line		Υ	Υ								LINKED: project links to Sunnyside Rd project. MINIMUM PHASE: only requesting \$\$ for Final Design & Engineering phase.
Washington County	217 Environmental Assessment	Y	Y	Υ	Υ	Y						REGIONAL COMMITMENT: Metro has funded planning work for project. MINIMUM PHASE: only asking for \$\$ for Preliminary Engineering/Planning. LINKED: will link to other projects on Hwy. 217. MULTI-MODAL BENEFIT: will improve bike/ped facilities. OVERMATCH: provided by County. ECONOMIC IMPACT: in area with high anticipated job growth.

T	-	Dı	ation Priorities 2008-11 Projects: raft Technical Rankings Reconstruction Projects	pə					SS	
Agency	Code	Technical Rank	Project Title	Federal Funds Requested	Total Project Points	USE FACTOR	SAFETY	SUPPORTS 2040	COST EFFECTIVENESS	BONUS POINTS
City of Portland	RR1214	1	Division Streetscape and Reconstruction Project:: SE 6th to 39th	\$2.500	79.00	21.00	6.25	28.00	15.00	8.75
Multnomah County	RR2081	2	223rd RR Undercrossing	\$1.000	76.00	21.00	15.00	30.00	5.00	5.00
Multnomah County	RR1010	3	Morrison Bridge deck replacement	\$2.000	75.75	10.00	13.75	37.00	10.00	5.00

TOTAL: \$5.500

_	Transportation Priorities 2008-11 Projects: Qualitative Factors Road Reconstruction Projects				Qualitative Factors Road Reconstruction Projects						ifit?	al match shown xceed required	ng/ Schools?	sitce Impact?	comments?	ontrol Measure	on in CO	
Agency	Code	Technical Rank	Project Title	Past Regional Commitment?		Minimum Phase?	Multi-Modal Benefit?	Overmatch? (local for projects that ex 10% match)	Affordable Housing/	Environmental Jusitce Impact?	Received public o	Transportation Control Measur for air quality?	Estimated reduction emissions (kg/day)	QUALITATIVE FACTORS				
City of Portland	RR1214	1	Division Streetscape and Reconstruction Project:: SE 6th to 39th	Y	Y			Y	Y					REGIONAL COMMITMENT: previously awarded MTIP funds. LINKED: will link to BES stormwater project. OVERMATCH: project is overmatched to 23%. HOUSING/SCHOOLS: close to schools and proposed low-income housing project.				
Multnomah County	RR2081	2	223rd RR Undercrossing	Y	Y	Υ	Υ	Y						REGIONAL COMMITMENT: previously awarded MTIP funds. LINKED: links to ODOT-funded intersection improvements. MULTI-MODAL BENEFIT: will improve bike/ped/freight facilities.				
Multnomah County	RR1010	3	Morrison Bridge deck replacement		Y		Υ	Y		Υ				LINKED: will link to other projects on the bridge. MULTI-MODAL BENEFIT: will improve bike/ped access on the bridge. EJ: project serves two Environmental Justice populations: Black (9%) and Low-Income (pop. 1855).				

7	Transp		on Priorities 2008-11 Projects: ft Technical Rankings TOD Projects			share (25		sible)	(15 possible)
Agency	Code	Technical Rank	Project Title	Federal Funds Requested	Total Project Points	Increase non-auto mode s possible)	Density (20 possible)	SUPPORTS 2040 (40 possible)	COST EFFECTIVENESS (
Metro	TD8005 a	1	TOD Implementation Program	\$4.000	97	25	20	37	15
Metro	TD8005 b	2	Centers Implementation Program	\$2.000	96*	25	20	37	*
Project develop	ment								
CoP/TriMet	TD8025		Hollywood Transit Center Redesign and Development	\$0.202	94*	25	20	35	*

TOTAL:

\$6.202

Notes:

*Centers Implementation Program not scored on cost effectiveness because first project is currently under construction: Analysis to be conducted by PSU.

*Hollywood Project not scored on cost-effectiveness because funds are for planning, not capital costs.

Transp	mitment?			ن	(local match shown for projects required 10% match)	/ Schools?	tce Impact?	comments?	trol Measure for air	CO emissions from VMT (ced)			
Agency	Code	Technical Rank	Project Title	Past Regional Commitment?	Linked Project?	Minimum Phase?	Multi-Modal Benefit?	Overmatch? (local r that exceed require	Affordable Housing/	Environmental Jusitce Impact?	Received public cor	Transportation Control Measure for quality?	Estimated cost to CO ((\$/1000 VMT reduced)
Metro	TD8005a	1	TOD Implementation Program	Υ	Υ	Υ	Υ	Υ	Υ	Υ	not yet	Υ	20
Metro Project deve	TD8005b	2	Centers Implementation Program	Υ	Υ	Υ	Υ	Y	Υ	Υ	not yet	Y	20
CoP/TriMet	TD8025		Hollywood Transit Center Redesign and Development	Y	Υ	N	Y	Y	Y	Y	not yet	Y	20

Trans	-	Techn Trans	iorities 2008-11 Projects: ical Rankings sit Projects	equested			SECURITY	01	VENESS
Agency	Code	Technical Rank	Project Title	Federal Funds Requested	Total Project Points	USE FACTOR	SAFETY & SEC	SUPPORTS 2040	COST EFFECTIVENESS
TriMet	Tr8035	2	On-Street Transit Facilities	\$2.750	74	25	14	20	15
	Tr1106	1 ts	Eastside Streetcar: NW10th to NE Oregon	\$1.000	80	20	10	40	10
Project De	Tr1001 veloment	N/A	Rail Capital Bond Debt Service	\$18.600					
TriMet Tigard	Tr1003	N/A N/A	South Corridor Ph. 2: Preliminary Engineering Tigard Transit Center Redesign	\$2.000 \$0.160	(85-100) 100 (33-68) 55	25 10	20 n/a	40	n/a n/a

Total \$24.510

						1	1	1		1	1	1	T	
11	Transportation Priorities 2008-11 Projects: Qualitative Factors Transit Projects		tative Factors	Commitment?				natch shown for required 10%	Schools?	e Impact?	comments?	ol Measure for air	n CO emissions	
Agency	Code	Technical Rank	Project Title	Past Regional Comm	Linked Project?	Minimum Phase?	Multi-Modal Benefit?	Overmatch? (local match sprojects that exceed requimatch)	Affordable Housing/ Schools?	Environmental Jusitce Impact?	Received public com			QUALITATIVE FACTORS
		<u> </u>					_							vocaid continue current level of investment in on-street transit capital facilities, bus shelters, schedule into,
Total A - 4	T-0005	0	On Other at There sit For sitting	v	Y		Y			Υ				ADA/pedestiran access to stops. Linked to Streamline program to increase service efficieny and Frequent Bus program.
TriMet	Tr8035	2	On-Street Transit Facilities	T	Ť		T			Ť				EJ: facilities would serve a significant population of low-income persons. Extension of existing Streetcar to to northeast Portland as next segment of Central City circulator. Includes pedestrian
Portland	Tr1106	1	Eastside Streetcar: NW10th to NE Oregon	Υ	Y	Y	Y	Y		Y				improvements near stops. Property owner assessments will be used to provide more than minimum local match of project costs. Project serves three Environmental Justice populations: Black (7%), Low-Income (pop. 2859), and Disabled (pop. 1128).
Previous	Commitment	s												
	Tr1001	N/A	Rail Capital Bond Debt Service	Υ	Y		Υ	Y						Provides funds committed to pay costs of bonded debt for I-205/Mall LRT, Beaverton-Wilsonville commuter rail, and S. Waterfront streetcar projects. This amount needed through 2015. Project serves one Environmental Justice population: Hispanic (pop. 2688).
Project D	eveloment													
TriMet	Tr1003	N/A	South Corridor Ph. 2: Preliminary Engineering	Υ	Υ	Υ	Y			Y				Funding for preliminary engineering of preferred alternative to emerge from Supplemental Draft Environmenatl Impact Statement work in the South Corridor process. Project serves two Environmental Justice populations: Low-Income (pop. 5472) and Disabled (pop. 1128).
Tigard	Tr8025	N/A	Tigard Transit Center Redesign		Υ	Υ	Υ							Linked to Beaverton-Wilsonville commuter rail improvements with potential benefits for transit oriented development and to pedestrian and bicycle modes.



Transit Investment Plan

FY2007

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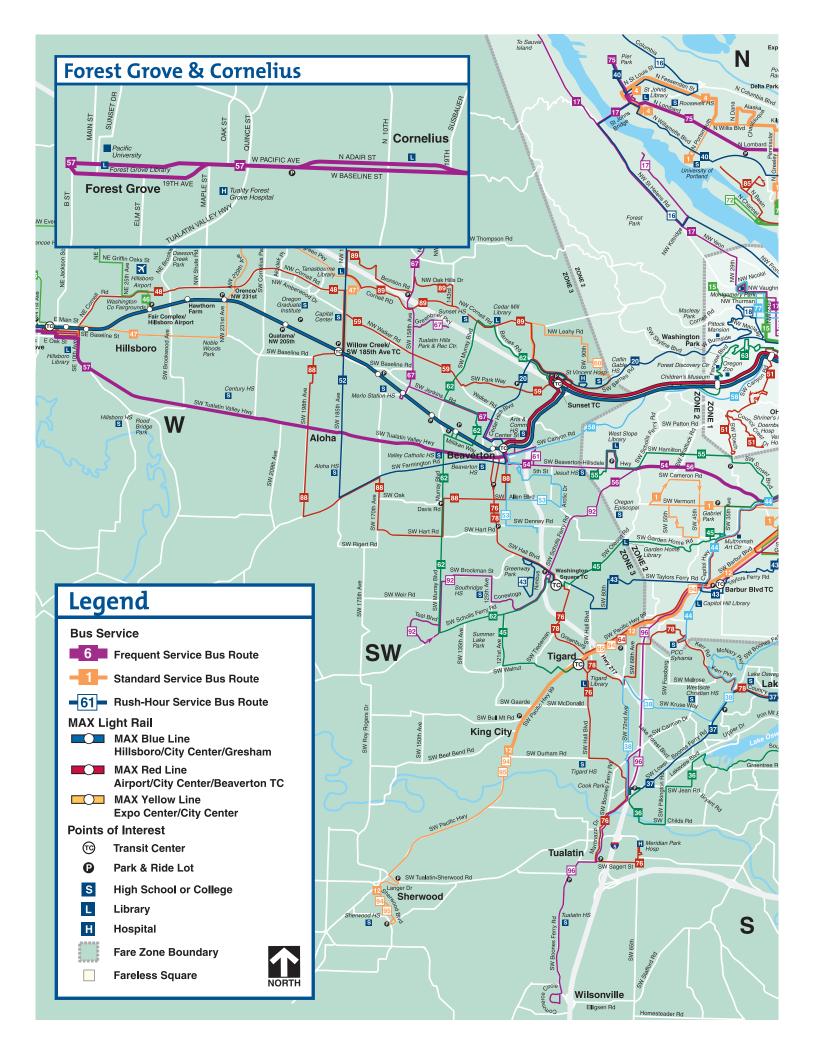
TIP input, questions or additional copies	\rightarrow	Kiran Limaye, Strategic Planning Coordinator	503-962-4977	tip@trimet.org	trimet.org/tip
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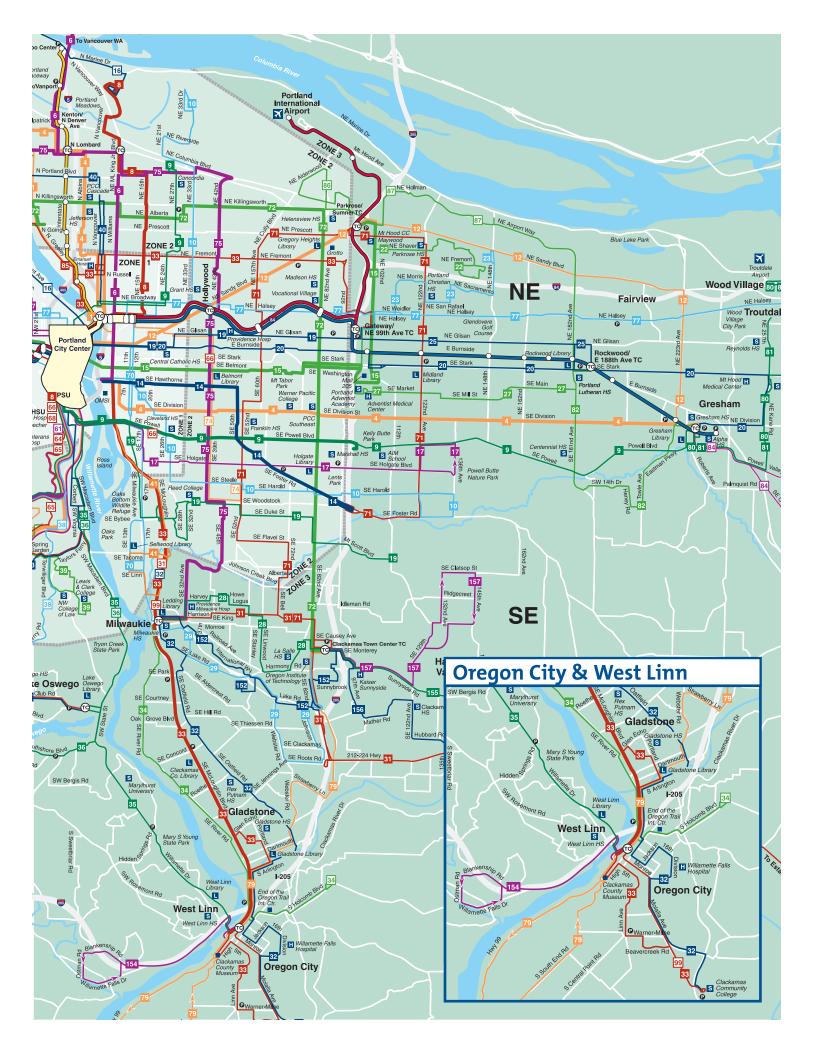
FY 2007 Transit Investment Plan



Tri-County Metropolitan Transportation District of Oregon 4012 SE 17th Avenue Portland, Oregon 97202

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Dear Reader.

Decisions about where and when we make transit investments are some of the most important decisions facing our community today. Our choices will influence land development, travel patterns, the economy, public health and our very quality of life.

The Transit Investment Plan (TIP) seeks to provide a framework for how transit investments will be made. The TIP establishes the priorities for where TriMet will expand service, on-street amenities and customer information. The TIP provides local governments with a guide for their planning processes so they can leverage our investment with transit-related infrastructure such as sidewalks and safe street crossings. The TIP is becoming the basis for partnerships to improve transit service and access to that service throughout the region.

Our region has much to be proud of in the transit system we have today. In September we will celebrate the 20th anniversary of the MAX Light Rail line. When the Eastside line opened in 1986 there were those who said it was a waste of money and that people wouldn't ride. Time has proved the naysayers wrong. MAX has now expanded to three lines with 44 miles of track, carrying some 100,000 riders a day. It is the backbone of the TriMet system and is very popular not only with riders, but with the general public. Surveys show that MAX's approval rating with the public is consistently around 90 percent.

On the horizon are other major expansions of the rail system. Construction on the 8.3 mile I-205/Portland Mall project will begin in early 2007, with opening scheduled for September 2009. The 14.7-mile Washington County Commuter Rail line between Wilsonville and Beaverton will begin construction in the fall, with opening expected in 2008. These major new lines will extend rail service into Clackamas County for the first time, providing convenient connections to locations through the region.

While we have been able to make significant transit investments in the past few years, we will not be able to expand service this year because of the continued slowdown in the economy. In addition, the high cost of diesel fuel is stretching our already limited resources.

Even with limited resources we are finding ways to improve our service and protect the environment. This year we began using biodiesel in our LIFT fleet. We expect to expand biodiesel use to the fixed route fleet in the next fiscal year. Also, in the fall our buses will begin using ultra low sulfur fuel, which will significantly reduce emissions.

TriMet is committed to providing high quality transit service that meets the needs of all our riders. We will continue to work hard and make good choices to maintain our quality of life and provide more transportation options for the entire region.

Sincerely,

Fred Hansen General Manager

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FY2007 TIP iii

Executive Summary

The Transit Investment Plan (TIP) lays out TriMet's strategies and programs to meet regional transportation and livability goals through focused investments in service, capital projects and customer information. The TIP is a rolling five-year plan that is updated annually. The TriMet Board of Directors first adopted the TIP in June 2002.

The TIP relies on long-term goals and strategies developed by Metro, including the Regional Transportation Plan (RTP). These plans direct development to Regional Centers, Town Centers and key corridors. The TIP shows how TriMet will implement the transit portion of the RTP over the next five years.

The Total Transit System

The Total Transit System is TriMet's term for the elements that make transit an attractive choice for riders. The Total Transit System includes: frequent, reliable service during all times of the day and every day of the week; clear customer information; easy access to stops; comfortable places to wait for transit and modern, well-maintained vehicles. TriMet and its partners are investing in the Total Transit System to not only meet the current demand for service, but to support regional development described in the 2040 Framework Plan and to attract the level of ridership called for in the RTP.

Regional Partnerships and Focused Investments

TriMet partners with local, regional, and state governments and agencies to provide many of the important elements that enhance access to transit such as roadways, sidewalks, safe pedestrian crossings, priority treatments for transit vehicles, and building codes that promote and enhance pedestrian-friendly areas. Only with such combined and coordinated efforts can the region realize the full potential of its significant transit system investment.

The TIP provides the framework for forming regional partnerships between TriMet and other agencies to improve access to transit and encourage transit-oriented development. TriMet worked with local jurisdictions to develop criteria for expanding transit service.

TIP Priorities

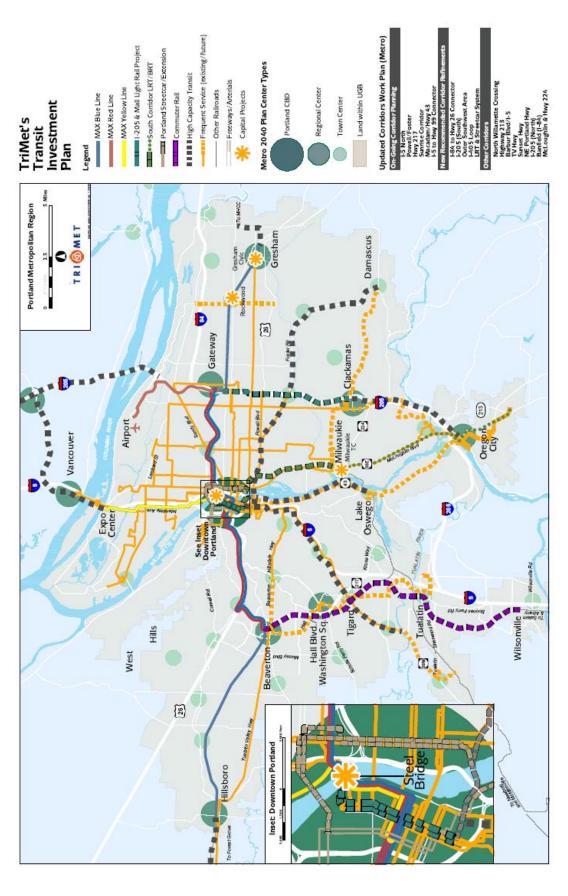
Within available financial resources, TriMet and its partners balance needs to guide where, when and how to invest transit-related dollars. The TIP priorities are to:

- 1. Build the Total Transit System Enhance customer information, access to transit, stop amenities, frequency, reliability, passenger comfort, safety and security.
- 2. Expand high capacity transit Invest in MAX Light Rail, Commuter Rail and Streetcar service along key corridors to connect Regional Centers.
- 3. Expand Frequent Service Add routes to TriMet's network of bus lines than run every 15 minutes or better, every day.
- 4. Improve local service Work with local jurisdictions to improve transit service in specific local areas.

FY2007 TIP iv

TIP Implementation

		ir implementation				
	FY 2006	FY 2007	FY2008 to FY 2011			
	June 2005 - July 2006	June 2006 - July 2007	June 2007 - July 2011			
TIP Priority	Past Fiscal Year	Upcoming Fiscal Year	Program of investments, depends upon improved revenue			
	Transit Tracker by Phone provides real time bus & MAX arrivals to more than 12,000 calls per day	Add Transit Tracker stop ID numbers to 1,200 more stops Open Milwaukie Park & Ride	Provide automated stop announcements, air conditioning and low-floor boarding on over 3/4 of buses			
1. Build the Total Transit	Added Stop IDs at 2,000 bus stops for use with Transit Tracker	Install 35 new shelters Automate announcements on low floor buses	Add buses and light rail vehicles to address projected passenger crowding			
System Chapter 4	Installed 10 shelters and replaced 20	Install stop name decals	Improve Rose Quarter bicycle access			
	Install solar-powered lighting at 45 stops	Address low performing lines 86-Alderwood, 157-Happy Valley, and the Cedar Mill Shuttle. Assess performance	Complete installation of new signs and optimize bus stop spacing			
	Deployed 39 new buses	of Line 39-Lewis and Clark changes.				
	Completed South Corridor 50 percent Design	Begin Washington County Commuter Rail construction	Open Washington County Commuter Rail			
2. Expand High		Begin I/205-Portland Mall Construction	Open Gresham Civic MAX Station			
Capacity Transit			Open MAX on I-205 to Portland Mall; Redesign downtown bus service			
Chapter 5		Continue Analysis & planning f Portland, Lake Oswego-Portland River Crossing, Powell/Foster, D MAX extensions.				
3. Expand Frequent Service	Frequent Service buses served 56.7% of bus riders in FY05.	Add hours of service to line 9- Powell	Add Frequent Service to complement Commuter Rail, I-205 investments			
Chapter 6		Construct access improvements along line 57-TV Hwy/Forest Grove	Extend hours of Frequent Service on 4 existing lines			
4. Improve Local Service	Second year of Blue Lake Park weekend shuttle	Tigard	Revise N. Clackamas service to coordinate with I-205 MAX Green Line			
Chapter 7			Change S. Waterfront service			



FY2007 TIP vi

1. Introduction

The Transit Investment Plan (TIP) lays out TriMet's strategies and programs to meet regional transportation and livability goals through annual investments in service improvements, capital projects and customer information. The TIP contains a five-year plan of service improvements and a survey of long-range system enhancements. The TriMet Board of Directors adopted the first TIP in June 2002. Community open houses, TriMet Board meetings and discussions with jurisdictional partners provide a basis for annual revisions of the TIP.

The TIP builds upon earlier planning documents including the 1997 Transit Choices for Livability project and 1993 Strategic Plan. The FY2007 TIP replaces these planning documents as TriMet's development plan.

The TIP builds on regional long-term goals and strategies developed through the Metro regional government's planning process and contained in the Regional Framework Plan. Two components of the Framework Plan, the Regional Transportation Plan and Growth Concept, direct development to centers and along transportation corridors. The TIP shows how TriMet will implement the next five years of the transit improvements called for by these plans. The TIP focuses TriMet, local, regional, state and federal funds into specific transit corridors and areas.

This plan emphasizes focused investments, not only in new bus and rail service, but in the Total Transit System: service reliability, passenger amenities, customer information, and access. These improvements are most noticed by riders and are therefore most effective when they are made on the same routes at the same time.

TriMet partners with local, regional, and state governments and agencies to provide many of the important elements that enhance access to transit such as roadways, sidewalks, safe pedestrian crossings, priority treatments for transit vehicles, and development codes that promote and enhance pedestrian-friendly areas.

The TIP provides the framework for forming regional partnerships between TriMet and other agencies to improve access to transit and encourage transit-oriented development. TriMet worked with local jurisdictions to identify areas with the greatest ridership potential.

Transit investments need to be planned and programmed several years in advance. TriMet works with jurisdictions to coordinate transit and streetscape investments to achieve the greatest beneficial impact for potential transit riders. The TIP contains priorities for new service. Actual implementation depends on funding availability as part of each year's annual transit plan and budgeting process.

TIP Priorities

Within available financial resources, TriMet and its partners balance needs to guide where, when and how to invest transit-related dollars. TriMet's priorities are to:

- 1. Build the Total Transit System
- 2. Expand high capacity transit
- 3. Expand Frequent Service
- 4. Improve local service

Regional Context

Metro is the regional government that leads the development of long-term plans for land-use and transportation. TriMet is a partner with Metro and local governments in land use and transportation planning. TriMet's commitment to improve service in concert with growth management is a basis for the region's 50-year land use vision, the 2040 Growth Concept.

The 2040 Growth Concept, adopted by Metro in 1995, preserves access to nature and builds better communities by maintaining a compact urban form with increased travel options. It directs most new development to population centers and along corridors that can be well served by transit, walking and bicycling. Focusing jobs, housing and services in these areas takes best advantage of transit system investments by reducing the need to drive alone.

The Regional Transportation Plan (RTP) was extensively updated in August 2000 and updated in January 2004. For transit, the 2004 update addresses the development of the Frequent Service concept and the designation of Frequent Service bus routes. Planning groundwork is already being laid for an extensive 2008 RTP update. TriMet will work with Metro and regional partners throughout this process to further develop transit and land use planning.

The Regional Transportation Plan is based on the development of a balanced transportation system that reduces our reliance on single-occupant automobiles and that focuses growth in Regional Centers. On an average weekday in FY2004, the TriMet system served approximately 228,300 originating rides (not counting transfers). By 2020, the RTP calls for that number to increase to more than 500,000 originating riders.

The region depends on TriMet to improve service to encourage and accommodate the growth in demand for transit. If TriMet is not able to expand service to accommodate the expected growth, we will fall short of our regional livability goals and air quality commitments.

The RTP calls for High Capacity Transit and Frequent Service bus lines to become the backbone of the transit system, serving major corridors and connecting Regional Centers to each other and to the Central City.

Most new development in the region is planned to be within a five-minute walk of transit service. A more extensive grid network of east-west and north-south bus service, to the extent allowed by existing roads and topography, creates a high level of coverage to access the Central City, Regional Centers, Main Streets, Corridors and light rail station areas.

- The RTP identifies 18 corridors that are important for travel by auto, transit and freight. Metro-led studies were recently completed for the South Corridor (Hwy 99E from Portland to Oregon City and I-205 from Gateway to Clackamas Town Center). Local funding for that recommended project is in place and Federal funds are now being sought.
- In June 2002 the Oregon and Washington Departments of Transportation with a Governors Task Force made recommendations for multi-modal investments in the I-5 corridor across the Columbia River. Those recommendations were extended to include similar investments in the I-205 corridor. That work resulted in the start of an Environmental Impact Statement that will address the multi-modal strategies identified in that plan.
- Phase 1 study of transportation needs in the Powell-Foster corridor calls for Bus Rapid Transit that would provide similar service features as light rail, extended from Portland ultimately to Damascus.
- Metro is advancing a Highway 217 corridor study. Those recommended transportation investment would compliment the introduction of commuter rail in that corridor.

• A merged transit alternatives analysis is being initiated for transit and trail improvements in the Portland-Lake Oswego corridor to Lake Oswego as well as an Alternatives Analysis to examine the potential for an Eastside Streetcar loop.

Making transportation investments in Regional Centers fosters development that can be efficiently provided with public services. Finally, areas proposed to be included within the urban growth boundary will be the focus of transportation improvements so they develop in ways that are less dependent upon cars.

The policies in the 2004 Regional Transportation Plan emphasize transportation alternatives for travel to work, shopping, and recreation. The policies also focus on ensuring that all layers of the region's transportation system work together in the most effective way possible. Local Transportation Systems Plans complement TriMet's TIP with related infrastructure improvements.

2. Transit System Status

TriMet provides a viable transportation option for thousands of Portland area residents every day. Ridership is expected to total 95.7 million boardings in FY2006.

TriMet was created in 1969 as a special district of the state of Oregon and is governed by a seven-member board of directors appointed by the Governor. TriMet's 575 square mile district serves 1.3 million people in the urban portions of Clackamas, Multnomah and Washington counties.

The TriMet fleet of 626 buses serves more than 90 bus lines and seasonal shuttles with 7,744 bus stops and 1,100 bus shelters. There are 164 miles of Frequent Service bus lines that provide fifteen minute or better service seven days a week. The MAX Light Rail system is 44 miles long and also operates at least every fifteen minutes. Over one-half of the district's population lives within one-half mile of TriMet service that arrives every fifteen minutes or better.

In addition to bus and MAX service, TriMet meets the needs of eligible elderly and disabled individuals with the LIFT and Medical Transportation Programs. TriMet operates 225 LIFT vehicles, providing door-to-door service for people with special needs. TriMet provides over eight million rides to seniors and people with disabilities on the fixed route system and an additional 958,000 rides on LIFT.

Fixed Route Service

TriMet's network of fixed route bus and rail lines attracts riders making trips at a variety of times and locations. The system is based upon a grid of north-south and east-west transit routes on arterial streets serving the Central City as well as cross-town trips. This grid serves the more densely populated parts of the region with weekday service on most lines operating at least every 15 minutes. Less frequent service connects lower density areas to transit centers (located in Regional Centers and some Town Centers). Though many of the routes serve downtown Portland or Regional Centers because they have the highest travel demand, the system design allows travel from any point in the system to any other point, without necessarily passing through downtown. Bike lockers, Park & Ride lots, sidewalks and shuttles provide access to transit from areas without fixed route service. Overall, 90 percent of people within the TriMet district live within one-half mile of TriMet service.

Table 2.1 Fixed Route Summary

	MAX Light Rail	Frequent Service Bus	Standard Service Bus
Routes	3	16	77
Length	44 mi	164 mi	728 mi
Vehicles Peak Service	82	204	330

Table 2.2 MAX Light Rail Summary

Line	Project / Construction segment	Open	Length (mi)	Annual Ridership Opening Year	Annual Ridership FY2006	Stations	Park & Ride Spaces
		Dat	a for each co	nstruction segm	ent		
Blue Hillsboro to	Eastside Portland to Gresham	September 1986	15	6,600,000		30	3,054
Gresham	Westside Hillsboro to Portland	September 1998	18	5,900,000		20	3,613
Red Beaverton to Airport	Airport Gateway to Airport	September 2001	5.5	571,484	32,591,800	4	193
Yellow City Center to Expo	Interstate Rose Quarter to Expo	May 2004	5.8	3,900,000		10	604

Development

The Gateway Transit Center is designated as a 2040 Regional Center and is an urban renewal district with aggressive redevelopment plans underway. The transit center will soon be a hub for three light rail lines. TriMet is working with the Portland Development Commission, the Gateway Program Advisory Committee and a private developer to transform the 6.5-acre and Park & Ride lots into a phased active mixed use development. In the first phase 140 parking spaces have been relocated to the NE 122nd Ave MAX station and 480 parking spaces ware available in a 3-level parking structure that opened in 2006.

The development of the Yellow Line coincided with the creation of the Interstate Avenue Urban Renewal Area. In November 2004 the new Interstate Fred Meyer store opened, representing the largest of new developments along the Yellow Line alignment. Other retail and housing developments are currently underway, all conveniently located at MAX stations.

Portland Streetcar

The Portland Streetcar extended its existing 4.8-mile loop by an additional 1.2 miles to Riverplace in March 2005. Construction is currently underway to extend streetcar operation to SW Moody/Gibbs in the South Waterfront District, with service currently slated for late 2006.

Today, the Portland Streetcar serves a 6-mile loop linking Riverplace, Portland State University, the Pearl District, the Northwest Neighborhood and MAX Light Rail. The streetcar was constructed by the City of Portland through a partnership with adjacent property owners, managed by a non-profit organized by the City, and operated by TriMet personnel under an agreement with the City. The City of Portland and TriMet share operating costs. After it is extended in 2006, the streetcar would connect at SW Gibbs with an aerial tram to the main Oregon Health Sciences University campus on Marquam Hill.

Ridership

TriMet's annual ridership has increased every year since FY1988. Passengers boarded a TriMet bus or MAX train 95.7 million times in FY2006. Ridership growth reflects the investments TriMet has made in improving service, especially on Sundays. Since 1998, the portion of weekday riders served by Frequent Service increased from 17 percent to over 50 percent. All of the net bus system ridership growth since FY1999 has been on Frequent Service lines. Overall, TriMet ridership is increasing faster than other indicators of regional growth, including population.

3. Priority 1: Build the Total Transit System

The Total Transit System describes the elements that make transit attractive to riders. This chapter details investments in five of these elements, specifically:

- Customer information regarding TriMet service
- Access to transit via walking, bicycling or driving
- Passenger amenities at transit stops
- Quality service that is frequent, reliable and comfortable
- A safe and secure trip

TriMet and its partners are investing in the Total Transit System to not only meet the current demand for service, but to attract the level of ridership called for in the RTP. This is the foundation for growing the system.

Customer Information

Clear and relevant customer information is an essential component of the Total Transit System. What is considered critical customer information varies according to need. First-time or infrequent riders may require an overview of the entire system along with specific information on fares, routes, and schedules. For regular riders, it is important to have timely updates regarding service to aid their transit planning pre-trip, on-street (or wayside) and onboard.

Because TriMet serves a broad customer base, with varying needs and levels of access, it is important to provide information in as many forms and across as many distribution points as practical. The following chart demonstrates TriMet's customer information types and sources. This chart identifies the relevant type of information and the most pertinent tools available to access and make use of that information at each stage of transit trip planning, as indicated by the check marks in Table 3.1.

Table 3.1
TriMet Customer Information

Information Need	Information source					
	Pre-trip			On-street		On- board
	Print materials	Landline phone	Online	Display	Cell phone	Display/ print materials
Schedule	•	•	•	•	•	•
Мар	•	•	•	•		•
Trip planning	•	•	•		•	
Arrival time		•	•	•	•	
Delay information		•	•	•	•	
Stop locations	•	•	•	•	•	•
Trip length/time	•	•	•	•	•	•
Route options	•	•	•		•	•
Transfer information	•	•	•		•	•
Service frequency	•	•	•	•	•	•
Park & ride info	•		•		•	•
How to ride/fare info	•	•	•	•	•	•
Time of day		•	•		•	

Schedule Information

Schedules for buses and light rail allow customers to determine planned arrival and departure information, either before beginning a trip or while a trip is in progress. TriMet provides this information in multiple forms:

- Printed maps at the TriMet Ticket Office and online at trimet.org
- Printed schedules at the TriMet Ticket Office, onboard buses and MAX trains and at schedule and sales outlets
- Printed schedule information at heavily used stops and transfer points. Currently there are 4,500
 information displays at stops, stations and shelters throughout the TriMet system, with a goal of
 eventually providing schedule information at every stop
- Telephone access to schedules 24 hours, seven days a week in English and Spanish and via TTY
- Schedules on television monitors on the Portland Mall

• Internet access to all schedules and maps at TriMet's website, trimet.org including downloadable schedules for personal digital assistants (PDAs).

Trip Planning

Customers can plan trips in advance by telephone (503-238-RIDE), online at trimet.org or at the tripplanning kiosk at TriMet's Ticket Office at Pioneer Courthouse Square. TriMet processes 1.7 million tripplanning requests each year. Of those, 1.3 million trips are planned by customers at trimet.org.

Transit Tracker

TriMet's Transit Tracker uses satellite technology to track buses. It allows customers access to the projected time the bus or train will arrive. Transit Tracker is available at 37 bus and 24 MAX stops and online at trimet.org for all bus stops and MAX stations. Wireless access for PDAs and Internet-ready cell phones is also available.

In addition, Transit Tracker is now available on touch tone phones (land line and cell). Customers can call 503-238-RIDE and enter their Stop ID number to get real time arrival information 24 hours, seven days a week in English and Spanish. Through the first five months of this program, TriMet customers are calling to get real time arrival information for their stop an average of more than 375,000 times per month in May 2006, up from an average of 85,000 times per month in FY2005.

Stop ID numbers are assigned to each bus stop and MAX station in the TriMet system. Currently, customers can access the Stop ID number for their stop location by going online at trimet.org or by calling 238-RIDE and using the automated system; trip planners at the Customer Service Center include Stop ID numbers in all itineraries.

Since September 2005, Stop ID numbers have been listed in timetables and at bus shelters and MAX platforms. Stop ID numbers will also be added to all new bus stop signs as they are installed. About half of all bus stops will have a Stop ID posted by the end of FY2007.

Personal Service

TriMet's commitment to accessible customer information includes direct personal contact with customers. In any given month, upwards of 80,000 contacts with customers are made over the telephone, at the Ticket Office counter, at Portland Airport and at special events.

The TriMet Ticket Office at Pioneer Courthouse Square offers ticket and pass sales, trip planning assistance and general customer information. At 503-238-RIDE, customers can get assistance from live operators for trip planning, fare information and related transit service information. TriMet's telephone operators will also log customer comments, suggestions and complaints into a Customer Service Information database. These calls are logged, tracked and responded to as part of an agency-wide customer service commitment. Finally, dedicated on-street Customer Service Representatives are deployed to assist customers during special events and whenever there are service adjustments or service disruptions.

Access to Transit

Investments in transit service are only useful to riders if they can get to it. The majority of riders access transit by walking. The chart below, from TriMet's 2002 Origin-Destination Survey, shows how people access transit from home.

Figure 3.1
Access to Transit from Home



Pedestrian

The Total Transit System includes safe and convenient pedestrian access to transit with sidewalks, crosswalks and trails. Every transit rider is a pedestrian at some point in his or her journey. Pedestrian access is the most important mode for meeting local service needs. Maximizing transit ridership depends on safe, welcoming and direct pedestrian access to transit stops. Many people are willing to walk up to one-quarter mile to a bus or streetcar stop or one-half mile to MAX, Frequent Service or Commuter Rail.

Ninety percent of the region's population lives within a half-mile of a bus stop or light rail platform. However, sidewalks connect to only about 69 percent of the stops. Discontinuous sidewalks, indirect routings, and difficult street crossings discourage local circulation and transit use. Given that half of all bus rides are on Frequent Service, TriMet is interested in working with local jurisdictions to focus pedestrian enhancements on these key corridors.

To this end, TriMet and Metro completed a region-wide sidewalk inventory to document the presence or absence of sidewalks on each side of the street, sidewalk coverage per block, marked crosswalks on major arterials, and traffic signals. The inventory is used to find pedestrian access gaps along or within one-quarter mile of existing and proposed Frequent Service routes.

TriMet will provide an inventory of high-use bus stops for jurisdictions to use in planning pedestrian investments. Criteria for allocation of Metropolitan Transportation Improvement Program funds support the development of sidewalks, trails and bike routes. Many jurisdictions are using those funds to provide improved transit access. Private development also plays an important role in providing these needed connections. Additional resources are needed to make significant progress in providing access to transit.

There is a similar need for safe street crossings where bus routes follow major arterial streets and highways. Busy streets with signals spaced far apart are barriers to safe access to transit. Neighborhood-

oriented streetscape improvements may not all be applicable to such busy streets. TriMet has been working with ODOT and other jurisdictions to identify these difficult locations and to begin to make improvements.

TriMet will work with Metro to integrate the most recent bus stop information into the next RTP update. Major transit stops identified in the RTP will reflect TriMet's levels of bus stop use and priority. This will in turn facilitate the inclusion of this information in local transportation system plans and allow jurisdictions to better build capital development work programs in concert with transit needs and priorities.

Bicycle

Bicycle infrastructure extends the reach of the public transit system. All TriMet buses have bicycle racks and all MAX trains have designated bicycle areas. Bicycles are allowed on the Portland Streetcar. Most stations, transit centers, and Park & Ride lots have bike racks or lockers. TriMet offers over 340 bicycle lockers. TriMet will continue to promote bike access to transit by expanding the distribution of bike racks and lockers as new investments in high capacity transit are made. TriMet will work with local jurisdictions to improve bike access and awareness of bicycle facilities in the metropolitan area. High capacity transit corridors will preserve, enhance or establish bike routes.

Table 3.1 Bicycle Projects

bicycle Projects					
Project	Status				
Hollywood Transit Center: new smart card lockers, new bike lane and wayfinding	Construction began in July 2006, expected completion in FY2007				
Test triple bike racks on 2 hybrid buses	Testing to begin in FY2007				
Rose Quarter Transit Center: Stop Relocation and new bike lanes	Seeking funding. Construction possible FY2008.				
Portland Mall: Attended bicycle parking in lieu of lockers	Seeking partnership with PSU and the City of Portland to provide attended bike parking and some shop services on the South Mall.				
I-205 Light Rail	Working with City of Portland to optimize distribution of required bicycle lockers. Possible installation of smart-card ondemand lockers, with bike rental capability. Additional short-term parking may be provided if funds are available. TriMet is also working with jurisdictional partners to improve access to MAX via the I-205 multi-use path.				

Park & Ride

Park & Ride lots provide access to transit in locations that are not well served by bus lines and at rail platforms outside the Central City. These parking lots are either owned by TriMet or provided in a shared

use arrangement through churches, movie theaters, or retail establishments. Users may park free of charge up to 24 hours or as posted at 57 Park & Ride lots.

TriMet provides over 10,000 parking spaces for Park & Ride commuters. Sixteen of the 21 TriMet-owned lots are on MAX lines. Dedicated lots provide 80 percent of the total Park & Ride capacity. While many of these lots are used beyond capacity, overall use is at 80 percent of capacity. Shared use lots are a tradition in Portland as these lots once provided the entire Park & Ride capacity for the system. Today the 36 shared use lots make up 20 percent of the system capacity. Shared use parking lots make maximum effective use of existing community investments in parking. While generally provided by institutions as a community service, TriMet often enters into agreement for nominal improvements or maintenance of these lots. Challenges include managing over-use of these lots and liability protection for the partner institution. It can be difficult to locate shared lot partners at attractive locations and with demand on the lots that complements the weekday work schedules of Park & Ride commuters. TriMet continues to explore opportunities for additional shared use Park & Rides at locations that effectively supplement fixed route services.

Ouick Drop

Many centrally located MAX stations and transit centers are provided with curbside locations where transit riders can be met or dropped off. These facilities make it easier for families or carpoolers to coordinate trip making. Quick Drop locations were added to the system in conjunction with the opening of the Airport MAX Red Line to make it easy for passengers with luggage to access stations. TriMet continues to incorporate Quick Drop facilities as MAX stations and transit centers are redeveloped.

Stops and Shelters

There are 7,700 bus stops, 1,090 bus stop shelters, 570 trashcans and over 1,800 benches for TriMet riders. When placing stops, TriMet tries to use locations that are accessible by sidewalks, near crosswalks, safe, convenient, visible and well lit. TriMet continues its implementation of a multi-year bus stop development program that includes placement of new signs and poles at stops, additional shelters and benches, and more lighting at stops. New signs and poles include a schedule display, Stop ID number and Frequent Service branding (where applicable). 35-40 new shelters and 35 solar lighting installations are planned for FY2007. In addition, a new type of bus stop sign for very busy stops is being tested in downtown Portland. 36 of these signs will be installed for the Temporary Portland Mall reroutes.

Capital program efforts will look for partnerships that match bus stop investments with sidewalk and crosswalk improvements. New development will continue to be asked to provide some of this bus stop and amenities investment.

Shelter expansion opportunities will be coordinated within local area plans and will address regional needs and priorities. Stop names (based upon intersection) and ID numbers will be posted at shelters starting in FY2007.

Ridership, number of transfers, type of destination and land use were analyzed to categorize bus stops as level 1, 2 or 3. These criteria are detailed in the appendix.

New Signs, Poles & Schedule Displays Updated-June 2006

Opaatea-June 2006						
Project Year	Routes (sorted by proposed order)	Status				
	4-Fessenden	Completed				
	4-Division	Completed				
2003 Work Plan Elements	6-MLK	Completed				
* Finalize New Look Sign	8-Jackson Park	Completed				
Design * N/NE Focus Area	8-Dekum	Completed				
* Frequent Service Emphasis	9-Powell	Completed				
* NW Portland Changes	9-Broadway	Plan				
* Coord. with Interstate MAX	67-Jenkins/158th	Completed				
	NW & Fareless Portland Sign Changes	Substantially completed				
	Final Routing changes in NE Area	Completed				
2004 Work Plan Elements	68-Collins Circle	Completed				
* Finalize N/NE Changes	33-Fremont	Completed				
* Finalize Interstate Changes	75-39th Ave/Lombard	Sustantially completed				
* Emphasis on Frequent Service	72-Killingsworth/82nd	Sustantially completed				
Service	14-Hawthorne	Portionscomplete.				
2005 Work Plan Elements	12/94-New sign Change Outs	Completed				
* Upcoming Frequent Routes	33/99-McLoughlin	Completed				
* Emphasis on high ridership	15-Belmont	Completed				
service	57-TV Highway	Completed				
* Tap Commuter Service	58-Canyon Rd	Completed				
* Tap Commuter Service		·				
	58-Canyon Rd 70-12th Avenue	Completed Completed				
	18-Outside NW Portland	Completed				
	65-Marquam Hill-Milwaukie TC	Completed				
	64-Marquam Hill-Tigard TC	Completed				
	54-BH Hwy	Completed				
2006 Work Plan Elements	56-Scholls Ferry Rd	Completed				
* Combination of Regular,	95-Tigard/I-5 Express	Completed				
Local &	35-Macadam	Underway				
commuter emphasis	16-Outside NW Portland	Underway				
* Future Frequent Route	92-So. Beaverton Express	Underway				
	17-Outside NW Portland	Planning				
	96-Tualatin/I-5	. iaiiiiig				
	20-Outside NW Portland					
	77-Outside NW Portland					
	63-Washington Park					
	71-60th/122nd Ave					
	76-Beaverton/Tualatin					
	78-Beaverton/Lake Oswego					
	19-Glisan/Woodstock					
	74 -Lloyd District-SE					
	10-NE 33rd Ave/Harold					
	1-Greeley/Vermont					
1	· // · · · · ·	1				

		L.,
Project Year	Routes (sorted by proposed order)	Status
	31-Estacada	
	22-Parkrose	
2007 Work Plan Elements	23-San Rafael	
* Combination of Regular,	27-Market-Main	
Local &	28-Linwood	
commuter emphasis	29-Lake-Webster	
* Future Frequent Route	40-Mocks Crest/Tacoma	
-	43-Taylors Ferry Rd	
	45-Garden Home	
	61-Marquam Hill-Beaverton	
	66-Marquam Hill-Hollywood TC	
	79-Clackamas Town Center	
	32-Oatfield	
	34-River Rd	
	36-South Shore	
	37-North Shore	
	38-Boones Ferry Rd	
	39-Lewis & Clark	
	47-Base-Evergreen	
	49-Quatama	
	48-Cornell	
	51-Vista	
	52-Farmington-185th	
	88-Hart-198th	
2008 Work Plan Elements	55-Hamilton	
* Last Year of Changeouts,	89-Tanasbourne	
including	62-Murray Blvd	
low performing routes	152-Milwaukie	
* Includes Coordination with	46-North Hillsboro	
I-205 Light Rail Project	53-Arctic-Allen	
* Coordinate with Clackamas	59-Walker-Park Way	
Co. changes	60-Leahy Rd	
	80-Kane Rd-Troutdale	
	81-Kane Rd-257th	
	82-Eastman-182nd	
	84-Kelso-Boring	
	87-Airport Way-181st	
	155-Sunnyside	
	156-Mather Rd	
	157-Happy Valley	
-	154-Willamette	-

Service Quality

High quality transportation is key element to the Total Transit System. Frequent, reliable and comfortable service on modern vehicles is fundamental to improving service quality and attracting new riders. TriMet will maintain and improve the quality of its transit service as described below.

Frequency

Frequency (service at least every 15 minutes throughout the day) contributes to ridership in several ways:

- It reduces actual and, even more substantially, perceived travel time by transit
- It makes the need to transfer less onerous. Given contemporary multi-destination travel patterns, TriMet cannot connect all the origins and destinations with direct service. If the transfer wait time is short and the transfer environment is good, customers will be much more willing to transfer
- It makes transit more attractive for short trips. Most trips by automobile are short, so it is important for transit to attract these trips in order to increase ridership and meet RTP goals, particularly for transit ridership to Regional and Town Centers and along Main Streets
- It makes transit convenient, an essential element in attracting more trips.

Reliability

TriMet's market research shows that transit service must be reliable in order to be a viable alternative transportation choice. This is achieved by writing accurate schedules; minimizing the time buses are delayed by traffic congestion; using efficient boarding and fare payment systems; proper training and supervision of drivers; and restoring service promptly after a disruption. Over the last five years, TriMet has invested in several key physical, operational and technological improvements to increase reliability through its Streamline program.

The Streamline program has been effective in meeting most of its objectives as outlined below:

- 1. Travel times have increased on Streamline routes about half the amount of non-Streamline routes
- 2. Access to transit has been enhanced both at bus stops themselves and by improving access from adjacent neighborhoods to bus stops.
- 3. Average weekday ridership on streamlined routes has grown by 12,000.
- 4. Several improvements, most notably along lines 14 and 72, were made that are consistent with and have helped prepare routes for possible bus rapid transit, and have increased the total carrying capacity of the street system.

Individual capital projects have improved safety for passengers, pedestrians and other traffic with new traffic signals, reconfigured intersections and shorter pedestrian crossings.

Transit-preferential improvements along roadways that help keep buses moving include transit signal priority (extended green-light time for all traffic traveling in the direction of a bus that is 30 seconds or more behind schedule), jump lanes at intersections, bus stops with curb extensions, re-spacing of bus stops and other management and route design measures to reduce running times and improve reliability. This program covered the installation of transit signal priority at 275 intersections, the installation of Opticom emitters on 97 percent of the TriMet bus fleet and an upgrade of the agency's bus tracking system, and construction or installation of physical improvements to the transportation system and bus stops. Since the beginning of the Streamline efforts, on-time performance has increased from 79 percent to 83 percent .

Case Study: 70-12th Ave

As part of TriMet's efforts to better place stops, some poorly spaced and low performing bus stops were removed on Line 70-12th Avenue. Currently some stops along the route are spaced as close as one block

apart, causing many unnecessary stops. TriMet can increase service efficiency and reliability simply by asking customers to walk an additional block or two. With fewer stops, amenities can be concentrated at the remaining stops to benefit more customers.

This work is combined with the installation of TriMet's new bus stop signs and blue poles. Roughly 20% of redundant stops were removed. 100 new poles with schedule displays and bus stop ID #s. The changes to line 70-12th Ave are part of a larger effort to streamline TriMet bus service. The increased reliability and efficiency will greatly improve overall service and should make it easier for bus operators to stay on schedule.

On-Time Performance

Signal modifications and track layout changes are used to increase reliability of train operations as the rail network expansion involves more merges and higher train volumes.

TriMet improves internal operations to ensure that buses and trains leave the end of the line on time, that schedules reflect realistic running times, provide balanced layover times, and that service disruptions are addressed quickly. Efforts are also underway to work with operators and other field personnel to improve on-time performance and operating conditions.

A bus or train is considered on time if it arrives no more than one minute early or five minutes later than its scheduled arrival time. Information on bus and train arrival times is continually collected and summarized each quarter. The goal is for at least 90 percent of all bus trips and 95 percent of MAX trips to arrive at timepoints on time during an average weekday, Saturday or Sunday.

It is projected that 80 additional weekly vehicle hours and three peak buses would be needed so that schedules better match actual conditions (considering lines on which median run times exceed scheduled run times, and that have an average more than 15 boarding rides per vehicle hour).

Table 3.2
Average Passenger Capacities per Low-floor Vehicle

Low-Floor Vehicle	Passenger Capacities (Average during peak one hour in peak direction of travel)						
	Seated Standing Total						
30-Foot Bus	28	2	30				
40-Foot Bus	39	12	51				
Light Rail Vehicle	64	69	133				

Based upon the passenger capacities for different vehicles, up to seven additional afternoon rush hour buses may be needed by September 2009 (FY2010) based on ridership growth projections. Actual afternoon peak hour ridership growth rates (Fall 1998-Spring 2004) were applied to FY2004 passenger loads to develop projections. Table 3.3 shows which lines are expected to be over capacity in the next 5 years.

Table 3.3 Bus Passenger Volumes FY2004-FY2010 Weekday PM Peak Hour

Line	Trips	Peak Hour Volume	FY2004 Percent Achievable Capacity	Peak Hour Passengers	FY2010 Percent Achievable Capacity (no new trips)
94- Pacific Highway Express	6	215	69%	387	126%
61- Marquam Hill/ Beaverton	2	82	79%	110	78%
68-Collins Circle	5	157	61%	269	105%
72-Killingsworth/82nd Ave	8	339	82%	413	101%
66-Marquam Hill/Hollywood	2	84	82%	99	97%

TriMet modifies bus schedules and routes to manage capacity and maximize service productivity. Productivity is measured as the portion of time that buses spend serving passengers (revenue hours) compared to the total time that buses are out of the bus yard (vehicle hours). Vehicle hours include revenue hours, time between ends of lines and the garages (deadhead hours), and schedule recovery/operator break times during the day (layover hours). Productivity enhancements balance layover hours to provide schedule recovery time when and where it is most needed. This increases the overall usefulness of transit service by reallocating service (lines and parts of routes) with low ridership to lines with higher ridership potential. Allocation of service to meet customer demand is important for ensuring adequate frequency and availability of seats.

TriMet has established criteria to identify low-performing lines based on those lines with less than one-half the system average weekly boarding rides per vehicle hour. Those lines with 10 to 15 weekly boarding rides per hour are considered to be performing at a marginal level and lines with less than 10 weekly boarding rides per hour are considered to be performing at a low level. Low and marginal-performing lines are regularly reviewed for opportunities to improve ridership, raise service productivity, and potential to reallocate scarce resources for greater benefit.

TriMet designates specific low-performance lines as a focus for review and improvement during the upcoming fiscal year. In selection of lines for review TriMet may also consider factors such as prior service adjustments, other lines also serving the area, and opportunities to coordinate with other planned service changes, the role of a line in providing essential service to transit dependent riders, and the scope of resources involved.

The review process for a line includes timely notification and opportunities for riders, local jurisdictions and other interested parties to participate in the review. In the process of review TriMet considers a variety of possible actions to increase rides and boost productivity such as modifying routes and schedules, improving access to stops, promotion and awareness efforts, and other opportunities. The range of potential changes may include: modifying routing on an entire line or a portion of a line; schedule adjustments spanning all service days/hours; service changes on weekdays, Saturday, or Sunday; schedule adjustments during weekday peak or non-peak periods; or adjustments on individual trips.

After initial review, consultation and comment a decision will be made on the next steps and the timeframe for actions to be taken. If the decision is to modify the current service a 6-12 month trial

period is typically set and the reconfigured service is reviewed after that time to determine whether or not performance has improved and the need for further action.

When service fails to reach acceptable performance and actions to modify service are not feasible, TriMet may propose discontinuation of service. In advance of a decision to end service riders, jurisdictions and other interested parties are notified and given opportunity to comment in assessing a potential elimination of service, consideration is given to resources available in the community to assist those riders with special mobility needs associated with aging or disability. TriMet will also review park & ride options for the affected area and look for new shared-use opportunities for parking where current options are limited or unavailable.

Table 3.4 lists low and marginally performing lines based on FY2006 weekly boarding rides and vehicle hours. All lines shown have less than one-half the system average weekly boarding rides per hour and more than double the system average cost per boarding ride.

In FY2007 TriMet will focus on reviewing and addressing low performance on lines 59-Walker/Park Way, 63-Washington Park, 86-Alderwood, 157-Happy Valley, and the Cedar Mill Shuttle. In addition, the performance of Line 39-Lewis and Clark will be assessed as of six months following service changes implemented on June 4, 2006.

Table 3.4 FY2006 Low and Marginally Performing Lines

	Line	Weekly Boardings	Weekly Vehicle Hours	Weekly Boarding Rides/ Vehicle Hour	Cost/ Ride	PM Peak Buses
	Cedar Mill Shuttle	460	83	5.5	\$14.59	2
	84-Kelso-Boring	158	22	7.2	\$11.16	0
;	39-Lewis & Clark (1)	696	81	8.6	\$9.37	1
Low performing <10 BR/VH	86-Alderwood	170	18	9.2	\$8.76	1
Low perf	27-Market-Main	612	66	9.3	\$8.72	1
	37-Lake Grove	653	65	10.0	\$8.06	1
	60-Leahy Road	268	26	10.2	\$7.96	1
	59-Walker/Park Way	1,352	129	10.5	\$7.70	2
	36-South Shore	1,335	126	10.6	\$7.62	3
	154-Willamette	423	39	10.8	\$7.50	0
	18-Hillside	378	33	11.6	\$6.95	1
	63-Washington Park	992	81	12.3	\$6.58	1
	28-Linwood	1,198	93	12.9	\$6.26	1
	23-San Rafael	695	53	13.1	\$6.18	1
ing	41-Tacoma	1,162	88	13.2	\$6.14	2
TT.	34-River Road	1,603	119	13.5	\$6.01	2
erfo	25-Glisan-Rockwood	730	54	13.5	\$5.98	1
± ± ≥	157-Happy Valley	718	52	13.9	\$5.81	1
Marginally performing 10-15 BR/VH	38-Boones Ferry Rd.	1,787	128	14.0	\$5.77	3
argi -15	82-Eastman-182nd	1,015	72	14.0	\$5.76	1
10 M	16-Front AveSt. Johns	2,675	180	14.9	\$5.44	5
	FY2006 Bus System Average ⁽²⁾ (Frequent & Standard Service)			32.8	\$2.47	

Notes:

- (1) Effective on June 4, 2006 Line 39 Lewis & Clark was extended to Hillsdale with buses running every 45 minutes. These changes, on a trial basis, are aimed at increasing ridership and productivity. Performance will be evaluated following a 6-month trial period, in Dec. 2006.
- (2) Bus system average weekly boarding rides per hour for FY2006 fall, winter and spring periods. Bus system 12-month average cost per vehicle hour as of May 2006 was \$80.86.

Modern vehicles

TriMet's newest buses have low floors that make it easier for all riders to get on and off, especially elderly individuals and persons with mobility devices. New buses are also air-conditioned, and have lower emissions than our older vehicles. Future bus orders will include automated stop announcement equipment as well. New light rail cars will continue to be of low-floor design and will feature additional seating compared to existing MAX vehicles.

The following criteria are used to recommend lines for expanded use of low-floor buses:

- Weekly ridership on the route is the primary factor used when determining where to place low-floor buses because the higher the ridership the more customers benefit from air-conditioning and quicker boarding
- Weekly boardings by honored citizens (elderly customers or people with disabilities) who especially benefit from not having to climb steps to board the bus
- Weekly boarding rides that require the use of the lift
- Running the lower-emission buses in neighborhoods with high existing levels of diesel emissions or on the Portland Mall

The lines listed below indicate where TriMet will focus low-floor bus deployment, however. As TriMet assigns buses to serve more than one route in a given day, the agency is not able to guarantee that a particular line will always be served with low floor vehicles.

Table 3.5
Proposed Low-floor Bus Deployment FY2006-FY2010

Line	Year
10-NE 33rd Ave	
10-Harold	FY 2008
77-Broadway/Halsey	
44-Capitol Hwy	
40-Mock's Crest	
52-Farmington/185th Ave	Davitas and listed in
31-Estacada (Proposed Frequent Service)	Routes are listed in priority order.
1-Greeley	Deployment will be based
1-Vermont	on peak pullouts, garage
70-12th Ave	assignment, timing of bus purchases and
62-Murray Blvd	sidewalk conditions.
96-Tualatin/I-5	
35-Macadam (Proposed Frequent Service)	
76-Beaverton/Tualatin (Proposed Frequent Service	e)

Automated Stop Announcements

Automated Stop Announcements (ASA), are planned for all new and existing low-floor buses. TriMet is committed to removing transit-riding barriers for persons with disabilities and is working to fully comply with the Americans with Disabilities Act (ADA) requirement for announcing transit stops. Moreover, the ASA project will improve service quality for all transit riders. The ADA requires that stops be announced

for transfer points, major intersections, destination points, requested stops, and for the bus line number and destination for customers waiting at stops served by multiple lines. TriMet's MAX Light Rail system has included an ASA system on its vehicles since 1997.

The bus ASA system will include internal and external audio announcements, and may include reader board displays of stops inside the buses. No advertising will be included in ASA announcements or displays. TriMet's ASA project staff is consulting with Committee on Accessible Transportation (CAT), disability organizations, and TriMet bus operators in development of the system. The system will be configurable to adjust features such as what is announced, audio volume, etc., based on feedback from bus riders.

In FY2007, system testing will take place on the following routes: 9-Powell, 9-Broadway, 17-Holgate, 17-NW 21st Ave, 57-TV Hwy/Forest Grove. After that, remainder of TriMet's existing 282 low-floor buses will offer ASA.

Safety & Security

Ensuring safe operation of transit service and safe design of transit facilities and equipment is embedded into all TriMet activities. Similarly, all TriMet employees serve as "eyes and ears" for security awareness.

The procurement of new buses and light rail vehicles and the construction of facilities include safety requirements in design and performance specifications, which are verified in design reviews and testing. Safety hazards are formally identified, assessed, and resolved as part of developing specifications and designs. Acceptance testing against safety-related design and performance requirements is formally performed and documented. Certification that all safety design requirements have been met, as well as the following operational safety requirements, is required before completed facilities and equipment are placed into passenger service. Standard Operating Procedures (SOPs) govern all operations, to assure safety and quality.

4. Priority 2: Expand High Capacity Transit

The Portland region is distinguished by making high capacity transit investments that are more than just about moving people. These investments influence land development in support of the 2040 Growth Concept. This chapter details high capacity projects that are in progress as well as areas that are under study for transportation investment.

High capacity transit is the most effective means of serving the high volume travel corridors between 2040 Centers by:

- Operating at speeds and with a ride quality that make transit competitive with the automobile for many trip destinations
- Providing reliable service by avoiding traffic congestion
- Making the most cost-efficient use of vehicles and operators
- Focusing development by demonstrating a long-term commitment to quality transit service
- Using clean power systems that improve air quality in the corridor

High capacity transit need not be limited to light rail. Commuter rail, streetcar and bus rapid transit (priority bus service with limited stops) are being considered to augment the high capacity system, possibly as an interim step toward light rail service. TriMet's Frequent Service, discussed in the next chapter, includes many elements of bus rapid transit.

Current Projects

The following sections describe High Capacity Transit projects led by TriMet, with the exception of the Portland Streetcar. Each project is described in detail on the following pages.

Table 4.1
High Capacity Transit Projects in Progress

Project	Status
Washington County Commuter Rail	Groundbreaking in FY2007
South Corridor / I-205/ Portland Mall	Mall Construction in FY2007
Portland Streetcar	Constructing Gibbs Street extension

Washington County Commuter Rail

The Washington County Commuter Rail line will offer a new transportation choice within the heavily traveled Interstate 5 and Highway 217 corridor. Using existing freight tracks, it will connect to TriMet MAX light rail in Beaverton and serve Washington Square, Tigard, Tualatin and Wilsonville.

The 14.7-mile line will share freight train tracks with the Portland & Western Railroad. There will be five stations with approximately 800 parking spaces at four stations. Self-propelled vehicles would run weekdays every 30 minutes during morning and afternoon rush hours. Travel time via rail between Wilsonville and Beaverton Transit Center is estimated to be 27 minutes versus a projected future travel time of 40 minutes by auto.

The cost for the project is \$103.5 million, 50 percent from federal funds. In addition, the project will make some associated roadway improvements with local-only funds.

Total population in the commuter rail corridor is forecast to increase by more than 45 percent by 2020, with employment expected to increase by more than 88 percent during the same period. Regional plans identify over 29,000 new homes and apartments and 65,000 new jobs in the corridor cities by 2017.

Pedestrian access and bus transfers along this line would be reviewed to consider connections to the rail service. Local governments and businesses would be encouraged to develop vanpool shuttle connections to nearby employment areas and attractions.

South Corridor I-205 / Portland Mall Light Rail Project

The South Corridor I-205 / Portland Mall Light Rail Project will construct 8.3 miles of light rail in two segments with 15 new stations and approximately 2,000 additional Park & Ride spaces. The MAX Green Line will operate along 6.5 miles of rail I-205 from Clackamas, serve existing stations from Gateway to the Rose Quarter, and then use new track on the Portland Mall. Three miles of the I-205 extension will be on a grade-separated alignment that was reserved and graded as a transitway when the freeway was originally constructed, reducing project costs and minimizing impacts.

In downtown Portland, 1.8 miles of new track on 5th and 6th Avenues are planned, serving 7 stations from Union Station at the base of the Steel Bridge to Portland State University. The provision of a north-south MAX alignment in the downtown connects Portland State University, the largest single transit trip generator, to the light rail system, and provides circulator service along the spine of downtown to allow better mobility for those traveling within downtown. The alignment is a springboard for light rail to Milwaukie and for a potential extension into the southwest.

The projected ridership of the MAX Green Line is 46,500 daily boarding rides in the year 2025 (Final Environmental Impact Statement, November, 2004). A total of 38,800 daily transit riders (83% of the total) are projected to travel to, from, or within the I-205 segment in 2025. The I-205/Portland Mall Light Rail Project will cost approximately \$493.7 million (in 2006 dollars). The region is seeking 60% of the cost from the Federal 5309 New Starts program. The remaining funding share has been secured for the project through urban renewal commitment from 4 districts, an allocation of Federal STP funds allocated through the MTIP, and from TriMet. Construction will begin in FY2007, with a projected opening date of September 2009.

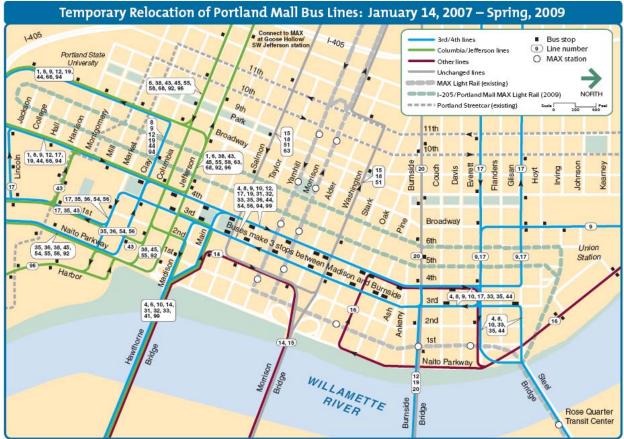
Temporary Bus Relocation Plan (January 2007 – Spring 2009)

- ➤ Bus stops will be located approximately every 4-5 blocks
- > 17 bus lines will run on 3rd and 4th avenues, carrying 85 percent of downtown riders on weekdays
- > 7 bus lines will run on Columbia and Jefferson streets, carrying six percent of weekday downtown riders

- Line 14-Hawthorne will run on SW 2nd Ave and cross the Morrison Bridge before returning to its regular route on SE Hawthorne. Line 14 carries eight percent of downtown riders
- Frequent Service on Line 9-Powell will be extended to the Union Station area to connect with Amtrak and Greyhound arrivals and departures. Night service on Powell will be added between SE 98th and Union Station, running every 15 minutes until about 10 p.m., seven days a week.
- Line 77-Broadway/Halsey will be rerouted to run in front of Union Station
- ➤ Line 1-Greeley will become Line 35-Greeley and continue through downtown as Line 35-Macadam. Line 40-Mocks Crest will become Line 44-Mocks Crest and continue through as Line 44-Capitol Hwy.

The plan will keep traffic on these streets moving, provide access to parking garages and accommodate buses during construction.

Map 4.1
Portland Mall Bus Relocation Plan
rary Relocation of Portland Mall Bus Lines: January



Downtown Service Beyond September 2009

As part of the project, service in downtown will be reconfigured to take advantage of the new opportunities presented by light rail on the Portland Mall. Frequent service bus lines and the Yellow and Green MAX lines will serve on the Mall. Some other bus lines will be distributed on other streets such as Columbia/Jefferson and 10th/11th Avenues to provide a grid of light rail, streetcar, and bus to serve the entire downtown, including growing areas in the west end. Fewer buses will operate on the Mall north of Burnside, where many buses currently operate almost empty or deadhead to the North Terminal near Union Station. In addition, the access to and from the Mall will be simplified to focus on fewer streets. These streets are designated as transit priority or access streets by the City of Portland and will make it easier for transit riders to understand the routings of various bus lines.



Upcoming Projects

TriMet is working with regional partners to study the next investments in high capacity transit. Metro plays a lead role in defining the scope of these studies and alternatives to be considered for each corridor. Metro manages the framework for engaging the community in a discussion of the merits and impacts of each alternative. Annual updates of the TIP will include more detail about these projects as they develop and are included in the Regional Transportation Plan. TriMet will work with Metro to prioritize and implement the expansion of high capacity transit and to create future updates of the Regional Transportation Plan consistent with those priorities. The region's capacity to invest in the transit infrastructure is limited by both the local funding capacity to support at least 50% of the project cost and the Federal government's ability to direct a like amount to this region.

Table 4.2 Upcoming Projects

Study Area/Project	Status
Milwaukie-Portland Light Rail	Supplemental Draft Environmental Impact Statement underway in 2006
Portland-Lake Oswego Transit & Trails	Metro leading Alternatives Analysis
Portland Eastside	Streetcar selected as locally preferred alternative
Milwaukie-Oregon City Rapid Bus	Frequent Service, Park & Ride improvements
Columbia River	Columbia River Crossing Project underway
Powell/Foster	Phase I Study recommendations adopted by Metro Council, October 2003
Damascus	Damascus/Boring Concept Plan
MAX Extensions to Mount Hood Community College, Forest Grove, Tigard	Conceptual Plans to be analyzed by TriMet

Portland-Lake Oswego

A Portland-Lake Oswego Transit Alternatives Analysis began in 2005 under Metro management and will look at streetcar, enhanced bus and other options, together with pedestrian and bicycle trails. The streetcar alternative would be an extension of the Portland Streetcar from the South Waterfront area, potentially using the existing publicly-owned Willamette Shore rail right-of-way, which parallels SW Macadam Avenue and Highway 43 to downtown Lake Oswego and used by a historic trolley line for weekend excursions during the summer. The 5.6-mile line could have 10-11 stations and a transit transfer facility and a Park & Ride lot in Lake Oswego. The single-track line with passing sidings would need to be improved and signal, power and communications systems installed. Bus alternatives focus on the parallel Highway 43.

Portland Eastside

A concurrent Eastside Transit Alternatives Analysis also began in 2005. The TriMet Board adopted the locally preferred alternative, a streetcar couplet on SE MLK and SE Grand Avenues, with some concerns.

There are three principal concerns TriMet has related to Eastside Streetcar construction and operations that are reflected in the conditions listed in the LPA document as well as the Work Program Considerations. vFirst, TriMet is concerned that the alignment on Grand Avenue and MLK may prove problematic for two reasons on these streets:

- Auto traffic which is already heavy on these streets will be further compromised by streetcar operations occupying one travel lane and necessitating additional controlled intersections for safe pedestrian crossing at MLK Boulevard;
- > The effect the alignment on MLK will have on transit connections from the street east to Grand Avenue where east/west transit connections will need to be made. This connection will be particularly acute with elderly and disabled passengers; and

Second, is the source of on-going operating funds. Although no commitment has been made by TriMet to provide any operating revenue for Eastside Streetcar operations (estimated at approximately \$5 million per year), the expectation of at least some advocates of the Portland Streetcar is that TriMet will continue to fund operations at the current two-thirds / one-third ratio of westside streetcar. This is neither likely nor possible – not likely because TriMet funding will be tied to the transit benefit provided by streetcar, which is limited because of extensive service already provided, and not possible because of limited TriMet future resources.

Third, the current state of FTA regulations governing Small Starts do not favor streetcar investments. These regulations are interim, and TriMet and the region have advocated changes to allow development benefits to be considered in the transportation cost/benefit measure. Advancing the Eastside Streetcar within the Small Starts program will require FTA's acceptance of revised measures and demonstration that the project will rate well in relation to those measures in a manner which fully maintains TriMet and the region's credibility with FTA.

Milwaukie-Portland Light Rail

The South Corridor Phase II Milwaukie light rail alignment would cost approximately \$550 million in current year dollars, assuming a new Caruthers Bridge river crossing. The Milwaukie extension, Phase II, would connect downtown Portland, the central eastside industrial area, densely populated southeast Portland neighborhoods and the community of Milwaukie. Frequent Service buses from Clackamas Regional Center and Oregon City would connect to the line in Milwaukie.

TriMet and agency partners also worked closely with a Milwaukie Working Group with broad neighborhood, resident and business representation to refine the selection of a site for the Phase I and the Phase II light rail alignment. As a result of this process, which included public hearings in front of the Milwaukie Planning Commission and City Council. The Working Group recommended, and the City Council has approved, study of the potential for a transit center on McLoughlin Blvd, just south of Kellogg Lake, at the south end of downtown Milwaukie. Additional reviews, including land use changes, engineering, and environmental study will be required for Phase II to move forward.

Oregon City -Portland Bus Rapid Transit

The South Corridor Locally Preferred Alternative (April 17, 2003) calls for "incremental BRT-type improvements" between Milwaukie and Oregon City. The North Clackamas Local Area discussion in Chapter 6 contains more detail on current and near-term efforts toward this end. Currently underway is the addition of a TriMet-owned Park & Ride in this corridor to provide greater access to the high frequency bus service in this corridor. Improvements to the frequency and span of service along

McLoughlin are also identified. Additional enhancements that will require a new source of funding could include transit signal priority and select stop and intersection improvements.

Columbia River

An analysis of alternatives and Environmental Impact Study, to look at options for freeway and transit improvements across the Columbia River at or near the current I-5 bridge began in 2005. The study is led jointly by the Oregon and Washington Departments of Transportation.

Powell/Foster

Metro Council adopted Phase I recommendations of the Powell/Foster Corridor Study in October 2003. Transit recommendations include, bus priority treatments along Powell Boulevard such as signal priority, queue jumps and stop placement at the far side of intersections. The plan recommends "Rapid Bus" implementation concurrent with development in Pleasant Valley and Damascus.

Damascus

Clackamas County, in partnership with Metro, TriMet, ODOT and areas residents is entering the second year of a two-year planning process for the Damascus/Boring area. The Damascus/Boring Concept Plan is a unique opportunity to create a livable community that integrates transit with new development. Transit is an important component of that plan. Policies identified in the Core Values and the Damascus/Boring Concept Plan project goals and principles call for a well-connected and well—designed transportation system that:

- Provides travel options, including transit connections to community destinations and I-205 and Gresham light rail stations
- Reinforces a sense of community and is pedestrian friendly
- Includes regional and community transit service in mixed-use areas and on key streets that is supported by street design, a mix of land uses and transit-supportive densities.

MAX Extensions

Growth of the MAX system to serve more Regional and Town Centers is under preliminary review at TriMet. Potential extensions to Forest Grove, Tigard and Mt. Hood Community College will be examined for cost effectiveness.

5. Priority 3: Expand Frequent Service

Frequent Service buses arrive as often as MAX trains, every 15 minutes or better from the early morning to late in the evening, seven days a week. Frequent service serves Main Streets and connects Regional and Town Centers in the 2040 Plan with each other and with the Central City. Frequent Service is a key way to meet Regional Transportation Plan mode share targets in centers and along main streets. This chapter presents existing Frequent Service and proposed enhancements to the system.

Frequent Service lines are the focus for TriMet and jurisdictional investments in the Total Transit System: additional service, reliability improvements; distinctive branding; improved passenger facilities at bus stops; enhanced pedestrian access; and modern low-floor buses. Frequent Service builds upon TriMet's strong geographic coverage: 90 percent of people in the district live within one half mile of transit service. Adding frequency and amenities to existing routes is more effective in attracting riders than offering new, infrequent routes. Nearly all of the net bus system ridership increases between FY1999 and FY2004 occurred on Frequent Service.

In 1998, four lines had 15 minute or better service available each day of the week. Today, the Frequent Service network comprises 16 bus routes and is 164 miles long. Most recently, Line 75-Lombard/39th Ave joined the Frequent Service network in May 2004, and Line 57-TV Hwy/Forest grove was upgraded in September 2004.

Substantial improvements in local ridership result from Frequent Service. Frequent Service lines, such as McLoughlin Boulevard, provide local access within Milwaukie and Oregon City. For example, less than a quarter of Line 33-McLoughlin ridership is to or from Portland. More riders use Line 33 for local travel within Clackamas County than use it for trips into Portland. Other examples include Line 57-TV Highway in Forest Grove and Cornelius and Line 12-Barbur in Tigard and Sherwood.

Elements of Frequent Service

On weekdays, 15 minute or better service should begin no later than 6:00 a.m. and continue until 10:30 p.m. On weekends, it should begin by 8:00 a.m. and continue until 10:30 p.m. Running buses frequently until 10:30 p.m. matches service levels on MAX. Longer-term improvements (beyond 2010) aim for service at least every 10-12 minutes. Service on these lines before 6:00 a.m. and after 10:30 p.m. may not be as frequent as every 15 minutes. The guidelines for the span of Frequent Service were based on an hour-by-hour ridership productivity analysis for weekdays, Saturdays and Sundays on existing Frequent Service lines and MAX. The morning start of Frequent Service accommodates the early rush hour commute. Evening productivity remains strong (above the bus system average of 31 boarding rides per vehicle hour) until after 10:00 pm. The 10:30 p.m. end time for Frequent Service corresponds to end times for evening activities, based on a survey of evening college classes, movie theaters, shopping and event centers.

Eight Frequent Service lines have 15-minute service after the evening commute or at night. Four Frequent Service lines in North and Northeast Portland gained early morning and late evening service as part of the reallocation of buses from Line 5-Interstate (replaced by MAX in May 2004).

Frequent Service lines that provide regional connections, such as McLoughlin and Barbur/ Pacific Highway, have Frequent Service Express service during rush hours complementing the local Frequent Service. Lines 99-McLoughlin Express runs from Portland through Milwaukie and region City to Clackamas Community College every fifteen minutes with only ten stops outside of Portland and 94-Pacific Highway Express runs every ten minutes from Portland through Tigard, King City and Sherwood with ten stops outside downtown Portland.

Frequent Service Stop Amenities

Part of the total transit trip, the bus stop experience is oftentimes cited by transit users as being as important as the onboard experience. Rider amenities such as shelters, trash cans, lighting, and sidewalks are installed by TriMet and local governments when a line is upgraded to Frequent Service.

In Fall 2004, TriMet tested a solar lighting installation in one shelter at 234th Ave. and TV Highway. The solar panel can operate in cloudy, winter weather.

Frequent Service Marketing

TriMet has implemented an integrated marketing campaign with the theme "The Wait is Over," to increase customer awareness and ridership on Frequent Service lines by promoting a combination of elements, including:

- New low-floor buses with new identity graphics and Frequent Service icons
- New bus stop signs, highlighting Frequent Service
- Frequent Service campaign ads on buses, benches and bus shelters
- Frequent Service brochures
- Promotion on trimet.org
- Frequent Service identification on customer information, including:
 - Schedules and timetables
 - o System map
 - Bus shelter information displays
 - o Single time point schedules at selected bus stops

This program seeks to make it easy for customers to recognize which bus lines run frequently, at a glance, when looking at a bus, map, schedule or bus stop sign.

30

Frequent Service Development					
The 2002 TIP proposed adding over 110 miles to the Frequent Service system to serve 65 percent of weekly bus ridership on 22 Frequent Service lines. Since FY2002, 39 net miles have been added to the system.					

Table 5.1
Frequent Service Development

	Frequent Service Development								
		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
	Number of FS lines	4	9	9	14	14	15	16	16
istics	FS Route mileage	39	88	88	125	125	138	164	164
nd Stat 30)	Weekly FS Ridership	210,190	396,050	413,880	531,625	549,250	593,425	685,136	Awaitin g
Fiscal Year-end Statistics (June 30)	Weekly Share of all bus ridership	18%	34%	34%	43%	45%	48%	56%	Final
E	Peak buses	66	128	128	175	175	190	204	data
			Sep 1999 Service Change		Sep 2001 Service Change		Oct 2003 Service Change	Sep 2004 Service Change	
		5- Interstat e	en		12- Sandy		4- Division	57-TV Hwy/ Forest Grove	
History		Hawthor ne	6- Martin Luther King Jr Blvd		12- Barbur		May 2004 Service Change		
Service Upgrade History		15-NW 23rd Ave	9- Powell		54- Beavert on- Hillsdale Hwy		75- Lombar d/ 39th Ave		
			15- Belmon t		Dec 2001 Service Change		5- Intersta		
			33-Mc- Loughli n		8-NE 15th Ave 8-		te replace d by MAX		
					Jackson Park				

Frequent Service ridership has been tracked on a monthly basis since new look vehicles and Frequent Service branding were introduced in FY2003. Before FY2003, ridership was counted on a quarterly basis.

Frequent Service Expansion

Investments in Frequent Service over the next five years would both expand the number of Frequent Service lines and add more service to existing lines in the early morning and evening.

Table 5.3 identifies planned Frequent Service improvements that will complete the RTP's 20-year strategy for service development. Future TIP updates will address the development of new town centers and updates to regional land use and transportation plans.

Seven criteria determined priorities for the Frequent Service line expansions and extensions. They were developed in consultation with a technical advisory committee composed of representatives from each local jurisdiction that would receive new Frequent Service. Table 5.2 presents each criterion and its weight corresponding to its relative importance. The criteria are listed in the appendix.

Half of the 16 existing Frequent Service lines do not have 15-minute or better service levels in the early morning and the late evening. Service would be added to these lines as resources become available.

Express Service that overlays Frequent Service during rush hours on McLoughlin and Barbur/ Pacific Highway could be improved to run in off-peak directions during the peak and midday service could be added to provide a precursor to Bus Rapid Transit.

Table 5.2
Frequent Service Weighting Criteria

Criterion	Description	Weight
Ridership productivity	Projected short-term ridership productivity, population/employment density, major attractions	40
Transit/pedestrian friendly streets	Sidewalk coverage, signalized crosswalks, planned improvements	20
Density of transit dependant population and activities	Areas with high proportion of low income residents, seniors, or persons with disabilities	10
RTP Designation	Frequent or rapid bus designation in RTP	10
Relationship to major transportation developments	Connection to existing or proposed high capacity transit	10
Land use connectivity	Number of 2040 Centers served	10
Transportation demand management	Number of ECO compliant companies	5
Total Possible Score		105

Table 5.3 presents the program of improvements to Frequent Service. Two new Frequent Lines and four span-of-service increases are programmed for the next 5 years.

Table 5.3
Frequent Service Expansion

				Weekly	
Туре	Line	From	То	Vehicle Hour Increase	Peak Bus Increase
FY 2007-FY2012					
New	76-Beaverton/Tualatin (Hall Blvd.)	Beaverton TC	Tualatin	390	3
New	31-King Rd	Milwaukie TC	Clackamas TC	240	2
Span	9-Powell	Portland Mall	I-205	80	0
Span	4-Division	Portland Mall	Gresham TC	50	0
Span	8-Jackson Park	Portland Mall	Marquam Hill	25	0
Span	15-Belmont	Portland Mall	Parkrose TC	75	0
Total				860	5
Tier 2 Priority					
Extension	54-Beaverton-Hillsdale Hwy	Beaverton TC	Scholls Ferry Rd.	225	2
Extension	33-McLoughlin (Molalla Ave)	Portland Mall	Clackamas Community College	260	2
New	35-Macadam Ave (Hwy 43)	Oregon City TC	Portland Mall	605	0
Extension	31-King Rd (Sunnyside Rd)	Clackamas TC	152nd	125	1
Span	12-Barbur	Portland Mall	Durham Rd.	60	0
Span	12- Sandy	Portland Mall	Parkrose TC	40	0
Span	33- McLoughlin	Portland Mall	Oregon City	160	0
Total				1,475	5
		Tier 3 Prior	ity		
Extension	12- Barbur	Durham Rd.	Sherwood	140	2
New	79-Clackamas Town Center (Webster Rd)	Clackamas TC	Oregon City TC	305	3
New	87-181st /182nd Ave	NE Sandy Blvd	SE Powell Blvd	380	2
Total				825	7

57-TV Hwy/Forest Grove

Frequent Service on Tualatin Valley (TV) Highway started in September 2004, one year earlier than programmed in the 2004 TIP. Weekly bus service on TV Highway increased by almost 20 percent and service on Sundays more than doubled. Winter 2004-05 Sunday ridership is up 39 percent over the prior year. Approximately, 35,000 jobs are located along the 16-mile route.

Consistent with the Total Transit System, TriMet is working with Washington County citizens and jurisdictions to improve pedestrian access along TV Highway. The TV Highway Pedestrian Access Work Group evaluated pedestrian crossing and sidewalk conditions at each bus stop. The group recommendations are in the table below.

Table 5.4
TV Highway Pedestrian Access Work Group Recommendations

Action	Status		
Eliminate 28 bus stops that are underused, close to a nearby stop or are not near safe crossings	Complete		
Construct or rebuild over 3,000 feet of sidewalks	Design work underway, construction to begin in FY2007		
Install 23 new shelters	Design work underway; solar lighting installed in most existing shelters beginning in May 2005		
Evaluate two new crossing islands at unsignalized intersections	Will take place in FY2007, after two years in place		
Implement a new pedestrian and driver safety campaign in conjunction with a speed enforcement effort.	Seeking funding: Possible grant source includes the Region 2040 Funds from the Regional Travel Options Program		

Capital investments of \$732,862 in the project include:

- \$255,975 from ODOT's Bicycle/Pedestrian Grant Program,
- \$363,289 in Federal Job Access Reverse Commute grant funds that would be passed through TriMet.
- \$88,000 in ODOT Special Transportation Grant Funds, and
- \$25,598 from Beaverton, Hillsboro, Cornelius, Forest Grove and Washington County.

76-Beaverton/Tualatin

Frequent Service on Line 76-Beaverton/Tualatin would provide 15-minute service along the Highway 217 corridor between Beaverton and Tigard, and along the I-5 corridor between Tigard and Tualatin. Frequent Service on Line 76 would supplement the rush hour Commuter Rail service during the midday, evening and on weekends.

This service would connect two Regional Centers and two Town Centers. In addition to linking three growing cities, Frequent Service on the Line 76 would serve local trips in each jurisdiction through which it passes. For example, of all transit trips in Tigard, 32 percent either stay within the city or are destined for Beaverton. Line 76 Frequent Service would be poised to carry a large portion of those trips.

TriMet is working in partnership with local jurisdictions to make investments in sidewalks, crossings, lighting, and stop spacing improvements as well as shelters and benches at bus stops. This effort has been incorporated into the Tigard Local Service planning process (See Chapter 6).

6. Priority 4: Improve Local Service

TriMet receives requests, primarily from local jurisdictions, to make improvements and implement programs focused on meeting local jurisdictions' needs. These include requests to extend routes to areas that are not within walking distance of present routes, capital improvements to complement local development initiatives, and marketing programs to support local transit service.

TriMet's local transit service helps meet the needs for basic community mobility and development needs, provides transportation for those unable to drive and provides connections to the regional transit system. Successful local service requires:

- Land use patterns and densities that encourage and generate transit usage
- Safe, direct and convenient pedestrian and bicycle access, within communities and to transit stops
- Running buses frequently throughout the day
- Marketing and customer information

Local service expands the coverage of transit service for those unable to directly access lines that connect with MAX or Frequent Service Local lines contribute to the success of Frequent Service Bus and MAX by linking them with additional riders.

Frequency and span of service

Local service riders typically take short trips (2-4 miles). The waiting time for short trips is a proportionately larger component of the total travel time than for longer trips (a ten minute wait for a five minute ride is less attractive than a ten minute wait for a sixty minute ride). Hence, the market for short trips demands high frequency service (at least every 15 minutes). Even for transit dependent riders, high frequency is needed because alternatives to transit such as walking, biking or carpooling are often available.

All TriMet routes perform a local service function to some extent. MAX, for example, provides local circulation within downtown Portland and in central Hillsboro. Frequent Service lines, such as McLoughlin Boulevard, provide local access within Milwaukie and Oregon City. For example, less than a quarter of Line 33-McLoughlin ridership is to or from Portland. More riders use Line 33 for local travel within Clackamas County than use it for trips into Portland.

There have been substantial improvements in local ridership when frequency is improved. Examples include Line 57-TV Highway in Forest Grove and Cornelius, Line 52-Farmington/185th in Beaverton and Hillsboro, Line 12-Barbur in Tigard and Sherwood, Lines 12-Sandy and 77-Halsey in East Multnomah County, Lines 33-McLoughlin and 79-Clackamas Town Center in Gladstone and Oregon City.

Buses are effective in serving shorter local trips. The average passenger trip length on buses is 3.66 miles in FY2004, a little shorter than the 3.74 miles in FY97. Bus ridership increased 52%, from 42 million to 64 million boardings during the same period.

Many existing lines do not operate frequently, only every 30-60 minutes on some days of the week. Many of these lines have demonstrated ridership demand, but do not have the service frequency to meet that ridership demand. TriMet's priority for local service improvements is to increase frequency on these lines.

Land Use

Given that high frequency bus service is needed to attract local trips, local bus service needs higher ridership demand to support greater frequency. Areas with low population or employment densities, abundant free parking and with difficult access to transit stops, do not generate sufficient ridership. Other land use factors related to transit use include:

- A mix of uses to facilitate access to a variety of activities and jobs/housing balance
- Street connectivity
- Transit oriented design of streets and buildings

TriMet participates in local planning processes including community plans, transportation system plans and urban renewal committees. TriMet also reviews and comments on land use actions for proposed development to encourage transit-supportive design, parking and street and pedestrian connectivity.

Local Areas

Areas programmed in this 5-year TIP to receive local service improvement are Tigard / Tualatin / Lake Oswego, East County / Gresham, Hillsboro, South Waterfront, and North Clackamas. These areas were selected based on expected population and employment growth, major infrastructure investments and the demonstrated potential for ridership growth. High population and employment growth rates, access to employment areas, service for low-income residents, the need to review low-performing lines, and the number of years since last route restructuring were also considered in selecting local areas. The most recent local area improvements were made in North/Northeast Portland when the Yellow Line opened in May 2004.

TriMet and city staff from each focus area meet to review the transit needs and groups to include in the process, to provide:

- An overview of transit trends, existing transit service and pedestrian issues
- A summary of local jurisdictional Transportation System Plan goals or action items
- Potential target populations and possible areas for capital projects, marketing programs or service changes
- A timeline for the planning process

The planning process for a local service improvement should take at least a year. The product could be an Inter-Governmental Agreement and financial strategy that phases service enhancements and pedestrian/transit capital projects within the jurisdiction's right-of-way. Private development may also be integrated with this process. TriMet focuses on one Local Area at a time.

FY2007 Local Area Planning Process: Tigard/Tualatin/Lake Oswego

TriMet and the City of Tigard have been working over the past 18 months on developing a Local Area plan to improve access, leverage public and private investments, and enhance and promote mobility options. A Memorandum of Understanding to guide the planning was completed and signed in January 2005. Staff from the City of Tigard and TriMet began meeting with stakeholders in April 2004 to review transit needs identified in Tigard's Transportation System Plan. As a result, TriMet has evaluated 11 potential service options for Tigard. In addition, TriMet and Tigard staff are also evaluating where capital improvements such as shelters, benches, and sidewalks could be placed.

Since the planning process has begun, Tigard has been successful in acquiring \$600,000 in ODOT grant funds for sidewalk improvements on Pacific Highway. TriMet and Tigard have also begun discussing placing new bus shelters and benches with the possibility of adding new sidewalk. Both organizations are

exploring a partnership in which TriMet would install new trashcans and Tigard would contract with a trash hauler to empty them. Lastly, both Tigard and TriMet staff have been searching for possible sites for new, shared use park and ride facilities.

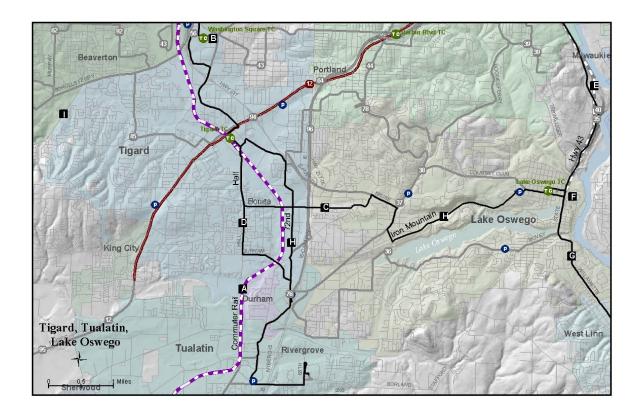
Though no agreement has been developed, Lake Oswego has been included in some of the Tigard transit improvements and connections to the Tualatin Commuter Rail Station are also being assessed with that city.

Tigard's population is estimated to have grown by 11 percent between 2000 and 2003. Like the rest of the state, Tigard's employment is showing signs of recovering from the recent recession. Highlights of recent service improvements in Tigard include more than a doubling of service along Pacific Highway within Tigard, between Tigard and Sherwood and between Tigard and Portland. Connections between Tigard and Beaverton, as well as Tigard and Tualatin have been improved over the last several years, doubling the number of bus trips between these communities.

As part of the Bridgeport Village development in Tualatin, TriMet was able to expand the Tualatin Park & Ride by 81 spaces. The developer has also agreed to install two electrified shelters at the park & ride. The additional parking spaces and shelters would improve access and comfort for express bus service between Tualatin and Downtown Portland on Line 96 Tualatin/I-5 Express. The \$480,000 in improvements were a part of the Bridgeport Village project. No TriMet funds were used in the expansion of the Park & Ride.

Priorities identified in Tigard/Tualatin/Lake Oswego are:

- A. Commuter rail service between Beaverton, Tigard, Tualatin and Wilsonville
- B. Bus and pedestrian connections at the Washington Square and Tualatin commuter rail stations
- C. The study of transit alternatives in the Highway 43 corridor between South Waterfront and Lake Oswego
- D. Local connections by rerouting Line 38 along Meadows and SW Bonita Rd. and an extension of the Line 45 along SW 72nd and Sequoia Parkway
- E. Frequent Service on Line 76 between Beaverton-Tigard-Tualatin, including potential routing along Hall
- F. New downtown Lake Oswego transit facilities and Park & Ride.
- G. Frequent service on Line 35-Macadam connecting West Linn, Oregon City and Portland and routing it along State Street through downtown
- H. Monitor low-performing service along Line 37-Lake Grove
- I. Service to Barrows Rd. area



A. Commuter Rail Service

The construction and operation of the commuter rail line is the major transit development initiative in Tigard and Tualatin. TriMet, Washington County and its jurisdictional partners are advancing the rail line for opening as early as 2008. The Washington County Commuter Rail Line would travel between Wilsonville and the Beaverton Transit Center, making stops in Downtown Tualatin, the Tigard Transit Center, and Washington Square. Three of the five stations would be served by TriMet bus routes. Planning is underway for bus connections at the Tualatin station.

B. Bus and Pedestrian Connections at the Washington Square and Tualatin Commuter Rail Stations Appropriate bus connections with existing lines and pedestrian access improvements would be developed. Shuttle connections would be the responsibility of the area's transportation management association (TMA) or other entities. Bus and pedestrian connections were especially considered when siting the station at Washington Square. Between the two locations considered, a Hall Boulevard site versus a Scholls Ferry Road. site, the Hall Boulevard. site was chosen because of the better pedestrian environment and the convenient bus connections. Some work still needs to be done to improve the pedestrian environment, as the station would still be located opposite the Highway 217 freeway from Washington Square. In addition, pedestrian improvements are planned in downtown Tualatin as part of the commuter rail station location on Boones Ferry Road.

Buses serving Washington Square will begin using Hall and Greenburg instead of the Washington Square ring road in June, 2005.

The preliminary planning and modeling for commuter rail included 5 bus routes and the Tualatin Chamber of Commerce Shuttle serving the Tualatin Commuter Rail Station. TriMet is assessing the feasibility of extending or rerouting Lines 36, 37, 45, 76 and 96 to serve the Tualatin Commuter Rail

Station when it opens in 2008. Connecting Sherwood to the commuter rail via Tualatin-Sherwood Road is a long-term goal identified in the RTP.

C. Line 38 reroute along Meadows and Bonita Roads

Tigard has identified Bonita Road as a priority for transit service. A short distance away from the Tigard Transit Center, Bonita Road is a predominantly low-income area with many apartment complexes. Line 38-Boones Ferry would be rerouted along Bangy and Bonita Roads in order to serve this area and to provide a connection between Tigard and the Kruse Way employment area (pending funding). The line would also be rerouted from Kruse Way to Meadows Road to better serve the employees in the area.

Currently served by the Line 38, transit service on SW 72nd Avenue would be provided by an extension of Line 45 (pending funding) between Tigard Transit Center and Tualatin to connect businesses on SW 72nd Avenue with commuter rail. Line 45 would also divert over to the Sequoia Parkway employment area, better serving the majority of riders in the area.

- D. Line 76 Frequent Service Beaverton-Tigard-Tualatin, including routing along Hall Boulevard Line 76 Frequent Service is essential to meeting the needs for local transportation in Tigard and Tualatin, resulting in a greater share of riders using the line for localized travel. Line 78 would run between Tigard Transit Center and Lake Oswego Transit Center. A potential extension of Line 78 to Washington Square via Greenberg Road (to replace Line 76 if it is rerouted onto Hall) is being evaluated to enhance local coverage.
- E. Highway 43 Corridor Transit Alternatives: South Macadam to Lake Oswego

 A Metro-led study of transit and trail alternatives in this physically constrained travel corridor is underway. Alternatives for this corridor are few and include making use of the 5.6-mile publicly owned Willamette Shore rail line. More information is in Chapter 5. If the streetcar is selected as the primary transit mode in this corridor, TriMet would consider terminating the Line 35 at Lake Oswego, relying on the streetcar to provide service between Lake Oswego and downtown Portland. Service could be reallocated to the remaining portion of Line 35, increasing frequency between Lake Oswego and Oregon City.
- F. New Downtown Transit Facilities and Park and Ride

Studies of a potential redevelopment project involving a new transit center and potentially a new Park & Ride have been completed by the city of Lake Oswego. A process to analyze alternatives and sites for the transit center and Park & Ride has just begun. The alternatives analysis would also look at costs, facility design and the development of a connecting trail to the transit center.

G. Frequent Service on Line 35-Macadam

Line 35 is a second-tier priority for Frequent Service, programmed for implementation after FY2010. Service would be doubled on weekdays from every 30-mintues to every 15-minutes and more than doubled on weekends (from hourly to every 15 minutes). Frequent service on Line 35 would be evaluated in conjunction with the streetcar extension.

H. Monitor Low-Performing Line 37-Lake Grove

Service on Line 37 was reconfigured in December 2003 to provide more direct routing. Complementing this change, service was improved to run every 45 minutes on Line 37 and every 60 minutes on Line 36. Although ridership on Line 37 has increased by more than 20%, it continues to be among low-marginal performing lines with just under 10 rides per vehicle hour. TriMet will continue to track ridership on Line 37 and review opportunities for further improvement as part of planning bus service adjustments in conjunction with the beginning of Washington County Commuter Rail service in 2008.

I. Service to Barrows Road

As part of the Local Area planning process, TriMet identified the Barrows Road area of Tigard and Beaverton as having the potential to sustain bus service. Four specific routes were assessed for their cost

and ability to serve the area. Initial estimates suggest that it would take up to 240 weekly vehicle hours to serve the area and would result in approximately 10 boarding rides per vehicle hour depending on the specific route chosen. In order to provide the service without increasing vehicle hours, TriMet would reroute the Murrayhill portion of the Line 92 South Beaverton Express to the Barrows Rd. area. Other alternatives require new vehicle hours.

East County/Gresham

In September 2001, TriMet improved three east-west lines so East Multnomah County has the same frequency as most lines on the inner eastside of Portland. As a result, weekly ridership increased 76 percent from 25,574 to 43,154 boarding rides. The number of weekly bus trips serving Gresham increased 157 percent, Troutdale 469 percent and Wood Village/ Fairview by 100 percent since 2000.

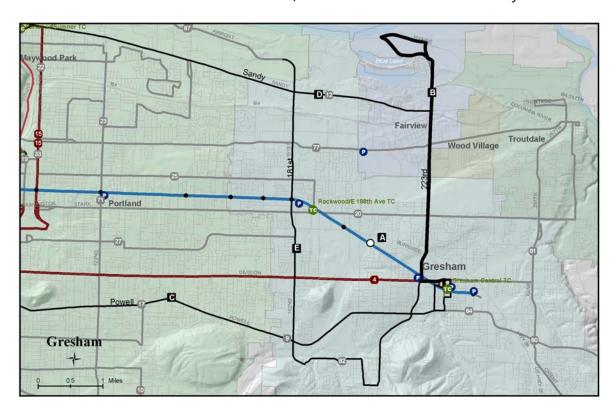
Line 4-Division became a Frequent Service Line in October 2003, doubling midday and weekend service on this line in East County. Frequent service is now available to the 11,500 residents and 6,500 employees within one-quarter mile of Division Street.

Increasing north/south crosstown transit service and improving the pedestrian access to transit stops within the City would build on the ridership successes of the Line 4 Division. Crosstown ridership growth, particularly on 122nd Avenue, has been significant, indicating that additional crosstown service may be successful. Most east-west streets (NE Halsey, E Burnside, SE Stark, SE Division) now have at least 15-minute weekday and Saturday service, but SE Powell and NE Sandy still require improvements in order to expand the grid of lines.

In FY2006 TriMet evaluated several service concepts with the City of Troutdale. All of the concepts would require additional funds and would not add significantly to ridership as called for by the TIP priorities.

Service improvements for East County, in priority order, are to provide:

- A. A new MAX station and public plaza at the Civic Neighborhood transit oriented development (Construction begins in FY2006) (\$5.6 million)
- B. Blue Lake Regional Park summer service on weekends (Summer 2005 startup)
- C. 15-minute weekday midday service along SE Powell between SE 98th and Gresham Transit Center
- D. 15-minute weekday service along NE Sandy/223rd between Parkrose and Gresham Transit Centers
- E. Continuous crosstown service on NE 181st/SE 182nd Avenues between NE Sandy and SE Powell



A. Civic Neighborhood MAX station

TriMet, Metro and the City of Gresham are working together on a concept and work program for the design and construction of a MAX station at Civic Drive, adjacent to transit-oriented developments constructed or planned there. The total budget for the station and adjoining plaza to the north is \$5.6 million. The station itself is proposed to be covered, spanning the tracks, and include retail spaces that would spill out onto the plaza. Further development on both sides of the station is planned to occur during near-term phases of the program (guided by the Metro Transit Oriented Development program). The City of Gresham has a Transit-Oriented Tax Exemption incentive that applies to some of the areas in the Gresham Civic Neighborhood.

The 130-acre district, located in the heart of Gresham, is anchored by Gresham City Hall on the east and is bisected by MAX. The Civic Neighborhood is a high-density mix of residential, commercial and retail uses in a design that features quality of life amenities. The street plan, size of blocks, wide, landscaped sidewalks, and bike paths all enhance out-of-car mobility within the new neighborhood, with adjacent neighborhoods, and with the historic downtown. Gresham Station North would consist of approximately 250,000 sq. ft. of Class A office space, including an Adventist Health Center and Surgi-center, fitness facility, and the Center for Advanced Learning, a high school for 750 gifted students offering advanced

educational opportunities in the arts and sciences. In addition, over 1,400 residential units and many shops and restaurants are planned. Upon completion Gresham Station North would be the largest mixeduse project in the state with over 400,000 sq. ft. of retail, 1,600 homes, and 250,000 sq. ft. of office space.

B. Blue Lake Regional Park Summer Service

Long identified as a priority for local service in East County, TriMet would launched a pilot project for weekend service to Blue Lake Park in Summer 2005. In the first year, the line did not meet TriMet performance standards. The service experiment will be repeated in Summer 2006. Two buses would from 10:00 a.m. to 7:00 p.m. with late service for the Memorial Day, Fourth of July, and Labor Day holidays. The route would follow the Line 12 Sandy route up 223rd to Blue Lake Park, making all stops along the way.

C. SE Powell Boulevard (Line 9-Powell)

Powell Boulevard, an east/west arterial that provides primary access to the Gresham Regional Center, is at various stages of build out and needs to be upgraded to meet basic standards. Some sections are missing sidewalks, not all intersections function well, transit service and bus stops need improvement. Gresham plans an \$11.5 million project between 2005 and 2008 to redesign and reconstruct Powell Boulevard from 174th to Burnside. This four-mile corridor project would standardize the road and add amenities to the downtown section, such as a raised landscaped median, historic street lighting, and wide sidewalks. TriMet is working with the city to optimize the location of bus stops and to integrate bus stop improvements with the new streetscape.

Improving weekday service frequency on Line 9-Powell would make the service more consistent because all buses during non rush hours would run all the way to the Gresham Transit Center. Frequent Service along SE Powell now ends at SE 98th Ave., near the I-205 freeway.

D. NE Sandy Blvd./223rd (Line 12-Sandy)

Mayors of several East County cities noted in 2001 that improving service along NE Sandy Boulevard and 223rd Avenue as a priority. The pedestrian environment along these streets should be evaluated for potential improvements that would make the most out of any service investments. In September 2001 TriMet doubled service along Sandy and 223rd. The resulting ridership increased 400 percent, from 1,477 to 7,396 weekly boarding rides. Major employers along the route include American Honda, Boeing, Boyd Coffee Company, LSI Logic and Gresham City Hall. These service and ridership increases were not matched with right-of-way improvements to improve pedestrian access or transit flow. Future service improvements should be part of a package of improvements to the Total Transit System.

E. NE 181st/SE 182nd Avenue Frequent Service (Line 82)

A new crosstown line on 181st/182nd Avenue between Powell and Sandy is a Frequent Service corridor in the TIP. The proposed improvement increases access to the Rockwood Town Center urban renewal area, employment areas in part of the Columbia Corridor, and high-density residential areas. There are 11,000 residents and 7,000 jobs within walking distance of the proposed line. Major employers include US Bank, Albertson's, and Safeway.

To make the new service on 181st/182nd Avenue work, pedestrian projects and land-use changes are needed to enhance the pedestrian safety and friendliness of the streets. TriMet would undertake the service improvements in conjunction with improvements to the right-of-way by the city of Gresham. The proposed service along 181st is similar to service along Main Streets in the 2040 plan.

At present, 181st/182nd intersects with seven east-west bus lines and the MAX Blue Line. However, only three of these lines (including MAX) have 15-minute base service. To make the 181st/182nd Avenue service attract the most ridership, it would also be necessary to improve service on SE Powell, and NE Sandy.

TriMet has begun discussion with the City of Gresham on how Rockwood Urban Renewal resources could be leveraged to improve the bus and MAX environment in this community. Suggestions call for design upgrades to the E 181st Avenue and Rockwood Transit Center MAX stops and to the transit center itself. Improvements could lead or be in conjunction with private development on the adjacent vacant properties.

An interim change to provide continuous 30-minute service between SE Powell and NE Sandy was evaluated in 2004. The plan included reallocation of the low ridership Line 82 service south of Powell Blvd. During Summer 2004, TriMet engaged the South Gresham community about shifting service from Line 82 Eastman Parkway/182nd Ave. to increase frequency on Line 87 181st/182nd Ave., connecting South Gresham to the Southshore Corporate Park and the (Airport) MAX Red Line at Parkrose/Sumner TC. During the process the community expressed a desire to keep the service in South Gresham in order to serve transit dependent riders in that area. Consequently, the service has remained unchanged.

Lastly, TriMet staff is participating in the master planning process for the Springwater Corridor industrial area in southeast Gresham. The process would help determine the long-term need for service in the corridor. The Springwater Corridor industrial area is expected to contain thousands of jobs and abuts the emerging town of Damascus.

Hillsboro

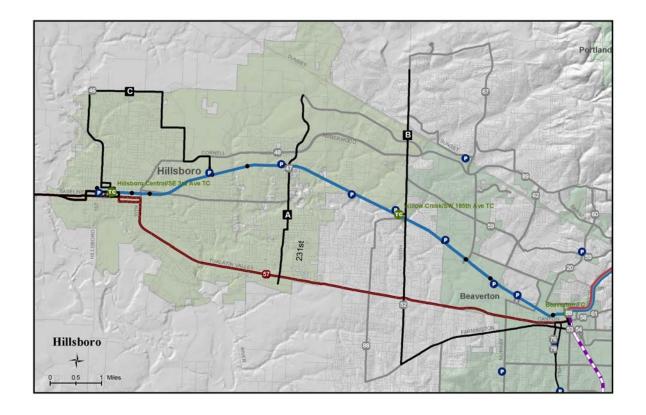
Hillsboro is a high growth area particularly for jobs. While employment is beginning to return to prerecession levels, Hillsboro's population is estimated to have increased by 11 percent between 2000 and 2003. Some of the state's largest employers are in Hillsboro. There is interest in improving transit options to respond to this growth. Forty-one percent of passengers from Hillsboro use transit for intra-Hillsboro trips, 35 percent for trips to Portland and 14 percent for trips to Beaverton. Approximately 69 percent of Hillsboro residents and 84 percent of employees are within a quarter mile of a transit stop.

Frequent Service was implemented on Line 57 TV Hwy/Forest Grove in October 2004. Ridership on Line 57 increased by 7% after only three months of Frequent Service operations. As part of the Frequent Service upgrade on TV Highway, TriMet, ODOT, Beaverton, Hillsboro, Cornelius, Forest Grove, & Washington County are investing over \$600,000 in sidewalk, shelter, and lighting improvements along the highway. Preliminary design of the improvements is currently being conducted and construction will begin in FY2006.

Potential improvements include expanding service for employers, more north/south service, and improved frequency along Cornell and Baseline Roads, and 185th Avenue on weekends.

Priorities for Hillsboro are to provide:

- A. New crosstown service along 231st between TV Highway and US 26
- B. More frequent weekend service on Line 52-Farmington/185th
- C. A review of low-performing Line 46-North Hillsboro



A. New crosstown service along 231st

More frequent north/south service is a priority to connect with east/west service and would serve Hillsboro's employment areas and neighborhoods. Hillsboro would need to develop road connections and pedestrian improvements to facilitate north/south service. The only continuous north/south arterial is Cornelius Pass Road, but that road does not have a rail station, so it is not a good candidate for new service. The proposed 231st Avenue corridor between US 26 and TV Highway appears to offer the most potential.

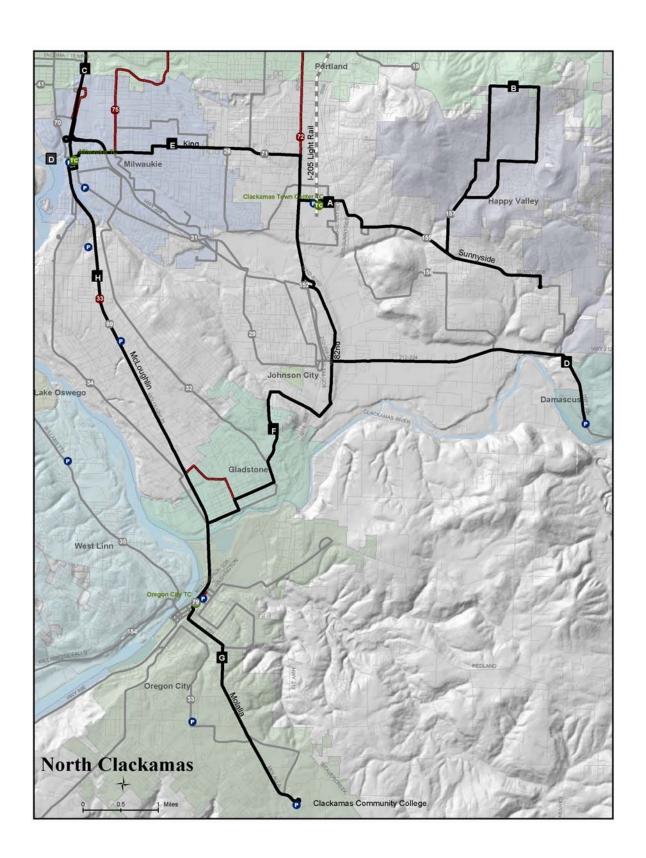
- B. More frequent weekend service on Line 52-Farmington/185th
 Line 52 has high ridership potential for improved Saturday service so that buses would run every 15 minutes instead of every 30 minutes.
- C. Address low-performing Line 46-North Hillsboro Line 46 has been a low-performing line since service started in 1998. Options to improve ridership and to find alternatives for transit dependent riders would be evaluated.

North Clackamas

The North Clackamas Local area includes Regional Centers at Clackamas Town Center and Oregon City as well as the Milwaukie, Gladstone, Happy Valley, Pleasant Valley and Damascus Town Centers, which was recently included in the urban growth boundary. The I-205 MAX Light Rail line will terminate the

Clackamas Town Center Transit Center. In addition to the MAX project, priorities for North Clackamas are to provide:

- A. Clackamas Transit Center layover adjustments
- B. A review and steps to address low-performing Line 157-Happy Valley
- C. A new park and ride in Milwaukie
- D. Continuation of service between Clackamas Town Center and Estacada
- E. Frequent Service between Milwaukie, Clackamas Town Center and Sunnyside Road
- F. Frequent Service between Clackamas Town Center and Oregon City Transit Center
- G. Extended Frequent Service on Line 33-McLoughlin to Clackamas Community College
- H. Improved night service on Line 33-McLoughlin.



A. Clackamas Transit Center layover adjustments

Extensive renovation of the Clackamas Town Center property will include a relocation of the Clackamas Transit Center. During this time a temporary transit center will be constructed on the north side of the Town Center, in close proximity to the current facility. The layover location for buses, however, will move to a separate location east of the Town Center, requiring additional run-time for nearly all buses serving the transit center. The layover location will likely move again when construction on the I-205 MAX Green Line begins in January 2007. Though the bus stop on the north side of the Town Center will remain after rail construction is complete, the new transit center will be located east of the Town Center where it will serve TriMet customers riding both MAX and fixed route bus service.

Table 7.2
Clackamas Town Center Reconstruction Schedule

Phase	Date	Milestone
	June 2006	Construction of temporary transit center and new driveways begins. Implement Line 152 reroute. Implement Line 31 reroute.
1	September 2006	New driveway from Monterey Ave and internal roadways are partially completed. Temporary transit center opens and new bus layover area is ready for use. Existing transit center is demolished.
2	January 2007	I-205 Light Rail Construction begins.
3	November 2007	Permanent bus stops north of new theatre are completed along with new driveways from 82nd Ave and Monterey Ave. Clackamas Town Center Mall expansion is completed.
4 September 2009 parking garage		New Clackamas Transit Center and parking garage is completed. I-205 Light Rail Opens.

B. Address low-performing Line 157-Happy Valley

The portion of Line 157 north of Sunnyside Road is among the lowest performing route segments in the system, with only five boarding rides per vehicle hour. Given service already provided by other lines along Sunnyside Road, TriMet proposes to review the Line 157 service and discuss alternatives with the community.

C. New Milwaukie Park & Ride

TriMet has purchased the Southgate Movie Theater site on SE McLoughlin Boulevard, once a very popular shared use Park & Ride. With the loss of that shared use arrangement, the SE McLoughlin corridor lost the only major Park & Ride facility. TriMet will make site improvements necessary to reopen a 376-space Park & Ride facility at this location at the intersection of McLoughlin Boulevard and Milport Road. Design will be complete in spring 2005 with construction in the summer and opening by winder 2006.

The Milwaukie community has for many years expressed a desire to move downtown Milwaukie's onstreet transit center to a new location. The former Southgate Theater site was adopted for this purpose in the South Corridor Locally Preferred Alternative (LPA), but not without some questions to be separately resolved. In 2004 a citizens Working Group was created, supported by TriMet and jurisdiction staff, that recommended an alternate location south of the downtown between Kellogg Creek and SE McLoughlin Boulevard. That recommendation was supported by the Milwaukie Planning Commission and City Council, but not without significant community-wide debate. Open space and visual impacts of the built-out transit center, with Park & Ride facility, were cited as the principal concerns. A transit center at either location would be matched with a proposal for new downtown bus stops on Main Street that would conform to the City's downtown streetscape standards and coordinate with adjacent redevelopment plans. While the timing, sequence and funding considerations are still under discussion, it is possible that the environmental work required for relocation of the transit center will be incorporated into the larger environmental study for Phase 2 of the South Corridor light rail project.

- D. Continue service between Clackamas Town Center and Estacada
 The reconfiguration of service on Line 31 would improve frequency and connectivity. Service to Estacada would end at Clackamas town center with transfers to I-205 MAX for trips to the Central City and to Line 31 for trips to Milwaukie. Service span and frequencies would be comparable to those presently provided.
- E. Frequent Service between Milwaukie-Clackamas Town Center-Sunnyside Road Frequent service between Milwaukie Transit Center and Clackamas Town Center through to Kaiser Sunnyside Hospital is a high priority. The TIP programs Frequent Service between the two centers in FY 2009. Line 31 service would be reconfigured when I-205 MAX service starts: trips to downtown Portland (limited and express) would be discontinued, and the portion of the line between Clackamas Town Center and Estacada would run as a separate line (see item F below). Service could be extended east on Sunnyside Road to 152nd (replacing local service on Lines 155-157) and eventually on to the Damascus Town Center as development in that area progresses.

This route would be a crosstown line connecting with Frequent Service lines 33-McLoughlin, 75-Lombard/39th Avenue, 72-Killingsworth/82nd Avenue, 79-Clackamas Town Center (proposed Frequent Service) and I-205 MAX.

- F. Frequent Service between Clackamas Town Center and Oregon City
 Line 79 would be improved to provide Frequent Service connecting the two Regional Centers and to serve
 Johnson City and Gladstone. Ridership has responded well to the service increase on Line 79 that was
 made in September 1999. Line 79 improvements are programmed for after FY 2010.
- G. Extend Frequent Service on Line 33-McLoughlin to Clackamas Community College An extension of Frequent Service on Line 33-McLoughlin to Clackamas Community College, via Molalla Avenue, is programmed for FY 2010. As part of this change, service on Line 33 in Gladstone would be streamlined to stay on McLoughlin Boulevard and service on Line 32 and present Line 33 on the Oregon City hilltop would be reconfigured into a local circulator.
- H. Improved night service on Line 33-McLoughlin Frequent service on Line 33 ends after the evening rush hour on weekdays and earlier on weekends. This improvement would continue 15-minute service until 10:30 pm, seven days a week.

The South Corridor Project Locally Preferred Alternative Report also called for implementing limited Bus Rapid Transit (BRT) improvements and Park & Rides incrementally in accordance with priorities in TriMet's Transit Investment Plan. Those improvements are to begin to take place concurrent with the Phase 1 South Corridor Project, with further improvements to be aligned with the Phase 2 development of light rail to Milwaukie. The above Line 33 improvements and the construction of a Milwaukie Park & Ride are important elements of that LPA commitment. TriMet will continue to work with Milwaukie, Oregon City, Gladstone and Clackamas County to identify and support other capital improvements that can build service in this corridor, consistent with the South Corridor work program.

Conceptual planning as part of the South Corridor Study identified some alternative local service improvements on SE Johnson Creek Boulevard and SE Thiessen Road. Those improvements were not adopted as part of the South Corridor project and would require further study before their implementation could be considered in the period of time leading to the introduction I-205 light rail. Resources for the operation of such new service would have to be identified and may require the deferral of such new service beyond this 5-year horizon.

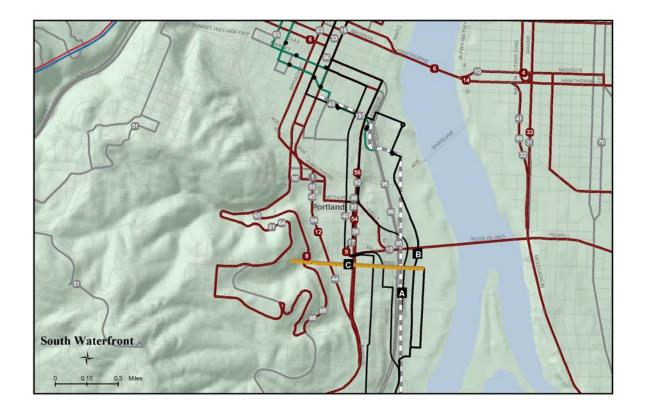
Past Local Area Planning Process: South Waterfront

The South Waterfront is a 130-acre district within Portland's Central City area, bounded by I-5, Moody Avenue, the Willamette River and Montgomery Street (RiverPlace). The last major undeveloped area within the city's core adjacent to the Willamette River is planned to become a neighborhood with up to 10,000 jobs and 3,000 housing units over the next 20 years. Recent developments include the start of work on three condominium towers (totaling 520 residential units) with retail and the first OHSU office tower, which would include the landing platform for the aerial tram that will connect the OHSU campus on Marquam Hill, 0.8 miles away, with this riverside location. The building where the aerial tram would originate on Marquam Hill is already under construction.

Road access constraints due to topography and freeways mean that the housing and employment goals could only be met if transit helps move people into and out of the area. As a result, the district established aggressive mode-split targets and policies to encourage alternative transportation modes.

Priorities for South waterfront include:

- A. Extend Portland Streetcar service to RiverPlace and then Gibbs Street
- B. Reroute Line 35-Macadam through the area
- C. Marquam Hill Aerial Tram



A. Extend Portland Streetcar Service

Operation of the new 0.6-mile Portland Streetcar extension from Portland State University to RiverPlace started in March 2005. Two new streetcars were purchased as a result of the extension. TriMet and the City amended the Operations Funding Agreement to provide an additional TriMet contribution of \$400,000 annually. The present agreement terminates on July 1, 2006. Construction of a streetcar extension to Gibbs Street is in progress.

The basis for the Gibbs Street extension is the South Waterfront Central District Development Agreement between the city and developers. It calls for the city to build the Gibbs extension in conjunction with the Marquam Hill Aerial Tram and other development within the center of the district. The Gibbs Street extension is expected to open at the end of calendar year 2006 (TriMet FY2007). Moody Street must be reconstructed as part of the project. The extension would also require the purchase of two additional streetcars (beyond those needed for the RiverPlace extension) to maintain present headways with the Gibbs extension. The Gibbs extension is projected to add \$600,000 annually to the streetcar operations cost, in addition to the RiverPlace extension.

B. Reroute Line 35-Macadam

Line 35 (and downtown Portland rush hour trips on Line 36) would be rerouted when Moody and Bond streets are reconstructed to accommodate transit service (projected for 2007). The city would provide transit preferential treatments at the north and south portals so that the 750 through-passengers in each direction do not encounter significant delays and so that bus operating costs do not increase.

Line 35 would turn onto and off of Macadam at Moody Street and then use the Moody/Bond couplet to Montgomery Street. Then it would use the Harrison Connector to access the Portland Mall and to serve Portland State University.

C. Connections to Marquam Hill Aerial Tram

OHSU and the City of Portland plan to begin operating the Marquam Hill Aerial Tram in 2007. The Tram would operate on 5 minute intervals during the peak and 10-minute intervals during the off-peak. Tram cabins would accommodate 62 people standing and 8 people sitting. Tram service would operate for 18 hours a day, from 6:00 a.m. to 12:00 a.m., everyday with only 5 days off per year for scheduled maintenance.

TriMet will continue to run buses directly to Marquam Hill (Lines 8-Jackson Park, 61-Marquam Hill/Beaverton, 64-Marquam Hill/Tigard Transit Center, 65-Marquam Hill/ Barbur, and 66-Marquam Hill/Hollywood Transit Center) instead of South Waterfront because travel times between the two areas are equivalent. Still, service to Marquam Hill is will connect to South Waterfront with the tram. The tram's operation increases both connections and options for people wanting to access Marquam Hill or South Waterfront.

Past Local Area Plans: North/Northeast Portland

As part of the Interstate MAX Yellow Line project, TriMet, the City of Portland, the Portland Development Commission and community stakeholders developed and implemented a Local Area Plan for the North/Northeast Portland area. The plan increased the amount of bus service available in the area and made it easier for pedestrians, particularly seniors and people with disabilities, to access the bus and train. Table 7.3 details the improvements made in North/Northeast Portland.

Table 7.3
Summary of Local Area Improvements in North/Northeast Portland, 2004

Improvements	Bus Routes/Projects
Bus Lines with Frequency Upgrades	2 (75-Lombard/39th Ave, 85-Swan Island)
Bus Lines with Route Changes	4 (6Martin Luther King Blvd., 8-NE 15th Ave, 16-St. Johns, 33-Fremont)
Bus Lines with Increased Service Span	5 (4-0Fessenden, 6 Martin Luther King Blvd, 8 NE 15th Ave, 72- Killingsworth/82nd Ave, 40- Mocks Crest)
Bus Shelters	28
Information Displays at the Stops	44
Signal Priority	58
Directional Signage	64
Curb Ramps	335
Sidewalk Improvements	4
Crossing Improvements	2

In addition to the above improvements, TriMet partnered with Ride Connection, the African American Chamber of Commerce, the Urban League and several businesses to run the North/Northeast RideAbout for seniors and people with disabilities. The N/NE RideAbout provides free door-to-door shopping, medical, nutritional and recreational shuttle service to seniors and people with disabilities living in the area on weekdays.

8. Environmental Justice & Access to Transportation

Transportation is vital to fully participate in all aspects of society. Transportation is needed to attend school, get to jobs, access health care, or participate in social, recreational or civic activities. When people can't afford a car, public transportation is necessary to ensure that everyone in a community has access to all the activities offered in society. Those people in our community that are most likely to be transit dependent are economically disadvantaged populations.

Transportation equity issues arise when transportation benefits accrue to the wealthier and more educated segment of society, while transportation burdens (such as environmental impacts) fall disproportionately on people of color and individuals at the lower end of the socioeconomic spectrum.

Transit Equity

TriMet wants to ensure the allocation of service and amenities is fair and equitable throughout the system. TriMet is committed to providing high quality service to low-income and minority communities. Transit Equity is a consideration in decisions about the following:

- Transit service to low-income neighborhoods and communities of color
- Placement of bus stops and shelters
- Allocation of new low-floor buses
- Service for non-English speaking populations

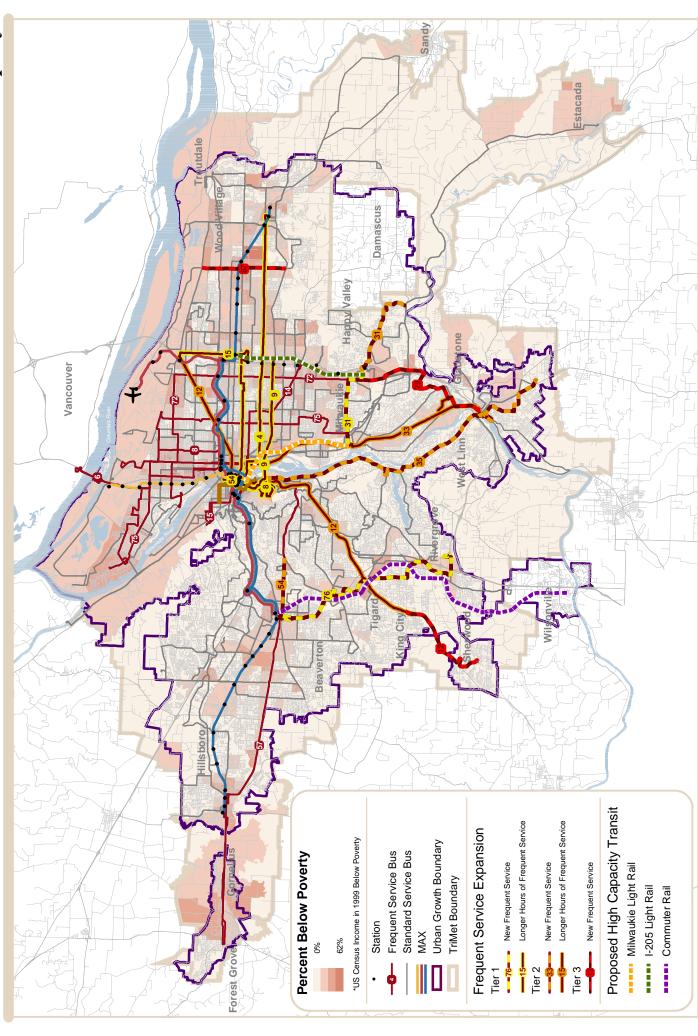
TriMet has traditionally planned transit service and on street amenities to achieve the highest ridership potential, without regard to income, race or neighborhood. To determine how service lines up with transit equity goals, TriMet used the latest data from the US Census to look at where minority and low-income populations are located in the District. (See map) TriMet then analyzed its service in relation to minority and low-income neighborhoods. The majority of the Frequent Service lines are in North, Northeast and Southeast Portland, providing high quality service to transit dependent and low-income populations. Additionally, these routes are designed for a variety of trip purposes, locations and times, including commuting, medical appointments, special events and school.

In 2003, TriMet adopted new criteria to govern how Frequent Service will be expanded. The most important factor in the criteria is ridership, but one of the new factors is the density of the transit dependent population. To determine transit dependency TriMet looks at areas with high proportion of low-income residents, seniors, or persons with disabilities.

Service for Non-English Speaking Populations

Non-English speaking populations are growing in the Portland area and many have found the convenience of riding the bus or light rail to be a good alternative to their vehicle. Others simply cannot afford the costs associated with owning and maintaining a vehicle and are dependent on public transportation as their primary mode of access to work, school or recreation. Exceptional services to the growing non-English speaking populations are important to attract and sustain riders.

TriMet provides many of its informational materials in multiple languages. Guidebooks are printed in six languages other than English, rider alerts and fact sheets are often printed in English and Spanish, and TriMet's website has basic information available in six languages, and the 503-238-RIDE accommodates for multiple languages. Ticket Machines have a Spanish option and audio messages on MAX are in Spanish and English.



Environmental Justice

TriMet seeks to ensure that its operations do not have a disproportionate impact on air quality within the region. TriMet's deployment of new low-floor buses helps to achieve this goal. The new buses provide easier boarding and are equipped with air conditioning. Another big advantage of the new buses is that because of advanced pollution control equipment the emissions from the bus are substantially less than emissions from TriMet's older vehicles, some of which are sixteen years old. In FY2007 TriMet will begin using ultra-low sulfur diesel, which will further improve air quality. The agency is also using a five percent biodiesel blend in the LIFT Accessible Transportation Fleet. The B5 mixture is blended by Oregon's Carson Oil Company, using pure biodiesel produced by SeQuential Pacific Biodiesel based in Salem, OR.

Because TriMet can control where these new buses are placed, an environmental justice consideration can be related to air pollution. Too often, low-income neighborhoods are on the receiving end of environmental hazards and pollutants. TriMet now looks at the on-road emissions data collected by state and federal environmental agencies to map high existing levels of diesel emissions. TriMet uses the data to determine which routes new buses should serve. By placing new buses on routes that already have high levels of vehicle emissions, TriMet will not further contribute to air pollution in those neighborhoods. By applying the criteria, the new buses purchased in FY2004 were placed on the Line 17 in Northwest Portland where heavy truck traffic was already contributing to poor air quality along NW St. Helens Road.

Accessible Transportation

Mobility is an important quality-of-life issue for seniors and individuals with disabilities. Transportation provides independence, community connections, and access to life-sustaining activities.

Seniors and persons with disabilities in the tri-county area currently represent about 17 percent of the total population. By the year 2010, this number is expected to increase to 20 percent with the most significant increase coming from the generation of "Baby Boomers" who will begin turning 60 years of age in 2005.

TriMet Fixed Route

TriMet has an extensive fixed route network (TriMet's vehicle hours per capital are 56% higher than the average for its peer group) and is in a good position to provide more rides on fixed routes in the future to the Elderly and Disabled community. Low-floor boarding, stop announcements and helpful staff make fixed route service accessible to more people.

TriMet Complementary Paratransit

LIFT services are door-to-door paratransit provided to people who, because of their disability cannot use or access fixed route transit. Services are provided to all areas of the TriMet district from 4AM to 2PM, based on the span of the longest fixed route service day (MAX service). There are 1 million annual boardings on TriMet LIFT service and an average cost of \$22 per boarding ride. Ridership growth has been about 7.5% per year. LIFT has more than 10,000 registered customers and provides about 3,000 rides each weekday or about 920,000 rides annually. About sixty-eight percent of the costs for the LIFT program come from TriMet's general fund.

The Medical Transportation Program (MTP) dispatches Medicaid eligible rides to the lowest cost, most appropriate providers through an intergovernmental agreement with the State of Oregon. These rides may be on fixed-route, or on a medically needed alternative such as a LIFT bus, taxi, or ambulance depending on the needs of the individual. The costs for MTP are fully funded through the State of Oregon Medical Assistance Program. MTP serves more than 2,000 clients each weekday.

Tri-County Elderly/Disabled Transportation Plan

In response to the combined pressures of increasing ridership demand, customer demands for service quality improvements and limited funding, TriMet, the three counties, consumer groups in the region are working together to improve transportation services to people who are elderly and disabled.

The Tri-County Elderly and Disabled Transportation Plan (EDTP) is a result of this collaboration. Building on the foundation of the 2001 EDTP, the 2006 update describes a continuum of service investments designed to provide attractive and cost effective transportation alternatives to elders and people with disabilities. The goal is to offer a range of services that match individual abilities and support customer independence and convenience, but also promote fixed route and other lower-cost options as the best use of scarce transportation resources. It provides assurances that basic transportation needs are met and that services are well distributed and coordinated.

The region's goal is to improve mobility for persons with disabilities through cost-efficient, innovative services, targeted fixed route service improvements, customer education, the involvement of the community and coordination between service providers and social service agencies.

The approach being taken emphasizes three fundamentals:

- An Improved Fixed Route Foundation
- Innovative Service Options
- Coordination and Involvement of the Community

Improved Fixed Route Foundation for People with Disabilities.

Goal: Make fixed route services friendlier and more accessible to elderly and disabled customers.

Build the Total Transit System-enhance customer information, access to transit, stop amenities, frequency, reliability, passenger comfort, safety and security. Building the total transit system is the top goal in TriMet's Transit Investment Plan.

Disability Awareness and Sensitivity Training for Fixed Route Operators. In response to LIFT customer focus groups, all TriMet fixed route operators receive this training.

RideWise Services

RideWise provides a continuum of travel training services to elderly and people with disabilities including:

- Intake and referral to community and public transportation services
- Personal transportation planning to help elderly and people with disabilities to choose the service that works best for them for a particular trip, whether it is fixed route, LIFT or a community based service
- Fixed route travel training
- Train the travel trainer program
- Consumer education and outreach to introduce seniors and people with disabilities to the benefits of using fixed route transit
- Fixed route familiarization
- One-on-one orientation to fixed route
- Specialized one-on-one travel training
- Peer trainer program (Ride Ambassador)

RideWise can be a key to matching riders with the best, most cost-effective transportation option. Ultimately, the RideWise number will become the single number elderly and people with disabilities call for information about all the transportation services in the area. RideWise is a partnership of Ride Connection and TriMet.

Customer Service Monitoring

TriMet contracted with Elders in Action (EIA) to provide an elder-friendly, disabilities-friendly assessment of TriMet's fixed route services. Elders in Action assessed the total transit experience of elderly and disabled bus and MAX customers in North/Northeast Portland including evaluation of access by phone, physical access to the stop and to the vehicle, bus stop conditions (cleanliness, lighting, schedule readability [if there], shelter condition [if there], etc.), the layout of the bus, customer service on the bus, and the ease of use of the bus.

Findings were presented to TriMet management July 2004. In summary, Elders In Action found that whether a route is Elder — Disabilities friendly depends largely on the bus operator. To improve performance, TriMet is and Elders in Action have developed an Elder Friendly Operator reward program.

Both the Customer Service Monitoring and Feedback and the Mobility Support Services projects will provide input to management on actions needed to remove environmental barriers. In addition, TriMet budgets funds each year for accessible bus stops.

Innovative Service Options

Goal: Improve services at lower cost than door-to-door service by delivering services differently, coordination of services provided by different providers and involvement of the community.

Our observations tell us that we have to provide more choices than LIFT and fixed route to people with disabilities in order to reduce the demand on LIFT:

Many trips that are taken on LIFT, such as short, local neighborhood trips, would be impractical or impossible on fixed route. People who are mobile can walk to make fixed route work for them, thus avoiding difficult transfers or long wait times. A frail elderly person, for example, does not have that opportunity.

Elderly customers of community based services seem to prefer to reserve rides days in advance if they can be quaranteed a consistent or shorter arrival time (not possible on LIFT) to the next day service LIFT offers.

In order to have an impact on cost, the service has to be provided so that rides are grouped, the service is attractive enough to draw rides from LIFT and duplication is avoided (Ride Connection, TriMet, OMAP, other).

The N/NE RideAbout is a free community shuttle for seniors and people with disabilities serving the neighborhoods around the Urban League's Adult and Senior Services Center on MLK Blvd.

This shuttle is an innovative and collaborative effort between the African American Chamber of Commerce, The Urban League, Metropolitan Family Services/Project Linkage, The American Red Cross, Ride Connection and TriMet. The RideAbout shuttle will provide transportation to shopping, to medical and business appointments, to meal sites and senior centers. The service is provided without cost, but donations are appreciated.

Service began May 3, 2004 and provided 1,482 rides in September, many of them former LIFT riders. Rides per hour are 4-double the number of LIFT rides per hour. Staff is planning further outreach and schedule changes to make the service more convenient and increase ridership. The ride per hour goal is 7.

The Hillsboro RideAbout is a partnership of Ride Connection, TriMet, Washington County. Service has been delayed due to TriMet's financial condition. Additional funding will be sought for this service.

Ride Connection's private non-profit providers offer shopper shuttles, medical transportation services and community transportation services that, if coordinated with TriMet LIFT and fixed route service and enhanced with additional funding, could provide additional community based services. TriMet hopes to use TEA-LU New Freedom funds to provide additional shopper and community based services in partnership with Ride Connection and its providers for current LIFT and fixed route riders as well as new riders.

Coordination

In this area, there are many providers of door-to-door services:

- LIFT Services
- OMAP Services
- Ride Connection services provided by 30 transportation providers
- Social service agencies, non-profit organizations not under Ride Connection
- Transit districts in Sandy, Molalla, Wilsonville and Canby

All with separate vehicle fleets, separate services, separate dispatch and administration, but often the same client base and several providers providing transportation to the same site.

Coordination goals are:

- Work with providers of transit service and social service agencies to mutually optimize transportation and other services
- Work with transportation providers and organizations that work with people with disabilities to develop a continuum of cost effective transportation services to meet a range of needs for people with disabilities.
- Optimize use of vehicles
- Get organizations in the community to work with us as transit coordinators, trip planners, community transportation resource specialists

Special Transportation Fund (STF) Program

Most Ride Connection services are funded by the state Special Transportation Fund Program. The STF program supports about 10% of LIFT program operating and capital costs and supports between 20% and 60% of the costs of elderly and disabled transportation at the four small transit districts. The STF Program is a grant program that is intended to provide a flexible, coordinated, reliable and continuing source of revenue in support of transportation service for the Elderly and People with Disabilities. STF moneys may be used for:

- Maintenance of existing transportation programs and services for the Elderly and People with Disabilities
- Service expansion
- Creation of new programs and services
- Planning for and development of, access to transportation for Elderly and People with Disabilities who are not currently served

The Oregon Department of Transportation (ODOT) distributes the funds. The STF Agency (TriMet for the tri-county area) administers the program and coordinates the grant process. A Special Transportation Fund Advisory Committee (STFAC) recommends projects for funding to the TriMet Board.

STF funds have played an important role in the expansion of community-based services for elderly and people with disabilities the last five years.

STF formula funds have permitted areas that are un-served by transit districts to provide transportation to people who don't have service.

STF formula funds have permitted non-profit transportation providers to hire paid drivers, improving the reliability of the service over that which can be provided with volunteers.

STF formula funds have increased ridership on the Ride Connection network by 49 percent, from 198,000 rides a year in 2000 to 295,500 in 2004 (97,000). That is a remarkable accomplishment for a fairly small network. By comparison, during the same period, LIFT ridership increased 30% or 223,000 rides a year.

STF formula funds have permitted the out-of-district transit agencies to add routes and better serve elderly and people with disabilities.

Recently, ODOT adopted new STF Program rules. The rules require STF Agencies to develop a three-year STF Plan in consultation with the STFAC.

The purpose of the STF Plan is to set out the long-term vision for public transportation in the STF Agency's service area, and guide investment of STF moneys to maximize benefit to the Elderly and People with Disabilities within that area. The STF Plan must cover at least a three-year period and include the following information:

Inventory of transportation services and capital resources currently available for the elderly and people with disabilities, without regard to how they are funded

Identify current and forecast county population and demographics

Inventory of current and future needs for elderly and disabled transportation services and programs. The inventory may include and is not limited to, changes in employment opportunities, housing, access to medical services, special services affecting access to public transportation services for elderly and people with disabilities

Identifies opportunities to coordinate transportation services within the county, district and with other agencies and areas to improve efficiency and effectiveness of service.

With the help of funds from the STF program and other sources, service providers have made progress implementing the Elderly and Disabled Transportation Plan. RideWise, the North/Northeast RideAbout, Elders in Action Customer Service Monitoring, increases in LIFT and Ride Connection programs all have met the goals of the EDTP.

7. Finance

TriMet receives its funding from a variety of sources. Large projects, like construction of MAX Light Rail, are funded through a combination of local and federal dollars. Operating expenses are paid for from several sources, primarily fares and a tax on payrolls. This chapter of the TIP summarizes TriMet's financial status and future prospects. The adopted budget and financial issues report contain more detail.

Although the region's economy is now recovering from the recent recession, TriMet, like all other public agencies, has been faced with difficult decisions because of the economic conditions over the past few years. Jobs in the region decreased by approximately 53,000 (6.5 percent) between January 2001 and January 2004. Loss of jobs has a direct impact on TriMet's primary source of operating revenue, a tax on gross payrolls. In spite of the reduction in revenue, TriMet has been able to make strategic cuts and productivity improvements to maintain and grow the Total Transit System.

Resources

Figure 9.1 Resources

	% of Total
Revenue Category	Resources
Beginning Fund Balance	4.76%
Operating Revenue	
· · · · · · · · · · · · · · · · · · ·	11.21%
_	0.58%
Accessible Transportation	0.35%
Contracted & Special Service	2.19%
Total Operating Revenue	14.33%
Non-Operating Resources	
Interest	0.45%
Miscellaneous	0.55%
Total Non-Operating Resources	1.00%
Tax Revenue	
Employer Payroll	28.22%
Self-Employed	1.45%
State "In-Lieu"	0.34%
Total Tax Revenue	30.02%
Grants	
Federal Operating Grants	7.37%
State Operating Grants	0.31%
Capital Grants	23.25%
Total Grants	30.93%
Other Capital	
Capital Assistance	6.64%
Total Other Capital	6.64%
Other Resources	
Bond Proceeds	11.43%
Other Non-Operating Resources	0.90%
Total Other Resources	12.33%
Total Resources	100.00%
	Beginning Fund Balance Operating Revenue Passenger Advertising Accessible Transportation Contracted & Special Service Total Operating Revenue Non-Operating Resources Interest Miscellaneous Total Non-Operating Resources Tax Revenue Employer Payroll Self-Employed State "In-Lieu" Total Tax Revenue Grants Federal Operating Grants State Operating Grants Capital Grants Total Grants Other Capital Capital Assistance Total Other Capital Other Resources Bond Proceeds Other Non-Operating Resources Total Other Resources

Payroll Tax

TriMet levies a 0.6318 percent tax on the gross payrolls of private businesses and municipalities within its district. The payroll tax is TriMet's largest source of continuing revenue, accounting for 53 percent of operating revenues in FY2003. It is levied on the gross payroll of the region's employers. Self-employed individuals pay a similar tax on net income from self-employment.

Regional employment began to increase March 2004. As a result, TriMet's revenue outlook has begun to improve. After two years of declines and one year without growth, payroll tax revenues increased 5.8% in the first half of FY2005, higher than the projected 4% growth rate.

Beginning on January 1, 2005, the payroll tax rate for employers and self-employed individuals began the adopted increase of .0001 percent each January 1 for ten years. Revenues from the payroll tax increase will support new services and capital for service increases, such as TriMet's contribution to the South Corridor I-205 / Portland Mall Light Rail Project local match, the option order light rail vehicles, Washington County Commuter Rail operations, bus services, I-205 light rail operations, LIFT services, and the cost of extending Streetcar operations to Riverplace and Gibbs Street. The payroll tax rate increased from .6218% to .6318% in January 2005. TriMet expects to see the first results of the rate increase in the fourth quarter of FY2005.

Passenger Fares

Passenger fares are TriMet's second largest continuing revenue source. In FY2004, passenger revenues totaled \$55.6 million, 20 percent of operating revenue. TriMet's fare recovery ratio (the percentage of operations costs minus capital and debt service covered by fares) was 23 percent in FY2004.

TriMet reviews fares annually as part of its budget process and increases fares regularly to keep pace with inflation, to meet revenue goals, and occasionally, to fund special service improvements.

Federal Funding

TriMet receives about \$30 million a year in formula assistance from the federal transit program. In addition, federal resources are available for capital projects on a discretionary, competitive basis. For example, the construction of MAX Blue Line and Interstate MAX Yellow Line was accomplished with federal funds matched by local revenues. TriMet has received cash or pledges of \$1.2 billion in federal discretionary funds for MAX Blue Line and MAX Yellow Line.

In addition to the formula assistance and discretionary funding, the region's Metropolitan Planning Organization (MPO), Metro, also allocates federal transportation "flex fund" resources to TriMet and other transportation agencies in the region through a competitive process called the Metropolitan Transportation Improvement Program (MTIP). The federal "flex funds" distributed through the MTIP process are from the federal Congestion Mitigation and Air Quality (CMAQ) and Surface Transportation Programs (STP). The MTIP funds are awarded based on proposed project ranking against 2040 Concept Plan supportive criteria, community input and policy deliberations. Criteria are directly based on the development of alternative and sustainable transportation options, not otherwise well supported by Federal funding. Jurisdictions apply for these funds in support of multi-modal transportation projects under 12 program categories, including transit, Regional Travel Options, Transit Oriented Development, trail and bikeways, pedestrian improvements and planning projects.

The MTIP program has also been used to provide \$1.4 million annually for bus service expansion in the McLoughlin and Barbur corridors. Beginning in FY2004 and continuing in FY2005 the fund is also supporting on-street capital improvements with \$625,000 in CMAQ funds. The combined MTIP contribution in those years will be \$4.1 million. The bus operating support will be discontinued in FY2006, at which point all MTIP support will be directed at Frequent Service bus capital improvements with \$2.75 million available in FY2006 and FY2007 and the same amount in FY2008 and 2009.

A condition for receipt of these funds is a direct connection between MTIP funded projects and TriMet's 5-year TIP.

Since FY2004 TriMet's on-street capital program has been fully reliant on these and other Federal sources of funds, with general funds meeting the local matching requirements.

State Funding

The State Special Transportation fund and Oregon Department of Human Resources Title XIX funds provide formula and discretionary assistance for elderly and disabled transportation programs. These funds covered 12 percent of the cost of TriMet's Accessible Transportation Program in FY2004.

State of Oregon government offices located within TriMet's district boundaries make in-lieu of tax payments to TriMet. These make up less than 1 percent of operating revenues.

Similar to the Oregon Benchmark that measures the State's progress toward maintaining roads at good or better condition, the State recognizes that the equivalent infrastructure for transit (the statewide fleet of buses) must also be maintained at good or better condition. In 2003, the Oregon State Legislature created an additional source of state funding for transit by dedicating \$2 million in federal Surface Transportation Program funds for the replacement of mass transit vehicles in the 2003-2005 biennium. Funding for the Mass Transit Vehicle Replacement Program will be administered by the Oregon Department of Transportation. The Oregon Transit Association is working to establish this program as a permanent funding source for mass transit vehicle replacement across the state. If funded in future biennia, TriMet will compete for these bus replacement funds.

Other Revenue

Revenue also comes from advertising on bus and rail cars, interest earnings and state revenues for OMAP (Oregon Medical Assistance Program) and other miscellaneous revenues (6.0 percent of revenues in FY2004).

Figure 9.2 FY2007 Requirements

	FY2007 Requirements	
Line No.		% of Total Requirements
	Personal Services	
1.	Office of the General Manager	0.30%
2.	Information Technology	0.77%
3.	Finance & Administration	1.05%
4.	General Counsel/Human Resources	0.44%
5.	Marketing & Customer Services	0.84%
6.	Operations	26.51%
7.	Capital Projects & Facilities	1.45%
8.	Total Personal Services	31.36%
	Materials & Services	
9.	Office of the General Manager	0.11%
10.	Information Technology	0.22%
11.	Finance & Administration	0.32%
12.	General Counsel/Human Resources	
13.	Marketing & Customer Services	0.32%
14.	Operations	12.82%
15.	Capital Projects & Facilities	1.13%
16.	Total Materials & Services	16.67%
17	Camital Dua avaras	4.000/
17. 18.	Capital Programs Light Rail Programs	4.00% 38.55%
18. 19.	Pass Through Requirements	0.90%
19. 20.	Debt Service	3.64%
20. 21.	Contingency	1.50%
21. 22.	Ending Fund Balance	3.39%
		-
23.	Total Requirements	100.00%

TriMet revenues pay for the operation and maintenance of the transit system. This includes Accessible Transportation, bus and light rail services, vehicles, facilities, and equipment. With the addition of Interstate MAX to the MAX Blue Line and MAX Red Line, light rail service has increased 317 percent since 1992. Accessible Transportation service hours have increased 217 percent.

In FY2005, while still adjusting to the recession and declines in payroll tax revenues, TriMet was hit with an unexpectedly large increase in diesel fuel costs. In FY2005, TriMet budgeted diesel fuel at \$1.02 per gallon. FY2005 to date, diesel fuel costs have averaged \$1.45 per gallon. In its business plan, TriMet anticipates paying \$1.50 per gallon for diesel fuel in FY2005 and FY2006, resulting in a \$3.3 million increase in fuel expenditures. To address the expected increase in diesel fuel costs, TriMet is making offsetting adjustments to fares and service levels. A fare increase is anticipated September 2005. Bus and light rail services will be adjusted March, June and September 2005.

Bus and MAX service adjustments reflected in the FY2006 budget were based on a detailed analysis of service and ridership on a trip-by-trip basis over the course of a day. The result is minor to modest service adjustments on over three dozen bus lines, focusing on low ridership trips and on adjusting schedules on lines with available seating capacity. Overall, the adjustments attempt to better match passenger capacity with demand. Most all of the schedule adjustments are 15 minutes or less, mostly during the evening and late night. Midday service was adjusted on four lines by about 3 minutes. The goal is to minimize impacts on riders by: making minimal changes to span of service, adjusting schedules by 3-15 minutes; keeping Frequent Service intact; and measuring lift deployments and use of lines by low income/ minority riders to determine that there is not a disproportionate impact on those riders.

Over the next twenty years, transit investment will focus on meeting demand on the system's network of bus and light rail lines and meeting demand for ATP service.

Five-Year Financial Outlook

TriMet has been deeply affected by the recent recession and increased fuel costs. Budgeted capital expenditures were reduced \$18 million in FY2002, \$20 million in FY2003 and \$5 million in FY2004 and \$1 million in FY2005. Expected capital expenditures between FY2006 and FY2009 are also reduced roughly \$18 million each year. Further, baseline expenditures (continuing expenditure levels for current services after contractually obligated wage and benefit costs increases are added) have been reduced \$20 million (\$3.9 million in FY2001 and \$3 million each fiscal year through FY2002-FY2005 and \$4.1 million in FY2006).

The summary chart on the next page shows TriMet's expected expenditures through the next five years. For complete descriptions of each line item, please request the "Financial Issues Report" from TriMet.

ÿÿğ¼ ≺×≷ < ⊏ ⊣ છ K. Bus Operations
L. Rail Operations (Incl. Ptld. Streetcar, Int. MAX)
M. Field Services
N. Accessible Transportation Programs
O. Capital Projects & Facilities
P. General & Administration
O. Transfer to Capital Fund-Projects
R. Debt Service ZUZZGZGZ General Fund o Inflated Dollars (000s) ~ – ±⊙ in in o c in > A. Passenger Revenue
B. Other Operating Revenue
C. Employer/Municipal Payroll Tax
D. Self Employed Tax
E. State In-Lieu
F. Grants & Capital Reimbursement
G. Interest
H. ATP-Cigarette Tax, Agency
I. New Revenues
J. Total Continuing Revenues (CR) Beginning Working Capital
Months of Operating Expense in Working Capital
Cash and Cash Equivalents *
Cash as a Percent of Operating Cost Continuing Expenditures Less Capital Total Continuing Expenditures (CE) General Fund Results Bus Operations: Peak, Reliability, New Rail Operations: East/West, Airport, IMAX Rail Operations: WCCR Rail Operations: I-205 LRT Expenditures, Future Service Expenditures, Current Service: 265,443 280,121 (6,730) 273,391 -1.8% FY2002 ACTUAL 117,981 37,887 9,544 27,900 12,280 49,372 14,678 10,479 53,191 17,217 146,228 7,289 1,941 40,863 3,152 3,510 86,900 268,209 288,557 (18,306) 52,746 18,268 145,231 6,801 1,869 39,885 2,072 3,380 FY2003 ACTUAL 127,177 41,362 9,868 30,023 10,601 39,821 20,349 9,357 270,251 -1.1% 70,300 3.1 80,276 28% 287,843 298,397 (12,685) 51,994 2.2 100,503 34% 133,968 44,263 10,190 31,914 18,830 38,289 10,554 10,389 55,664 17,482 146,125 7,541 1,869 51,635 1,622 3,775 320,111 331,441 (21,470) 37,100 1.4 51,712 16% 59,487 16,204 155,317 7,906 1,971 58,350 2,375 7,722 7,722 639 309,971 8.5% FY2005 ACTUAL 148,859 50,441 11,018 35,452 19,676 39,426 11,331 15,239 FY2006 FORECAST 322,805 329,744 1,121 68,489 19,509 166,966 8,801 2,131 57,027 1,000 3,418 3,524 330,865 6,7% 22,567 0.8 49,807 15% 148,908 45,811 11,174 38,091 17,251 48,316 6,939 13,254 FY2007 FORECAST 75,638 19,292 177,652 9,245 2,305 46,247 1,000 3,496 6,746 341,622 3,3% 23,688 0.9 50,928 15% 334 341 154,386 46,181 11,634 40,579 15,865 46,627 7,649 18,880 1,802 (181 FY2008 FORECAST 351,898 363,584 4,878 160,707 48,527 12,146 43,253 16,715 49,335 11,686 20,546 80,275 19,959 189,488 10,017 2,494 51,360 940 3,579 10,349 368,461 7,9% 23,508 0.8 50,748 14% 668 FY2009 FORECAST 375,125 385,479 9,192 82,169 22,788 202,184 10,378 2,638 2,638 55,292 1,135 3,667 14,420 394,671 7,1% 166,852 50,577 12,631 46,128 17,586 52,106 10,354 24,016 28,386 0.9 55,626 14% 1,302 3,926 FY2010 FORECAST 93,476 23,338 215,730 10,752 2,790 55,623 1,503 3,760 18,980 425,952 7,9% 406,568 413,785 12,167 174,292 53,013 13,236 49,220 18,580 55,302 7,217 26,155 37,577 1.1 64,817 16% 2,249 4,887 9,634 FY2011 FORECAST 431,607 435,291 16,772 95,740 24,094 230,184 11,139 2,950 58,029 1,990 3,860 24,078 452,063 6.1% 49,744 1.4 76,984 18% 181,144 55,291 13,763 52,547 19,556 58,699 3,683 30,182 735 2,585 5,068 12,038 FY2012 FORECAST 452,505 461,390 22,348 103,944 23,541 245,607 11,540 3,120 59,586 2,661 3,965 29,764 483,738 7,0% 187,775 57,540 14,257 56,127 20,549 62,148 8,885 31,968 66,517 1.8 93,757 20% 1,528 2,939 5,257 12,416 Annual Percent Change FY06-FY12 1.0394 1.0387 1.0414 1.0667 1.0296 1.0429 1.0421 1.1581 1.0720 1.0318 1.0664 1.0462 1.0656 1.0074 1.1772 1.0250 1.4270 1.0579 1.0576

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*(excludes bond proceeds)

8. Appendix - TIP Input

TIP Open House Summary

TriMet held four Transit Investment Plan (TIP) Open Houses in three locations during March 2006. This annual activity was organized by the Marketing and Capital Projects Departments, with participation from other agency staff. Following is a review of the open houses, including dates and locations, our objectives, some vital statistics regarding the events and the marketing efforts surrounding them, and a brief section on some lessons learned.

Locations

- Downtown Portland, March 15 Portland Building; two sessions 11 am 2 pm, 4 pm 7 pm
- SE Portland, March 21 Portland Adventist Academy 4 pm 7 pm
- Beaverton, March 22 Beaverton Community Center 4 pm 7 pm

Objectives

- Provide in-depth explanation of important projects like I-205/Mall and Washington County Commuter Rail, with special emphasis on the proposed bus relocation plan for downtown mall during renovation
- Increase awareness of TIP and how it fits into regional planning
- Provide forum for people to provide input on TIP and related projects
- Reinforce the concept of the Total Transit Experience in the minds of our riders

Key Statistics

Attendance				
Downtown	237 people			
SE Portland	42 people			
Beaverton	24 people			
Advertising				
Oregonian	337,000 copies			
Willamette Week – two consecutive weeks	180,000 copies			
Skanner	50,000 copies			
Observer	30,000 copies			
El Hispanic News	20,000 copies			
Asian Reporter	20,000 copies			
Awareness:				
"Save the date" postcards to stakeholders	7,000 cards			
Distributed via outreach, Sales	3,000 cards			
Govdocs e-mail meeting notice	9,706 emails			
News release				
Oregonian; Portland Tribune; community	662,000 copies			
newspapers				
New/revised factsheets at open houses	300 each			
trimet.org – virtual open ho	ouse			
Page Name Visits				
Meetings (both Portland Mall & TIP)	1,723 page visits			
TIP (landing page)	1,504 page visits			
Bus Relocation	4,491 page visits			
Total Documents viewed from TIP landing page	7,051 downloads			
Complete TIP Report	4,524 downloads			
Executive Summary	1,119 downloads			
Email Alerts sent Subscribers	16,980 subscribers			

9. Appendix - Bus Stop Amenities

Stop Level	Basic Stop	Level 1	Level 2	
Bus stop use	stops meeting spacing and siting criteria	high use stops, significant employer program participation, apartments, hospitals, shopping centers, major business, minor park-and-ride, significant use by mobility challenged riders	major stops associated with active or dense land uses, transit mall, major park-and-ride lot, transfer points, stops with active lift / ramp usage	
Preferred street setting	pavement, ADA clearances met, safe street crossing or safe shoulder access	ADA clearances met, sidewalks connections, possible curb extensions, crosswalks	ADA clearances met, full width sidewalks in good repair, curb extensions, protected crosswalk, community stop features - art, newspaper vending, bulletin board	
	Pole and sign	Pole and sign	Pole and sign	
	Schedule display	Schedule display	BCID in shelter	
		Frequent sign*	Frequent sign*	
		Sidewalk access	Sidewalk access	
		Bench	Bench	
		Curb ramp	Curb ramp	
		Optional elements:		
		A or B type shelter	A, B or BX type shelter	
Bus Stop		Pad for rear door	Pad for rear door	
Amenities			Trash can	
			Lighting	
			Optional elements:	
			BX or BB Shelter	
	Any of the shelters may include sandblasted art glass panels.			
	BCID = bus catcher inform	ation display		
	* as applicable** Weather / wind protect accordingly.	ion to be considered. Windscreens may	be included in shelter designs	
Daily equivalent	0-35	35-100	100-200	
Service types (typical)	Local Bus	Express / Local Bus	Express / Local / Frequent Service / Streetcar	

Attributes of a poorly developed bus stop:				
Bus stop us	Poor or lack of supporting land uses, low ridership, unpleasant site or traffic conditions, high crime exposure.			
Street setti	No pavement or inadequate shoulder, blocked views, poor ADA clearances, high weather exposure, no logical, safe street crossing, unsafe topography, chronic standing water			

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Level 3

high capacity transit service serving major corridors or centers, transit centers, high volume park-and-rides, major transfer hubs

ADA clearances met, site configured to meet circulation needs, bus bays, protected crosswalk, community stop features - art, newspaper vending, bulletin board, landscaping, nearby concession

Pole and sign

BCID in shelter

Frequent sign*

Sidewalk access

Bench

Curb ramp

High capacity or custom shelter**

Pad for rear door

Trash can

Lighting

Bike locker

Concessions

Public telephone

Ticket vending

Artwork element

Landscaping

200+

Frequent Service / Streetcar / MAX

10. Appendix - Peak Vehicle Requirements

	Peak Vehicles (Bus or Light Rail Vehicle)						
TIP Priority		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
	New Buses	0	39	0	55	55	56
1. Build the Total	Service Standards	0	1	2	2	2	2
Transit System	Reliability	0	1	1	1	1	1
Transic System	Productivity	-18	-2	-2	-2	-1	-7
	Low Floor Bus	46%	52%	52%	61%	70%	79%
2. Expand High	Yellow Line	14					
Capacity Transit	Green Line						18
3. Expand Frequent	57-TV Hwy/Forest Grove	0					
Service	76-Beaverton/Tualatin				3		
Service	31-King Rd						2
4. Improve Local	Tigard			1			
Service	N. Clackamas						
Peak Requirements							
Buses		525	527	528	532	534	532
Light Rail Vehicles		83	77	80	84	88	114

11. Appendix - Frequent Service Criteria

			Possible	
	Major Criteria	Subcriteria	Scores	Data
			15	20+ Boardings/Vehicle Hour
		Marginal Increase in Boarding Rides per	10	17-19 Boardings/Vehicle Hour
1	Ridership	Increase in Vehicle Hour		
			5	12-16 Boardings/Vehicle Hour
			0	10-11 Boardings/Vehicle Hour
			10	15+ Residents/Acre
			8	12-14 Residents/Acre
		Number of Residents per Acre within a 1/4	6	9-11 Residents/Acre
		Mile of the Frequent Service Corridor	4	6-8 Residents/Acre
			2	3-5 Residents/Acre
			0	<3 Residents/Acre
			10	15+ Employees/Acre
			8	12-14 Employees/Acre
		Number of Employees per Acre within a 1/4	6	9-11 Employees/Acre
		Mile of the Frequent Service Corridor	4	6-8 Employees/Acre
			2	3-5 Employees/Acre
			0	<3 Employees/Acre
			5	15+ Attractions
		Major Attractions within a 1/4 Mile of the	3	10-14 Attractions
		Frequent Service Corridor	1	5-9 Attractions
			0	<5 Attractions
			10	80+% Coverage
	Transit/Pedestrian	% Sidewalk Coverage w/in 1/4 Mile of Corridor	7	70-79% Coverage
2	Friendly Environment		4	60-69% Coverage
			1	50-59% Coverage
			0	<50% Coverage
			5	5+ Crosswalks/mile
			4	4 Crosswalks/mile
		Number of Regulated Crossings/Mile	3	3 Crosswalks/mile
			2	2 Crosswalks/mile
			1	1 Crosswalks/mile
			0	0 Crosswalks/mile
			5	5+ Projects in CIP
			4	4 Projects in CIP
		Pedestrian/Transit Priority Improvements Along the Route are in the Jurisdiction's CIP	3	3 Projects in CIP
			2	2 Projects in CIP
			1	1 Project in CIP
			0	0 Projects in CIP

			2	Yes
3	Transit Dependence	Does the Frequent Service Route enter a Job Access Employment Area?	0	No
		Number of Households Per Mile at 150% of	2	>110 Households/Mile
		Poverty is Greater Than the Average	0	<110 Households/Mile
			3	1.5%+
		Number of Lift Deployments as a Percentage	2	1%-1.4%
		of Total Boardings	1	.5%99%
			0	<.5%
			3	41-50
		Senior and Disabled Residential Facilities &	2	31-40
		Work Training Centers within a 1/4 Mile of the Frequent Service Corridor	1	20-30
		requent service corridor	0	<20
4	Regional Transportation Plan	Frequent/Rapid Bus Designation	10	Yes
	Coordination		0	No
5	Relationship to Major Transportation Developments	Frequent Service Connects to High Capacity Transit Developments	10	Connection to Blue Line, Red Line, Interstate LRT, Proposed South Corridor LRT, WA County Commuter Rail
			0	No Connection
			10	Tier 1: Central City, Regional Centers, Industrial Areas
6	Land Use Connectivity	Frequent Service Connects with 2040 Land	5	Tier 2: Town Centers, Main Streets, Station Areas
		Туре	0	Tier 3: Inner/Outer Neighborhoods & Employment Areas
	Transportation		2	>50%
7	Demand	% of ECO Compliant Companies within a 1/4 mile of the Route	1	25%-49%
	Management	inne of the route	0	<25%

12. Appendix - Glossary

Boarding rides are counted each time a person steps enters a vehicle. As used in the TIP, trips, boardings and rides all refer to boarding rides. TriMet uses automated passenger counters to record boardings.

Boarding rides per vehicle hour (BR/VH) describe a route's productivity. The desired minimum BR/VH is one-half the average for all routes.

Central City is a term from the Growth Concept, describing downtown Portland. It would grow at about the same rate as the rest of the region and would remain the location of about 20 percent of regional employment. To do this, downtown Portland's 1990 density of 150 people per acre would increase to about 250 people per acre (Adapted from the 1997 Regional Framework Plan).

Choice Riders are people who either have a car available or decide not to own one because they prefer riding TriMet.

Commuter Rail generally operates during rush hours between major urban centers, using self-propelled or locomotive-hauled trains on an existing railroad.

Corridors are not as dense as centers, but also are located along good quality transit lines. They provide a place for densities that are somewhat higher than today and feature a high-quality pedestrian environment and convenient access to transit. Typical new developments would include row houses, duplexes and one- to three-story office and retail buildings, and average about 25 persons per acre. (Adapted from the 1997 Regional Framework Plan).

Deadhead Hours- are the time spent out of service when a transit vehicle travels between the yard and the start of a route.

Fiscal Years start on July 1 of the preceding calendar year. FY 2005 runs from July 1, 2004 to June 30,2005.

Fixed-route service refers to TriMet's scheduled service on 3 MAX lines and 93 bus routes.

Framework Plan Metro document adopted in 1997 that incorporates regional policies such as the Growth Concept and Regional Transportation Plan.

Frequent Service operates every fifteen minutes or better, every day. 15 bus routes and all MAX lines meet this level of service.

Growth Concept is a 50 year vision for land use and transportation in the Portland Metropolitan Region adopted by Metro.

Headways describe the amount of time between arrivals of a transit vehicle along a particular line. Headways decrease as service frequency increases.

Layover Hours Time spent out of service after reaching the end of a route and before starting over.

LIFT paratransit provides door-to-door service for eligible people under the Americans with Disabilities Act who are unable to ride TriMet fixed route service.

Light Rail-see MAX.

Linked Trip- see originating ride.

Low Performing lines attract fewer than 10 boarding rides per vehicle hour.

Main Streets typically will serve neighborhoods and may develop a regional specialization that draws people from other parts of the region. Examples include Hawthorne Boulevard in Portland, Main Avenue in Gresham and Main Street in Hillsboro. The Growth Concept calls for Main Streets to grow from 1990 levels of 36 people per acre to about 39 per acre. (Adapted from the 1997 Regional Framework Plan).

MAX Light Rail is TriMet's high capacity transit service. MAX began operating in 1986 and was extended in 1998, 2001 and 2004. MAX uses its own lane in the Central City and Hillsboro Regional Center; outside of these areas, MAX travels at up to 55 miles per hour with limited stops in an exclusive right of way.

Originating Rides count the number of total boardings, but exclude transfers. A person who rides MAX and then boards a bus is counted as one originating ride or one linked trip.

Platform hours-see revenue hours.

Portland Mall 36 blocks of bus-only lanes and unique shelters on Fifth and Sixth Avenues in Downtown Portland. The Portland Mall was part of the 1972 Downtown Plan, opened in 1978 and was extended north in 1994.

Portland Streetcar operates in mixed traffic on a rail loop linking NW 23rd, the Pearl District and PSU via Tenth and Eleventh Avenues. The streetcar is owned by the City of Portland, managed by a non-profit organized by the City, and operated by TriMet personnel.

Pullouts refer to vehicles leaving the garage. Peak pullouts described the maximum number of vehicles in service. Pullout can also describe paved shoulders where buses can stop along higher speed roadways.

Quick Drop offers short-term parking for easy access to the Airport MAX Red Line.

Regional Centers are the focus of compact development, redevelopment and high quality transit service, multi-modal street networks and act as major nodes along regional through routes. The Growth Concept estimates that about 3 percent of new household growth and 11 percent of new employment growth would be accommodated in these Regional Centers. From the current 24 people per acre, the Growth Concept would allow for about 60 people per acre. Gresham is an example of a Regional Center. (Adapted from the 1997 Regional Framework Plan).

Regional Transportation Plan (RTP) lays out the 20-year priorities for road, trans, freight, bicycle and pedestrian improvements. The RTP is administered by Metro. See chapter 3.

Revenue hours refer to the amount of time a TriMet vehicle and operator are available to serve passengers. Revenue hours describe how much service is provided to customers.

Service hours-see vehicle hours.

Standard Service refers to buses that arrive less often than Frequent Service.

Total Transit System is TriMet's term for all of the attributes that make transit an attractive choice for riders, including: rich customer information, easy access to transit, comfortable places to wait, high quality transportation (frequent, reliable, comfortable), safety and security.

Town Centers are smaller than Regional Centers and centers would accommodate about 3 percent of new households and more than 7 percent of new employment. The 1990 density of an average of 23 people per acre would increase to 40 persons per acre, the current densities of development along Hawthorne Boulevard and in downtown Hillsboro. (Adapted from the 1997 Regional Framework Plan).

Transit Center (TC) is a hub where multiple TriMet bus MAX lines meet. Bus service to transit centers is scheduled to facilitate transfers.

Transit Mall- see Portland Mall.

Transit Oriented Development (TOD) is designed for pedestrians and includes housing, employment and recreation in a compact area near public transit.

Transit Tracker provides real-time Bus and MAX arrivals online and at key bus stops and MAX stations.

Unlinked Trip-see boarding ride

Urban Growth Boundary (UGB) controls urban expansion onto farm, forest and resource lands. Metro manages the UGB as required by state law. See chapter 3.

Vehicle hours include revenue hours plus the time it takes a vehicle to travel from the garage to the end of the line. Vehicle hours describe how much of the agency's resources are needed to serve a particular route, including times when the vehicle is not in service to customers.

Vintage Trolley began operating replicas of Portland's Council Crest streetcars in 1991 and is administered by Vintage Trolley, Inc, a non-profit corporation. The Trolley is supported by business sponsors along the route and operates on weekends using MAX and Streetcar tracks.

Willamette Shore Trolley is operated by the Oregon Electric Railway Historical Society on a publicly owned right of way between the South Waterfront and Lake Oswego.

13. Appendix - Acronyms

ADA-Americans with Disabilities Act

APC-Automated Passenger Counter

ASA-Automated Stop Announcement

ATP-Accessible Transportation Program

BR-Boarding Ride

BRT-Bus Rapid Transit

CBD-Central Business District

CMAQ-Congestion Mitigation and Air Quality

DEQ-Oregon Department of Environmental Quality

E&D-Elderly and Disabled

ECO-Employee Commute Options

EDTP-Elderly and Disabled Transportation Plan

EIS- Environmental Impact Statement

FTA-Federal Transit Administration

FY-Fiscal Year

LPA-Locally Preferred Alternative

LRT-Light Rail Transit

MAX-Metropolitan Area Express

MTIP-Metropolitan Transportation Improvement Program

ODOT-Oregon Department of Transportation

OMAP-Oregon Medical Assistance Program

PIP-Productivity Improvement Process

ROW-Right of Way

RTCC-Elderly and Disabled Regional Transportation Coordinating Committee

RTO-Regional Travel Options

RTP-Regional Transportation Plan

SOP-Standard Operating Procedure

STF-Special Transportation Funds

STP-Surface Transportation Program

TC-Transit Center

TDM-Transportation Demand Management

TIP-Transit Investment Plan

TriMet-Tri-County Metropolitan Transportation District of Oregon

TSP-Traffic Signal Priority

TSP-Transportation System Plan

UGB-Urban Growth Boundary