













ADOPTION DRAFT

2021-2024 Metropolitan Transportation Improvement Program

June 2020



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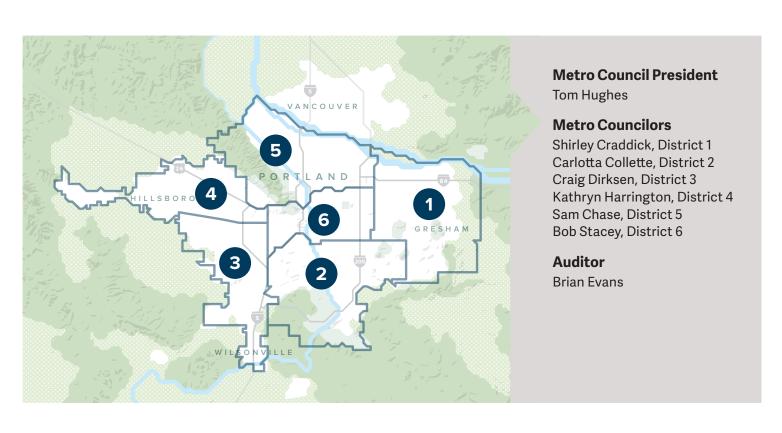












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List of acronyms

3R	Resurfacing, Restoration and	co c	Carbon Monoxide	EV	Electric Vehicle
AASHTO	Rehabilitation project American Association of State	CO2e C	Carbon Dioxide Equivalent	FARS	Fatal Analysis Reporting System
ААЗНІО	Highway and Transportation Officials	coc	Communities of Color	FAST Act	Fixing America's Surface
AC	Advance Construct	CONS	Construction		Transportation Act (2015) – the current Federal Transportation Act
ADA	Americans with Disabilities Act	CRF	Crash Reduction Factor	FDE	
АМРО	Association of Metropolitan Planning Organizations	C-TRAN	Clark County Public Transportation Benefit Area Authority	FEIS	Final Design and Engineering Final Environmental Impact Statement
AQMA	Air Quality Maintenance Area	CV	Connected Vehicle	FEMA	Federal Emergency Management
ARTS	All Roads Transportation Safety	DBE	Disadvantaged Business Enterprise	FLIVIA	Agency
ATM	Active Traffic Management	DEIS	Draft Environmental Impact	FFO	Full Federal Oversight
ATMS	Advanced Transportation		Statement	FFGA	Full Funding Grant Agreement
	Management System	DEQ	Oregon State Department of Environmental Quality	FHWA	Federal Highway Administration
AV	Autonomous Vehicle	DLCD	Oregon Department of Land	FTA	Federal Transit Administration
BEA	Bureau of Economic Analysis	DEOD	Conservation and Development	FY	Fiscal Year
BLS	Bureau of Labor Statistics	DOA	Design Option Alternatives (Project	FFY	Federal Fiscal Year
BRT	Bus Rapid Transit		Phase)	GHG	Greenhouse Gases
BUILD	Better Utilizing Investments to	DOT	Department of Transportation	GIS	Geographic Information System
	Leverage Development	E&D	Elderly and Individuals with	НВ	House Bill
ВУ	Bypass		Disabilities	НС	Hydrocarbons
CAAA	Clean Air Act Amendments	EA	Environmental Assessment	нсм	Highway Capacity Manual
CAV	Connected and Autonomous Vehicles	EFA	Equity Focus Area	нст	High Capacity Transit
CBD	Central Business District	EIS	Environmental Impact Statement	ніс	High Injury Corridor
CCTV	Closed Circuit Television	EJ	Environmental Justice	HIP	Highway Infrastructure Program
CDBG	Community Development Block Grant	EMS	Emergency Medical Services	HOV	High Occupancy Vehicle
CE	Categorical Exclusion	EPA	Environmental Protection Agency	HPMS	Highway Performance Monitoring
CFR	Code of Federal Regulations	EQ/EQ Bonus	, ,		System
CMAQ CMP	Congestion Mitigation and Air Quality Congestion Management Process	ETC	Enhanced Transit Corridor or Enhanced Transit Concept	HSIP	Highway Safety Improvement Program
		ETR	Emergency Transportation Route	HSM	Highway Safety Manual

IOF Immediate Opportunity Fund Intermodal Surface Transportation Efficiency Act (1991) ITS Intelligent Transportation System NEPA National Environmental Protection Act Intelligent Transportation System NEPA National Highway Freight Program Transportation Act NHFP National Highway Performance Program NHPP National Highway System NHSA National Highway Safety Traffic Administration NHSA National Performance Management Regional Disaster Preparedness Organization NHSA National Performance Management Regional Flashing Regional Flashing Be Rectangular Rapid Flashing Be Rectangular R	HSP	Highway Safety Plan	МРО	Metropolitan Planning Organization	PERC	Public Engagement Review Committee
I/M Integrated Corridor Management	HUD	Department of Housing and Urban	MSTIP	Major Streets Improvement Program	PHEV	Plug-in Hybrid Electric Vehicle
ICM Incident Management Improvement Program PM2.5 Particulate Matter (fine) IGA Intergovernmental Agreement MTP Metropolitan Transportation Plan IGA Intergovernmental Agreement MTP Metropolitan Transportation Plan IGA Intergovernmental Agreement MTP Metropolitan Transportation Plan IGA Intergovernmental Agreement MTP Metropolitan Transportation Plan IGA Intergovernmental Agreement MTP Metropolitan Transportation Plan IGA Intergovernmental Agreement MTP Metropolitan Transportation Plan IGA Intergovernmental Agreement MTP Mutonal Intergovernmental Protection Plan IGA Intergovernmental Agreement MTP Mutonal Ambient Air Quality Standards IGA Intergovernmental Agreement MTP Mutonal Ambient Air Quality Standards IGA Intergovernmental Agreement MTP Mutonal Ambient Air Quality Standards IGA Intergovernmental Agreement MTP Mutonal Ambient Air Quality Standards IGA Intergovernmental Agreement MTP Mutonal Ambient Air Quality Standards IGA National Ambient Air Quality Standards NB North Bound IGA National Ambient Air Quality Standards NB North Bound IGA National Ambient Air Quality Standards NB North Bound NB National Highway Freight Program IGA National Highway Freight Program NHP National Highway Performance Program IGA NHP National Highway Performance Program NHP National Highway System NHP Nitrogen Oxides NHP Nitrogen Ox		Development	MTAC	Metro Technical Advisory Committee	PL	Metropolitan Planning
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MPA Metropolitan Planning Area Programming Project Development Project Development RTS Regional Transit Strategy			PBPP			
PD Project Development Regional Halist Strategy		Metropolitan Planning Area				
IVIPAU IVIEU O POIICY AUVISOI V COIIIIIIILLEE		Metro Policy Advisory Committee		·		
PE Preliminary Engineering RTSS Regional Transportation Safety		,,	PE	Preliminary Engineering	KISS	Regional Transportation Safety Strategy

RUGGO	Regional Urban Growth Goals and Objectives	TIFIA	Transportation Infrastructure Finance and Innovation Act
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act:	TIGER	Transportation Investment Generating Economic Recovery
	A Legacy for Users	TIP	Transportation Improvement Program
SB	Southbound	TMA	Transportation Management
SHSP	Strategic Highway Safety Plan		Associations
SIP	State Implementation Plan	TMA	Transportation Management Area
SFY	State Fiscal Year	TOD	Transit Oriented Development
SMART	South Metro Area Regional Transit	TPAC	Transportation Policy Alternatives
SOV	Single Occupant Vehicle		Committee
SPIS	Safety Priority Indexing System	TPM	Transportation Performance
SPR	State Planning and Research	TDD	Management
SRTS	Safe Routes to School	TPR	Transportation Planning Rule
STBG	Surface Transportation Block Grant	TRILOC	TriMet Local Funds
STF	Special Transportation Fund	TriMet	Tri-county Metropolitan Transportation District
STFAC	Special Transportation Fund Allocation Committee	TSAP	Transportation Safety Action Plan
STIP	State Transportation Improvement	TSM	Transportation System Management
OTII	Program	TSMO	Transportation System Management and Operations
STP	Surface Transportation Program	TSP	Transit Signal Priority
TA	Transportation Alternatives	TSP	Transportation System Plan
TAP	Transportation Alternatives	UGB	Urban Growth Boundary
	Program	UGMFP	Urban Growth Management Functional
TAM	Transit Asset Management	Odivii F	Plan
TAMP	Transit Asset Management Plan	UPWP	Unified Planning Work Program
TAZ	Transportation Analysis Zone	UR	Utility Relocation
TCM	Transportation Control Measure	USDOT	United States Department of
TDM	Transportation Demand Management		Transportation
TEA-21	Transportation Equity Act for the 21st Century (1998)	UZA V/C	Urbanized Area Volume to Capacity

VMT Vehicle Miles Traveled
 VOC Volatile Organic Compounds
 WSDOT Washington State Department of Transportation
 YOE Year of Expenditure



Chapter 1: What is the MTIP?

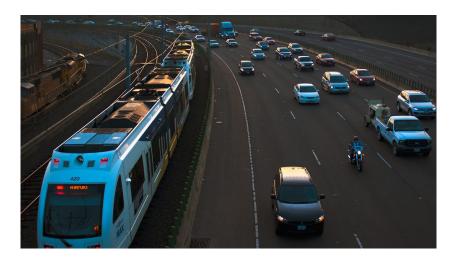
What is the Metropolitan Transportation Improvement Program?

The Metropolitan Transportation Improvement Program (MTIP) is a federally required document. The MTIP demonstrates how transportation projects planned advance the Portland metropolitan region's shared goals and comply with federal regulations – such as fiscal constraint, air quality impacts, and public involvement. The MTIP outlines the implementation schedule of federally funded transportation projects in the region for the next four years and helps to manage the project delivery of transportation projects.

The MTIP exists as a financial planning and project delivery tool for the metropolitan region. As a tool, the MTIP assists in ensuring the region does not overspend and tracks the delivery of transportation projects. As a document, the MTIP shows how the investments into the transportation system make progress towards the goals for the system.

Adopted in December 2018, the region agreed to eleven shared goals for the transportation system. Of the eleven, the region prioritized four goals:

- **Safety** People's lives are saved, crashes are avoided and people and goods are safe and secure when traveling in the region.
- **Equity** The transportation-related disparities and barriers experienced by historically marginalized communities, particularly communities of color, are eliminated.
- Climate leadership The health and prosperity of people living in



the greater Portland region are improved and the impacts of climate change are minimized as a result of reducing transportation-related greenhouse gas emissions.

 Managing congestion – The transportation system is managed and optimized to ease congestion, and people and businesses are able to safely, reliably and efficiently reach their destinations by a variety of travel options.

Federal regulatory context

The Federal-Aid Highway Act of 1962 established metropolitan planning organizations (MPOs), like Metro, to ensure regional cooperation in transportation based on a continuing, cooperative, and comprehensive ("3C") planning process. MPOs conduct longrange planning and fund programming for the regional transportation system. For Metro, that means developing and implementing two planning and policy documents: the Regional Transportation Plan (RTP) and the Metropolitan Transportation Improvement Program (MTIP).

What is an MPO?

A metropolitan planning organization is a federally mandated and federally funded transportation policy-making organization for urbanized areas with a population greater than 50,000. Made up of representatives from local government and governmental transportation authorities, MPOs ensure regional cooperation in transportation based on a continuing, cooperative, and comprehensive ("3C") planning process. Federal funding for transportation projects and programs are channeled through this planning process.

As the metropolitan planning organization for the Portland metropolitan area, Metro is authorized by Congress and the State of Oregon to coordinate and plan investments in the transportation system for Clackamas, Multnomah and Washington counties.

The RTP serves as the long-range transportation policy document. It outlines the vision for the region's urban transportation system and sets a baseline of priority investments. The MTIP, as the RTP's companion, serves as a snapshot of where federal transportation funds are anticipated to be spent over the first four federal fiscal years of the RTP.

Per federal requirements, planning and policy documents are "constrained to reasonably expected revenue." This means Metro, working with partner agencies, makes long-term (for the RTP) and shortterm (for the MTIP) projections of transportation revenue expected to come to the region from federal and significant state, regional, or local sources. The projected revenues set the anticipated capacity of the region to make long-term and short-term transportation investments without over-expending or becoming unconstrained. These revenue projections are updated with each RTP and each MTIP cycle.

Who plays a role in the MTIP?

The MTIP is a joint effort between regional and state partners. Metro acts as the main author and owner of the MTIP and works closely with the Oregon Department of Transportation (ODOT) and transit agencies, Tri-County Metropolitan Transportation District (TriMet), and South Metro Area Regional Transit (SMART) to reflect the transportation investments in

the Portland region. Metro, ODOT, TriMet, and SMART each have authority over expending federal transportation dollars in the Portland metropolitan region. For example, as public transit agencies TriMet and SMART utilize funding from the Federal Transit Administration (FTA) to support capital and maintenance programs to deliver services. Metro, ODOT, TriMet, and SMART are each responsible for providing details of transportation expenditures from year-to-year. These agencies must also demonstrate how the total combination of transportation expenditures advance federal, state, and regional priorities.



Chapter 2: Overview of the 2021-2024 MTIP

2021-2024 MTIP investment program overview

The 2021-2024 MTIP is a little over \$1.2 billion in transportation project and program investments. Spread over 203 projects and programs, the 2021-2024 MTIP includes:

- a mix of capital investments to enhance and fill gaps on the transportation system across all forms of travel,
- maintenance investments to take care of the transportation infrastructure already in place,
- operations investments to use technologies to make the system run smoother and safer, and
- programs that educate about travel options, support kids in walking and rolling to school safely, and reinforcing the connection between housing and transit.

Chapter sections

- 2021-2024 MTIP investment program overview
- What changed from the 2018-2021 MTIP to the 2021-2024 MTIP?
- Major events since the adoption of the 2018-2021 MTIP
- Major areas to influence the 2021-2024 MTIP
- Major projects delivered from the 2018-2021 MTIP and general implementation progress
- What project delays occurred and what is carryover from the 2018-2021 MTIP
- Investment highlights and outcomes of the 2021-2024 MTIP

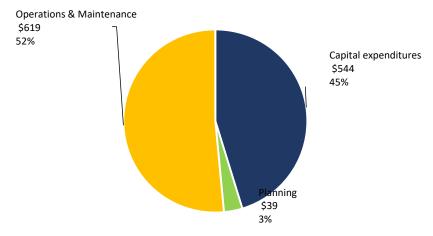
Taking care of the roads versus building new facilities (maintenance vs. capital investment)

Approximately 45 percent of the transportation investments in the 2021-2024 MTIP represent capital investments and 52 percent represented maintenance and operations investments. The remaining 3 percent of the 2021-2024 MTIP represent planning activities or running programs.

Figure 2-1. 2021-2024 MTIP investment type

2021-2024 MTIP Investment Type

All dollar amounts in millions of dollars



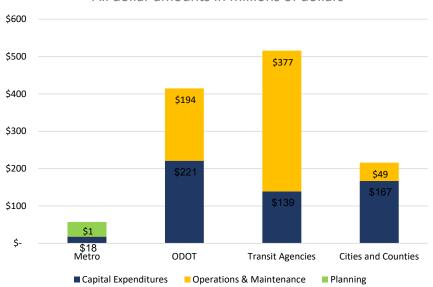
The MTIP is a snapshot of the region's transportation investments and the investment profile can change. The near even split between the capital investments (45%) and the maintenance investments (52%) demonstrate the region striving to balance many different goals and objectives across the system. The near even split also highlights the challenge of balancing policy direction coming from different places – from federal directives, state legislative mandates, or local policies. At times, the policy direction to focus on certain goals and objectives for the transportation system compete against each other. For example, ODOT's statewide policy to "fix it

first" means maintaining the system is priority, but federal directives to increase reliability for people and goods traveling on the roadway system means transportation projects competes for finite investments.

Figure 2-2. 2021-2024 MTIP investment type by agency

2021-2024 MTIP Investment Type by Agency

All dollar amounts in millions of dollars



Note: Metro's capital investments includes the Columbia Boulevard Overcrossing project being delivered by Metro's Parks and Nature Department and the Transit-Oriented Development program.

The region's main project delivery agencies show varying level of investment towards capital and maintenance. For example, the transit agencies – SMART and TriMet – may show the largest amount of investment in the MTIP, but the majority of its federal funding is primarily for maintaining the assets (e.g. buses, light rail track work, etc.) of the transit system. As with any funding source, federal funds have a number of restrictions. Some dollars are restricted solely for the purpose of maintaining roadways or purchasing buses, whereas others have greater flexibility. However, federal transportation funds tend to focus on capital investments such as roads, transit, bicycle and pedestrian networks, which are short-term commitments. The expectation by the federal government is for states, local governments, and transit agencies to maintain and operate the system. Nonetheless, there are federal sources of monies for maintenance, as represented in the 2021-2024 MTIP, but the bulk of revenue for maintenance programs and activities is typically raised by state and local governments.

Definitions of capital, maintenance, and operations

In the public works universe, a capital investment is the planning and construction for new infrastructure such as roads. bridges, water and sewer systems, and other structures. The new infrastructure may fill in gaps in a system, such as building missing sidewalks on a busy street to create a contiguous walking environment. Beyond building roads, sidewalks, and new transit lines, other common types of capital investments include new traffic signals, variable message and speed signs on the freeway, and marked crosswalks with on-demand flashing lights.

A maintenance investment is the planning and construction to rebuild an existing piece of infrastructure. The infrastructure may be decaying or at a certain age when it needs replacement. Common maintenance investments are repaving streets, fixing the joints on bridge spans, or restriping a faded bicycle lane.

Major investments not shown

The investment profile does not include funding for three of the region's upcoming major capital investments - the Division Transit Project, Interstate-5 Rose Quarter Improvements, and the MAX Red Line Extension. The three projects are not programmed in the 2021-2024 MTIP for two reasons. First, federal rules require that projects must demonstrate that all of the funds needed to complete the project are available before those funds may be programmed to the project in the MTIP. For large scale, multi-year capital projects, the project can get broken into phases and phases may be programmed in the MTIP when the full funding of that phase can be demonstrated. For the I-5 Rose Quarter project and the MAX Red Line extension, full funding commitments for the construction phases have not been secured and are not yet ready to program into the MTIP for this reason.

Additionally, when a project phase has executed its agreement with the US Department of Transportation as eligible and ready to receive funds, it no longer needs to be programmed in the MTIP, even though work on that project phase has not been completed. The Division Transit project executed its funding agreement with USDOT for construction funding in fiscal year 2020 and therefore is not included in the 2021-24 MTIP, even though the physical construction of the project will occur in calendar years 2021 and 2022. (More information about the three capital projects and why they are not in the 2021-2024 MTIP can be found in Appendix II)

Wait, don't I pay for the potholes to get fixed on my street?

The Metropolitan Transportation Improvement Program does not include all the scheduled funding for maintenance activities in the Portland metropolitan region in the upcoming four fiscal years. The MTIP only includes those maintenance activities/ programs that receive federal funds. The bulk of maintenance funding is generated through local and state sources, like local gas taxes. Since the MTIP is not required to include the majority of locally funded capital or maintenance projects, it only shows a portion of the overall funding that goes towards maintaining the transportation system. The maintenance activities that MTIP is able to illustrate are those undertaken by ODOT, SMART, and TriMet because these agencies receive and administer federal transportation funds. Still, the MTIP is only showing a partial picture of the overall resources each of these agencies dedicates to maintenance.



The City of Portland's Fix Our Street's local gas tax is an example of local maintenance revenues not included in the 2021-2024 MTIP.

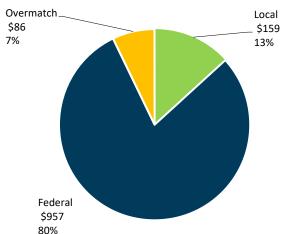
2021-2024 MTIP investment portfolio

In addition to being an investment snapshot in time, the 2021-2024 MTIP primarily functions as the investment program for federal funds and regionally significant projects and programs. The 2021-2024 MTIP includes 80 percent of federal funding and the remaining 20 percent is local funding. Of the local funding 7 percent is overmatch, meaning it is beyond the minimum required local dollars by the federal government. The region is contributing over \$86 million in local and state dollars in the upcoming four years towards the federally supported projects and programs. The increased contribution beyond what is necessary shows a commitment and partnership with the federal government to implement transportation projects and programs that meet shared objectives.

Figure 2-3. 2021-2024 MTIP fund by source

2021-2024 MTIP Fund Source Breakdown

All dollar amounts in millions of dollars



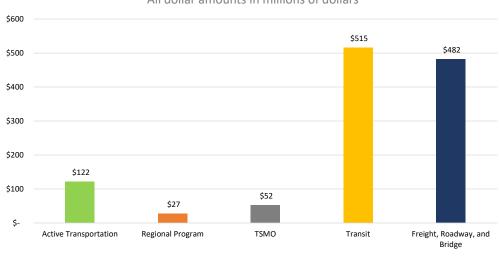
Note: Metro's capital investments includes the Columbia Boulevard Overcrossing project being delivered by Metro's Parks and Nature Department and the Transit-Oriented Development program.

The 2021-2024 MTIP invests across all different forms of travel in the upcoming four years. While the bulk of the 2021-2024 MTIP investments – just under \$1 billion combined – are for roadway and transit, the region is also directing over \$120 million towards building out the active transportation network. In addition, \$52 million is for transportation system management and operations (TSMO), which compliments the region's investments into the roadway and transit systems to help manage demand. The TSMO investments use a mix technologies and communications infrastructure to help manage the traffic flow of roadways, provide traveler information, or provide priority to buses, light rail, and even bicyclists to get through intersections.

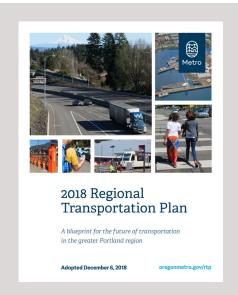
Figure 2-4. 2021-2024 MTIP investment by mode

2021-2024 MTIP Investment by Mode

All dollar amounts in millions of dollars



While roadway and transit investments may dominate the 2021-2024 MTIP, it is important to remember the investments represent a mix of maintenance and capital projects, where the active transportation investments are primarily to upgrade or build new facilities. Nonetheless, the active transportation investment is not as large as investments in roadways or transit, preventing the



2018 Regional Transportation Plan



Portland to Milwaukie light rail, the most recent high capacity transit project to open in the region

completion of a network that provides connectivity and facilitates ease of traveling by walking, bicycling, or getting to transit. Federal funds are also incredibly challenging to use for smaller scale projects like sidewalk infill on a main street, building a protected bikeway, or a multiuse path because the federal aid process can be difficult to navigate. Local jurisdictions as well as ODOT will often try to fund active transportation projects with local or state funds to avoid the federal aid process. Therefore the investment into active transportation may not fully be represented.

What changed from 2018-2021 MTIP to the 2021-2024 MTIP?

The 2021-2024 MTIP represents \$1.1 billion in combined capital and operations and maintenance investments in the regional transportation system. This is approximately \$300 million less than the 2018-2021 MTIP. The difference in the level of funding can be attributed to a number of changes which occurred since the adoption of the 2018-2021 MTIP in July 2017. A discussion of the changing landscape and how the events influenced the 2021-2024 MTIP is below.

Major events since the adoption of the 2018-2021 MTIP

Since summer 2017, a number of activities occurred which directly and indirectly influenced and shaped the development of

the 2021-2024 MTIP. These include:

- A statewide transportation package was passed in 2017 and the infusion of new revenues and work towards the implementation of legislatively named projects launched;
- Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) completed a certification review of Metro and the region's metropolitan planning activities;
- The Portland region adopted a new urban growth forecast in 2018, anticipating 200,000 new households in the Portland metropolitan region over the next 20 years;
- The Portland region adopted an update to the Regional Transportation Plan (RTP) which identified the transportation priorities for the region;
- Subsequently after the adoption of the 2018 RTP, in spring 2019, the region adopted the policy direction for the 2021-2024 MTIP:
- As directed by the statewide transportation legislation, ODOT submitted a successful application to the federal government to pursue pricing of Interstate 5 and Interstate 205 to manage demand and raise revenue;
- The region, in conjunction with ODOT

and transit partners, began the implementation of MAP-21 performance targets with the development of 2 and/ or 4-year targets, baselines, and monitoring;

- ODOT, in coordination with the metropolitan planning organizations across the state launched an annual obligation target process;
- The last reimbursement payments from the Federal Transit Agency arrived for the construction of the Portland-Milwaukie light rail project, which to-date is the region's largest capital transit project;
- The region's voters approved an affordable housing funding measure to address the shortage of affordable homes in the region;
- The region began a process to consider placing a regional transportation funding package to the voters in November 2020

The different events and milestones all play different roles in how they shaped the 2021-2024 MTIP. In some cases, the adoption of new regional policies provided direction towards the allocation of funds. For other cases, state legislation and federal directives directed certain projects or types of projects to be included in the investment profile. The federal directives also shaped the transparency of the financial plan for the 2021-2024 MTIP. The activities explicitly

 like federal directives – or implicitly – like the projected population forecast – played a role in shaping investments in the regional transportation system.

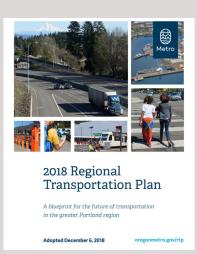
Major areas to influence the 2021-2024 MTIP

Of the many events to occur since summer 2017, four areas significantly influenced the 2021-2024 MTIP: regional and agency policy direction, statewide legislation, project delivery, and responding to federal directives. A short summary is provided for each of these areas to set into context the profile of investments shown in the 2021-2024 MTIP.

Regional and agency policy direction

The 2021-2024 MTIP was developed in parallel with the adoption of the 2018 RTP. The 2018 RTP outlines four priority areas for investments in the system:

- Safety Get to zero death and serious injuries on the region's roadways (Vision Zero)
- Equity Reduce the disparities gap people of color, people with lower incomes, and people with limited English language skills experience with the transportation system
- Climate Reduce greenhouse gas emissions from transportation sources and make progress towards the implementation of the region's Climate Smart Strategy



2018 Regional Transporation Plan



2021 – 2024 Metropolitan Transportation Improvement Program (MTIP) policy direction

April 201

oregonmetro.gov/mti

2021-2024 MTIP policy direction, adopted April 2019

Defining terms

- Joint Policy Advisory
 Committee on Transportation
 (JPACT) A joint decisionmaking body with the Metro
 Council for all metropolitan
 planning organization activities,
 including the metropolitan
 transportation improvement
 program (MTIP) and regional
 transportation plan (RTP).
 Convened by Metro.
- Technical Policy Alternatives
 Committee The staff-level
 technical advisory committee
 to JPACT. Convened by Metro.
- Region 1 Area Commission on Transportation – An advisory body convened by the Oregon Department of Transportation to advise the Oregon Transportation Commission on local transportation issues and provide recommendations. The Region 1 ACT geography encompasses the majority of the metropolitan planning area and well as rural areas in Clackamas County, Multnomah County, and Hood River County.

 Congestion – Manage demand on the transportation system through a variety of strategies and tools.

Reaffirmed with the adoption of the 2021-2024 MTIP policy direction, the region's expectation was set that near-term investments into the transportation system must advance the 2018 RTP priorities. The regional policy direction was taken into account for the different funding allocations processes undertaken by each MTIP partner - Metro, ODOT, SMART, and TriMet in different ways. For Metro's 2022-2024 Regional Flexible Fund Allocation (RFFA), the Joint Policy Advisory Committee on Transportation (JPACT) and Metro Council directed the region to use the four investment objectives adopted in the RTP as the policy objectives guiding the allocation. This resulted in technical evaluation criteria focusing on the four 2018 RTP priorities. Whereas for ODOT's 2022-2024 STIP funding allocation discussion, JPACT and the Metro Council provided feedback to the Region 1 Area Commission on Transportation (ACT) and the Technical Policy Alternatives Committee (TPAC) engaged with ODOT staff that investments in the regional system should prioritize advancing the four priorities.

While Metro's allocation of the RFFA explicitly linked regional policy direction to the funding allocation process, the allocations undertaken by ODOT, SMART, and TriMet weighed and balanced the regional policy direction with their agency

leadership direction and priorities. In areas where agency direction and regional policy direction aligned, the link was clear and explicit in the funding. For example, the region's transit providers TriMet and SMART both have a role in the region's ability to implement the Climate Smart Strategy and reduce greenhouse gas emissions. As a result, the transit agency budget processes allocated funding towards fleet electrification that is illustrated in the 2021-2024 MTIP. The 2021-2024 MTIP is a reflection of the deliberation to balance across policy direction coming from different areas.

Statewide legislation

At the end of the 2017 legislative session, Oregon lawmakers passed a new statewide transportation package. Known as House Bill 2017, this transportation package raised new revenues through a combination of gas tax increases, vehicle registration increases, a privilege tax on vehicles, and other mechanisms. The state transportation package did earmark some of these new revenues to regionally significant transportation projects, including Interstate-5 Rose Quarter project, new lanes on Oregon 217, Interstate-205 auxiliary lanes from Glen Jackson Bridge to Johnson Creek, and planning work towards Interstate-205 Abernathy bridge retrofit and expansion to Stafford road. Additionally, House Bill 2017 directed new funding towards safety, bridge maintenance, transit service, and also

provided an influx of new pass-through revenues to cities and counties. The diverse mix of investments outlined in the 2021-2024 MTIP reflects the infusion of state funds combined with anticipated federal funding to invest into the transportation system.

Project Delivery

Aside from a statewide transportation package and a newly adopted long-range regional transportation blueprint, the region as well as the state went through a significant learning process related to project delivery and implementation of transportation projects. In coming to the critical realization project programming did not reflect the actual schedules of project delivery, the 2021-2024 MTIP is the first MTIP which employs a six-year programming framework for those projects funded through Metro's Regional Flexible Fund Allocation (RFFA). The six-year programming assists partners to develop realistic project delivery schedules, especially because of the complexities in planning and designing transportation projects in an urban environment.

While each project had reasons for its delay in delivery, the numerous project delays had cascading effects in continually financially constraining the MTIP and STIP. For a number of years, ODOT supported the region by swapping out older federal dollars on Metro allocated projects and expending those on state projects ready to go into construction. However, with the infusion of new funds from a state transportation package and challenges in delivering its own portfolio of projects, ODOT could no longer provide that level of support in swapping out funds. After a series of discussions with partners, ODOT launched an obligation target framework to better manage and incentivize project delivery. This change has resulted in the 2021-2024 MTIP extending programming through fiscal year 2026 to better reflect the delivery schedules of projects and get a better pulse of when the upcoming four-years of funding will get expended.



Kate Brown holds a ceremonial signing of House Bill 2017 at Portland Community College in Fall 2017

A six-year MTIP for project delivery, but with only four-years of funding capacity

Federal regulations allow for MTIPs to show a six-year schedule of expending federal monies to better depict project delivery and facilitate better management of financial constraint. This is in recognition that transportation projects can have extended timeframes to deliver or unexpected events happens in the middle of a transportation project. (Like a global pandemic.) While the 2021-2024 MTIP shows project schedules extended to fiscal year 2026, the 2021-2024 MTIP only represents the funding capacity for fiscal years 2021-2024. Transportation projects which are programmed in fiscal years 2025 and 2026 are not utilizing the funding capacity expected in those years.

Defining terms

Obligation - An obligation is the Federal government's legal commitment to pay the federal share of a project's cost. An obligated project is one that has been authorized by the federal agency (e.g. FHWA or FTA) as meeting eligibility requirements for federal funds.



A rendering of the Division Transit Project, the Portland region's first bus rapid transit project.

Federal Directives

At the end of 2017, FHWA and FTA completed a quadrennial certification review of Metro's metropolitan planning activities for the Portland metropolitan region. Overall, the certification review affirmed the region is in compliance with most directives governing metropolitan planning activities. However, the certification review gave corrective actions pertaining to the cooperative development of the 2018-2021 MTIP between partners – Metro, ODOT, SMART, and TriMet - and required a number of actions to take place in the development of the 2021-2024 MTIP. (See Appendix I) The corrective actions primarily focus on the region's financial plan for the near term investment program and the ability to demonstrate funds are available to complete projects. Subsequently, the state received the federal approval letter from FHWA and FTA on the 2018-2021 STIP, which includes all the MTIPs across Oregon. (See Appendix I) The 2018-2021 STIP approval letter reinforced and reiterated statewide the necessary actions to demonstrate fiscal constraint in the development of the 2021-2024 MTIP and STIP. As a result the 2021-2024 MTIP took additional steps and actions to give transparency towards the financial plan and constraining during the development process. Chapters 4 and 5 provides in-depth discussion of 2021-2024 MTIP's fiscal constraint. Chapter 8 also outlines the procedural process undertaken to demonstrate and maintain fiscal constraint

with amendments to the 2021-2024 MTIP.

The 2021-2024 MTIP is also the first MTIP developed under the directive of the federal performance measures and targets to emerge from the federal transportation reauthorization, Moving Ahead toward Progress in the 21st Century (MAP-21). The target setting process, undertaken as part of the development of the 2018 RTP. established the region's 2 and 4-year performance targets around asset management, system reliability, safety, and environment. The investments in the 2021-2024 MTIP investments are expected to move to region towards achieving the 2 and 4-year targets and as a result the investment profile has a mix of projects which look to address each.

Further discussion about the 2021-2024 MTIP and progress towards MAP-21 performance targets can be found in Chapter 3.

Major projects delivered from the 2018-2021 MTIP and general implementation progress

From 2018 through 2020, the region's partners worked cooperatively and collaboratively on the development of the 2021-2024 MTIP. At the same time, the implementation of the 2018-2021 MTIP was in progress. Adopted in July 2017, the \$1.4 billion dollar investment program included an array of transportation projects and programs. In the first two years of the

2018-2021 MTIP, the region obligated a total just over \$550 million towards projects and programs. The \$550 million was obligated on over 176 transportation projects and programs.

The 2018-2021 MTIP saw some long planned accomplishments come to fruition. Three marquee transportation projects and programs to get implemented from the 2018-2021 MTIP include:

- the Division Bus Rapid Transit (BRT) project
- the Interstate-205 auxiliary lanes, and
- implementation of the region's first strategic plan for demand management: the Regional Travel Options (RTO) strategy under a consolidated program administered at Metro

The Division Transit Project is the first BRT project in the region and runs along southeast Division street between downtown Portland and Gresham. With initial construction beginning in 2019, the enhanced buses, transit stations, and amenities along this 15-mile corridor will reduce travel times up to 20 percent, with buses running every 12 minutes and more often during the rush

hour commute. A celebration between the Federal Transit Administration, TriMet, the Cities of Portland and Gresham, and Metro was held in February 2020 when FTA awarded the full federal grant to the project.

The Interstate 205 auxiliary lanes project from the Glen Jackson Bridge to Johnson Creek Boulevard opened in Fall 2019. Under the added pressure of the state transportation package requiring the project to be completed to allow for a scheduled gas tax increase to take place, the project repaved nine miles, constructed three new auxiliary lanes, and installed 6 variable message and 26 variable speed warning signs to alert drivers of hazards or delays, allowing them to make travel decisions before they reach a problem area. Additionally at the northeast Glisan Street intersection, the project installed accessible sidewalk curb ramps, upgraded crosswalk buttons with audible message, and widened sidewalks.



Core elements to the Interstate 205 auxiliary lanes project from Glen Jackson Bridge to Johnson Creek Boulevard

Lastly, one of the transportation programs, the Regional Travel Options (RTO) program celebrated implementation of the region's first transportation demand management strategic plan under a consolidated administration at Metro. Adopted in 2018, the new strategic plan updated the program's goals and objectives to align with the 2018 RTP. With the continued focus on encouraging people to use other forms of travel to reduce single occupancy vehicle trips, the updated strategic plan outlines goals to reach new markets for travel options – particularly historically marginalized communities – and improve the performance of grant-funded projects.

In addition to the highlighted projects, a list of transportation projects which were completed from the 2018-2021 MTIP are identified in Table 2-1. For the purposes of this report, completed transit projects are those projects that have executed their grant agreement with FTA and have completed all or significant portions of construction or capital acquisitions. Programmatic work, such as the Regional Travel Options program, are on-going and therefore considered completed upon contractual obligation of program funds with FHWA or FTA to carry out the program work. All other projects are considered completed when the project has received a second note status from ODOT which typically indicated the project is open and operational.

Table 2-1. Completed Projects from the 2018-2021 MTIP

Project Sponsor	Project Name
ODOT	I-5: Interstate Bridge - Hassalo St
ODOT	US26: SE 282nd Ave (Boring Rd) Oxing
ODOT	OR213 Operational Improvements
ODOT	OR99E railroad tunnel illumination and ITS
ODOT	OR99E:Rockfall - Oregon City Tunnel to Old Canemah Park
CITY OF KING CITY	OR99W: SW Royalty Parkway - SW Durham Rd (King City)
TRIMET	OR99W: SW Lane St (Portland)- SW Naeve St (Tigard)
ODOT	US26: Beaver Creek Culvert Repair
ODOT	Regional active traffic management (ATM) project
ODOT	I-205 Shared Use Path at Maywood Park
ODOT	I-84/I-5: Banfield Interchange
ODOT	I-5: Marquam Br Electric & Lighting System Replace
ODOT	Region 1 High Friction Surface Treatment
ODOT	I-205:Johnson Creek-Glenn Jackson Bridge phase 2
ODOT	I-5: Interstate bridges (Columbia River)
MULTNOMAH COUNTY	Morrison Bridge Lift Deck Replacement
CITY OF GRESHAM	NE Kane Drive at Kelly Creek Culvert
CITY OF GRESHAM	East Metro Connections ITS
MULTNOMAH COUNTY	Newberry Road at MP 0.5
CITY OF PORTLAND	SE 122nd Ave: Johnson Creek Bridge Replacement
CITY OF PORTLAND	Foster Road Streetscape: SE 50th - 92nd Ave
CITY OF PORTLAND	HSIP 2016 Signalized Improvements (Portland)
CITY OF PORTLAND	St Johns Truck Strategy Phase II
CITY OF PORTLAND	HSIP City of Portland BikePed
WASHINGTON COUNTY	Beef Bend Road Culvert Replacement
CITY OF PORTLAND	Springwater Trail Gap: SE Umatilla - SE 13th Ave
CITY OF PORTLAND	East Portland Active Transportation to Transit

What project delays occurred and what is carryover from the 2018-2021 MTIP

Even the most rigorously planned project can encounter delays due to issues such as unknowable field conditions, commodities price fluctuations, or labor shortages. The projects and programs represented in the 2018-2021 MTIP are not immune to the unexpected. The following section identifies a list of transportation projects which were first programmed in the 2018-2021 MTIP which have been delayed and carried over to the 2021-2024 MTIP. Delayed projects are defined as those transportation projects or programs which originally programmed a construction phase prior to federal fiscal year 2020, but are not expected to obligate the construction phase as by August 1, 2020. Project delays to operations and maintenance projects are not included.

Table 2-2. Projects from the 2018-2021 MTIP carried over to the 2021-2024 MTIP

Project Name	Lead Agency
Red Electric Trail: SW Bertha - SW Capitol Hwy	Portland
40 Mile Loop: Blue Lake Park - Sundial & Harlow Rd	Port of Portland
Cedar Creek/Tonquin Trail: OR99W - SW Pine St	Sherwood
Durham Rd/Upper Boones Ferry Rd. OR99W - I-5	Tigard
SW Barbur Blvd: SW Caruthers St - SW Capitol Hwy	Portland
OR8: SW Hocken Ave - SW Short St	ODOT
Willamette Greenway Trail: Columbia Blvd Bridge	Metro
NE Columbia Blvd: Cully Blvd and Alderwood Rd	Port of Portland
OR217 Southbound: OR10 to OR99W	ODOT
Jennings Ave: OR 99E to Oatfield Rd	Clackamas County
SE 129th Avenue - Bike Lane and Sidewalk Project	Happy Valley
East Portland Access to Employment and Education	Portland
Central City in Motion	Portland
Fanno Crk Trail: Woodard Pk to Bonita Rd/85th Ave - Tualatin BR	Tigard
Beaverton Creek Trail: Westside Trail - SW Hocken Ave	Tualatin Hills PRD
Basalt Creek Ext: Grahams Ferry Rd - Boones Ferry Rd.	Washington County
OR8 Corridor Safety and Access to Transit II	ODOT
OR43: Arbor Dr - Hidden Springs Rd	West Linn
Stark Street Multimodal Connections	ODOT
I-205 Undercrossing (Sullivans Gulch)	Portland
Seventies Neighborhood Greenway	Portland
SW Farmington Rd at 170th Ave	ODOT
OR99W (Barbur Blvd) at SW Capitol Hwy	ODOT
OR99W (Barbur Blvd): MP 8.01 to MP 11.50	Tigard
OR8 at River Rd	ODOT
I-205 Exits Ramps at SE Division St	ODOT
I-5 Over 26th Avenue Bridge	ODOT
North Dakota Street: Fanno Creek Bridge	Tigard
NE Cleveland Ave.: SE Stark St - NE Burnside	Gresham
Brentwood Darlington Bike/Ped Improvements	Portland
NE Halsey Street Bike/Ped/Transit Improvements	Portland
Jade and Montavilla Multi-modal Improvements	Portland
OR210: SW Scholls Ferry Rd to SW Hall ITS	Beaverton
US26/OR213 Curb Ramps	ODOT
NE 12th Ave Over I-84 & Union Pacific RR Bridge (Portland)	Portland
OR99W/Barbur Blvd Area: Sidewalk Infill Projects	Portland
OR212/224 Arterial Corridor Management	ODOT
NE Airport Way Arterial Corridor Management	ODOT
Cornelius Pass Road Arterial Corridor Management	ODOT

Investment Highlights and Outcomes of the 2021-2024 MTIP

The 2021-2024 MTIP presents a wide array of investments across the 216 projects and programs totaling a little over \$1.2 billion. Included in the 2021-2024 MTIP are:

- a mix of capital investments to enhance and fill gaps on the transportation system across all forms of travel,
- maintenance investments to take care of the transportation infrastructure already in place,
- operations investments to use technologies to make the system run smoother and safer, and
- programs that educate about travel options, support kids in walking and rolling to school safely, and reinforcing the connection between housing and transit.

Compared to previous MTIP cycles, the 2021-2024 MTIP presents a more balanced mix of capital and maintenance investments where maintenance and operations investment make up a little over half (52%) of total investments. While capital investments in the transportation system can often dominate the investment profile of the MTIP because of the short-term infusion of funds to construct a project, the balance of the 2021-2024 MTIP with a greater composition of maintenance and operations investment shows further commitment towards taking care of existing assets while also trying to fill in network gaps. In particular, the level of maintenance and operations investment in the transit system illustrates this well as the oldest part of the region's light rail system is reaching nearly 35 years and maintenance of such a large system is and remains a significant endeavor. Nonetheless, as described, the MTIP does not always show the full amount of monies going into maintenance and operations as states and local governments make the majority of those investments with local dollars which are not reported in the MTIP.

Another highlight of the 2021-2024 MTIP investment package is the focus on investing across all parts of the transportation system.

While roadway and transit investments tend to dominate the 2021-2024 MTIP, the region is also investing into building out the active transportation network, into the equipment and infrastructure to manage the demand on the transportation system, and into transportation programs which educate and encourages travel options or leverages land use and transportation. These complimentary investments are necessary to maximize the most of the existing transportation network and the new facilities getting built. While these other areas combined investment level comprises of just over 17 percent of the 2021-2024 MTIP investment profile, the additional value they bring to transportation projects leverages every dollar spent towards rebuilding roadways or making a new high capacity transit line successful.

Lastly, some projects to note in the 2021-2024 MTIP include:

- U.S. 26: SE 99th to Portland City Limits This project will widen Powell boulevard from three to four lanes (inclusive of a center turn lane) with sidewalks and buffered bike lanes or other enhanced bike facility. The project will also add enhanced pedestrian and bike crossings. This project provides active transportation facilities along an urban arterial which has long been underinvested.
- Regional Safe Routes to School Continues the newly established regional program to promote planning, funding, and outreach activities for youth to safely affordably and efficiently access school by walking biking and transit.
- Monroe Greenway The project will construct bicycle and pedestrian improvements on Washington and Monroe from SE Oak to SE Railroad Ave up to Washington to Ada Lane and then to Home Ave and on Home Ave to Monroe St and on Monroe St east to Linwood Ave. The project will fill an active transportation network gap, connecting Clackamas Regional Center to downtown Milwaukie, and connect to the Trolly Trail multiuse path.
- Electric buses TriMet will continue to advance the electrification of its bus fleet.

The 2021-2024 MTIP is expected to advance the region towards the goals and vision outlined in the 2018 RTP. Chapter 3 of the 2021-2024 MTIP describes in more detail the anticipated outcomes of the 2021-2024 MTIP investments specifically for the priorities the 2018 RTP identified: addressing safety, addressing equity, addressing climate change, and managing congestion. The chapter also describes how the investments helps the region move forward to achieve the region's federal performance targets. Overall, the 2021-2024 MTIP continues to make progress towards its vision for the transportation system in a balanced manner.

Chapter sections

- Summary of 2021-2024 MTIP performance evaluation results and key findings
- Methodology to analysis
- Analysis results by performance measure
- Moving ahead towards progress in the 21st century (MAP-21) – Federal performance measures and targets
- Discussion: How our regional system performs



Chapter 3: MTIP Performance assessment results

A performance evaluation was conducted to understand the effects of the 2021-2024 MTIP investment package. The following section includes an overview of the performance assessment methodology and key takeaways from the analysis. Further detail about the technical approach used in the performance evaluation can be found in Appendix II.

Summary of 2021-2024 MTIP performance evaluation results and findings

Overall, the 2021-2024 MTIP package of investments makes progress towards the desired outcomes and shared priorities identified in the Regional Transportation Plan, which include managing congestion, addressing equity, addressing climate change and addressing safety. The analysis shows greater regional progress toward some outcomes, such as addressing climate change, than others. For other outcomes, such as accessibility, the investments make more progress at a more localized scale. Each investment in the 2021-2024 MTIP brings value whether that is locally or system-wide. These results illustrate that the 2021-2024 MTIP investments are helping the region reach its long-term goals for the

transportation system, but there remains opportunities for improvement.

The region's near-term investment in the transit system – particularly in transit service and addressing the operational improvement at Gateway Transit Center – shows promise in helping the region attain its climate change, managing congestion, and addressing equity goals.

Methodology to analysis

Assessment framework

Adopted by the Metro Council in December 2018, the 2018 Regional Transportation Plan (RTP) sets the long-range vision, goals, and outcomes for the regional transportation network. Therefore, the 2018 RTP is the guiding policy and system performance framework for the investments defined in the 2021-2024 MTIP. The approach to evaluating the 2021-2024 MTIP centers on the four policy priorities that emerged from the 2018 RTP process – safety, equity, climate, and congestion. Additionally, the analysis of the 2021-2024 MTIP, like the RTP, is system-wide, meaning transportation projects programmed in the MTIP are not evaluated independently.¹ Using this approach allows Metro to demonstrate consistency with the region's long-range transportation plan and show progress towards advancing the goals and outcomes identified in the RTP.² Table 3-1 illustrates the crosswalk between the 2018 RTP priorities, outcomes being measured, and performance measures and targets (if applicable).³ A short summary explaining each individual performance measure are provided in Tables 3-2 – 3.8. More detailed methodology sheets are included as part of Appendix II.

¹ Transportation investments can also be referred to as transportation projects.

² Per federal regulations, the content of the MTIP must demonstrate consistency with the adopted Regional Transportation Plan from a policy and a fiscal manner.

³ The 2018 RTP did not have a performance target associated with every performance measure.

Table 3-1. Crosswalk Between 2018 RTP Priorities and 2021-2024 MTIP Performance Measures

2018 RTP Priority	Outcome Being Measured	Performance Measure Proposed for 2021-2024 MTIP	2018 RTP Performance Target
Equity	Accessibility Affordability (as a pilot, if possible	Access to jobs (emphasis on middle-wage)	No
		Access to community places	
		System completeness of active transportation network in equity focus areas	
		Housing and transportation cost expenditure and cost burden	
Safety ⁴	Safety investment level	Level of investment to address fatalities and serious injuries	Yes/No ⁵
	Investment on high injury corridors	Level of safety investment on high injury corridors	
Address Climate Change	Emissions reduction	Percent reduction of greenhouse gases per capita	Yes
	Active transportation system completion	System completeness of active transportation network	
Traffic Congestion	Multimodal travel times	Evaluates mid-day and pm peak travel time between regional origin-destination pairs by mode of travel (e.g. transit, bicycle)	No

Because crashes cannot be projected, this performance measure will take an observed approach looking at the level of safety investment and location of safety investment.

The 2018 RTP established a Vision Zero target of fatalities and serious injuries on the region's transportation system by 2035. The specific performance measures identified for the 2021-2024 MTIP performance assessment do not have an associated performance target, but serve as forward-looking measures to look at safety considerations.

Table 3-2. Performance measure summary – Access to jobs

Name of Performance Measure	Access to Jobs
What is this measuring?	The number of jobs by different wage profiles (i.e. low, medium, high) the average household can reach within a certain travel times, adjusted by form of travel. Travel times by form of travel below:
	Automobile – 30 minutes*
	• Transit – 45 minutes*
	Bicycle – 30 minutes
	Walk – 20 minutes
	*Includes access and egress times.
What is reported out?	The number of jobs (by wage profiles) which the average household can reach in the region, sub-regions, equity focus areas, and non-equity focus areas
	The percent (%) change of jobs (by wage profiles) which the average household can reach in the region, sub-regions, equity focus areas, and non-equity focus areas
Datasets used	Land use distribution (jobs), transportation network
Tools used	Travel demand model
Geographies applicable	Metropolitan Planning Area (Region), Sub-Regions, and Equity Focus Areas

Table 3-3. Performance measure summary – Access to community places

Name of Performance Measure	Access to Community Places
What is this measuring?	The number of community places the average household can reach within a certain travel times, adjusted by form of travel. Travel times by form of travel below:
	Automobile – 20 minutes*
	• Transit – 30 minutes*
	Bicycle – 15 minutes
	Walk – 20 minutes
	*Includes access and egress times.
What is reported out?	The number of community places the average household can reach in the region, sub-regions, equity focus areas, and non-equity focus areas
	The percent (%) change of community places the average household can reach in the region, sub-regions, and equity focus areas
Datasets used	North American Industry Classification System (NAICS) geocoded data, transportation network
Tools used	Travel demand model, geographic information systems
Geographies applicable	Metropolitan Planning Area (Region), Sub-Regions, and Equity Focus Areas

Table 3-4. Performance measure summary – Multimodal travel times

Name of Performance Measure	Multimodal Travel Times
What is this measuring?	The travel times between different origin-destination pairs (i.e. start and end locations). Origin and destination pairs are different based on form of travel. (i.e. different origin-destination pairs for bike, transit, and automobile based on bike network, transit routes, etc.)
What is reported out?	 Travel times between origin-destination pairs during the peak (i.e. rush hour) and non-peak (i.e. all other times) travel period Change in travel time between origin-destination pairs
Datasets used	Transportation network
Tools used	Travel demand model
Geographies applicable	Metropolitan Planning Area (Region), origin-destination pairs corridors

Table 3-5. Performance Measure Summary – Mode Share and Miles Traveled

Name of Performance Measure	Mode Share & Miles Traveled
What is this measuring?	The number and overall share of trips by each form of travel (e.g. driving, transit, biking, walking, etc.). The length of each trip and total miles traveled by each form of travel.
What is reported	Total number of trips by form of travel
out?	Change in the number of trips by form of travel
	The share of trips by form of travel (% and total)
	Change in the share of trips by the form of travel
	The total number of miles traveled by form of travel (i.e. vehicle, bicycle, transit miles traveled) and passenger
	The per capita miles traveled by form of travel and passenger
Datasets used	Transportation network
Tools used	Travel demand model
Geographies applicable	Metropolitan Planning Area (Region) and sub-regions

Table 3-6. Performance Measure Summary – Greenhouse Gas Emissions Reduction

Name of Performance Measure	Greenhouse Gas Emissions Reduction
What is this measuring?	The total and the change in greenhouse gas emissions in metric tons
What is reported out?	The total tons of greenhouse gas emissions and The change in greenhouse gas emissions per capita from 2015
Datasets used	Transportation network
Tools used	Travel demand model, emissions model
Geographies applicable	Metropolitan Planning Area (Region)

Table 3-7. Performance Measure Summary – Level of Investment Focused on Safety

Name of Performance Measure	Level of Investment Focused on Safety
What is this measuring?	The level of investment focused on reducing crashes that results in fatalities and serious injuries.
What is reported out?	The total amount of investment focused on safety regionwide, sub-regions, and in equity focus areas
	The total number of safety projects regionwide, sub-regions, and in equity focus areas
	The total amount of investment focused on safety on high injury corridors regionwide, sub-regions, and in equity focus areas
	The total number of safety projects on high injury corridors regionwide, sub- regions, and in equity focus areas
Datasets used	Transportation network, high injury corridors and intersections
Tools used	Geographic information systems (GIS)
Geographies applicable	Metropolitan Planning Area (Region), sub-regions, equity focus areas

Table 3-8. Performance Measure Summary – Active Transportation System Completeness

Name of Performance Measure	Active Transportation System Completeness
What is this measuring?	The miles and percent change (%) in the completeness of the active transportation network by active transportation facility type and travel area. Facility types include sidewalks, on-street bike network, and trails. Travel area includes arterials and near frequent service transit.
What is reported out?	The total miles in completeness of the sidewalk, on-street bicycle, and trail networks:
	regionwide, equity focus areas, and non-equity focus areas•arterials regionwide, equity focus areas, and non-equity focus areas
	near frequent transit regionwide, equity focus areas, and non-equity focus areas
	The percentage in completeness of the sidewalk, on-street bicycle, and trail networks:
	regionwide, equity focus areas, and non-equity focus areas
	arterials regionwide, equity focus areas, and non-equity focus areas
	near frequent transit regionwide, equity focus areas, and non-equity focus areas
Datasets used	Regional Land Inventory System (RLIS), transit stops and stations, motor vehicle facility classifications
Tools used	Geographic information systems (GIS)
Geographies applicable	Metropolitan Planning Area (Region), sub-regions, equity focus areas

Key assumptions, inputs, and tools

Evaluation tools

The 2021-2024 MTIP performance evaluation uses three main tools to evaluate the 2021-2024 MTIP investment package. These tools are:

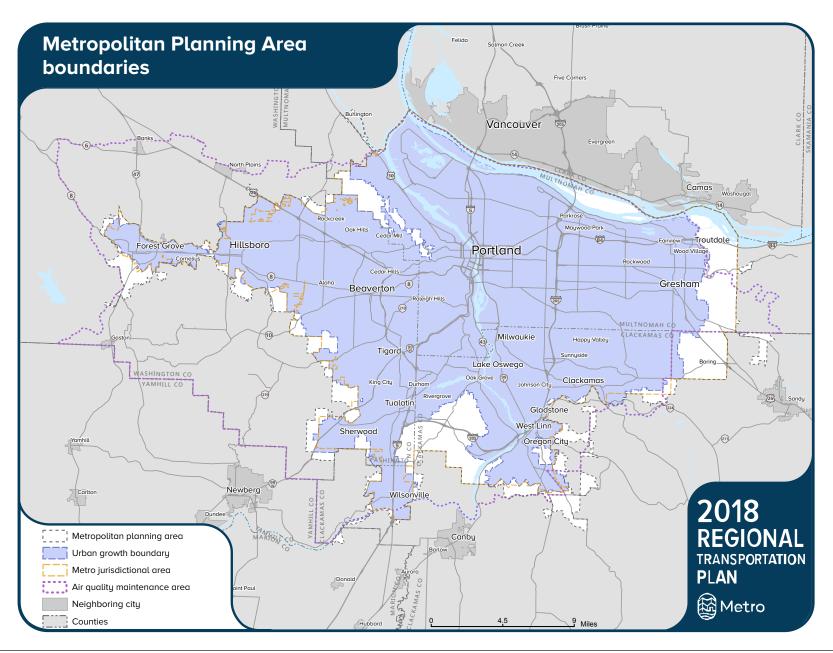
- Travel Demand Model
- Motor Vehicle Emissions Simulator (MOVES) Model
- Geographic Information Systems (GIS)

These tools were also the primary tools used for the 2018 RTP system performance analysis. The travel demand model and the MOVES model primarily help explain the impacts of the proposed package of investments on travel behaviors and transportation emissions. The GIS tool supports geospatial analysis of investments. A short description of each tool is in Appendix II. Further details of the tools can also be found on Metro's website.

Geography of analysis

Region: The 2021-2024 MTIP focuses on the near-term investments into the regional transportation system within the metropolitan planning area (MPA). The MPA is the defined geography for Metro's metropolitan planning organization (MPO) activities. Therefore, region, region-wide, or system-wide figures reported are for the MPA. Figure 3-1 illustrates the MPA.

Figure 3-1. Metropolitan Planning Area boundary map

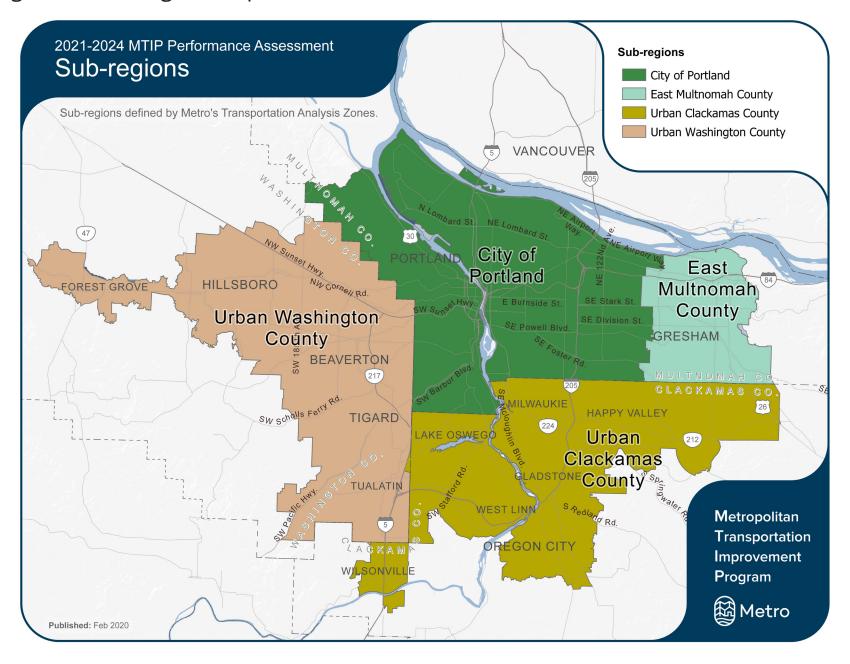


Sub-Regions: Throughout the 2018 RTP, Metro staff received feedback that a system-wide technical analysis cannot always meaningfully measure the performance of transportation investments for individual communities. Additionally, a system-wide assessment can mask high performance in certain areas and underperformance in others. In recognition of this feedback and the nature of the 2021-2024 MTIP as a near-term investment package, the evaluation approach includes a sub-regional analysis as part of the overall system analysis. The assessment of the package of investments in the 2021-2024 MTIP examines how projects perform in the following sub-regions, in addition to the metropolitan planning area region.

- City of Portland
- Clackamas County
- · Multnomah County (excludes city of Portland)
- Washington County

The urbanized portion of Clackamas, Multnomah, and Washington counties within the metropolitan planning area were part of the sub-regional assessment. Rural areas, which are outside of the metropolitan planning area, were not included as part of the sub-region. Figure 3-2 illustrates sub-region geographies.

Figure 3-2. Sub-regions map



Equity focus areas: In addition to sub-regional geographies, the assessment measured performance within equity focus areas. Equity focus areas represent geographic areas where there is a concentration of historically marginalized persons and communities. This assessment looks at how the 2021-2024 MTIP investments progress towards outcomes that address transportation priorities expressed by historically marginalized communities in those communities. The development of the equity focus areas are based on demographic information collected from the U.S. Census Bureau. The demographic characteristics included as part of the equity focus areas include:

- · People of Color
- People with Lower-Incomes
- · People with Limited English Proficiency

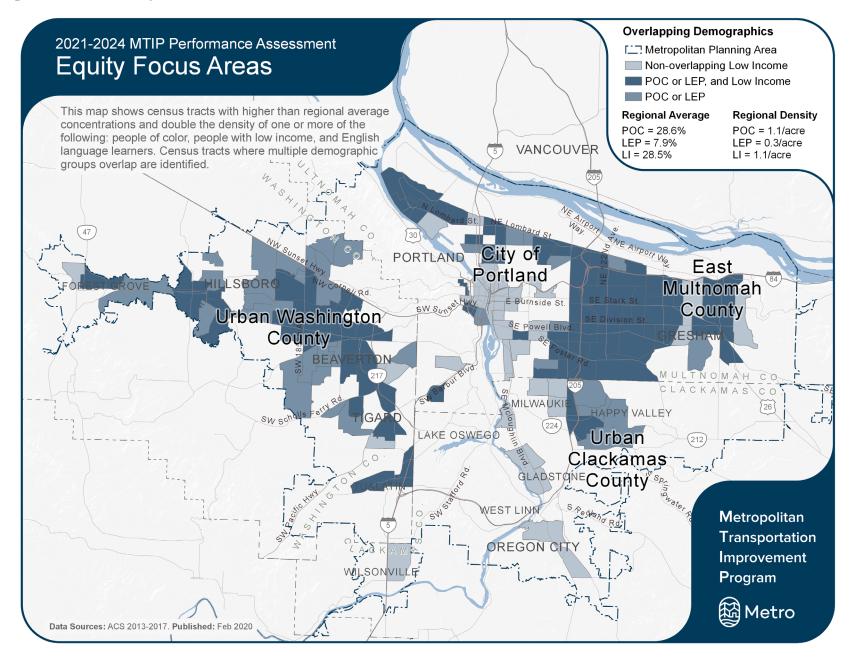
The equity focus areas are similar to those used as part the 2018 RTP performance assessment. The equity focus areas identify the locations of people of color, people with limited English proficiency, and people in poverty at population rates above certain thresholds. The equity focus areas used as part of the 2018 RTP have recently undergone modification based on updated demographic data from the U.S. Census Bureau's American Community Survey (ACS) 5-year estimates. A total of 15 census tracts changed status, based on the density of certain demographic populations. The rates identified in Table 3-9 illustrates the updated equity focus areas with the most recent demographic data. Figure 3-3 illustrates the equity focus areas.

Table 3-9. Equity focus areas definitions

Community	Geography Threshold
People of Color	The census tracts which are above the regional rate for people of color (28.6%) AND the census tract has twice (2x) the population density of the regional average (regional average is 1.1 person per acre).
People in Poverty	The census tracts which are above the regional rate for low-income households (28.5%) AND the census tract has twice (2x) the population density of the regional average (regional average is 1.1 person per acre).
People with Limited English Proficiency	The census tracts which are above the regional rate for people with limited proficiency (7.9%) AND the census tract has twice (2x) the population density of the regional average (regional average is .3 person per acre)

Source: Metro, 2018 RTP transportation equity work group & U.S. Census Bureau American Community Survey, 2013-2017 5-year average

Figure 3-3. Equity focus areas



In addition, the equity focus areas within each sub-region are aggregated and evaluated to understand how the package of investments in the 20214-2024 MTIP performs in equity focus areas at both a regional and at a sub-regional scale.

Transportation investments evaluated as part of the assessment

The 2021-2024 MTIP evaluation includes 150 transportation programs or capital project investments programmed for federal fiscal years 2021 through 2024. A list of the transportation projects and programs evaluated in the 2021-2024 MTIP assessment can be found in Appendix II. Of the 150 transportation programs and projects, 37 are programmatic in nature, meaning the investment is generally region-wide (e.g. bus purchases and replacements) or are not capital investments (e.g. Regional Travel Options education and outreach, or system and corridor planning). The analysis tools deployed as part of the 2021-2024 MTIP evaluation are not granular enough to assess these types of programmatic projects. As a result, these 37 programmatic projects are excluded from the analysis. (A project list showing which projects not included is in the Appendix II.)

Additionally, capital transportation investments which only program funds for project development were not assessed as part of the 2021-2024 MTIP performance evaluation. This is because at the project development phase of a capital transportation investment, details such as the alignment, type, size, and location have not been identified. The lack of details make it challenging for the evaluation tools to capture the investment.

Further development work is needed before the capital project is able to move forward into the next phases and is programmed accordingly.

Refers to the schedule of when transportation projects or programs expect to expend funds. Assumed in the programming, transportation projects or programs meet the necessary eligibility requirements.

Definition: program & programming

As of December 2019. The public comment draft of the 2021-2024 MTIP programming tables reflect updates of other projects that were added to the programming from December 2019 through March 2020. A project list is provided as part of the appendix to illustrate the differences in the programming tables and what was not evaluated as part of the 2021-2024 MTIP performance evaluation.

Major transportation investments assumed in the 2021-2024 MTIP performance assessment

The analysis, programming and adoption of investments in the 2021-24 MTIP is a process that takes almost a year. To conduct the analysis in the timeframe of the adoption schedule, Metro staff must anticipate which projects are likely to be in the final 2021-2024 MTIP. As a result the list of investments assessed as part of the 2021-2024 MTIP performance analysis is often has several differences from the list of investments presented as part of the public comment draft.

In developing the list of investments to evaluate for the 2021-2024 MTIP performance assessment, two factors – the project's development schedule and the securing of funding commitments – play a role of determining whether an investment is included or not.

Three major capital projects were included in the 2021-2024 MTIP performance analysis, because initial screening based on the factors indicted these projects would likely be in the 2021-2024 MTIP. These are:

- Division Transit Project
- Interstate 5 Rose Quarter Improvements
- MAX Red Line Extension

Due to other factors and changes in programming these projects are not in the 2021-2024 MTIP public comment draft.

Further information and clarifications regarding the status of these capital projects included can be found in Appendix II.

Key assumptions

Embedded within the 2021-2024 MTIP performance assessment are several key assumptions. The assumptions can be broken down into two analytical areas: model assumptions and geospatial assumptions. To the degree possible, the key assumptions are consistent with assumptions used in the evaluation of the 2018 RTP.

Model assumptions: The 2021-2024 MTIP performance evaluation included three scenarios which were modeled using the travel demand modeling tool. These scenarios include:

- Base Year (2015)
- No Build (2024)
- Build (2024)

Each modeled scenario serves as a reference point for understanding the effect of the 2021-2024 MTIP package of transportation investments, which is reflected in the Build (2024) scenario. The No Build (2024) scenario assumes only those investments with committed funding plan through construction in 2020 and the Base Year (2015) scenario represents the regional transportation network as of 2015. The Base Year scenario helps to provide context as to how the region is performing relative to the 2018 RTP, which used the same Base Year scenario.

Geospatial assumptions: For the 2021-2024 MTIP performance measures which primarily use geospatial analysis to evaluate the package of investments, the main assumption is the

base network used as the underlying existing transportation network. This primarily applies to the system completion assessment and the safety assessment. The underlying base network used is Metro's published Regional Land Information System (RLIS) data as the existing features. For the system completeness measures, specifically sidewalks, other datasets were explored as RLIS sidewalks have not been updated recently. The most likely candidate was Open Street Map (OSM) and Metro staff did a verification analysis using OSM sidewalks data to confirm the sidewalk completeness measure. From the verification analysis, the amount of gaps filled (i.e. the increase in system completeness) was similar using both RLIS and OSM sidewalk data. Despite OSM having significantly higher baseline completeness, due to its more recent vintage, Metro staff decided to use the RLIS data in order to keep consistent with datasets used as part of the 2018 RTP analysis in addition to having a clear understanding of the data nuances and limitations.

The other key assumption used for geospatial analysis of the 2021-2024 MTIP investments is the definition of the high injury corridors and intersections. The high injury corridors and intersections were defined as part of the development of the Regional Transportation Safety Plan, adopted as a topical plan as part of the 2018 RTP. The high injury corridors and intersections for the Portland metropolitan region are based on analysis of crash data and other information.

Table 3-10. Scenario and Network Assumptions

Scenario	Investment Profile	Land Use	Transit Service
Base Year (2015)	The base year includes the transportation investments built and open for service as of 2015. This is the same base year used as part of the 2018 RTP.	Land use assumptions pertaining to population growth, employment, and development will follow according to what was assumed in the 2018 RTP. ⁷	The base year includes transit service which were in effect as of 2015. This is the same base year used as part of the 2018 RTP.
No Build (2024)	The 2024 no build assumes no additional transportation investments aside from those projects" 1) completed since 2015 and open for service; 2) funded projects expected to be completed by end of calendar year 2020; and 3) future roadway and bicycle facility projects with committed funding and projected to be complete by 2024.8	The land use forecast will follow according to what was assumed in the 2018 RTP. For year 2024, population and employment are interpolated in a straight line to 2024.9	The 2024 no build includes transit service which are in effect as of Spring or Fall 2019. (Spring or Fall dates are based on availability of information)
Build (2024)	The 2024 build scenario reflects all the investments identified in the 2021-2024 MTIP. These investments include capital investments and as modeling capabilities allow, maintenance and operations investments. Those investments which are unable to be quantitatively assessed because of a lack of spatial detail will be identified as part of analysis documentation. ¹⁰		The 2024 build assumes transit service levels to be in effect as of the end of calendar year 2024. (Based on assumptions discussed with transit providers)

⁷ The adopted 2016 growth forecast was used as part of the 2018 RTP.

Fully committed funding would need to be reflected in the 2021-2024 MTIP programming and financial plan.

This means the land use forecast is estimated based on an interpolation from the base year (2015) forecast to the out year forecast (2027).

These programs may be assessed qualitatively in how these investments play a role in making progress towards the 2018 RTP priorities and/or the MAP-21 federal performance targets.

Analysis results by performance measure

Across all the 2021-2024 MTIP performance evaluation measures, the package of investments show progress towards the implementation of the 2018 RTP and the outcomes projected by the implementation of the RTP. Overall the mixture of capital, operational, and programmatic investments identified in the 2021-2024 MTIP show improved outcomes as well as opportunities for future investment to increase performance.

Managing congestion

Performance Measures: Multimodal travel times, mode share, mode shift, trips, and miles traveled

Mode share and mode shift

With the 2021-2024 MTIP investments:

- The share of drive alone trips decreased by nearly one percent out of the seven million daily trips projected by 2024.
- Of the seven million trips, over 70,000 vehicle trips

 68,000 single occupancy vehicle trips and 1,900
 shared ride trips shift to transit, biking, and walking.
- Region-wide, the walking, biking, and transit mode share increases slightly, with transit mode share increasing the most, at .8% for all trips. There is an even greater increase for work trips with transit mode share gaining 1.5%.
- At the sub-regional level, mode share differs. For example, walking mode share increases in Clackamas County while transit mode share increases in the City of Portland and Washington County.

3-11. Model share and mode shift results

Average Weekday Trips by Mode - Region				
	2024 No Build		2024 Build	
	trips	share	trips	share
Drive Alone	3,135,442	44.4%	3,067,356	43.5%
work	1,466,157	66.8%	1,425,650	65.0%
non-work	1,669,284	34.3%	1,641,706	33.8%
Shared Ride	2,599,076	36.8%	2,597,093	36.8%
work	250,109	11.4%	250,292	11.4%
non-work	2,348,967	48.3%	2,346,801	48.2%
Transit	343,929	4.9%	402,226	5.7%
work	179,319	8.2%	212,486	9.7%
non-work	164,610	3.4%	189,740	3.9%
Walk	525,509	7.4%	534,417	7.6%
work	170,811	7.8%	173,816	7.9%
non-work	354,698	7.3%	360,602	7.4%
Bike	276,185	3.9%	281,983	4.0%
work	128,911	5.9%	131,833	6.0%
non-work	147,274	3.0%	150,150	3.1%
School Bus	214,162	3.0%	214,212	3.0%
Total Person Trips	7,060,280		7,057,943	
Total Work Trips	2,195,307		2,194,077	
Total Non-Work Trips	4,864,973		4,863,866	
Non-SOV trips*	3,744,698	54.4%	3,815,719	55.4%
Bike + Walk + Transit*	1,145,622	16.7%	1,218,626	17.7%
% PM-2hr Work Trips		41.4%		41.3%
% PM-2hr Non-Work Trips		58.6%		58.7%

^{*}Does not include School Bus trips in calculations

Average Weekday Trips by Mode - City of Portland				
	2024 No Build		2024 Buil	d
	trips	share	trips	share
Drive Alone	885,886	37.7%	860,564	36.7%
work	377,252	52.4%	363,002	50.6%
non-work	508,634	31.2%	497,562	30.5%
Shared Ride	795,821	33.9%	788,886	33.6%
work	70,848	9.8%	69,760	9.7%
non-work	724,973	44.5%	719,126	44.1%
Transit	192,557	8.2%	218,359	9.3%
work	90,199	12.5%	102,127	14.2%
non-work	102,357	6.3%	116,232	7.1%
Walk	283,428	12.1%	285,094	12.1%
work	101,350	14.1%	101,948	14.2%
non-work	182,078	11.2%	183,146	11.2%
Bike	179,923	7.7%	181,849	7.7%
work	80,063	11.1%	81,037	11.3%
non-work	99,860	6.1%	100,812	6.2%
School Bus	33,335	1.4%	33,312	1.4%
Total Person Trips	2,350,370		2,347,075	
Total Work Trips	719,712		717,873	
Total Non-Work Trips	1,630,658		1,629,202	
Non-SOV trips*	1,451,728	62.1%	1,474,188	63.1%
Bike + Walk + Transit*	655,907	28.1%	685,302	29.4%
% PM-2hr Work Trips		40.8%		40.8%
% PM-2hr Non-Work Trips		59.2%		59.2%

^{*}Does not include School Bus trips in calculations

Average Weekday Trips by Mode - Clackamas County				
	2024 No Bu	ıild	2024 Buil	d
	trips	share	trips	share
Drive Alone	323,729	44.3%	317,977	43.6%
work	131,325	74.3%	128,407	72.9%
non-work	192,405	34.7%	189,570	34.3%
Shared Ride	288,903	39.5%	289,426	39.7%
work	19,666	11.1%	19,663	11.2%
non-work	269,237	48.6%	269,763	48.8%
Transit	6,040	0.8%	8,768	1.2%
work	2,275	1.3%	3,622	2.1%
non-work	3,765	0.7%	5,146	0.9%
Walk	66,070	9.0%	68,490	9.4%
work	17,911	10.1%	18,598	10.6%
non-work	48,158	8.7%	49,892	9.0%
Bike	13,849	1.9%	14,336	2.0%
work	5,611	3.2%	5,765	3.3%
non-work	8,238	1.5%	8,572	1.6%
School Bus	42,583	5.8%	42,514	5.8%
Total Person Trips	730,506		728,769	
Total Work Trips	176,787		176,055	
Total Non-Work Trips	553,719		552,714	
Non-SOV trips*	374,861	53.7%	381,021	54.5%
Bike + Walk + Transit*	85,958	12.3%	91,595	13.1%
% PM-2hr Work Trips		33.3%		33.2%
% PM-2hr Non-Work Trips		66.7%		66.8%

^{*}Does not include School Bus trips in calculations

Average Weekday Trips by Mode - Washington County				
	2024 No Build		2024 Buil	d
	trips	share	trips	share
Drive Alone	888,064	46.5%	870,225	45.6%
work	403,405	74.7%	392,644	72.9%
non-work	484,659	35.3%	477,582	34.9%
Shared Ride	759,907	39.8%	765,998	40.2%
work	61,565	11.4%	61,634	11.5%
non-work	698,342	50.9%	704,364	51.4%
Transit	27,512	1.4%	38,453	2.0%
work	13,338	2.5%	20,036	3.7%
non-work	14,174	1.0%	18,416	1.3%
Walk	139,753	7.3%	143,648	7.5%
work	42,813	7.9%	44,309	8.2%
non-work	96,940	7.1%	99,339	7.3%
Bike	41,663	2.2%	42,988	2.3%
work	19,213	3.6%	19,666	3.7%
non-work	22,450	1.6%	23,322	1.7%
School Bus	97,865	5.1%	97,888	5.1%
Total Person Trips	1,911,516		1,907,364	
Total Work Trips	540,334		538,289	
Total Non-Work Trips	1,371,182		1,369,075	
Non-SOV trips*	968,834	52.2%	991,086	53.2%
Bike + Walk + Transit*	208,927	11.3%	225,089	12.1%
% PM-2hr Work Trips		38.1%		38.1%
% PM-2hr Non-Work Trips		61.9%		61.9%

^{*}Does not include School Bus trips in calculations

Average Weekday Trips by Mode - East Multnomah County				
	2024 No Build		2024 Buil	d
	trips	share	trips	share
Drive Alone	142,289	42.3%	138,680	41.5%
work	52,351	72.5%	50,553	70.8%
non-work	89,938	34.0%	88,127	33.5%
Shared Ride	139,579	41.5%	139,870	41.8%
work	7,771	10.8%	7,730	10.8%
non-work	131,808	49.9%	132,140	50.2%
Transit	4,712	1.4%	5,834	1.7%
work	1,805	2.5%	2,499	3.5%
non-work	2,907	1.1%	3,335	1.3%
Walk	30,159	9.0%	30,943	9.3%
work	7,083	9.8%	7,275	10.2%
non-work	23,076	8.7%	23,668	9.0%
Bike	9,818	2.9%	10,162	3.0%
work	3,248	4.5%	3,340	4.7%
non-work	6,570	2.5%	6,822	2.6%
School Bus	20,700	6.2%	20,695	6.2%
Total Person Trips	336,511		334,438	
Total Work Trips	72,257		71,398	
Total Non-Work Trips	264,253		263,040	
Non-SOV trips*	184,267	56.4%	186,809	57.4%
Bike + Walk + Transit*	44,688	13.7%	46,939	14.4%
% PM-2hr Work Trips		29.9%		29.8%
% PM-2hr Non-Work Trips		70.1%		70.2%

^{*}Does not include School Bus trips in calculations

Based on the performance assessment of the 2021-2024 MTIP, the region's continued investment to build out a multimodal transportation system will help to manage travel demand on the system. The positive signs of vehicle trips shifting over to other modes of travel means the investments are targeting gaps and providing services to give the region's travelers more options for getting to and from their destination. The shift in trips towards transit is not surprising, recognizing two major capital transit projects will open during the 2021 through 2024 time frame. These projects - Division Transit Project and MAX Red Line Extension – will increase service frequency for those lines. For the MAX Red Line, the project will also fix operational bottlenecks at the Gateway Transit Center to allow the light rail system to perform more efficiently. In addition, the performance of the 2021-2024 MTIP investments are bolstered by the transit service improvements from the revenues provided by state transportation package, House Bill 2017.

While a near one percent decrease of drive alone trips region-wide may seem minor, the 2021-2024 MTIP investments tend to perform at a greater impact locally. For example, region-wide the walking mode share for all trips increased by 0.2 percent, translating to a little over 8,900 new walk trips, which is a very small shift in mode. However, when looking at Clackamas County, the walking mode share increased by 0.4 percent resulting in over 2,400 walk

trips daily. Another local impact example, the combination of transit capital projects opening and transit service improvements show over 25,800 and 10,900 new transit trips taken daily in the City of Portland and Washington County respectively. This translates into a 1.1 percent and 0.6 percent increase in transit mode share for all trips. This increase also contributes greatly to the overall regional performance of 0.8 transit mode share increase.

Miles traveled

With the 2021-2024 MTIP investments:

- Region-wide, vehicle miles traveled per capita decreases slightly from 12.9 miles to 12.8 miles; vehicle miles traveled per employee decreases slightly more from 22.9 miles to 22.6 miles.
- Person miles traveled per capita and per employee increases from 19.1 miles to 19.2 miles and 33.9 miles to 34.1 miles as vehicle miles traveled per capita and employee decreases.
- Bicycle miles traveled and walking miles traveled remained steady per capita and per employee.
- Transit miles traveled increased regionwide from 1.3 miles to 1.5 miles per capita and 2.4 miles to 2.7 miles per employee. At the same time, the average transit trip length in the region's suburbs – Washington, Clackamas, and East Multnomah County – decreased. In the cases of Washington and Clackamas

County, the decrease in average transit trip length was a half mile or greater.

3-12. Miles traveled results

	Region - per Capita		
	Without 2021-2024 MTIP With 2021-2024 M		
	Investments	Investments	
Person Miles Traveled (PMT)	19.1	19.2	
Vehicle Miles Traveled (VMT)	12.9	12.8	
Bicycle Miles Traveled (BMT)	0.5	0.5	
Pedestrian Miles Traveled	0.2	0.2	
Freight Miles Traveled	0.2	0.2	
Transit Miles Traveled	1.3	1.5	

Region - per Employee				
	Without 2021-2024 MTIP	With 2021-2024 MTIP		
	Investments	Investments		
Person Miles Traveled (PMT)	33.9	34.1		
Vehicle Miles Traveled (VMT)	22.9	22.6		
Bicycle Miles Traveled (BMT)	0.9	0.9		
Pedestrian Miles Traveled	0.3	0.3		
Freight Miles Traveled	0.4	0.4		
Transit Miles Traveled	2.4	2.7		

Region - Average Trip Length				
	Without 2021-2024 MTIP	With 2021-2024 MTIP		
	Investments	Investments		
Person Average Trip Lengt h	4.9	5.0		
Vehicle Average Trip Length	5.6	5.6		
Bicycle Average Trip Length	3.4	3.4		
Pedestrian Average Trip Length	0.6	0.6		
Freight Average Trip Length	13.8	13.8		
Transit Average Trip Length	7.0	7.0		

City of Portland - Average Trip Length				
	Without 2021-2024 MTIP	With 2021-2024 MTIP		
	Investments	Investments		
Person Average Trip Length	3.2	3.3		
Vehicle Average Trip Length	3.7	3.7		
Bicycle Average Trip Length	2.7	2.7		
Pedestrian Average Trip Length	0.6	0.6		
Freight Average Trip Length	6.9	6.9		
Transit Average Trip Length	4.4	4.5		

MPA Clackama	as County - Average Trip Ler	ngth
	Without 2021-2024 MTIP	With 2021-2024 MTIP
	Investments	Investments
Person Average Trip Length	3.2	3.2
Vehicle Average Trip Length	3.7	3.8
Bicycle Average Trip Length	2.6	2.7
Pedestrian Average Trip Length	0.5	0.5
Freight Average Trip Length	8.8	8.8
Transit Average Trip Length	5.0	4.4

MPA Washingt	on County - Average Trip Le	ngth
	Without 2021-2024 MTIP	With 2021-2024 MTIP
	Investments	Investments
Person Average Trip Length	3.5	3.5
Vehicle Average Trip Length	3.9	3.9
Bicycle Average Trip Length	2.9	2.9
Pedestrian Average Trip Length	0.6	0.6
Freight Average Trip Length	9.6	9.6
Transit Average Trip Length	5.7	5.2

East Multnoma	ah County - Average Trip Le	ngth
	Without 2021-2024 MTIP	With 2021-2024 MTIP
	Investments	Investments
Person Average Trip Length	2.2	2.2
Vehicle Average Trip Length	2.4	2.5
Bicycle Average Trip Length	2.2	2.2
Pedestrian Average Trip Length	0.6	0.6
Freight Average Trip Length	3.3	3.3
Transit Average Trip Length	3.0	2.8

While the changes are slight, the increase in person miles traveled and the decrease in vehicle miles traveled means overall people are using a combination of different modes of travel for their trips as a result of the 2021-2024 MTIP investments. The slight decrease in vehicle miles traveled per capita is also a positive accomplishment recognizing the region's expected growth of 19,000 additional people per year and up to 1.8 million people by 2024. For the region's transportation system to be able to handle the additional daily demand without significantly increasing vehicle miles traveled per person shows how the gradual investment in multimodal options will have returns over time.

Interestingly, the greater decreases in vehicle miles traveled are observed in the work commute trips, where the miles traveled for commuting tend to be longer. While capital investments provide the physical infrastructure to travel by different modes to facilitate the decrease in vehicle miles traveled, programmatic investments work in tandem to result in the decreases in miles traveled. One specific programmatic investment is the Regional Travel Options (RTO) program, which coordinates travel options education and outreach efforts, operates

an employer outreach program, runs a safe routes to schools program, and runs a grant program. RTO has long supported the region's multimodal capital investments. Initial results from the 2015-2019 RTO program evaluation demonstrates 275,000 people participated in RTO program activities - whether that was a neighborhood event, a specific marketing campaign, or received individualized marketing that translated into 2.7 million impressions and 3.8 million vehicle trips reduced. In the four year span, the RTO program supported 7 million transit trips, 1 million walk trips, and 1.6 million bike trips while also awarding a total of \$4.6 million, through 35 grant projects. All-in-all, the 2021-2024 MTIP investments continue to make progress towards managing the exponential travel demand on the region's transportation system in a multifaceted manner. Nonetheless, with the region growing and a strong economy, making investments which continues to manage travel demand while allowing for people and goods getting to their destinations will remain an area with room for continual improvement.

Multimodal travel times

With the 2021-2024 MTIP investments:

• Region-wide travel times improved for

- automobiles and transit in the peak (i.e. morning and evening commutes) and the off-peak travel period (i.e. all other times). In general, small travel time improvements are observed for every corridor.
- While region-wide travel time improvement for auto and transit were often minor – less than a minute saved in most cases – certain corridors saw significant travel time improvements either for automobiles or for transit, but no corridor saw significant travel time improvements in both.
 - Corridors expected to experience noteworthy improvements in travel time for driving includes: Beaverton to Washington Square to Tigard/Tigard to Washington Square to Tigard, Hillsboro to Tualatin/Tualatin to Hillsboro.
 - Ocrridors expected to experience significant improvements in transit travel times includes: Clackamas Town Center to Oregon City/Oregon City to Clackamas Town Center, Oregon City to Tualatin/Tualatin to Oregon City, Hillsboro to Forest Grove/Forest Grove to Hillsboro, Oregon City to Portland Downtown/Portland Downtown to Oregon City, Lents to Gresham, and Clackamas Town Center to Milwaukie/ Milwaukie to Clackamas Town Center.
- Travel times savings topped out at nearly eight minutes saved on transit to nearly a minute saved driving.

Tables 3-13. Multimodal travel times results

Auto travel time (minutes) between locations					_				
(walk + in-vehicle time)		2024 No Buil			2024 Build			ercent Change Imp	
Origin> Destination	12-1pm	4-5pm	5-6pm	12-1pm	4-5pm	5-6pm	Off-Peak	Early Peak	Late Peak
CBD to Vancouver CBD (SOV)	26.0	31.3	31.9	25.6	30.9	31.4			.% 2%
CBD to Vancouver CBD (HOV)	26.0	26.5	26.8	25.6	26.1	26.4		1% 2	.% 2%
CBD to Tigard	25.4	28.4	28.8	25.2	28.1	28.5		1% 1	.% 1%
Tigard to Tualatin	12.1	13.4	13.4	12.0	13.2	13.3		1% 2	!% 1%
Tigard to Wilsonville	19.9	23.2	23.5	19.9	23.2	23.4		0%	0%
CBD to Gateway	21.6	24.8	25.3	21.5	24.4	24.9		1% 1	.% 2%
Gateway to Gresham	18.7	19.9	20.1	18.7	19.8	20.0		0%	0%
Gateway to Troutdale	18.3	19.1	19.3	18.3	19.1	19.3		0%	0%
CBD to PDX	30.6	32.9	33.2	30.5	32.6	32.8		0% 1	.% 1%
Gateway to Vancouver Mall	20.7	22.5	22.7	20.7	22.4	22.6		0%	0%
Gateway to Oregon City	23.6	28.6	29.4	23.5	28.4	29.1		0% 1	.% 1%
Oregon City to Canby	17.5	18.4	18.7	17.5	18.4	18.7		0% (0%
Tualatin to Oregon City	18.9	25.2	26.2	18.9	25.2	26.2		0%	0%
Tigard to Sherwood	16.2	18.6	19.1	16.0	18.3	18.7		1% 2	.% 2%
Beaverton to Washington Square	10.9	12.0	12.0	10.7	11.6	11.6		2% 4	1% 4%
Washington Square to Tigard	8.8	9.5	9.6	8.8	9.3	9.3		0% 2	.% 3%
Beaverton to Tigard	14.1	15.9	16.0	13.5	15.1	15.1		4% 6	6%
CBD to Beaverton	22.6	27.0	27.7	22.5	26.7	27.4		0% 1	.% 1%
Beaverton to Hillsboro	22.7	24.9	25.3	22.4	24.7	25.1		1% 1	.% 1%
Amberglen to Hillsboro	15.1	15.8	15.9	15.1	15.8	15.9		0%	0%
CBD to Hillsboro	37.1	42.8	43.8	36.9	42.3	43.3		1% 1	.% 1%
Hillsboro to Forest Grove	16.0	17.2	17.4	16.0	17.1	17.4		0%	0%
CBD to Sauvie Island	28.5	29.0	29.0	28.5	28.9	28.9		0%	0%
Rivergate to I-205/Sandy	21.7	23.0	23.1	21.7	22.9	23.0		0% (0%
CBD to Lents	26.2	30.5	30.7	26.0	30.1	30.5		1% 1	.% 1%
Lents to Gresham	22.9	23.7	23.8	22.8	23.6	23.7		0% (0%
CBD to Oregon City	35.4	41.6	42.7	35.3	41.3	42.4		0% 1	.% 1%
Milwaukie to Clackamas Town Center	12.3	13.2	13.2	12.2	13.2	13.2		0% 0	0% 0%
Clackamas Town Center to Happy Valley	12.2	14.0	14.2	12.1	13.9	14.1		0% 1	.% 1%
Wood Village to Gresham	11.3	11.7	11.8	11.3	11.7	11.7		0% (0%
Gresham to Happy Valley	21.5	22.7	22.8	21.5	22.7	22.8		0% 0	0%
Tualatin to Hillsboro	37.9	42.8	43.8	37.4	41.7	42.6		2% 3	3%

Auto travel time (minutes) between locations											
(walk + in-vehicle time)	2	2024 No Bui	ld		2024 Build		Percent Change Improvement				
Origin> Destination	12-1pm	4-5pm	5-6pm	12-1pm	4-5pm	5-6pm	Off-Peak	Early Peak	Late Peak		
Vancouver CBD to CBD (SOV)	23.9	23.9	23.4	24.0	24.0	23.4	0		% 0%		
Vancouver CBD to CBD (HOV)	23.9	23.9	23.4	24.0	24.0	23.4	0	% 0	% 0%		
Tigard to CBD	24.5	26.7	26.8	24.5	26.7	26.9	0	% 0	% 0%		
Tualatin to Tigard	12.3	14.0	14.0	12.1	13.9	13.9	1	% 1	% 1%		
Wilsonville to Tigard	20.6	23.4	23.5	20.5	23.3	23.4	0	% 1	% 0%		
Gateway to CBD	22.0	22.9	22.8	21.9	22.7	22.7	0	% 1	% 1%		
Gresham to Gateway	18.9	19.4	19.3	18.9	19.3	19.3	0	% 0	% 0%		
Troutdale to Gateway	18.7	19.3	19.3	18.7	19.4	19.3	0	% 0	% 0%		
PDX to CBD	30.7	31.7	31.7	30.7	31.5	31.5	0	% 1	% 0%		
Vancouver Mall to Gateway	19.8	20.0	19.9	19.8	20.0	19.8	0	% 0	% 0%		
Oregon City to Gateway	23.0	26.0	26.0	22.9	25.8	25.8	0	% 1	% 1%		
Canby to Oregon City	17.4	17.7	17.8	17.4	17.7	17.8	0	% 0	% 0%		
Oregon City to Tualatin	19.1	22.1	22.5	19.1	22.0	22.5	0	% 0	% 0%		
Sherwood to Tigard	16.0	18.4	18.5	15.8	18.2	18.3	1	% 1	% 1%		
Washington Square to Beaverton	10.7	11.8	11.9	10.7	11.8	11.9	0	% 0	% 0%		
Tigard to Washington Square	8.4	8.7	8.7	8.3	8.6	8.5	2	% 2	% 2%		
Tigard to Beaverton	14.4	16.3	16.4	14.3	16.1	16.2	1	% 1	% 1%		
Beaverton to CBD	22.8	25.9	26.2	22.8	25.7	26.0	0	% 1	% 1%		
Hillsboro to Beaverton	22.3	24.2	24.4	22.2	23.9	24.1	0	% 1	% 1%		
Hillsboro to Amberglen	15.0	15.6	15.7	15.0	15.6	15.7	0	% 0	% 0%		
Hillsboro to CBD	37.7	42.0	42.7	37.6	41.6	42.3	1	% 1	% 1%		
Forest Grove to Hillsboro	17.2	17.5	17.5	17.2	17.5	17.5	0	% 0	% 0%		
Sauvie Island to CBD	27.5	28.0	28.0	27.5	28.0	28.0	0	% 0	% 0%		
I-205/Sandy to Rivergate	21.9	22.1	22.0	21.7	22.0	21.9	1	% 1	% 1%		
Lents to CBD	26.8	28.5	28.4	26.7	28.3	28.3	0	% 1	% 1%		
Gresham to Lents	22.8	23.4	23.5	22.8	23.4	23.5	0	% 0	% 0%		
Oregon City to CBD	34.8	37.4	37.3	34.7	37.1	37.1	0	% 1	% 1%		
Clackamas Town Center to Milwaukie	12.1	13.0	13.0	12.1	12.9	12.9	0	% 1	% 1%		
Happy Valley to Clackamas Town Center	12.1	12.5	12.4	12.1	12.5	12.4	0	% 0	% 0%		
Gresham to Wood Village	11.2	11.4	11.3	11.2	11.4	11.3	0	% 0	% 0%		
Happy Valley to Gresham	21.6	23.0	23.2	21.5	23.0	23.2	0	% 0	% 0%		
Hillsboro to Tualatin	37.4	41.4	42.1	36.9	40.2	40.9	1	% 3	% 3%		

Transit	travel time (minutes) between locations (walk + wait + in-vehicle time)	2024 N	lo Build	2024	Build	Percent Cha Improvem	•
Mobility		42.4		42.4		o" p	
Corridor	Origin> Destination	12-1pm	4-6pm	12-1pm	4-6pm	Off-Peak	Peak
1	CBD to Vancouver CBD	55.8	36.3	55.7	35.6	0%	2%
2	CBD to Tigard	44.4	37.6	44.2	37.1	0%	1%
2	CBD to Tualatin	51.1	50.8	50.7	50.2	1%	1%
2	Tigard to Tualatin	29.1	29.5	29.0	29.5	0%	0%
3	Tigard to Wilsonville	77.2	53.2	77.1	53.2	0%	0%
4	CBD to Rose Quarter	18.3	16.8	18.3	16.8	0%	0%
5	CBD to Gateway	33.8	32.3	33.8	32.3	0%	0%
6	Gateway to Gresham	35.1	31.1	35.1	31.1	0%	0%
6	Gateway to Troutdale	56.2	55.7	53.1	55.3	6%	1%
7	CBD to PDX	49.0	47.5	49.0	47.5	0%	0%
7	Gateway to Vancouver Mall	95.4	88.1	95.4	87.6	0%	1%
8	Gateway to Oregon City	68.2	70.3	68.1	68.8	0%	2%
8	Gateway to Clackamas Town Center	30.2	30.2	30.2	30.2	0%	0%
8	Clackamas Town Center to Oregon City	42.6	44.8	42.5	43.2	0%	4%
9	Oregon City to Canby	54.3	41.1	54.3	41.1	0%	0%
10	Tualatin to Oregon City	112.1	103.2	97.5	89.0	15%	16%
11	Tigard to Sherwood	43.7	39.6	43.5	39.2	1%	1%
11	Tualatin to Sherwood	72.6	45.6	72.2	44.6	1%	2%
12	Beaverton to Washington Square	25.6	26.6	25.5	26.2	0%	1%
12	Washington Square to Tigard	18.1	18.9	18.1	18.6	0%	2%
12	Beaverton to Tigard	32.0	30.2	31.8	30.1	0%	0%
13	CBD to Beaverton	29.8	28.2	29.8	28.2	0%	0%
14	Beaverton to Hillsboro	36.4	32.4	36.4	32.4	0%	0%
14	Amberglen to Hillsboro	42.3	36.6	41.3	36.9	2%	-1%
14	CBD to Hillsboro	59.1	55.1	59.1	55.1	0%	0%
15	Hillsboro to Forest Grove	36.1	37.5	34.9	36.2	3%	3%
16	CBD to Sauvie Island	74.5	72.7	74.3	72.3	0%	1%
16	CBD to St Johns	55.0	52.3	56.2	52.1	-2%	0%
19	CBD to Lents	49.4	49.2	49.4	49.2	0%	0%
20	Lents to Gresham	53.1	49.1	44.5	49.1	20%	0%
21	CBD to Oregon City	71.0	67.3	64.8	66.7	10%	1%
22	Milwaukie to Clackamas Town Center	28.0	28.7	27.1	27.9	3%	3%
23	Clackamas Town Center to Happy Valley	38.7	35.7	38.7	40.6	0%	-12%
24	Wood Village to Gresham	32.5	25.4	32.5	25.4	0%	0%
24	Gresham to Happy Valley	91.5	84.5	91.4	89.4	0%	-5%
24	Gresham to Sandy	44.9	45.5	44.9	45.5	0%	0%

Transit	t travel time (minutes) between locations (walk + wait + in-vehicle time)	2024	No Build	2024	Build	Percent Cha Improvem	•
Mobility Corridor	Origin> Destination	12-1pm	4-6pm	12-1pm	4-6pm	Off-Peak	Peak
1	Vancouver CBD to CBD	58.5	34.9	58.1	34.3	1%	2%
2	Tigard to CBD	45.2	41.2	45.2	41.1	0%	0%
2	Tualatin to CBD	51.0	47.9	51.0	47.7	0%	0%
2	Tualatin to Tigard	32.5	29.8	32.3	29.8	1%	0%
3	Wilsonville to Tigard	81.7	54.8	81.6	54.8	0%	09
4	Rose Quarter to CBD	15.9	14.6	15.9	14.6	0%	0%
5	Gateway to CBD	31.7	30.4	31.7	30.4	0%	0%
6	Gresham to Gateway	35.4	31.4	35.4	31.4	0%	0%
6	Troutdale to Gateway	55.2	53.2	53.1	53.1	4%	0%
7	PDX to CBD	47.4	45.9	47.4	45.9	0%	0%
7	Vancouver Mall to Gateway	97.3	89.1	97.3	89.0	0%	0%
8	Oregon City to Gateway	68.4	69.5	68.3	67.8	0%	29
8	Clackamas Town Center to Gateway	30.1	30.1	30.1	30.1	0%	0%
8	Oregon City to Clackamas Town Center	41.8	42.8	41.7	41.2	0%	49
9	Canby to Oregon City	54.8	40.4	54.7	40.4	0%	0%
10	Oregon City to Tualatin	109.3	103.0	106.6	95.7	3%	89
11	Sherwood to Tigard	43.8	39.1	43.6	38.7	1%	19
11	Sherwood to Tualatin	72.3	44.1	72.0	43.3	0%	29
12	Washington Square to Beaverton	23.9	25.2	23.9	25.1	0%	09
12	Tigard to Washington Square	17.4	17.7	17.3	17.4	1%	19
12	Tigard to Beaverton	30.6	29.1	30.4	29.1	0%	09
13	Beaverton to CBD	31.0	29.1	30.2	28.7	3%	19
14	Hillsboro to Beaverton	36.5	32.5	36.5	32.5	0%	09
14	Hillsboro to Amberglen	42.8	37.2	41.8	37.1	2%	0%
14	Hillsboro to CBD	60.1	56.1	60.1	56.1	0%	09
15	Forest Grove to Hillsboro	40.5	40.8	39.0	39.3	4%	49
16	Sauvie Island to CBD	74.9	72.7	74.7	72.3	0%	09
16	St Johns to CBD	56.0	55.0	55.8	54.7	0%	19
19	Lents to CBD	48.4	48.4	48.4	48.4	0%	09
20	Gresham to Lents	52.7	48.7	52.7	48.7	0%	09
21	Oregon City to CBD	69.1	70.3	67.0	68.7	3%	29
22	Clackamas Town Center to Milwaukie	28.3	28.9	27.3	27.9	4%	39
23	Happy Valley to Clackamas Town Center	37.3	32.7	37.3	32.7	0%	09
24	Gresham to Wood Village	32.4	25.0	32.4	25.0	0%	09
24	Happy Valley to Gresham	90.9	82.3	82.1	82.3	11%	09
24	Sandy to Gresham	43.7	43.8	43.6	43.8	0%	09

The result of improved travel times by automobile and by transit with the addition 2021-2024 MTIP investments is not a surprise in light of the other trends observed in mode shifting and vehicle miles traveled. The shift of vehicle trips to other modes opens capacity in corridors allowing for vehicles and buses to travel more freely. which can explain the generalized improvement of travel times across the region. In addition, the increase in transit service, as well as some transit network rerouting in the 2021-2024 MTIP entices some of the vehicle trips to shift over to transit and improves the overall efficiency of the transit system. Thus the transit travel time experienced by a transit rider is faster. While only making up \$52 million of the overall the 2021-2024 MTIP, the programmatic investments into transportation system management and operations (TSMO) by both ODOT and Metro are likely providing small improvements in travel times. The TSMO investments are constructing variable message-real time traveler information signs on roadways, upgrading signals, adding transit and bicycle signal priority, and deploying other active traffic management tools to make the roadway network run more effectively.

At the corridor level, the 2021-2024 MTIP investment program included a handful of large scale capital projects, which likely had significant localized impact to the travelers in those corridors. For example, driving travel times improved in the corridor

between Beaverton to Washington Square to Tigard. The main roadway in this corridor is OR 217, where there is northbound and southbound auxiliary lanes project in the 2021-2024 MTIP. This project is the likely cause for the improvements seen in corridor in the performance analysis. Other notable corridors include Downtown Portland to Oregon City and Tualatin to Oregon City by transit. While the transit travel time is substantial – over an hour from door-todoor – the decrease of eight minutes is significant and is likely due to headway improvements on 23 transit lines. The transit travel time improvement observed in the corridor between Forest Grove and Hillsboro is likely due to the transit line 57 headway improvements where peak and off peak travel time was reduced from 15 minutes to 12 minutes.

Addressing equity

Performance measures: Access to travel options – Active transportation system completeness, access to jobs, and access to community place.

Access to travel options – Active transportation system completeness

With the 2021-2024 MTIP investments:

 The region continues to complete gaps in the regional active transportation network, with the trail network seeing the greatest increases in completion.

- Region-wide sidewalk completion reaches 58 percent, on-street and off-street bicycle network completion reaches 55 percent and 39 percent respectively, and trail completion reaches 43 percent.
- Sidewalk completion on arterials remains one of the lowest rates of completion reaching only 37 percent.
- The completion of sidewalk, on-street bicycle, and trail gaps around high capacity transit and frequent transit service lines reach some of the higher levels of system completion.
- The completion of sidewalk, bike, and trail gaps on the active transportation network is greater in equity focus areas and outpaces the percentage of system completion for the region and non-equity focus areas.
 - In particular, sidewalk completion near transit in equity focus areas reaches 74 percent.
- Nonetheless, the region remains far from its goal of reaching 100 percent completion and build out of the regional active transportation network.

Tables 3-14. Active transportation system completeness results

System Complete	ness - Region-wide	Base Year		MTIP 2023	1-2024
		miles	% complete	miles	% complete
Sidewalks	Regional	580	57%	589	58%
	Equity Focus Area	361	69%	368	70%
	Non-Equity Focus Area	219	44%	221	45%
On-street bike	Regional	603	52%	632	55%
	Equity Focus Area	345	60%	363	63%
	Non-Equity Focus Area	258	45%	269	47%
Off-street bike	Regional	224	37%	234	39%
	Equity Focus Area	97	44%	105	48%
	Non-Equity Focus Area	127	33%	129	34%
Trails	Regional	216	41%	228	43%
	Equity Focus Area	86	45%	96	50%
	Non-Equity Focus Area	130	39%	132	40%

System Complete	ness - On Arterials	Base Year	-	MTIP 2023	1-2024
		miles	% complete	miles	% complete
Sidewalks	Regional	536	36%	552	37%
	Equity Focus Area	323	52%	335	54%
	Non-Equity Focus Area	213	25%	217	25%
On-street bike	Regional	562	38%	590	40%
	Equity Focus Area	310	50%	329	53%
	Non-Equity Focus Area	252	29%	261	30%

System Complete	ness - Around Transit	Base Year		MTIP 2022	1-2024
		miles	% complete	miles	% complete
Sidewalks	Regional	555	63%	563	64%
	Equity Focus Area	351	72%	357	74%
	Non-Equity Focus Area	204	52%	206	52%
On-street bike	Regional	539	58%	564	60%
	Equity Focus Area	325	62%	342	65%
	Non-Equity Focus Area	213	52%	222	54%
Off-street bike	Regional	160	46%	169	48%
	Equity Focus Area	80	51%	87	56%
	Non-Equity Focus Area	81	42%	82	42%
Trails	Regional	148	48%	159	52%
	Equity Focus Area	69	50%	78	56%
	Non-Equity Focus Area	79	47%	81	49%



The 2021-2024 MTIP investments continue to make gradual progress towards completing the active transportation network. Additional system completion as a result of the 2021-2024 MTIP investments ranges from one to five percent region-wide. The 2021-2024 MTIP investments make the greatest strides toward system completion in the trail network, with a five percent increase in trail completion.

The 2021-2024 MTIP investments make relatively small increases in active transportation system completion regionwide, but in equity focus areas there are higher levels of completion relative to non-equity focus areas and the region. Sidewalk, on-street and off-street bicycle, and trail network completion reaches 50 percent or greater in equity focus areas. Sidewalk completion is the greatest in equity focus areas reaching 70 percent. The higher completion level in equity focus areas reflects the policy direction set forth in the 2018 RTP and reinforced by the 2021-2024 MTIP policy direction to prioritize the needs and desired outcomes of historically marginalized communities. Active transportation system completion has and remains a priority for historically marginalized communities, as heard through public outreach and engagement with these communities. Additionally, the need to complete the active transportation network in historically marginalized communities is supported through travel survey data. The Oregon Household Activity Survey show people of color and lower income households tend to use active transportation and transit more for work and non-work trips.

The investments in the 2021-2024 MTIP will help build out infrastructure to make it safer for pedestrians and bicyclists to get to transit stops.

Figure 3-4. Completeness of Regional Sidewalk Network

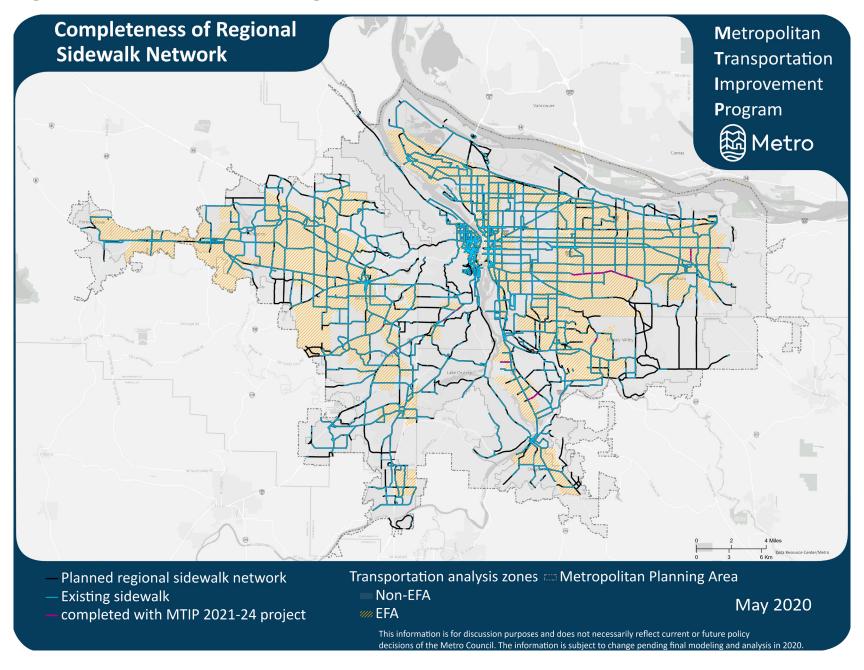
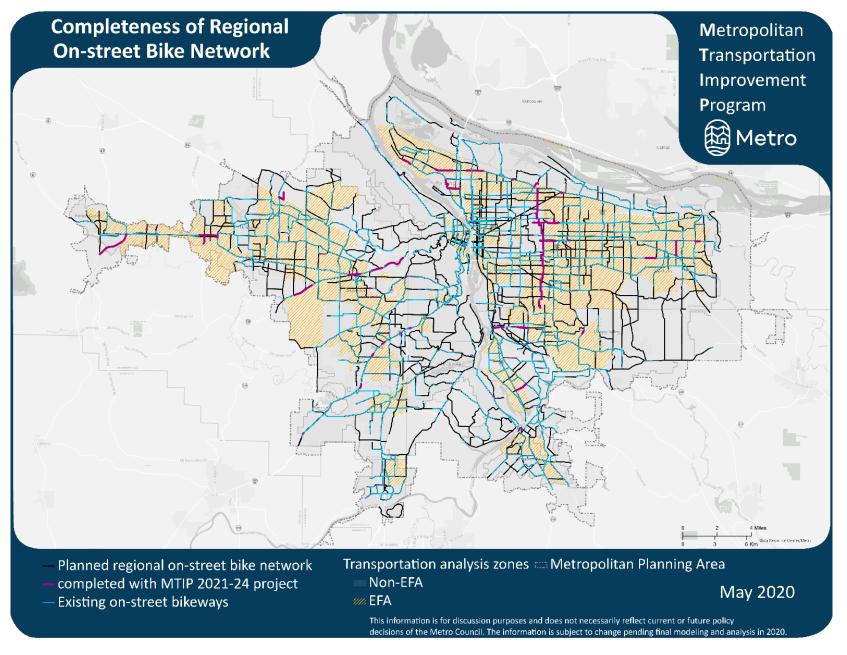


Figure 3.5. Completeness of Regional On-Street Bicycle Network



In addition to equity focus areas, the level of sidewalk and on-street bicycle network completion near transit also outpace the regionwide rates of network completion. This emphasis on the active transportation network near transit recognizes transit trips often start and end by active transportation. These investment are aligned with the region's significant investment in the transit system. The rates of sidewalk and on-street bicycle network completion near transit are 64 percent and 60 percent respectively, compared to the regional system completion of sidewalks and on-street bicycle network at 58 percent and 55 percent respectively. The most significant network completion is around transit in equity focus areas where, sidewalk, on-street bicycle, and trail network completion with the 2021-2024 MTIP investments reaches 74 percent, 65 percent, and 56 percent respectively.

Additional 2021-2024 MTIP active transportation system completeness maps can be found in Appendix II.

Performance measure: Access to jobs and community

With the 2021-2024 MTIP investments:

- Region-wide access to jobs and community places by transit and automobile (i.e. driving) increases.
 - The increase in access is primarily by transit, while the increase in access by automobiles (i.e. driving) is slight – ranging from one to three percent.
 - Access to low and middle wage jobs by transit increases between nine and 16 percent
 - The increase in access to jobs and community places by transit during the peak travel period (i.e. rush hour) is often two to five percent less than the increase in access to jobs and community places by transit during the off-peak travel period.
- Access to jobs and community places by bicycling and walking remains the same region-wide, but bicycling access does change in Clackamas County.
- In equity focus areas, access to jobs and community places is

mixed.

- While the rate of access to jobs by transit generally increases in equity focus areas, the rate of increase is less than the rate of increases in non-equity focus areas, regardless of time of day.
- There is a greater increase in access to community places by transit in equity focus areas during the peak and off-peak travel periods than non-equity focus areas.
- The most significant increases in access to community places by transit was seen during the off-peak period in equity focus areas and particularly equity focus areas in suburbs.
- While slight, the access to jobs and community places by automobile (i.e. driving) varied whether the increase was greater in equity focus areas compared to non-equity focus areas.
- In general, Washington, Clackamas, and East Multnomah County see significant increases in access to community places by transit, particularly in the off-peak travel period (i.e. not during rush hours)

Entire MPA Weighted Average Accessibility

All values are averaged by total # of TAZs meeting criteria AND weighted by # of households in those TAZs

ob Access All Jobs							Job Access All Jobs							Job Access All Jobs
1							7007100035							700710003
	% (Change in Jo	bs with 202	21-2024 MT	IP Investme	ents		% (Change in Jo	bs with 202	21-2024 MT	IP Investme	ents	
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W	
Region	2%	1%	10%	13%	0%	0%	City of Portland	2%	1%	11%	14%	0%	0%	Washington County
							City of Portland Non-Equity							Washington County No
Non-Equity Focus Areas	2%	1%	11%	13%	0%	0%	Focus Areas	2%	1%	10%	13%	0%	0%	Equity Focus Areas
							City of Portland Equity							Washington County
Equity Focus Areas	2%	1%	10%	13%	0%	0%	Focus Areas	1%	1%	13%	15%	0%	0%	Equity Focus Areas
b Access Low-Wage							Job Access Low-Wage							Job Access Low-Wage
_							•							· ·
bs							Jobs							Jobs
	% (Change in Jo	bs with 202	21-2024 MT	IP Investme			% (
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W	
Region	2%	1%	10%	13%	0%	0%	City of Portland	2%	1%	11%	14%	0%	0%	Washington County
							City of Portland Non-Equity							Washington County No

Job Access Low-Wage							Job Access Low-Wage							Job Access Low-Wage
Jobs							Jobs							Jobs
	% (Change in Jo	bs with 20	21-2024 MT	IP Investme	ents		%	Change in Jo	obs with 20	21-2024 MT	IP Investme	ents	
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W	
Region	2%	1%	10%	13%	0%	0%	City of Portland	2%	1%	11%	14%	0%	0%	Washington County
							City of Portland Non-Equity							Washington County Non-
Non-Equity Focus Areas	2%	1%	11%	13%	0%	0%	Focus Areas	2%	1%	10%	13%	0%	0%	Equity Focus Areas
							City of Portland Equity							Washington County
Equity Focus Areas	2%	1%	10%	13%	0%	0%	Focus Areas	1%	1%	13%	14%	0%	0%	Equity Focus Areas
							•							

Job Access Medium-							Job Access Medium-Wage							Job Access Medium-
Wage Jobs							Jobs							Wage Jobs
	% (Change in Jo	bs with 202	21-2024 MTI	P Investme	ents		% (Change in Jo	bs with 20	21-2024 MT	IP Investme	ents	
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W	
Region	2%	1%	10%	13%	0%	0%	City of Portland	2%	1%	11%	14%	0%	0%	Washington County
							City of Portland Non-Equity							Washington County Non-
Non-Equity Focus Areas	2%	1%	11%	13%	0%	0%	Focus Areas	2%	1%	10%	13%	0%	0%	Equity Focus Areas
							City of Portland Equity							Washington County
Equity Focus Areas	2%	1%	10%	13%	0%	0%	Focus Areas	1%	1%	13%	15%	0%	0%	Equity Focus Areas

Job Access High-Wage							Job Access High-Wage							Job Access High-Wage
Jobs							Jobs							Jobs
	% (Change in Jo	bs with 202	21-2024 MT	IP Investme	ents		% (hange in Jo	bs with 202	21-2024 MT	IP Investme	ents	
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W	
Region	2%	1%	10%	13%	0%	0%	City of Portland	2%	1%	11%	14%	0%	0%	Washington County
							City of Portland Non-Equity							Washington County Non-
Non-Equity Focus Areas	2%	1%	11%	14%	0%	0%	Focus Areas	2%	1%	10%	13%	0%	0%	Equity Focus Areas
							City of Portland Equity							Washington County
Equity Focus Areas	2%	1%	10%	13%	0%	0%	Focus Areas	1%	1%	13%	15%	0%	0%	Equity Focus Areas

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						Job Access All Jobs							Job Access All Jobs	_					
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AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W
2%	1%	7%	13%	0%	0%	Clackamas County	4%	2%	11%	14%	-1%	0%	East Multnomah County	1%	0%	8%	13%	0%	0%
						Clackamas County Non-Equity							East Multnomah County Non-						
2%	1%	7%	15%	0%	0%	Focus Areas	4%	2%	14%	15%	0%	0%	Equity Focus Areas	1%	1%	2%	7%	0%	0%
						Clackamas County Equity Focus							East Multnomah County Equity						
2%	1%	8%	7%	0%	0%	Areas	3%	2%	9%	13%	-1%	0%	Focus Areas	1%	0%	9%	13%	0%	0%
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2%	1%	7%	13%	0%	0%	Clackamas County	3%	2%	11%	14%	-1%	0%	East Multnomah County	1%	0%	8%	13%	0%	09
2%	170	7%	15%	0%	0%	Clackamas County Clackamas County Non-Equity	3%	270	11%	14%	-1%	0%	East Multnoman County East Multnomah County Non-	1%	0%	670	15%	0%	- 07
2%	1%	7%	15%	0%	0%	Focus Areas	4%	2%	14%	15%	0%	0%	Equity Focus Areas	1%	1%	2%	6%	0%	09
270	170	/ 70	1370	U%	U76	Clackamas County Equity Focus	470	270	1470	13%	U%	U76	East Multnomah County Equity	170	170	Z70	0%	076	- 07
2%	1%	7%	7%	0%	0%	Areas	3%	2%	9%	13%	-1%	0%	Focus Areas	1%	0%	9%	13%	0%	09
270	170	770	770	0,0	070	Aleas	370	2/0	570	1370	170	0,0	1 Octob Areas	170	070	370	1370	0,0	
						Job Access Medium-Wage													
						Jobs							Job Access Medium-Wage Jobs						
% C	hange in Jo	bs with 20	21-2024 MT	IP Investme	ents		% (Change in Jo	bs with 20	21-2024 MT	IP Investm	ents		%	Change in Jo	bs with 20	21-2024 MT	IP Investme	ents
AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	V
2%	1%	7%	13%	0%	0%	Clackamas County	4%	2%	11%	14%	-1%	0%	East Multnomah County	1%	0%	8%	13%	0%	0
						Clackamas County Non-Equity							East Multnomah County Non-						
2%	1%	7%	15%	0%	0%	Focus Areas	4%	2%	14%	15%	0%	0%	Equity Focus Areas	1%	1%	2%	7%	0%	09
						Clackamas County Equity Focus							East Multnomah County Equity						
2%	1%	8%	7%	0%	0%	Areas	3%	2%	9%	14%	-1%	0%	Focus Areas	1%	0%	9%	13%	0%	0
						Job Access High-Wage Jobs							Job Access High-Wage Jobs						
% 0	hange in Jo	bs with 20	21-2024 MT	IP Investme	ents		% (Change in Jo	bs with 20	21-2024 MT	IP Investm	ents		%	Change in Jo	bs with 20	21-2024 MT	IP Investm	ents
AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	V
2%	1%	7%	13%	0%	0%	Clackamas County	4%	2%	11%	14%	-1%	0%	East Multnomah County	1%	0%	8%	13%	0%	0

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East Multnomah County Non-

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Equity Focus Areas

Focus Areas

Clackamas County Non-Equity

Clackamas County Equity Focus

Focus Areas

0%

0%

0%

Entire MPA Weighted Average Accessibility

All values are averaged by total # of TAZs meeting criteria AND weighted by # of households in those TAZs

							Access to Community						
Access to Community							Places All Community						
Places All							Places						
	% Change	in Commur	nity Places v	with 2021-20	024 MTIP In	vestment	s	% Change	in Commun	ity Places v	vith 2021-20	24 MTIP In	vestments
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W
Region	2%	1%	11%	13%	0%	0%	City of Portland	2%	1%	11%	13%	0%	0%
							City of Portland Non-						
Non-Equity Focus Areas	3%	1%	10%	12%	0%	0%	Equity Focus Areas	3%	1%	10%	12%	0%	0%
							City of Portland Equity						
Equity Focus Areas	2%	1%	12%	15%	0%	0%	Focus Areas	2%	1%	12%	14%	0%	0%

Access to Community							Access to Community						
Places Food							Places Food						
	% Change	in Commur	nity Places v	with 2021-20	24 MTIP Ir	vestment	s	% Change	in Commun	ity Places v	vith 2021-20	24 MTIP Ir	vestments
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W
Region	2%	1%	12%	16%	0%	0%	City of Portland	2%	1%	12%	15%	0%	0%
							City of Portland Non-						
Non-Equity Focus Areas	3%	1%	12%	15%	0%	0%	Equity Focus Areas	3%	1%	12%	14%	0%	0%
							City of Portland Equity						
Equity Focus Areas	2%	1%	12%	16%	0%	0%	Focus Areas	2%	1%	12%	15%	0%	0%

Access to Community							Access to Community						
Places Medical							Places Medical						
	% Change	in Commur	nity Places v	with 2021-20	024 MTIP In	vestments	3	% Change	in Commun	ity Places v	vith 2021-20	24 MTIP In	vestments
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W
Region	3%	1%	11%	13%	0%	0%	City of Portland	3%	1%	11%	13%	0%	0%
							City of Portland Non-						
Non-Equity Focus Areas	3%	1%	10%	12%	0%	0%	Equity Focus Areas	3%	1%	10%	12%	0%	0%
							City of Portland Equity						
Equity Focus Areas	2%	1%	11%	15%	0%	0%	Focus Areas	2%	1%	11%	13%	0%	0%

Access to Community							Access to Community						
Places All Others							Places All Others						
	% Change	in Commur	nity Places v	vith 2021-20	024 MTIP Ir	vestments		% Change	in Commun	ity Places v	ith 2021-20	24 MTIP In	vestments
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W
Region	2%	1%	11%	14%	0%	0%	City of Portland	2%	1%	11%	13%	0%	0%
							City of Portland Non-						
Non-Equity Focus Areas	3%	1%	10%	12%	0%	0%	Equity Focus Areas	3%	1%	10%	12%	0%	0%
							City of Portland Equity						
Equity Focus Areas	2%	1%	12%	16%	0%	0%	Focus Areas	2%	1%	12%	15%	0%	0%

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Places All Community							Places All Community							Places All Community						
Places							Places							Places						
	% Change	in Commun	ity Places v	with 2021-20	024 MTIP In	vestments		% Change	in Commu	nity Places	with 2021-2	024 MTIP Ir	vestments		% Change	in Commu	nity Places v	vith 2021-2	024 MTIP II	nvestmei
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W
Washington County	2%	1%	11%	21%	0%	0%	Clackamas County	2%	2%	11%	20%	0%	0%	East Multnomah County	2%	1%	11%	15%	0%	0%
Washington County							Clackamas County Non-							East Multnomah County						
Non-Equity Focus Areas	3%	1%	10%	26%	0%	0%	Equity Focus Areas	3%	2%	10%	15%	0%	0%	Non-Equity Focus Areas	3%	0%	10%	4%	0%	0%
Washington County							Clackamas County Equity							East Multnomah County						
Equity Focus Areas	2%	1%	12%	5%	0%	0%	Focus Areas	2%	2%	12%	23%	0%	0%	Equity Focus Areas	2%	1%	12%	16%	0%	0%
Access to Community							Access to Community							Access to Community						
Places Food							Places Food							Places Food						
	% Change	in Commun	ity Places v	with 2021-20	024 MTIP In	vestments		% Change	in Commu	nity Places	with 2021-2	024 MTIP Ir	vestments		% Change	in Commu	nity Places v	vith 2021-2	024 MTIP II	nvestmen
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W
Washington County	2%	1%	12%	21%	0%	0%	Clackamas County	2%	2%	12%	21%	0%	0%	East Multnomah County	2%	0%	12%	16%	0%	0%
Washington County							Clackamas County Non-							East Multnomah County						
Non-Equity Focus Areas	3%	1%	12%	27%	0%	0%	Equity Focus Areas	3%	2%	12%	18%	0%	0%	Non-Equity Focus Areas	3%	0%	12%	2%	0%	0%
Washington County							Clackamas County Equity							East Multnomah County						
Equity Focus Areas	2%	1%	12%	6%	0%	0%	Focus Areas	2%	2%	12%	22%	0%	0%	Equity Focus Areas	2%	0%	12%	19%	0%	0%
Access to Community							Access to Community							Access to Community						
Places Medical							Places Medical							Places Medical						
	•	in Commun	•					_			with 2021-2	024 MTIP Ir			•	in Commu	•		024 MTIP II	
	AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W		AP	AOP	TP	TOP	В	W
Washington County	3%	1%	11%	21%	0%	0%	Clackamas County	3%	2%	11%	21%	0%	0%	East Multnomah County	3%	1%	11%	10%	0%	0%
Washington County							Clackamas County Non-							East Multnomah County						
Non-Equity Focus Areas	3%	1%	10%	27%	0%	0%	Equity Focus Areas	3%	2%	10%	14%	0%	0%	Non-Equity Focus Areas	3%	0%	10%	1%	0%	0%
Washington County	20/	40/	440/	50/	00/	001	Clackamas County Equity	201	201	440/	2.40/	00/	00/	East Multnomah County	201	407	440/	440/	00/	051
Equity Focus Areas	2%	1%	11%	5%	0%	0%	Focus Areas	2%	2%	11%	24%	0%	0%	Equity Focus Areas	2%	1%	11%	11%	0%	0%

% Change in Community Places with 2021-2024 MTIP Investments

TOP

20%

15%

22%

0%

0%

0%

0%

0%

TP

11%

10%

12%

Access to Community

Access to Community

East Multnomah County

East Multnomah County

Non-Equity Focus Areas

East Multnomah County

Equity Focus Areas

ΑP

2%

3%

2%

AOP

0%

0%

1%

Places -- All Others

Access to Community

AP

2%

3%

2%

AOP

2%

2%

2%

Places -- All Others

Clackamas County

Equity Focus Areas

Focus Areas

Clackamas County Non-

Clackamas County Equity

% Change in Community Places with 2021-2024 MTIP Investments

TOP

21%

25%

6%

0%

0%

0%

0%

0%

0%

TP

11%

10%

12%

Access to Community

Access to Community

Access to Community

AP

2%

3%

2%

AOP

1%

1%

1%

Places -- All Others

Washington County

Washington County

Equity Focus Areas

Non-Equity Focus Areas Washington County W

0%

0%

0%

% Change in Community Places with 2021-2024 MTIP Investments

TOP

17%

6%

19%

0%

0%

0%

TP

11%

10%

12%

Similar to the results of the 2018 RTP transportation equity evaluation, access to jobs and community places increases with the 2021-2024 MTIP package of investments more so for transit and slightly for automobiles. The 2021-2024 MTIP produced minimal to no change in access to jobs and community places by bicycles, and walking. The increase in access to jobs and community places by transit is likely a result of the significant transit investments in the 2021-2024 MTIP. In the upcoming four federal fiscal years, two major transit capital investments are expected to open: the MAX Red Line Extension and the Division Transit Project. These two capital projects will add and improve existing transit service in the region. Additionally, the MAX Red Line Extension project will fix a major light rail operational bottleneck at the Gateway Transit Center, which will increase the service and capacity of the entire light rail network.

As noted the 2021-2024 MTIP made very minor changes in people's ability to access jobs and community places by bicycle and walking despite over \$120 million in investment. This held true region-wide and in equity focus areas and sub-regions, with the exception of Clackamas County. Part of this result is likely due to the limited granularity of travel demand model and features like a pedestrian crossing or neighborhood greenway treatments not well captured in the tool. Therefore, a number of bicycle investments were not modeled and assessed as part of this accessibility measure. (See Appendix II). Of the bicycle investments modeled in the 2021-2024 MTIP assessment, the investments managed to make an impact in bicycle access in Clackamas County. The Monroe Street Greenway, included in the 2021-2024 MTIP, is likely the reason for the increase in access by bicycle in Clackamas County. This bicycle greenway will fill a gap in the bicycle network in the southern portion of the region as well as create a new connection between two major bicycle facilities. The Monroe Street Greenway creates a continuous connection to the Trolley Trail (heading south) and the Springwater Trail (heading north and heading east), linking two of the region's highly used multiuse pathways for cyclists. Despite the new bicycle connectivity, the assessment shows a decrease in bicycle access in Clackamas County. While a decrease in access may appear negative

or counterintuitive, this change is likely a sign of new bicycle facilities attracting more bicycle travel. This performance measure assesses the number of jobs and places reached within a certain travel time. Well-designed bicycle facilities may not be the fastest and straight-forward way to reach jobs and community places, but an enticing enough tradeoff that people traveling by bike may ride a little longer to reach jobs and community places. Therefore, any change in accessibility by bicycle should be seen generally as a positive result.

The 2021-2024 MTIP investments produced mixed results in increasing access to jobs and community places for equity focus areas. The mixed results of 2021-2024 MTIP investments point to opportunities for improvements. Specifically, for access to jobs by transit, during the peak and off-peak travel period, non-equity focus areas see a greater increase in access to jobs by transit compared to equity focus areas. For access to community places by transit, non-equity focus areas see a greater increase in access only for the peak travel period However, the percent change may not tell the complete story. The total number of jobs accessible to the average household in an equity focus area is overall much greater than in non-equity focus areas. (See jobs and community places total tables in Appendix II). This means additional access to five jobs for an equity focus area may only have marginal impact to those households because the total number of accessible jobs is very abundant. Whereas compared to a non-equity focus area the additional access to five jobs has a larger impact since the total number of accessible jobs is less abundant.

With 2021-2024 MTIP investments, access to community places by transit see a similar pattern as access to jobs where the non-equity focus areas see a greater increase in access to places like libraries, grocery stores, and hospitals compared to equity focus areas. However, this is only during the peak travel period (i.e. morning and evening rush hour), where during the non-peak travel period, the equity focus areas see greater increases access to community places by transit compared to non-equity focus areas. The improvements in accessing community places by transit during the

off-peak travel period in equity focus areas reflects a priority identified by historically marginalized communities. Better transit service during the off-peak period serves people who need to access jobs outside of traditional work hours and run errands in the middle of the day.

When looking down at the sub-regional scale, there was increased transit access to jobs and community places during the peak and off-peak travel periods in the equity focus areas in City of Portland and East Multnomah County, both at rates greater than the region and non-equity focus areas. East Multnomah County has particularly high increases in access to community places in its equity focus areas, which ranged from 12 percent increases to 17 percent increases.

In Washington County, access to jobs and community places by transit increases at greater rates than the non-equity focus areas, but only during the peak travel period, when transit service levels are highest. When looking at the off-peak period, the non-equity focus areas in Washington County see greater increases in access. In Clackamas County regardless of time of day, the increase in access to jobs is lower in equity focus areas than non-equity focus areas. However, the increased access to community places in equity focus areas in Clackamas County is greater than in non-equity focus areas. Some of these sub-regional results may possibly be attributed to anticipated service improvements on specific transit lines between 2021 through 2024. For example, headway improvements for TriMet transit line 57 are anticipated in both the peak and off-peak period. This line serves a number of equity focus areas along the Tualatin Valley Highway in Forest Grove, Cornelius, Hillsboro, and Beaverton. This service improvement can partially explain some of the access results seen with the 2021-2024 MTIP investments in Washington County.

Ultimately, the 2021-2024 MTIP investment program's mixed results of the access to jobs and community places performance measures reflects both progress and opportunities for additional work. Increased access within equity focus areas and sub-regions are

results of transit agencies and local jurisdictions working together to prioritize and focus service to best serve community needs. It also reflects jurisdictions following the adopted policy direction to focus and prioritize investments that advance equitable outcomes for historically marginalized communities. Nonetheless, it is important to recognize that the 2021-2024 MTIP investment package results in a greater increase in access to jobs by transit all times of day in non-equity focus areas than in equity focus areas. The results may indicate providing focused transit service may not be enough to be able to service historically marginalized communities. For example, the lesser performance of transit access to jobs in equity focus areas in Clackamas County during the peak period – despite five transit lines in Clackamas County with improved headways – points to a need for a combination of strategies and partner agencies to work creatively and collaboratively to help make transit successful in serving the historically marginalized communities in Clackamas County. Continuing to advance this policy direction and meet regional goals will take time and a combination of different efforts. This presents both challenge and opportunity for implementing the 2021-2024 MTIP investment program and future MTIP cycles.

Addressing climate

Performance measure: Greenhouse gas emissions reduction

With the 2021-2024 MTIP investments:

- Greenhouse gas emissions decreases by volume (metric tons) and per person.
- The region is on track to meet its greenhouse gas emissions reduction targets per capita from light duty vehicles for 2035 and 2040.

Figure 3-6. Greenhouse gas emissions reduction by volume

Projected Greenhouse Gas Emissions

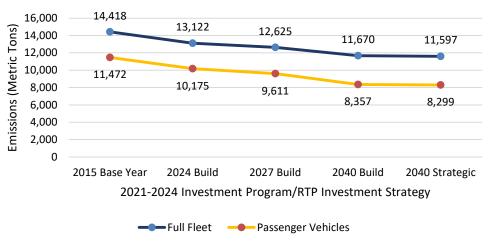
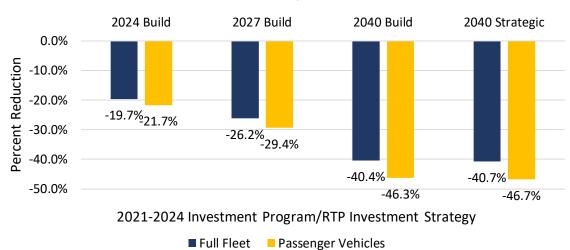


Figure 3-7. Greenhouse gas emissions reduction per capita

Annual Greenhouse Gas Emissions Reduction Per Capita



The analysis of the 2021-2024 MTIP package of investments show greenhouse gas emissions decreasing by volume (metric tons) and the reduction at a per person level is on pace to meet the region's greenhouse gas emissions reduction targets. When looking at the greenhouse gas emissions reduction as a result of the 2021-2024 MTIP investments in comparison to the 2018 RTP investment strategies, the 2021-2024 MTIP aligns with the decreasing emission trajectory shown by the RTP. The charts show a comparison of the projected greenhouse gas emissions reductions by volume and per capita for the 2021-2024 MTIP investment package, the 2018 RTP investment packages for 2027 and 2040 under a financially constrained environment, and an investment package in 2040 that is not financially constrained. The charts show the 2021-2024 MTIP investments on pace towards the projected 2027 and 2040 greenhouse gas emissions reduction. The analysis also shows the contribution the 2021-2024 MTIP investment package is making towards the region's greenhouse gas emission reduction target of 29 percent per capita by 2035, per state legislative mandate.

Greenhouse gas emissions reductions from passenger vehicles and full fleet (i.e. heavy and medium duty trucks) both show promising trends. The decrease in emissions from the full fleet show that emissions from trucks are also trending downward. This is important because diesel trucks emit not only greenhouse gases but also other harmful air pollutants, including fine particulate matter, that cause of respiratory illnesses. Recent increased interventions in the passenger vehicle realm to promote fuel efficiency and economy are also contributing to greater reduction in emissions for passenger vehicles.

The progress the 2021-2024 MTIP investment package is making toward reducing emissions and meeting the region's climate goals is not surprise, considering the mix of active transportation, transit, system management and operations, and supportive programmatic investments included in the 2021-2024 MTIP. The major transit investments likely play a large role in the emissions reductions due to vehicle trips shifting. Additionally, several of the region's programmatic investments – such as Safe Routes to School, Transit

Oriented Development, and Regional Travel Options – play a role in encouraging walking, biking, and transit as viable options for getting around. A gradual mix of diversified investments continue to show progress towards achieving the region's goals and desired outcomes to reduce emissions of greenhouse gases from transportation.

Addressing safety

Performance measures: Level of investment in safety projects by cost and percentage and subdivided by equity focus areas and high injury corridors.

With the 2021-2024 MTIP investments:

- The region's level of investment to address crashes that result in fatalities and serious injuries is a little over \$458 million.
- Nearly half of the projects (69 of 150) focus on the safety of the system and reducing crashes that result in fatalities and serious injuries.
- Of the 69 safety projects, 48 projects address safety issues on the region's high injury corridors and intersections. All 48 projects that address safety issues on the region's high injury corridors and intersections are in equity focus areas.
- A total of \$440 million of the region's safety investment is directed in the region's equity focus areas. A little over \$385 million of the \$440 million is focused on the high injury corridors in the equity focus areas.
- At a sub-regional scale, the City of Portland and Clackamas
 County have proportionately the greatest level of investment
 dedicate to addressing crashes that result in fatalities and serious
 injuries. Both sub-regions have also focused their investment to
 address safety issues on high injury corridors in equity focus
 areas.

Tables 3-17. Level of investment in safety results

				Region			
	Total Projects: All 2021-2024 MTIP Projects*	Number of Safety Projects	Number of Safety Projects on High Injury Corridors	Percent of Safety Projects out of all 2021- 2024 MTIP Projects	Percent Sub-Region Share of Safety Projects out of 2021- 2024 MTIP Safety Projects	Percent of Safety Projects on High Injury Corridors out of all 2021- 2024 MTIP Projects	Percent of Safety Projects on High Injury Corridors out of all 2021-2024 MTIP Safety Projects
Number of Projects	150) 69	48	46%		32%	70%
City of Portland	73	38	29	52%	55%	40%	76%
Washington County	39	16	13	41%	23%	33%	81%
Clackamas County	29	13	8	45%	19%	28%	62%
East Multnomah County	17	7	5	41%	10%	29%	71%

Some projects are in multiple sub-regions. Summing the subregions will exceed the total projects for the region.

				Region			
	Total Programming: All MTIP Projects***	Total Programming of Safety Projects	Total Programming of Safety Projects on High Injury Corridors	Percent of Safety Programming out of all 2021-2024 MTIP Programming	Percent of Sub- Region Safety Programming out of 2021-2024 MTIP Safety Programming	Percent of Safety Programming on HIC out of all 2021- 2024 MTIP Programming	Percent of Sub-Region Safety Programming on HIC out of all 2021- 2024 MTIP SafetyProgramming
Total Programming**	\$ 1,491,674,573	\$ 458,818,447	\$ 385,524,891	31%	δ N/A	26%	N/A
City of Portland	\$ 559,273,989	\$ 278,262,605	\$ 259,877,964	50%	61%	46%	67%
Washington County	\$ 641,540,721	\$ 88,984,359	\$ 66,579,083	14%	5 19%	10%	17%
Clackamas County	\$ 109,182,877	\$ 74,219,886	\$ 52,259,455	68%	16%	48%	14%
East Multnomah County	\$ 36,748,982	\$ 16,237,352	\$ 6,808,389	44%	5 4%	19%	2%

^{**}Total Programming does not include the cost for "Columbia Bus Base" and "Division Transit Project" as these numbers were not provided at the time of the analysis.

Total Programming - The amount of funding anticipated to be spent in the 2021 through 2024 timeframe. Does not always reflect total cost if the project started prior to 2021 or expected to be completed after 2024.

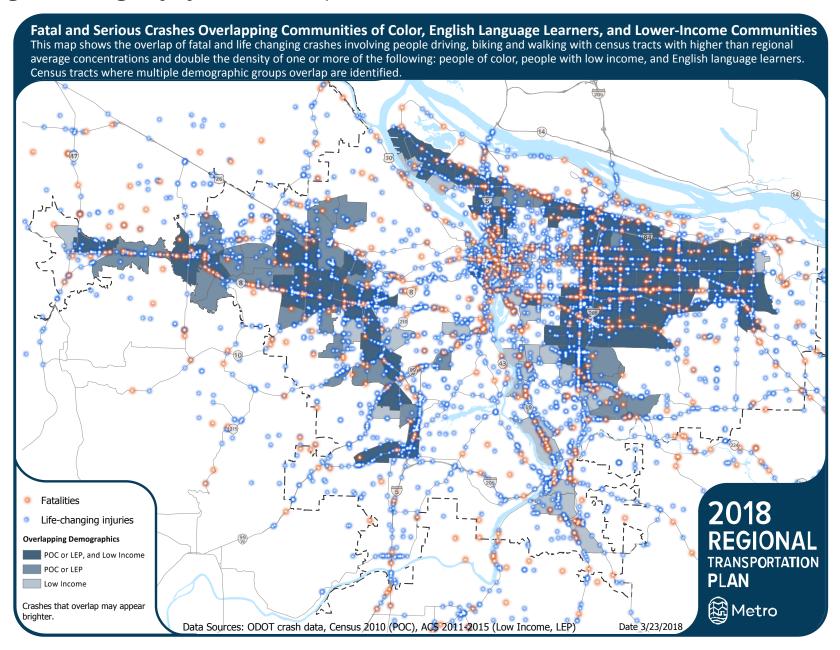
Total Cost - The entire amount spent to deliver the project

^{***}Two ODOT projects ("US30: Sandy River - OR35" and "OR213: I-205 - OR211") lie outside of the analysis subareas. Totaling the subareas will therefore be less than the "Total Programming."

			Equity Focus Areas			
						Percent of 2021-2024
				Percent of 2021-	Percent of 2021-2024	MTIP Safety Projects
				2024 MTIP Safety	MTIP Safety Projects on	on High Injury
			Number of Safety	Projects in Equity	High Injury Corridors in	Corridors in Equity
Total 2021-2024 MTIP	Percent of 2021-2024	Number of Safety	Projects on High Injury	Focus Areas out of	Equity Focus Areas out of	Focus Areas out of All
Projects in Equity Focus	MTIP Projects in Equity	Projects in Equity Focus	Corridors in Equity	All Projects in Equity	All Projects in Equity Focus	Safety Projects in
Areas*	Focus Areas	Areas	Focus Areas	Focus Areas	Areas	Equity Focus Areas
122	81%	62	48	51%	39%	77%
63	86%	37	29	59%	46%	78%
32	82%	15	13	47%	41%	87%
21	72%	10	8	48%	38%	80%
15	88%	7	5	47%	33%	71%

				Eq	uity Focus Areas			
Prog	l 2021-2024 MTIP ramming in Equity	0 0	Total Programming of Safety Projects in Equity	Safe Inju	ry Corridors in	Percent of 2021- 2024 MTIP Safety Programming of all Programming in	on High Injury Corridors in Equity Focus Areas of all Programming in Equity	Percent of 2021-2024 MTIP Safety Programming on High Injury Corridors in Equity Focus Areas out of all Safety Programming in
Focu	s Areas***	Equity Focus Areas	Focus Areas	Equ	ity Focus Areas	Equity Focus Areas	Focus Areas	Equity Focus Areas
\$	1,321,447,147	89%	\$ 440,187,386	\$	385,524,891	33%	29%	88%
\$	502,093,477	90%	\$ 277,125,854	\$	259,877,964	55%	52%	94%
\$	566,710,823	88%	\$ 87,901,089	\$	66,579,083	16%	12%	76%
\$	78,325,145	72%	\$ 58,923,091	\$	52,259,455	75%	67%	89%
\$	30,503,943	83%	\$ 16,237,352	\$	6,808,389	53%	22%	42%

Figure 3-8. High injury corridors map



The 2021-2024 MTIP investments continues to emphasize investments that address the crashes that result in fatalities and serious injuries. At a little over \$458 million, these investments account for nearly one-third (1/3) of the 2021-2024 MTIP investment profile and a little under half the projects (69 out of 150) evaluated as part of the analysis. A significant portion of the region's investment in safety, \$385 million, is focused on addressing the crashes on the region's most problematic crash prone facilities – the high injury corridors and intersections (see Figure 3-6). Across the four sub-regions – the City of Portland, Washington County, Clackamas County, and East Multnomah County – the majority of the sub-region's safety projects and investments are focused on the high injury corridors.

The reduction of crashes that result in fatalities and serious injuries has been expressed by historically marginalized communities as a significant concern. Crash history data shows people living in equity focus areas appear to suffer from a higher number of serious injury crashes and pedestrian fatalities.¹² Of the \$458 million in safety investments in the 2021-2024 MTIP, a little over \$440 million is focused in equity focus areas. Furthermore, a significant portion safety investment in equity focus areas, \$385 million, is directed to high injury corridors and intersections within those areas. At the sub-regional level, a significant portion of safety investment is directed towards the high injury corridors within equity focus areas. The City of Portland and Clackamas County are putting forward over half of all the investments within their jurisdictions towards safety.

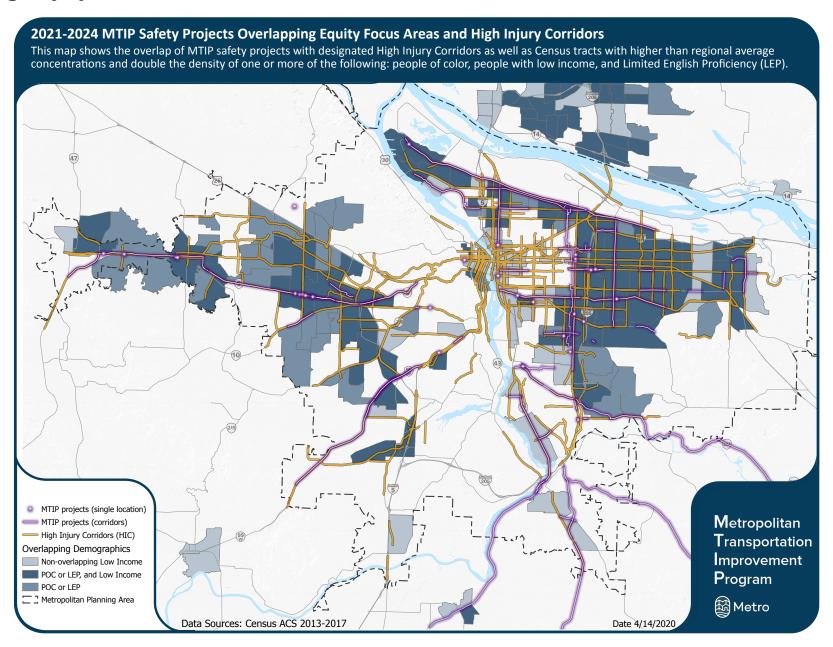
While the analysis of the 2021-2024 MTIP investment cannot forecast whether crashes will ultimately be reduced as a result of the safety investments, the greater level of investment towards safety is a proactive step towards addressing a regional priority. Despite the region's focus on safety, the region is trending in the opposite direction towards its Vision Zero goal. As described in the region's annual safety performance report, the rate of crashes continue to increase. The annual average number of fatalities increased from 62 in 2015 to 75 in 2018, an increase of 17 percent. Forty-one percent of people killed were pedestrians, up from 35 percent in 2015. Whether the 2021-2024 MTIP investment level in safety is adequate to change the trajectory of the trend is yet to be determined. However, the greater investment in safety in the 2021-2024 MTIP investments is a reflection of the region's acknowledgment of the urgency of the issue and the effort to advance the regional policy direction to address safety, particularly for the most vulnerable communities.

²⁰²¹⁻²⁰²⁴ MTIP investment profile presented based on programming provided to partners as of December 2019.

¹² Annual Safety Performance Report, Metro.

¹³ Annual safety performance report, Metro.

Figure 3-9. 2021-2024 MTIP Safety Investments Overlapping Equity Focus Areas and High Injury Corridors



Moving ahead towards progress in the 21st century (MAP-21) – Federal performance measures and targets

In 2012, the transportation reauthorization known as Moving Ahead towards Progress in the 21st Century (MAP-21) was passed by Congress and ratified by President Obama. In addition to outlining the federal spending program for transportation, MAP-21 established eleven national performance measures for metropolitan planning organizations (MPOs), state departments of transportation, and transit agencies to assess and monitor the performance of the system. The following transportation reauthorization, Fixing America's Surface Transportation (FAST) Act in 2015 continues the implementation of MAP-21 performance measures. As a result of MAP-21, MPOs, state DOTs, and transit agencies were required to set performance targets associated with the eleven national performance measures in a cooperative and coordinated manner by the end of 2018. Once agency, regional, and state performance targets were set for two and four year cycles, MPOs, State DOT's, and transit agencies are expected to monitor and report on progress towards the performance targets.

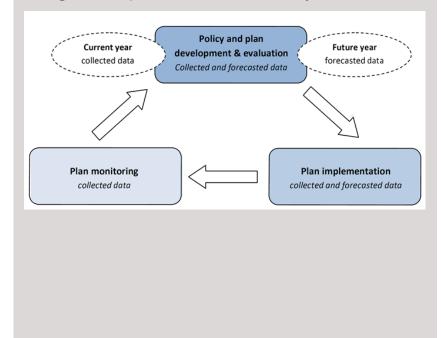
The Portland metropolitan region developed its MAP-21 performance targets in 2018 and the targets were adopted as part of the Regional Transportation Plan. As part of the target development, the region

MAP-21 performance targets and the cycle of performance-based planning

- Safety
- Fatalities and Serious Injuries
- Asset Management Pavement
 - o Percentage of pavements of the Interstate System in Good condition
 - ° Percentage of pavements of the Interstate System in Poor condition
- Percentage of pavements of the non-Interstate NHS in Good condition
- ° Percentage of pavements of the non-Interstate NHS in Poor condition
- Asset Management Bridge
 - o Percentage of NHS bridges classified as in Good condition
 - o Percentage of NHS bridges classified as in Poor condition
- Asset Management Transit
 - Rolling stock Percent of revenue vehicles that have met or exceeded their useful life benchmark
 - Equipment Percent of service vehicles that have met or exceeded their useful life benchmark
 - Facilities Percent of facilities rated below 3 on the condition scale (1=Poor to 5=Excellent)
 - ° Infrastructure Percent of track segments with performance restrictions
- National Highway System Performance
 - $^{\circ}\,$ Percentage of person-miles traveled on the Interstate that are reliable
- ° Percentage of person-miles traveled on the non-Interstate NHS that are reliable
- Freight Movement on the Interstate System
- Truck Travel Time Reliability (TTTR) Index
- Congestion Mitigation and Air Quality
 - ° Total emission reductions for applicable criteria pollutants
- Peak hour excessive delay
- Percent of non-single occupancy vehicle travel

The MAP-21 performance targets differ from the system performance assessment conducted on the MTIP investments to understand the performance of the region's transportation system. The MAP-21 federal performance measures requires MPOs, state DOTs, and transit agencies to use observed and monitored data to measuring performance and set targets for the system. The observed data approach to performance differs from the system assessment approach which looks at projections of future impacts from investments.

Figure 5. RTP performance measurement system



collected data, established baselines for each measure, and coordinated with partners the Oregon Department of Transportation and the region's transit agencies – TriMet and SMART – to ensure targets were consistent and moving in the same direction. Monitoring of performance began for the suite of MAP-21 performance measures in 2019.¹⁴

Discussion: How our regional system performs

In general, the region's near-term investments in the transportation system show mixed progress towards meeting the 2020 and/or 2022 federal performance targets. In certain areas, such as system performance, the greater strategic investment across all parts of the system shows progress towards greater reliability on the system. Whereas, crashes resulting in fatalities and serious injuries are on the rise, despite greater investment into safety. The 2021-2024 MTIP has a diverse investment profile. Investments in the 2021-2024 MTIP reflect a range of investment priorities, including federal funding dedicated towards asset management as well as state funding dedicated towards bicycle and pedestrian infrastructure on the state system, which will help make progress towards the region's targets set for 2022.

The mix of investment represented in the 2021-2024 MTIP brings both benefits and challenges. The benefit of the diverse investment profile includes the progress towards many different goals for the transportation system – from system reliability, management of assets, and reduced emissions. The challenge of a diverse investment profile is the limited focus and therefore limited impact the package of investments can make towards one goal or outcome. A clear example of this is with safety, where crash data show a trend in the opposite trajectory the region's Vision Zero target. While nearly one-third of the 2021-2024 MTIP investment is focused on addressing crashes and the investment level is greater than the

Due to the timing of when certain MAP-21 performance measures and targets were required to be set, monitoring for some performance targets, namely asset management and safety, began before 2019.

previous MTIP cycle, the focus may still not be enough to reverse the trend.

The 2021-2024 MTIP investments are aimed at making progress towards the region's performance targets established by MAP-21. There are greater advancements toward some targets than others. The 2021-2024 MTIP was the first metropolitan transportation improvement program subject to the MAP-21 performance target and monitoring process. The results provide new information that will inform an approach toward developing the investments for the 2024-2027 MTIP as well as the next target setting process for the federal performance measures. The 2021-2024 MTIP results raise the question of whether a balanced, limited progress approach towards all performance targets should continue or if an aggressive focused approach is necessary for certain targets.

The following sections look at each of the individual MAP-21 performance target areas. The regional targets are provided for each performance measure with the most recent performance reporting data. The section concludes with a discussion of the 2021-2024 MTIP investments progress towards 2020 and 2022 targets.

Asset management - Pavement

Table 3-18. Asset management – Pavement conditions

Asset management – Pavement Conditions Targets									
Performance measure 2016 Baseline 2018 Monitoring 2020 Target									
Percent of pavement on the Interstate System in good condition	31%	46%	None	35%					
Percent of pavement on the Interstate System in poor condition	0.4%	0.8%	None	0.5%					
Percent of pavement on the non-Interstate NHS in good condition	32%	34%	32%	32%					
Percent of pavement on the non-Interstate NHS in poor condition	25%	25%	25%	25%					

Source: Oregon Department of Transportation

Based on the most recent data, the region has and/or continues to make progress towards the pavement asset management performance targets for 2020 and 2024. Since establishing the baseline in 2016 for the national interstate system (NHS) and non-interstate national interstate system, the region has already met or exceeded its target for percentage of the interstate system in good condition. This is likely due to the Oregon Transportation Commission's policy direction to maintain the existing system first and 2021-2024 STIP funding allocation strategy dedicating more funding towards fixing existing assets. This is demonstrated in the 2021-2024 MTIP through the split between operations and maintenance versus capital of ODOT investments. Within ODOT's investments nearly \$200 million is for operations and maintenance where \$159 million is for capital projects. In addition, the 2021-2024 MTIP includes an infusion of new state funding specifically dedicated for pavement and bridge conditions, which was passed by the Oregon legislature in 2017. With 2020 pavement condition data expected in early 2021, this policy direction and new infusion of dedicated funding, the region can expect to see further progress and likely meet its pavement conditions performance targets for 2020 and 2024.

Asset management - Bridge

Table 3-19. Asset Management – Bridge Condition Targets

Asset management – Bridge Condition Targets									
Performance measure 2017 Baseline 2018 Monitoring 2019 Monitoring 2020 Target 2022 Target									
Percent of NHS bridges classified in good condition	6%	6%	6%	None	5%				
Percent of NHS bridges classified in poor condition	1%	1%	1%	None	1%				

Source: Oregon Department of Transportation

Based on the 2019 data available on bridge condition, the region has made miniscule progress towards the 2022 target to reach five percent of the region's national highway system (NHS) bridges classified in good condition and one percent of the region's NHS bridges in poor condition. Since establishing the bridge condition baseline in 2017, the region's bridge condition has not budged despite investments into maintaining bridges in the 2018-2021 MTIP cycle. While the results from the monitoring data are grim, the 2021-2024 MTIP investment package presents some potential to move the region closer to the 2022 target. The 2021-2024 MTIP investment package reflects new state revenues dedicated towards bridge maintenance and condition as a result of the state transportation package. The 2021-2024 MTIP reflects the results of ODOT's policy direction to leverage any discretionary capital investments with existing or near-term maintenance and operations investments. This policy direction, in effect since the 2018-2021 MTIP-STIP cycle, may begin to show more promise in meeting the region's MAP-21 bridge asset management performance targets.

Safety

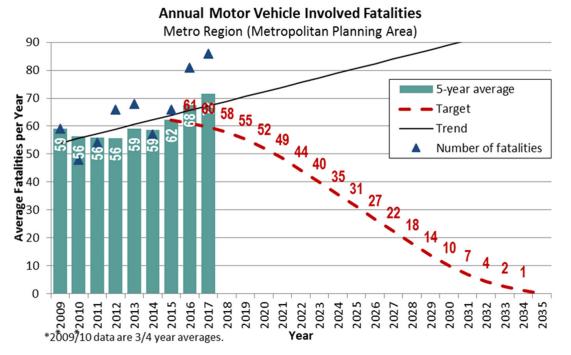
Table 3-20. Safety Targets - Fatalities and Serious Injuries

Safety – Fatalities and Serious Injuries (Regional Targets only)*									
Reporting Year (based on a 5- year rolling average) Fatalities (People) Fatality Rate (People per 100 Million VMT) Serious Injuries (People per 100 Million VMT) (People) (People per 100 Million VMT) Non-motorized Fatality Rate (People) (People per 100 Million VMT)									
2011-2015 (Base)	62	0.6	458	4.5	113				
2014-2018 (Target)	58	0.5	426	4.0	105				
2014-2018 (Actuals)	75	0.7	512	4.9	129				

The 2018 Regional Transportation Plan and 2018 Regional Transportation Safety Strategy set a target of zero traffic deaths and serious injuries by 2035. Metro developed annual targets to reach the 2035 target using the same methodology used by the Oregon Department of Transportation in the Oregon Transportation Safety Action Plan. These measures reflect people killed or seriously injured rather than fatal or serious injury crashes. Serious injuries do not include fatalities.

Source: Oregon Department of Transportation

Figure 3-10. Annual Motor Vehicle Involved Fatalities



The region set ambitious safety targets in the 2018 Regional Transportation Plan: a 16 percent reduction in fatalities and serious injuries by 2020, a fifty percent reduction by 2025 and zero fatalities and serious injuries by 2035. To be on track to meet these goals, fatalities and serious injuries needed to decline 7 percent from the base year (2015) to the target year (2018). However, fatalities increased 17 percent, and serious injuries increased 10 percent.

The greater Portland region did not meet any of the five safety targets the region set for the federal transportation performance measures or improve over the baseline from 2015. Based on the results of the performance measures, the region is not on track for achieving its Vision Zero goal.

While data trends continue to show that the region is moving in the opposite direction for the five MAP-21 safety performance measures, the public awareness and the number of fatalities resulting from crashes in the region has increased the urgency to do more to prevent these fatalities. The 2021-2024 MTIP reflects further investments towards safety projects and projects which have a strong safety benefit.

Definition of a safety project and safety benefit

Safety Project - Has the primary purpose of reducing fatal and severe injury crashes or reducing crashes by addressing a documented safety problem at a documented high injury or high risk location with one or more proven safety countermeasures.

Safety Benefit Project – Projects with design features to increase safety for one or more roadway users. These projects may not necessarily address an identified safety issue at an identified high injury or high risk location, but they do include design treatments known to increase safety and reduce serious crashes. Examples include adding sidewalks, bikeways, medians, center turn lanes and intersection or crossing treatments.

In addition, both the prioritization criteria for allocating federal and state discretionary funding in the STIP and the Regional Flexible Funds reflect the significant emphasis on reducing crashes. In particular, the 2022-2024 regional flexible funds allocation prioritized those transportation investments in the system that included countermeasures on the region's high injury corridors or intersections. The allocation of funds for the 2022-2024 STIP also saw a small infusion of funds dedicated towards safety, funded by House Bill 2017, which earmarked a portion of revenues towards safety. Roughly, \$458 million of the 2021-2024 MTIP is dedicated towards safety, which is greater than previous MTIP cycles. While reducing crashes is predicated on numerous strategies, the diverse set of investments in the 2021-2024 MTIP looks to reverse the recent data trends and get back on track towards the region's ambitious safety goal of Vision Zero and the metrics.

Further discussion about the safety trends and projections can be found in Metro's 2018 State of Safety and Annual Safety Performance Report on Metro's website.

System performance

Table 3-21. National Highway System performance targets

National Highway System Performance Targets									
Performance measure	2017 Baseline	2018	2019	2020 Target	2022 Target				
Percent of person-miles traveled on	43%	46.3%	49.6%	43%	43%				
Percent of person-miles	66%	73.8%	77.2%	66%	66%				

Source: National Performance Management Research Dataset (NPMRDS) for the period Jan. to Dec. 2017.

Table 3-22. Freight movement on the interstate system – Freight reliability targets

Freight Movement on the Interstate System – Freight Reliability Targets							
Performance measure	2017 Baseline	2018	2019	2020 Target	2022 Target		
Truck Travel Time Reliability (TTTR) Index	3.17	2.88	2.82	3.10	3.10		

Source: National Performance Management Research Dataset (NPMRDS) for the period Jan. to Dec. 2017.

Monitoring data for 2018 and 2019 show the region either meeting. exceeding, and/or making progress towards the region's MAP-21 system performance targets for 2020 and 2022. The results of the monitoring data is not surprising, since the development of the 2017 baseline, the region has seen the opening of a couple of major capital investments, including the Interstate 5 south auxiliary lanes near Lower Boones Ferry Road and the Interstate 205 auxiliary lanes from Glen Jackson Bridge to Johnson Creek Boulevard. These investments, included in the 2018-2021 MTIP, were likely significant contributors to the percent of person-miles traveled on the interstate and non-interstate NHS that are reliable. Additionally, truck time reliability, remains an area of system performance where the region continues to make progress towards its 2020 and 2022 targets. The progress shown in the monitoring data for 2018 and 2019 is notable, recognizing the region is growing at a projected 19,000 persons per year. Being able to improve person-miles traveled reliability as more trips are made in the region is a testament to a diversified system. However, Metro acknowledges the shifts in the underlying national performance management research data management system (NPMRDS) may skew the performance observed in 2018 and 2019.

The 2021-2024 MTIP has several large capital investments that are likely to make an impact on the reliability of the interstate and non-interstate NHS and make improvements to the truck travel index.

These investments include the Interstate 5 Rose Quarter improvement project, Oregon 217 auxiliary lanes, the MAX Red Line extension, and the opening of Division Transit project. The two high capacity transit projects will likely shift the mode of some vehicle trips to transit, opening up interstate and non-interstate NHS capacity for truck throughput. The two major auxiliary lane projects address known bottlenecks in the region's freeway and roadway network and create more efficient operations.

Air quality

Table 3-23. Congestion Mitigation and Air Quality Program - On-road mobile source emissions targets

Congestion Mitigation and Air Quality – On-Road Mobile Source Emissions Targets									
Performance measure	2014-2017 Baseline	2018-2019 CMAQ Obligations	2021 – 2024 CMAQ Funded Projects	2020 Target	2022 Target				
Annual average reduction emissions reduction per day (by pollutant) for all CMAQ-funded projects (Kg/day)									
Particulate matter less than 2.5 microns (PM2.5)	N/A	N/A	N/A	N/A	N/A				
Particulate matter less than 10 microns (PM10)	N/A	N/A	N/A	N/A	N/A				
Carbon monoxide (CO)	2476.73*	2380.72**	2094.82***	2000	1840				
Volatile organic compounds (VOC)	N/A	N/A	N/A	N/A	N/A				
Nitrogen oxides(NOx)	N/A	N/A	N/A	N/A	N/A				

^{*}Calculations based on obligations of CMAQ funded projects for federal fiscal years (FFY) 2014-2017 and included in baseline.**Calculations based on obligations of CMAQ funded projects for FFY 2018 and 2019 which were available at the time of the 2021-2024 MTIP performance assessment. FFY 2020 obligations will be determined by July 2020. ***Calculations include the CMAQ funded projects for FFY 2021-2024.

Source: Portland area CMAQ obligated projects.

The 2021-2024 MTIP congestion mitigation and air quality (CMAQ) investments continues to meet and exceed the region's 2020 and 2022 performance targets for emissions reduction of air pollution. The 2021-2024 MTIP continued investment in the region's high capacity transit system makes up the bulk of air pollution emissions reduction and further complimented by investments in active transportation, funded with CMAQ dollars. The 2021-2024 MTIP investments also see new investments in transit service through revenues provided through an annual increase in employer tax and a new employee tax. The emphasis the 2021-2024 MTIP places into providing transportation options continue to encourage and shift single occupancy vehicle trips to other forms of travel with lower or zero emissions (see the managing congestion discussion previously in this chapter). Recognizing in 2016 the region renewed its long-term commitment to invest into the transit system and the region's goal to complete the regional active transportation network, these two directives will continue to facilitate the region meeting its air pollution reduction targets.

Table 3-24. Transit Asset Management Targets

Transit Asset Management Targets							
Performance measure	2018 Baseline Performance	2019 Actual Performance	2020 Target				
TriMet Rolling Stock – Percent of revenue vehicles that have met or exceeded their useful life benchmark (ULB)							
BU – Bus	15.3%	16.2%	18%				
CU – Cutaway (used for LIFT paratransit)	9.02%	16.6%	45%				
LR – Light rail vehicles	0%	0%	18%				
RP – Commuter rail passenger coach	0%	0%	0%				
RS – Commuter rail self-propelled	0%	0%	0%				
passenger car VN – Van (used for LIFT paratransit)	0%	0%	0%				
TriMet Equipment – Percent of service vehicles that have met or exceeded their useful life benchmark (ULB)							
Automobiles	26%	33.3%	17%				
Trucks and other rubber tire vehicles	34%	22.5%	23%				
Steel wheel vehicles	30%	Not applicable	Not applicable				
TriMet Facilities – Percent of facilities rated below 3 on the condition scale (1=Poor to 5=Excellent)							
Passenger/Parking facilities	1.03%	2.13%	1%				
Administrative/Maintenance facilities	0%	0%	0%				
TriMet Infrastructure – Percent of track segments with performance restrictions							
LR – light rail	4.7%	4.2%	4.0%				
YR – Hybrid rail	3.0%	0.4%	3.0%				

Transit Asset Ma	anagement Targ	ets	
Performance measure	2018 Baseline Performance	2019 Actual Performance	2020 Target
SMART Rolling Stock – Percent of revenue vehicles that have met or exceeded their useful life benchmark (ULB)	33%	35%	33%
SMART Equipment – Percent of service vehicles that have met or exceeded their useful life benchmark (ULB)	20%	38%	20%
SMART Facilities – Percent of facilities rated below 3 on the condition scale (1=Poor to 5=Excellent)	0%	0%	0%
C-TRAN Rolling Stock – Percent of revenue vehicles that have met or exceeded their useful life benchmark (ULB)	14.5%	18%	20%
C-TRAN Equipment – Percent of service vehicles that have met or exceeded their useful life benchmark (ULB)	17.1%	25%	30%
C-TRAN Facilities – Percent of facilities rated below 2.5 on the condition scale (1=Poor to 5=Excellent)	0%		30%

Each transit provider must update State of Good Repair targets annually and the agency's Transit Asset Management (TAM) Plan must be updated at least every 4 years covering a horizon period of at least 4 years. TriMet's performance measures and targets are monitored and reported in TriMet's TAM Plan. SMART's performance measures and targets are monitored and reported in ODOT's Group TAM Plan. C-TRAN's performance measures and targets are monitored and reported in C-TRAN's TAM Plan.

The region's transit agencies continue to make progress towards their annual transit asset management (TAM) targets. Slightly different from the majority of the MAP-21 performance targets, the TAM performance targets are re-evaluated annually to determine whether there is need to update the targets.

In general, the region's transit agencies – TriMet and SMART – are making progress towards their TAM targets. In some cases the TAM targets are being met or maintaining with the 2020 targets. In the cases where the TAM targets are being maintained, the 2020 target may be anticipating a wave of assets which by 2020 will reach the threshold of meeting or exceeding their useful life and therefore the target reflects accordingly. For example, TriMet, the region's largest transit provider, saw a slight increase in 2019 for its bus rolling stock meeting or exceeding useful life compared to the 2018 baseline. While disappointing, the bus rolling stock 2020 TAM target reflects this likelihood that a few more buses each year will like meet useful life thresholds in the near-term.

Nonetheless, the 2021-2024 MTIP package includes investments to address the asset conditions of the transit system. In total, approximately \$376 million is programmed in the four-year program across all transit agencies to address rolling stock, infrastructure, and facilities. In addition, the 2021-2024 MTIP reflects new revenues to become available to transit agency with the passage of the state transportation package in 2017. While a majority of the new local revenues went towards providing enhanced transit service, particularly for historically marginalized communities, the influx of funds have helped to balance funding across all different needs areas for transit agencies, including asset management, but also emphasizes additional work to do to maintain the system.



Chapter 4: Building the 2021-2024 MTIP: Financial forecasting and project and program selection for funding

A core part of the development of the 2021-2024 MTIP is the formation of the four year investment package. While the first year of the investment package (i.e. federal fiscal year 2021) overlaps with the current 2018-2021 MTIP, the process of deciding what transportation projects and programs to fund from federal fiscal years 2022 through 2024 can take upwards of two or three years to make the final decisions. The decision process, undertaken by each MTIP partner – Metro, ODOT, SMART, and TriMet – involves several steps, including:

- a financial analysis to determine the estimated funding available;
- a policy setting component to establish the criteria for the allocation of funding;

Chapter sections

- Metro 2022-2024
 Regional Flexible Funds
- ODOT Region 1: 2021-2024 State
 Transportation
 Improvement Program
 (STIP) funding allocation
- SMART annual budget process
- TriMet annual budget process
- TriMet Special Transportation Fund allocation (STF)

- a selection process;
- a public involvement component at various points and responding to public involvement; and
- a final action component to ratify the final decisions.

As described in detail in the following sections, a financial analysis sets the stage for funding allocation discussions to determine the investments that make up the 2021-2024 MTIP. The revenue forecasts and project cost estimates are completed by each partner agency looking at its revenue streams, existing financial commitments and federal and/or state laws or guidance related to budgets and cost estimating. Projects are then programmed so that estimated project costs by project phase do not exceed forecasted revenues in any year. The description of the process and methods used to demonstrate fiscal constraint of project funding is in Chapter 5.

The section following discussion of the financial analysis describes the decision process each agency uses to prioritize and select transportation investments programmed in the 2021-2024 MTIP. The processes described primarily focuses on federal fiscal years 2022 through 2024, since the decision process for investments programmed for federal fiscal year 2021 (and prior years) is described in the 2018-2021 MTIP.

Metro 2022-2024 Regional Flexible Funds

Financial analysis

Financial forecast

Every Regional Flexible Fund allocation (RFFA) process begins with a forecast of funding available for distribution to projects and programs in the next cycle. A forecast of available funds must be made three to five years in advance of fund expenditures to allow the awarded agencies time to staff up, secure matching funds and enter into agreements with the Oregon Department of Transportation to incur costs legally that will be reimbursed by

USDOT. Thus, the forecast for awarding this cycle, federal fiscal year 2022-2024 regional flexible funds, was determined in spring of 2019.

The forecast begins with an assessment of any carry-over surplus or deficit of existing project allocation funding commitments relative to updated revenue forecasts for those years of the current MTIP. In this cycle, the actual and expected RFFA revenues for the years 2015 through 2018 were projected to be less than the RFFA allocation commitments for those years by approximately \$914,000. This was primarily because the USDOT was funded by continuing resolutions in 2015 that resulted in flat revenues for a significant amount of this time period, while the previous forecast had assumed modest revenue growth consistent with historical trends and the Congressional Budget Office growth forecast for the Highway Trust Fund. With subsequent years authorized under the FAST ACT, historical rates of modest growth have resumed and the RFFA process for 2019-2021 is projected to have under-allocated funding relative to revenues.

To forecast funding available in years beyond the revenues that had been apportioned in 2018, Metro staff worked with ODOT finance staff and other Oregon MPOs in the transportation improvement program (TIP) coordinators committee to agree cooperatively on a forecast methodology for the federal RFFA funding programs (Surface Transportation Block Grant (STBG) including the Transportation Alternatives (TA) Program set-aside, and the Congestion Mitigation - Air Quality (CMAQ) funding program). The committee agreed, consistent with the ODOT forecast, to use a limitation rate of 93 percent of the authorization amount for all years that have approved federal authority, through federal fiscal year 2020. For fiscal years 2021 through 2024, which are beyond the federal authorization bill, a compounding 2.2 percent growth rate to the federal fiscal year 2020 limitation amount is assumed. This growth rate is consistent with historical trends of growth of federal transportation funds. Utilizing this methodology, a total of \$143.98 million was forecast to be available in the years 2022 through 2024 for allocation to new projects.

Estimating project costs

Agencies applying for regional flexible funds for their projects estimate and manage their project costs, with review and approval by Metro. In order to establish realistic project budgets for any project with a right-of-way acquisition or construction phase, applicants are required to submit a cost estimate performed by a certified engineer. Applicants are instructed to inflate costs to year of expenditure dollars per their requested project schedule.

For the first time in this funding cycle, Metro hired a project management consulting firm with extensive experience in delivering federal aid projects to work with ODOT and Metro staff to review project applications and assess them for risks related to costs, potential schedule delays, and missing project scope elements that may be needed to successfully deliver the project. The risk assessment was shared with project applicants prior to project selection so that applicants could modify their application to address identified risks, if they chose. A summary of the risk assessment was also provided to inform project selection, to help decision makers understand the level of risk associated with selecting a particular project and to adopt conditions of approval of funding that mitigate risks.

Once a project is awarded funds, the agency administering the project is responsible for implementing the scope of the project applied for within budget. Cost overruns must be covered by the agency or the agency must apply for additional funds or request a reduction in project scope.

Policy direction and criteria for allocation

The 2022-2024 RFFA began in January 2019 under an expedited process. The Metro Council had directed Metro staff to delay

Typically, a RFFA cycle incorporates an initial six to nine month phase of working with regional stakeholders and decision-makers to review and adopt policy direction to guide investment of the regional funding. This is followed by another 9 month period to finalize criteria and application materials, initiate a call for projects,

beginning the 2022-2024 RFFA process to allow the adoption of 2018 RTP in December 2018 to guide the allocation, and to provide the new Council coming into office in 2019 ownership of the entire process. Recognizing this delay and the need to meet the timeline for adoption of the 2021-2024 MTIP, Metro had only a year to complete the RFFA process (January – December 2019). As a result, the 2022-2024 RFFA cycle began immediately following adoption of the 2018 RTP. In response to the time constraints, JPACT and Metro Council directed the region to use the four investment objectives adopted in the RTP as the policy objectives guiding the RFFA. Reaffirmed in the 2021-2024 MTIP policy direction, those objectives are equity, safety, climate and congestion. The RTP directs that further policy, planning and funding outcomes should advance the region toward its goals in these four areas.

In addition to the direction to advance the four RTP objectives, JPACT and Metro Council in further policy discussions reaffirmed the same two-step process used to award funding since the 2012-2013 RFFA cycle:

- Step 1 continued the region's commitment to repayment of bonds used to develop and construct high-capacity transit and active transportation projects. It also continued investments in regionwide programs to fund system and demand management activities and to invest in transit-oriented development projects near high-capacity transit lines.
- Step 2 focused funding on capital projects. Eligible applicants included cities and counties, and regional and state agencies. The project focus categories remained the same as in previous RFFA cycles (active transportation and freight). Criteria for proposed projects emphasized on-street improvements to make bicycling, walking and transit access easier and safer, building regional trails, or improving freight access to commercial sites.

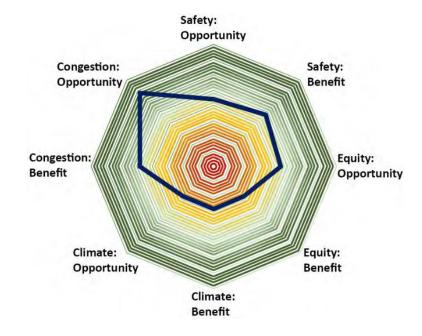
perform technical analysis and risk assessment on submitted proposed projects, and conduct and incorporate input gathered through public outreach. This information is used by the JPACT and Metro Council to reach a final selection of projects to be funded.

A new feature in the 2022-2024 allocation process was the ability to evaluate benefits of proposed projects in both categories and for them to be considered for funding in either category. This change was requested by TPAC and the region's agencies eligible to apply for funding. Thus, a single application form was created and improved the region's ability to more deeply consider projects' policy merits. This enabled an "apples to apples" technical analysis to measure and compare all projects' policy outcomes, regardless in which category(ies) the applicant requested consideration. Through the selection process, five projects (of 23 total) originally requesting to be considered for funding in the active transportation category were identified as having benefits in both focus areas and were ultimately funded through the freight category. This resulted in the region selecting a group of projects that achieved an overall higher technical rating – and therefore best achieved policy outcomes – than would have occurred following the previous selection methodology.

In addition, increased emphasis was placed on ensuring that projects selected for funding had undergone a sufficient level of planning and project development to ensure that they could be built on-time, per the scope in the RFFA application, and within the available local and RFFA funding. Metro hired an outside consultant firm to conduct an analysis of each project's risk factors.

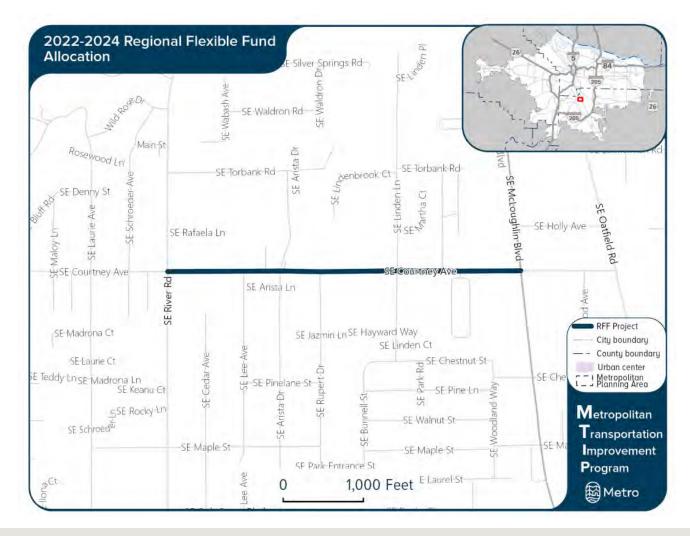
Figure 4-1-1. An example of the technical analysis visualization for each candidate project for the 2022-2024 Regional Flexible Fund Allocation process.

Evaluation



Points further from the center of the chart show greater opportunity or benefit in the four policy priority areas

Figure 4-1-2. An example of the technical analysis visualization for each candidate project for the 2022-2024 Regional Flexible Fund Allocation process.



Clackamas Industrial Area intelligent transportation systems

Sponsor: Clackamas County **Requested amount:** \$1,768,040 **Total project cost:** \$1,970,400

Purpose: Construction

Description: Builds intelligent transportation system technological improvements to improve freight movement, reliability and safety

The consultant used a "Red/Yellow/Green" method to illustrate each project's level of risk – high, medium or low. The risk assessment ratings were not used to disqualify a project or diminish its standing; rather, they were used to gather additional risk mitigation information from the applicants prior to the final project selection as well as to inform the funding agreements of the selected projects.

final project selection, by illustrating through percentages the relative support each project had received.

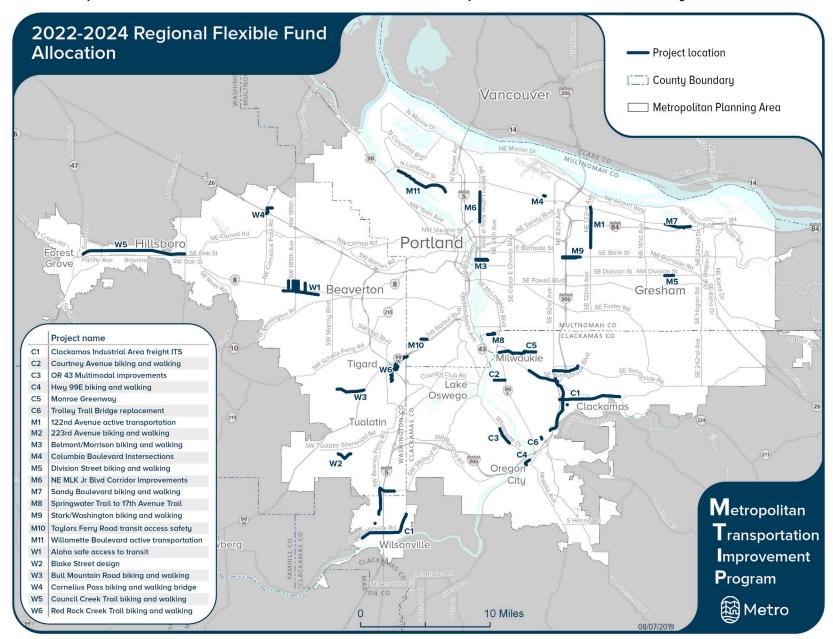
Public involvement

In previous RFFA cycles, public involvement activities took place at two key steps in the process: 1) during the development of the policy direction and setting the criteria for the allocation; and 2) after transportation projects and programs had been nominated for funding. Applying the RTP policy objectives as directed by JPACT and Metro Council allowed Metro to recognize the extensive input gathered through the 2018 RTP development and adoption process. The 2018 RTP received over 19,000 points of input in athree-year timespan. This enabled the region to conduct a shorter policy review from January to April 2019 and elect to defer a formal public comment as policy review took place immediately following the adoption of the 2018 RTP.

After the application submission period closed for Step 2 funds and a technical and project readiness review took place, Metro held a public comment period from September 6 to October 7, 2019 to ask the region's residents to help decide how Step 2 funding should be spent. Input was gathered primarily via an online comment tool. The tool provided information on the 23 projects under consideration, and respondents were able to indicate their level of support for any or all of the projects. Input was also received via email, postal mail, and phone calls. On September 26, Metro Council held a public hearing to gather direct testimony. Thirteen people provided input on various projects and indicated why they should be considered for funding.

In total, over 3,000 points of input were gathered through the public comment period. The public input was used to shape the

Figure 4-2. A map of candidate projects for the 2022-2024 Regional Flexible Fund allocation provided on the Metro website with the public comment survey



Final allocation outcome

The 2022-2024 RFFA was completed in January 2020 with the adoption of a package of programmatic and capital transportation investments focused on reducing crashes, addressing transportation disparities, reducing greenhouse gas emissions, and managing travel demand (reflecting the 2018 RTP priority areas – safety, equity, climate and congestion). The 2022-2024 RFFA funding estimate totaled \$143,981,465. Per regional policy, nearly \$99 million was directed to bond commitments, regional planning and programmatic investments through Step 1 of the RFFA framework. Step 2 was directed toward capital projects and totaled a little more than \$45 million.

Further detail on the 2022-2024 RFFA can be found in Appendix III.

ODOT Region 1: 2021-2024 State Transportation Improvement Program (STIP) funding allocation

Financial analysis

Financial forecast

ODOT forecasts revenues available from their federal and state fund sources, as well as revenue sources that they are required or choose to pass through to other transportation agencies for the 2021-2024 STIP period. Sources of available funding include federal, state, local, and other transportation funds. Federal funding levels are based on the current federal funding transportation legislation, Fixing America's Surface Transportation Act (FAST Act), enacted December 4, 2015. State funding levels are based on the current state legislation, House Bill 2017, effective October 6, 2017. Oregon is slated to program approximately \$563 million each year 2022 through 2024.

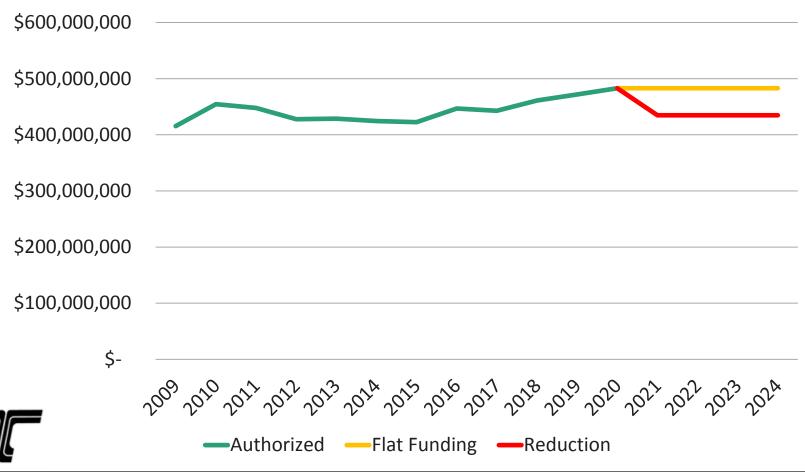
ODOT staff then works with the Oregon Transportation Commission (OTC) to assign forecasted available funding to their various funding allocation programs. The funding allocation programs each have distinct policy objectives and allocation processes, also approved by the OTC, that are used to select projects or programs to receive funds. The detailed policy objectives and selection processes of the funding programs must be consistent with the legal and policy restrictions associated with the revenue sources that will be used to fund them. MPOs participate in this portion of the ODOT process by providing comments to the OTC as they consider the options provided by ODOT staff.

The OTC made its allocation of forecasted revenues for federal fiscal years 2022 through 2024 to the ODOT funding programs in December 2017. The OTC decided to contingently hold back 10 percent of federal funding, not assigning it to a specific funding allocation program. If those funds are apportioned by the USDOT, then ODOT staff will bring forward the funds to the OTC for allocation.

Figure 4-3. A slide confirming the Commission's direction of forecasted federal revenues for fiscal years 2022-2024. Oregon Transportation Commission meeting November 2017

STIP Federal Funding Assumptions

Commission assumes 10% reduction in STIP funding after expiration of FAST Act in 2021



The OTC allocated funding among the following major categories:

- Fix-It programs fund projects that fix or preserve the state's transportation system, including bridges, pavement, culverts, traffic signals, and others. ODOT uses data about the conditions of assets to choose the highest priority projects. In recent STIPs the Commission has allocated most funding to Fix-It programs. For fiscal years 2022-2024, the allocated total is \$850 million.
- Enhance programs fund projects that enhance or expand the transportation system. In this STIP cycle, this is predominantly House Bill 2017 named projects but also includes funding for state highway leverage, active transportation leverage, and safety leverage projects. Leverage program projects are limited to enhancements of ODOT Fix-It projects. For fiscal years 2022-2024 the allocated total is \$687 million.
- Safety programs reduce deaths and injuries on Oregon's roads.
 This includes the All Roads Transportation Safety program, which selects projects through a data-driven process to ensure resources have maximum impact on improving the safety of Oregon's state highways and local roads. For fiscal years 2022-2024 the allocated total is \$147 million.
- Non-highway programs fund bicycle and pedestrian projects and public transportation. Area Commissions on Transportation often help recommend these projects to the Commission. For fiscal years 2022-2024 the allocated total is \$158 million.
- Local government programs direct funding to local governments so they can fund priority projects. For fiscal years 2022-2024 the allocated total is \$407 million.

The project selection process for ODOT funding allocation programs is administered at either the statewide level or the ODOT region level, depending on the allocation program. Metro utilizes the cooperative long-range (RTP) funding forecast to develop a rough estimate of ODOT administered funding that could be expected to be made available in the Metro region early in the policy development process to provide context for communicating MPO policy priorities to ODOT for allocating ODOT administered

funds.

ODOT then releases a forecast of funding available to the funding programs whose project selection is administered at the ODOT region level, including ODOT Region 1 which encompasses the Portland MPO area as well as rural areas of Clackamas county and Hood River county. Depending on how much of those targeted funds will be selected for projects inside the Portland MPO boundary, as opposed to the areas of ODOT Region 1 located outside the MPO boundary, this provides a general range of estimated funds available.

Estimating project costs

ODOT technical staff develops cost estimates by reviewing the project scope and applying engineering and financial assumptions based on the various work elements associated with the project. Using current financial and engineering information, costs are developed to determine project design, right of way acquisition, construction, contingencies and engineering estimates.

Policy direction and criteria

The 2021-2024 STIP process focused on system and asset preservation; these types of investments are consistent with policy guidance established by the Oregon Transportation Plan (OTP). The OTP specifies that under a constrained funding scenario, investment should "support Oregonians' most critical transportation needs, broadly considering return on investment and asset management." Efforts are focused on preservation and operational improvements to maximize condition performance and safety of the transportation system at the least cost possible. The STIP is developed in cooperation with Metro and other MPOs throughout Oregon.

Figure 4-4. A slide from a presentation at the Oregon Transportation Commission meeting in July 2017, where a discussion of the policy direction for the 2021-2024 STIP and the allocation of federal and state funding begins

The Big Question

To be answered over the next few months

How should the state allocate funds among the categories?

- How much funding should we dedicate to nonhighway and local programs?
- What is the appropriate funding level for highways?
- Among highway programs, what is the appropriate split between Fix-It, Safety, and Enhance?



At the end of a six-meeting process, the Oregon Transportation Commission approved the allocation of \$2.4 billion in funding in the 2021-2024 Statewide Transportation Improvement Program (STIP). The Commission's approved allocation directs most discretionary funding to Fix-It programs that preserve roads, bridges, and other assets.²

However, the Commission also put a significant amount of funding into Enhance Highway projects that improve roads to address growing congestion and freight mobility concerns. In addition to over \$600 million in funding directed by the Legislature in House Bill 2017 for Enhance projects, \$24 million will go to a State Highway Leverage program that will allow Area Commissions on Transportation (ACTs) to recommend the addition of Enhance features to Fix-It projects.

If federal funding comes in above the anticipated level, the OTC also directed first \$40 million of additional funding to go to a Strategic Investments program that would allow the Commission to target funding to high priority needs on the state highway system. The Commission also provided funding to safety, non-highway and local government programs based on direction in state and federal law and on agreements with local governments.

For funding programs that the OTC has approved and restricted to ODOT facilities, (e.g. Enhance Leverage, preservation programs) in lieu of a solicitation process, ODOT Region 1 staff shares with the MPO and local transportation agencies a draft project list of the ODOT Region 1 recommendations for funding. The project list represents 150 percent more project costs than forecasted available funds as a means to foster a trade-off discussion. For the 2022-2024 funding programs of this type, ODOT hosted field visits and opportunities for input on project scope with local agency staff on these draft project lists. Project scopes and budgets were refined based on this input, and further ODOT investigation and project

lists that represented a balance of project costs to forecasted revenues were proposed.

For funding programs not restricted to ODOT facilities, a more traditional selection process took place. For example, in the All Roads Transportation Safety funding allocation program, local agencies, along with ODOT, were eligible to apply for funding for projects that address safety needs regardless of the ownership of the roadway facility. Based on a technical evaluation of the candidate projects, ODOT Region 1 staff proposed a 150 percent priority projects list within this funding category. Metro staff participated on the evaluation committee of the Region 1 ARTS selection program as a means of coordinating Metro safety policy priorities into this allocation process.

Some funding allocation programs are administered at the state level and targeted to ODOT facilities, such as the state bridge program. Each of these programs has a somewhat unique project nomination and selection process, but they are typically driven by ODOT staff or an appointed committee utilizing asset management data, project scope costs relative to the program's available revenues and other considerations relative to their program purpose. Most of these allocation programs are considered part of the broader Fix-It category.

Finally, there are some funding allocation programs administered at the statewide level that are open to all transportation agencies and are competitive application based. The prioritization process and criteria are unique to each statewide funding program. The Safe Routes to School project allocation program is an example of this type of program. Often, staff from an Oregon MPO is asked to participate in the evaluation committees of these funding programs as a means of obtaining MPO input. MPOs are also typically eligible to apply for these funds if appropriate.

Public involvement

ODOT Region 1 took public comment on the initial draft programming of new projects for 2022-2024 in late spring – early

² A full list of all programs and the funding allocated to them is available online at: https://www.oregon.gov/odot/STIP/Documents/2021-2024-STIP-Allocations-Framework.pdf

summer 2019. Subsequently, statewide ODOT held open houses around the state — including an online open house in mid-February 2020 — providing the chance to make final comments on the program for all projects across the state.³ The proposed programming of funding to projects for ODOT administered allocation programs is holding a public comment period through April 6, 2020.

Final allocation outcome

ODOT Region 1 has allocated nearly \$415 million, in the Portland metropolitan area in the 2021-2024 MTIP. From the Oregon Transportation Commission's direction, motor vehicle capacity expansion projects are mostly limited to those that were directed by state funding legislation. Maintenance and operations investments, with limited multimodal enhancements attached to them, is a significant portion of the investments by ODOT in the 2021-2024 MTIP. Targeted safety projects on ODOT facilities, identified by the All Roads Transportation Safety (ARTS) program, is also a significant portion of the investments by ODOT in the near-term investment plan. Finally, some programmatic investment into curb ramp upgrades in response to a settlement agreement are also included in the 2021-2024 MTIP as investments by ODOT.

Further information about ODOT's 2021-2024 STIP can be found in Appendix III.

SMART annual budget process

Financial analysis

Financial forecast

To estimate the amount of available revenue for fiscal years 2021-2024, SMART used a methodology that is consistent with Metro's projections, based on historical trends and updated with actual appropriations and limitations. SMART collaborates with other

3 More details can be found at: https://www.oregon.gov/odot/STIP/Pages/2021-2024-STIP.aspx

regional transit agencies to estimate shares of the Urbanized Area Formula Funds from the Federal Transit Administration.

Local programs: SMART's predominant source of ongoing funding is the local payroll tax levied on businesses performing work in Wilsonville assessed on gross payroll and/or self-employment earnings. The payroll tax on local businesses covers employment within city limits and in 2008 the tax rate was raised to its current level of .5 percent (.005). Transit tax funds are used to pay for SMART operations and to leverage funding from federal and state grants. Payroll tax amounts collected by the city typically increase year to year, as companies increase their payroll through wage adjustments or by adding to their payroll and as the economy grows with new businesses relocating to the city.

A much smaller component of local funding includes charges for services, such as fare box and transit pass sale revenue. Currently, SMART charges fares for all routes that travel outside of the city of Wilsonville. Additional sources of local funding include investment income and miscellaneous revenues.

Federal programs: Nearly all federal funds received directly by SMART are subject to the policies and regulations of the Federal Transit Administration (FTA), with only minimal potential for Federal Highway Administration (FHWA) funding. There are seven federal funding programs that directly and indirectly come to SMART that support regular operations and capital purchases.

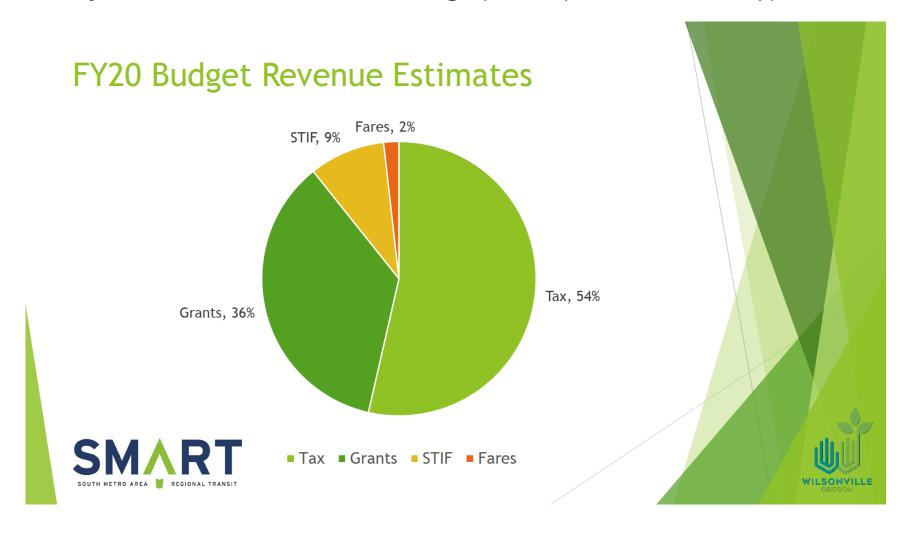
FTA Section 5307 Urbanized Formula Funds are distributed to urbanized areas with population greater than 50,000. The program divides urbanized areas into two primary categories that are determined by the size of the metropolitan area where the transit service area is located. Given that Wilsonville is within the Portland Metro region, SMART is within the category of "large urbanized areas with a population above 200,000." For large urbanized areas, these funds may only be used for capital expenditures as defined by the FTA. This funding source has been relied upon by SMART and other public transit agencies in large urban areas.

FTA Section 5339 Bus and Bus Facility program funds are distributed through a competitive process by the FTA. These funds can be used only for the purchase of rolling stock or the construction of transit facilities that support transit bus operations. These funds are allocated through a highly competitive process. Future awards are dependent on the specific process outlined by the FTA and the strength of other project proposals competing against SMART's requests for funding. SMART has had a fairly successful track record in securing these and other FTA grant funds for replacement buses, and has been able to modernize the fleet in recent years.

FTA Section 5310 Elderly and Disabled Capital program funds are funds to be used to make purchases of capital equipment or construction of small facilities. The expenditures must be used to support transportation services for seniors and persons with disabilities. The funds are provided through a competitive grant program on a biennial cycle. As FTA funds they follow all federal requirements associated with the program. Projects funded with this program are intermittent and on an as-needed basis. A relatively small amount of additional 5310 funds comes to SMART as a result of Wilsonville's status as a "direct recipient" of FTA monies. Those funds actually come to the region and SMART's share is determined through a negotiated process involving SMART, TriMet and C-Tran (Clark County Transit, Washington).

The Surface Transportation Block Grant (STBG) source of revenue is Federal Highway Administration (FHWA) funds that can be transferred into other U.S. Department of Transportation administrations (e.g. Federal Transit Administration) and funding programs. Once the funds have been transferred, they take on the same program requirements as the program into which they were transferred. ODOT transfers these funds, either at their discretion or in accordance with a legislative directive. SMART has also been awarded these funds by the Metro RFFA process to support its transportation options (TO) program.

Figure 4-5. A graphic breaking down the revenue sources of SMART's annual budget for fiscal year 2020 from the annual transit budget process presentation. (See Appendix IV)



State revenue sources: There are three important sources of funding available through the State of Oregon: the State Transit Improvement Fund (STIF), the Special Transportation Fund (STF) and Connect Oregon. The STIF and the STF are two state revenues sources are relevant to transit agencies budgets, where Connect Oregon is a statewide program to invest in non-highway modes of transportation, with current focus on aviation, rail, and marine projects.

The STIF program was created by legislative action in 2017. Derived from an employee tax, these funds are primarily directed to transit agencies in the state to support operations. To be eligible to receive these funds, transit agencies must complete a plan that is approved by the OTC.

The STF program is funded by a combination of cigarette tax, the non-highway use portion of gas tax, and fees for personal identification cards issued by the Driver and Motor Vehicle Division (DMV) of ODOT. These funds may be used to support operations, capital purchases, and planning for services that provide transportation to seniors and persons with disabilities. These funds are distributed through a combination of formulas and competitive grants. The formula takes approximately 75 percent of the annual fund and distributes it on a population basis to a designated STF agency. SMART engages in the competitive process to determine the allocation of the funds to projects within the region.

Public transit costs

Costs for SMART are determined through the city's five year financial forecast (FY 2016-2021). These expenses are anticipated to increase by at least an annual inflation rate of 2 percent per year for the foreseeable future, while maintaining roughly comparable levels of service. The most volatile components of SMART's expenses are public employees retirement system (PERS) related costs, salaries, health insurance costs, and fuel. Salaries and wages will grow in general at roughly a 2.5 percent rate while benefits are

projected to increase approximately 4 percent to 6 percent.

Policy direction and criteria

SMART's Transit Master Plan provides a tool for local implementation of transit and transportation options related provisions in the Oregon Transportation Plan (OTP), the Oregon Transportation Planning Rule (TPR), the Regional Transportation Plan (RTP), Americans with Disabilities Act (ADA), and the Tri-County Coordinated Transportation Plan for Seniors and Persons with Disabilities (CTP). Goals, objectives, and implementation measures of SMART's transit plan must support the City's overall goals as well as the county, regional, state, and federal goals. The TMP also builds on previous local plans, studies and reports and provides a clear direction for the agency until 2022.

To prioritize projects for the MTIP 2022-2024 cycle, SMART refers to the goals and implementation measures listed in the Transit Master Plan adopted by City Council. The goals were created by a citizen task force from which SMART staff developed implementation measures and projects to coincide.

SMART allocates its formula funding through the annual City of Wilsonville budget and Capital Improvements Program (CIP) processes. Nearly all federal funds – formula and discretionary – are received directly by SMART and are subject to the policies and regulations of the Federal Transit Administration (FTA). The use of FTA funds reflects the shared goals of the region and is consistent with FTA regulations. For example, providing safe, reliable and efficient public transportation by replacing diesel buses with compressed natural gas (CNG) and electric buses aligns with the Regional Transportation Plan, the Climate Smart Strategy, and the FTA's goal to support the transition of the nation's fleet to the lowest polluting and most energy efficient transit vehicles.

Public involvement

SMART carries out a robust local public process that includes print advertising, ad hoc committees, and public meetings. For example,

the programming of projects (POP) is advertised in the local Wilsonville Spokesman; an ad hoc committee informs SMART's Dial-a-Ride services; and public comment opportunity is made available at public workshops (as was the case with the TMP) and city council meetings. As part of SMART's development of its annual budget and POP, these public involvement strategies were used.

In addition, TriMet and SMART do a joint presentation of their annual budget. As part of the annual budget presentation, both transit agencies discuss the capital investments expected to continue on throughout the new MTIP. The annual budget presentation provided opportunity throughout the development of the 2021-2024 MTIP for the MPO to provide input on the transit investments anticipated for the region. (See Appendix III for the 2019 presentation)

Final allocation outcome

SMART has approximately \$1.68 million programmed in the 2021-2024 MTIP across several different program areas, operations, and transit service. The bulk of SMART's programmed funds are for the maintenance and asset management of the system. The remainder is for the delivery of transportation options, particularly for the elderly and persons with disabilities. With local funds, SMART provides other transportation options services and continues to transition its equipment and vehicles to alternative fuels.

Further information about SMART annual budget process can be found in Appendix III.

TriMet annual budget process

Financial analysis

Financial forecast

TriMet performed a revenue estimation process for development of long-term future plans, projects, and programs in support of the

2018 Regional Transportation Plan (RTP). This process ensures that future costs will not exceed anticipated revenues over time, and seeks to match future investments with anticipated revenues. This process includes scenarios to reflect both financially constrained resources, as well as a strategic list of projects that are not financially constrained. All future projects listed in the RTP also were assigned appropriate RTP project numbers. Future revenues reflect resources that can reasonably be expected to occur based upon historical projections and future forecasts.⁴

TriMet's strategic financial plan outlines the financial and operational policies that guide TriMet forward in navigating near-term challenges and achieving a sustainable future. TriMet considers the budget balanced under one of three scenarios: 1) total expenditures are equal to total revenues, 2) total expenditures are less than total revenues resulting in increases to fund balance, or 3) expenditures exceed revenues, but there is unappropriated fund balances from previous year's spending. For fiscal year 2021, TriMet's budget is balanced under scenario three. The TriMet budget document demonstrates the following financial strategic policies to guide financial decision making including:

- Fiscal policy One-time-only revenues support one-time-only expenditures including capital additions, startup costs, one-time maintenance efforts and other costs that are non-recurring. Continuing revenues pay for continuing expenditures and one-time expenditures.
- Unrestricted fund balance Begin each fiscal year with an unrestricted fund balance equal to 2.0 to 2.5 times average monthly operating expenditures.
- Debt management Debt service on senior lien payroll tax revenue bonds must be no more than 7.5 percent of continuing revenues.

⁴ More information, and a full project list, can be found here: https://www.oregonmetro.gov/regional-transportation-plan.

⁵ More information on the TriMet budgeting and forecasting process can be found at: https://trimet.org/budget/

- Fare policy Sustainable system that encourages and supports ridership and ensures broad access to transit services.
- Capital asset management Maintaining assets in a state of good repair throughout their useful life to help ensure a safe, reliable and convenient service for customers.
- Pension funding plan Provide a process to fully fund the pension benefit plans and OPEB benefits.

TriMet relies on a significant amount of revenues from the Federal Transit Administration (FTA), an agency within the USDOT that supports local public transit systems including buses, light and commuter rails. FTA also supports safety measures and helps develop next generation technology research. FTA is one of USDOT's modal based transportation agencies, headquartered in Washington, D.C. and assisted by 10 regional offices.

The Fixing America's Surface Transportation (FAST) Act, the current transportation authorization law, supports transit funding through FY 2020. The Act's five years of predictable formula funding (an increase of approximately \$1 billion per year) enables TriMet to better manage long-term assets and State of Good Repair. Federal transit revenues in the 2021-2024 MTIP cycle will be supported by a new authorization bill that forecasts a 2% annual growth rate of revenues, consistent with historical patterns of revenue authority.

The current Act is largely supported by dollars transferred from the government's Highway Trust Fund as well as the General Fund. The current Act also includes funding for new competitive grant programs for buses and bus facilities, innovative transportation coordination, workforce training and public transportation research activities; TriMet has applied for and received some of these types of funding.

Traditional Formula Funds supported under this Act that TriMet has historically benefited from and are reflected in this MTIP, include Sections: 5307 (Urbanized Area Formula Grants), 5337 (State of Good Repair Grants), 5310 (Enhanced Mobility of Seniors and

Individuals with Disabilities Grants) and 5339 (Grants for Buses and Bus Facilities).

Formula funding is made available annually to Urbanized Areas (UZA). TriMet, a designated recipient, receives an assigned amount directly, then sub-apportes the funding to two different public bodies (C-Tran in Vancouver and SMART in Wilsonville) based on an agreed upon method. Funding sources for each of TriMet's eligible Formula Grant Programs are described as follows:

- 1. Section 5307 (Urbanized Area Formula Grants): Funds are to be used for transit capital and operating assistance in urbanized areas (population of 50,000 or more that is designated as such by the U.S. Department of Commerce, Bureau of the Census) and for transportation-related planning. For areas with populations of 200,000 and more, formula funding is based on a combination of bus revenue vehicle miles, bus passenger miles, fixed guideway revenue vehicle miles and fixed guideway route miles as well as population and population density. The FAST Act increased the total amount allotted for Urbanized Area Formula Grant funding by 2.01 to 2.13 percent per year. FTA also apportions Section 5340 (Growing States) funds to qualifying UZAs. These amounts are added to the Urbanized Area's Section 5307 apportionment. The FAST Act has also had a positive impact on this revenue source, growing 2.51 percent for FY 2017-FY 2020. Similar growth rates are forecasted for authorization levels beyond the timeframe of the FAST Act.
- 2. Section 5337 (State of Good Repair Grants (SGR)):
 Funds provide capital assistance for maintenance, replacement and rehabilitation projects of high intensity fixed guideway and bus systems to help transit agencies maintain assets in a state of good repair. Additionally, SGR grants can be used for developing and implementing Transit Asset Management plans. Funds allocated to UZAs by statutory formula for high intensity fixed guideway systems are based on revenue and route miles reported to the National Transit Database (NTD) and what the UZA would have received in the fiscal year 2011 fixed guideway

modernization formula. Funds allocated to UZAs by statutory formula for high intensity motorbuses are based on revenue and route miles reported to the NTD. TriMet sub-apportions the High Intensity Motorbus State of Good Repair formula funds with C-Tran and SMART as they provide services in the UZA; however, only TriMet provides fixed guideway services in the area; therefore, no sub-apportionment of funds is needed.

- 3. Section 5339 (Grants for Bus and Bus Facilities): Funds provide, through a statutory formula, for replacement, rehabilitation and purchase of buses and related equipment and to construct bus-related facilities. In addition to the formula allocation, this program now includes two discretionary components: The Bus and Bus Facilities and Low or No Emissions grant programs.
- 4. Section 5310 (Enhanced Mobility of Seniors and Individuals with Disabilities):
 - This program provides formula funding for the purpose of assisting private nonprofit groups in meeting the transportation needs of older adults and people with disabilities when the transportation service provided is unavailable, insufficient or inappropriate to meeting those needs. This program also aims to improve mobility for seniors and individuals with disabilities by removing barriers to transportation service and expanding transportation mobility options. Funds are apportioned based on each state's share of the population for these two groups.
- Regional Flexible Fund Allocation (Urban STBG and CMAQ funds):
 Tri Mot continues to receive pass-through funds from Metro

TriMet continues to receive pass-through funds from Metro, as the MPO, via the RFFA process. Flexible funds from either the Surface Transportation Block Grant (STBG) or Congestion Mitigation and Air Quality Program (CMAQ) revenue source are transferred from the Federal Highway Administration to FTA go to one of three programs: Section 5307, Section 5311 or Section 5310. Once they are transferred to FTA for a transit project, funds are administered as FTA funds and take on all the

requirements of the FTA program.

TriMet has issued Capital Grant Receipt Revenue Bonds to finance a portion of capital costs and improvements of the transit system, including: Washington County Commuter Rail and Interstate 205/Portland Mall Light Rail Project, Portland Streetcar Extension, Portland Milwaukie Light Rail Project and purchase of new buses. The Grant Receipt Revenue Bonds are payable from and secured by a pledge of STBG and CMAQ funds, or replacement grant programs and amounts credited to a debt service account.

TriMet has also been awarded STBG funding in the past for Rail/Bus Preventive Maintenance, RTO Program and other construction costs. TriMet's Regional Transportation Options (RTO) Program promotes transportation services via outreach and marketing and educates employers about the range of commute options available to their employees. The program also facilitates the coordination of services of employer-oriented transportation management associations, other public transit agencies, regional government and employer based transportation coordinators to promote access to and use of transportation services

6. Section 5309 Capital Investment Grants (CIG) Program:
FTA also provides discretionary funding in competitive
processes. FTA's primary grant program for funding major
transit capital investments, including heavy rail, commuter rail,
light rail, streetcars, and bus rapid transit, is the Section 5309
Capital Investment Grants (CIG) Program. Unlike most other
discretionary grant programs, instead of an annual call for
applications and selection of awardees by the FTA, the law
requires that projects seeking CIG funding complete a series of
steps over several years to be eligible. There are four categories
of eligible projects under the CIG program: New Starts, Small
Starts, Core Capacity, and Programs of Interrelated Projects.
New Starts projects are new fixed guideway projects or
extensions to existing fixed guideway systems with a total

estimated capital cost of \$300 million or more, or that are seeking \$100 million or more in Section 5309 CIG program funds. For New Starts projects, the law requires completion of two phases in advance of receipt of a construction grant agreement – Project Development and Engineering.

To prepare to apply for CIG funding, Metro and TriMet jointly develop major transit projects in the early stages of project development. Both agencies work together through the project concept, alternatives analysis and identification of final alternative alignment for the project. Metro and TriMet jointly work together on the environmental scoping, National Environmental Protection Act (NEPA) classification, and the NEPA documents. Metro also plays a role in executing the outreach and engagement strategy. TriMet takes over responsibility of a transit project after project planning has been completed by Metro and the Locally Preferred Alternative has been selected. TriMet will apply to the FTA for entry into project development phase and for a project rating. The FTA reviews the financial capacity, cost estimates, scope, schedule, budget and capability and capacity of TriMet to construct and operate the project. As part of FTA's review, FTA hires a project management and financial management oversight consultant to conduct these detailed reviews and completed before entry into the engineering phase and the issuance of a Full Funding Grant Agreement.

TriMet works with local, regional and state partners to secure local matching funds and any CMAQ/STGB funds that may be used for projects seeking CIG funds. These funding discussions occur during the development of the Draft Environmental Impact Statement and continue during the Final Environmental Impact Statement through to the issuance of the Full Funding Grant Agreement. Non-Capital Investment Grant funding commitments are documented through intergovernmental agreement (IGA). These IGAs document the amount of funding and when funds will be provided to TriMet. TriMet is then responsible for managing the construction, schedule and cash flow for these projects.

TriMet, in partnership with Metro and the FTA, amends CIG projects into the MTIP at the appropriate time and as appropriate project development thresholds are reached. This has already occurred with the Division Transit Project, and is in progress for the Better Red Project. The MAX Red Line provides vital connections within the region, including service to Portland International Airport. This project will make the Red Line more reliable and extend service to the Fair Complex Center in Hillsboro. This wide-ranging project is currently in the engineering phase, with work to be completed over multiple years.⁶

Going forward, TriMet and partners will also work to complete project development and a financial plan for the Southwest Corridor Light Rail Project.

Public transit costs

TriMet's forecast cost projections assume the current cost structures remain in place and cost trends continue. Projections (also known as baseline projections) are designed to serve as a benchmark that can be used to evaluate and adjust revenues and expenditures. This allows TriMet to balance accounts, add service, pay down debt service, and invest in capital projects or fund liabilities. After the projections are updated, TriMet creates a proposed forecast that includes cost savings and revenues needed to achieve financial stability, meet requirements for TriMet's State-of-Good-Repair needs and service commitments to the region, and aligns with the strategic financial plan.

TriMet views its capital projects as either additions to the capital plan or as rehabilitation and replacement of the existing capital. TriMet plans and budgets replacement projects as follows:

- Each department maintains an inventory and condition assessment of capital items. The purpose of the inventory is to estimate the life expectancy, condition and replacement costs of TriMet's existing capital assets, whether or not they will be
- 6 More information can be found at: https://trimet.org/betterred/

- programmed for replacement during the next five years. With this information, TriMet plans for future expenditures, sets replacement schedules and establishes infrastructure standards.
- This inventory is updated and refined each year prior to the budget process, with another year added for planning purposes.
- During the annual budget process, replacement projects must be justified based on the actual condition or repair history of the facility or equipment.

Policy direction and criteria

Annually, TriMet conducts the allocation of FTA formula and discretionary funds, State Transportation Investment Fund, and TriMet local revenues through the annual budget process. Beginning in the autumn each year and adopted in the spring the following year, the annual budget process is guided by federal and state laws, as well as regional and local plans (TriMet's service enhancement plans). In particular, local government budgeting law plays a significant role in the allocation of federal and state funding in TriMet's budgeting process.7 The law has two major objectives: 1) Provide standard procedures for preparing, presenting, and administering local budgets; and 2) Ensure citizen involvement in the preparation of the budget. Development of the TriMet budget is an effort shared by riders as well as the broader community, with consideration of safety, equity, and other long-term concerns and issues. The Tax Supervising and Conservation Commission (TSCC), a five-member citizen board appointed by the Governor, reviews the budgets of all governmental jurisdictions in Multnomah County. The TSCC, together with the state department of revenue, is responsible for ensuring the TriMet budget complies with local budget law.

⁷ Oregon Revised Statues Chapter 294, Local Budget Law.

Figure 4-6. A slide outlining the major themes from TriMet's fiscal year 2020 budget from the annual transit budget process presentation (See Appendix IV)



FY20 Proposed Budget Themes

- Operating and maintaining the existing transit system
- Improving and increasing service; Service changes; Expanding service and operation of a Transit Assistance Program
- Maintaining headways and capacity of bus and rail service
- Vehicle replacements of all types
- Costs of ADA complementary paratransit service
- Costs associated with further development of Hop Fastpass™
- Capital and operating project expenditures from the Capital Improvement Program
- Mid-life overhaul of light rail vehicles
- Debt service expense
- Continued commitment to strengthen pension reserves

Concurrent with the development of the annual budget, TriMet develops the proposed program of projects (POP). These projects outline how federal funding is proposed to be allocated across a range of projects and programs. These projects outline funding sources including: Section 5307 Urbanized Area Formula; Section 5337 State of Good Repair; Section 5310 Enhanced Mobility of Seniors & Individuals with Disabilities; Section 5339 (a) Bus & Bus Facilities; Section 5312 Innovations in Transit Public Safety; Section 20005(b) Pilot Program for Transit-Oriented Development Planning; Surface Transportation Block Grants; and Congestion Mitigation & Air Quality. These funds include Bus & Rail Preventive Maintenance: Labor and materials/services used for on-going maintenance of Bus and Rail fleets in TriMet's service district of Clackamas, Multnomah and Washington Counties. In addition, the annual program of projects also highlights any project awarded FTA Capital Investment Grants (CIG) from the previous year, after the budget has been adopted.

Lastly, for high capacity transit investments, projects are identified through regional planning efforts that include Metro's High Capacity Transit Plan, the Regional Growth Concept and the Regional Transportation Plan. TriMet also develops a Capital Improvement Plan and Service Enhancement Plans that guide transit investments. These plans are guided by technical analysis, are subject to significant policy overview by MPO committees and local governments, and go through extensive public involvement efforts.

Public involvement – annual budget process

To give the public ample opportunity to participate in the budget process, local budget law requires that a budget officer be appointed and a budget committee formed. The budget officer prepares the proposed budget under direction of the TriMet general manager. The board of directors also serves as the budget committee, then reviews and, if needed, revises the proposed budget before it is formally adopted. For TriMet, the budget officer is the TriMet chief financial officer, Executive Director of Finance & Administrative

Services and Budget & Grants Administration Department, which is responsible for preparing and publishing the budget document. Notices are published, budgets are made available for public review, and opportunities for public comment are provided. These actions enable public participation in the budget decision-making process and give public exposure to budget programs and fiscal policies before adoption. TriMet divisions prepare budget modification requests in accordance with direction given by the board of directors and general manager. These are submitted to the general manager, who then analyzes and approves the requests. The proposed budget is the culmination of an extensive process of budget development, analysis, and revision.

TriMet engages in a proactive public outreach effort throughout the year by holding public meetings to gather feedback on service changes and services for seniors and people on a low income. The budget development process includes management, labor, riders, and internal and external experts. In advance of the proposed annual budget, TriMet held two general community meetings (one in the fall and one in spring), four culturally specific outreach meetings, and three liaison meetings in non-English speaking communities. Community members may directly contact TriMet with input for the budget during public outreach meetings described above or online. In addition, community members also have opportunity to personally testify on the TriMet budget at the budget hearing of the board of directors.

TriMet maintains a community budget web page.⁸ The site contains TriMet's proposed, approved and adopted budgets, along with TriMet's audited financial statements, strategic financial plan, Pension/OPEB Valuations, and board approved policies.⁹

Each year, TriMet provides an opportunity to submit comments or request a public hearing on the proposed program of projects and issues public notice. The public hearing is an opportunity to submit

⁸ www.trimet.org/about/accountability.htm#financial

⁹ More information about the TriMet budgeting process can be found at: https://trimet.org/budget/

comments in person rather than via the email link federalfunding@ trimet.org. If requested, the public hearing will be held at TriMet's offices. If no request for a public hearing is received, the proposed program of projects will become the final program of projects.¹⁰

Lastly, as part of TriMet's public involvement process, TriMet and SMART do a joint presentation of their annual budget. As part of the annual budget presentation, both transit agencies discuss the long-term capital investments expected to continue on throughout the new MTIP. The annual budget presentation provided opportunity throughout the development of the 2021-2024 MTIP for the MPO to provide input on the transit investments anticipated for the region.

Final allocation outcome

TriMet has \$513 million programmed in the 2021-2024 MTIP across a mix of capital projects, maintenance projects, operations for transit service for the elderly and persons with disabilities, and alternative fuel vehicles. Additionally, TriMet's programming includes several fund exchanges of Metro's federal funds.

Further information about TriMet's budget process and program of projects can be found in Appendix III.

TriMet Special Transportation Fund allocation (STF)

Policy, public involvement, allocation, and performance reporting

The Special Transportation Fund Advisory Committee (STFAC) is appointed by the TriMet Board of Directors to advise TriMet by making informed recommendations about the distribution of grants funded by the State of Oregon's Special Transportation Fund (STF) and the Federal Transit Administration's Enhanced Mobility

10 More information can be found at: https://trimet.org/pdfs/notices/FY21%20Proposed%20POP%20Comment%20Meeting%20-%20TriMet.org.pdf

of Seniors and Individuals with Disabilities - Section 5310. The three-county STF area receives approximately \$10–15 million in STF formula, supplemental, and discretionary funds each biennium. STF funds have played an important role in the expansion of community-based services for seniors and persons with disabilities as well as in the preservation of fixed route and complementary paratransit services.

The STFAC includes a broad representation of users of transportation services and providers including all interested members of the Committee on Accessible Transportation (CAT), as well as representatives from Clackamas, Multnomah and Washington Counties aging and disabilities service agencies, out-of-district transit providers, seniors and persons with disabilities from the three Counties, seniors and persons with disabilities representing out-of-district consumers, Ride Connection, and TriMet.

The STFAC allocates funds through a solicitation process in which applications are scored on criteria derived from the Coordinated Transportation Plan for Seniors and People with Disabilities (CTP). The CTP must be updated and approved by the TriMet Board of Directors every four years. Eligible applicants for STF funds are public transit providers, not for profit private transportation organizations, and local jurisdictions. All applications must focus on providing transportation for seniors and/or people with disabilities. All STFAC meetings follow Oregon's Public Meeting Law. The final recommendations for STF funds are forwarded to the TriMet Board of Directors for approval. Once approved, TriMet enters an inter-governmental agreement with ODOT for the funds and passes them through to the awardees through sub-recipient contracts. Per its IGA with ODOT, TriMet ensures contract compliance by the individual sub-recipients.

By following indicators in Monthly Performance Reports, program managers and the STFAC can identify under or outperforming STF & 5310-funded projects, watch for trends, and help ensure that tax dollars are being allocated most efficiently. All supporting materials

are hosted on TriMet's public website, including STFAC membership, grant opportunities, allocation awards, and performance reports.



Chapter 5: Demonstrating federal regulatory compliance: MTIP development requirements and other miscellaneous federal regulations

The following sections describe the 2021-2024 MTIP compliance with federal regulations.

Fiscal constraint

Fiscal constraint is maintained by balancing revenues available in a fiscal budget year with the project costs incurred in that year. For the 2021-2024 MTIP, four years of revenues are

Chapter sections

- Fiscal constraint
- Regional Transportation Plan (RTP) consistency
- Congestion management process and MAP-21 performance measures
- Other federal regulations

forecasted and four years project costs are estimated. Fiscal constraint is demonstrated by showing the total programming of projects costs by project phase do not exceeding forecasted revenues in any year in the MTIP. The tables below show for each of the agencies administering federal funding within the Portland metropolitan area – ODOT, transit agencies TriMet and SMART, and Metro – programmed project costs in fact do not exceed revenues available in each year of the MTIP.

Revenue streams and project cost estimates are then actively managed through the life of the MTIP and adjustments made to ensure fiscal constraint is maintained. The specific administrative rules and process utilized to actively manage the project cost element of fiscal constraint are described in Chapter 8. More detailed fiscal constraint calculations by agency and for the overall 2021-2024 MTIP can be found in Appendix IV.

Fiscal constraint of the Metro Regional Flexible Fund Allocation

Regional Flexible Fund Project costs, by phase of each project (planning, project development, preliminary engineering, right-of-way acquisition, construction) are programmed (see tables in Chapter 6) for the year in which they are anticipated to obligate. This includes project phases carrying over from the previous 2018-2021 MTIP, and new projects funded with new revenue capacity expected in years 2022-2024.

Table 5-1 on the following page demonstrates more revenue is forecasted as available to the RFFA program during the four-year period of the MTIP as has been scheduled for obligation and spending of funds on projects and programs. This demonstrates fiscal constraint of RFFA funds for the current 2021-2024 MTIP.

Two new management tools are being implemented this funding cycle to help maintain financial constraint of the MTIP. First, Metro is implementing a six-year programming framework of RFFA funding to selected projects, rather than the traditional four-year

programming framework. Per federal regulations, the fifth and sixth year of programming are informational only and are not recognized as approved programming by USDOT. However, a six-year programming schedule allows for more realistic scheduling of more complex projects that need to progress through project development, engineering, right-of-way acquisition and construction phases. Often this process, especially when needing to document and obtain federal regulatory approval associated with federal aid projects, may take longer than the four years of programming offered by the traditional four-year MTIP programming framework. The six-year programming option provides the opportunity to match programming with a realistic project schedule, improving both transparency and the need to later amend the MTIP programming to match actual project delivery schedules.

A second new management tool being used in this MTIP is the result of a collaborative effort of ODOT and Oregon's large MPOs to establish obligation targets each year to improve the on-time delivery of federal aid projects in Oregon. Based on programming agreed to between the MPOs and ODOT, the MPOs will need to actively manage delivery of projects to meet a target percentage of programmed funds. Failure to meet targets will result in funding penalties, while meeting targets makes the MPO eligible for additional funding capacity based on a percentage of any federal redistribution funds that may come to Oregon. The establishment of targets also increases the collaboration between ODOT and the large MPOs in cooperatively managing the financial constraint of metropolitan STBG, Transportation Alternatives (TA) set-aside, and CMAQ funding at a statewide level. For example, if one MPO wants to build up funding capacity for a large expenditure in a future year, ODOT or another MPO can utilize that funding capacity in the early years and then provide an equivalent amount of funding capacity in the future year when needed by the MPO. This allows Oregon to fully obligate all available funds in each year, keeping the state eligible for federal redistribution, while providing flexibility needed for the lumpy nature of funding capacity across project schedules.

In total, \$143.98 million of revenues are forecasted as available for allocation in the 2022-2024 RFFA process. These revenues are added to the revenues forecasted for federal fiscal year (FFY) 2021 as a part of the 2021-2024 MTIP that were already allocated to projects as a part of the 2019-2021 RFFA process. Funds available in FFY 2021 include unobligated funds from FFY 2020 that ODOT makes available to Metro area projects through an exchange of obligation authority. A total of \$207.6 million in RFFA revenues is currently forecast as available during the 2021-2024 period. This forecast will be updated with a more certain understanding of what funding will not obligate during the current FFY 2020 and will be carried forward to FFY 2021.

Table 5-1. Demonstration of fiscal constraint - Metro regional flexible funds allocation

	Metro Reg	nstration of Fisca gional Flexible Fu (By Federal Fisca	nding Allocation		
	2021	2022	2023	2024	Total: 2021-24
Programmed Project Costs	\$147,702,001	\$52,172,192	\$42,602,274	\$45,188,622	\$287,665,089
Federal MPO Revenue*	\$79,199,433	\$46,684,936	\$47,852,277	\$58,187,643	\$231,924,289
State & Local Fund Sources	\$68,865,476	\$5,998,420	\$4,555,023	\$5,835,305	\$85,254,224
Difference	\$362,908	\$511,164	\$9,805,026	\$18,834,326	\$29,513,424

^{*}Includes estimated annual allocations of Urban CMAQ, STBG and TA funds. Federal revenue in 2021 includes \$34 million in prior year carry-over funds.

Note: The region has committed \$32.5 million federal and local funds for the 2022-2024 RFFA projects that are currently scheduled to obligate in 2025 and 2026.

Fiscal constraint of the ODOT funding allocation programs

Programming of the ODOT funding allocation programs to projects located in the Portland metropolitan area are in the same amount of revenue as authorized by the OTC for projects located in this region. FHWA approves ODOT and the OTC fiscally constraining their funding revenues to their funding allocation programs at a statewide level. Therefore, if the OTC authorizes funding to ODOT administered funding allocation programs and on to projects funded through those programs, Metro considers that a commitment of funding to the project that meets the requirement of fiscal constraint.

Table 5-2 demonstrates that the funding commitments approved by the OTC are equal to the programming of funds to project costs.

Table 5-2. Demonstration of fiscal constraint – ODOT funding allocation programs

		nstration of Fisca Funding Allocati (By Federal Fisca	on Programs		
	2021	2022	2023	2024	Total: 2021-2024
Programmed Project Costs	\$315,158,524	\$97,009,262	\$37,993,249	\$30,462,386	\$480,623,421
Federal Fund Sources	\$274,531,721	\$87,202,418	\$34,666,654	\$27,497,818	\$423,898,611
State & Local Fund Sources	\$40,626,803	\$9,806,844	\$3,326,595	\$2,964,568	\$56,724,810
Difference	\$0	\$0	\$0	\$0	\$0

Fiscal constraint of the SMART funding programs

SMART has proposed programming of federal funds to programs in the exact amount they are forecasted to receive revenues. Table 5-3 below demonstrates that SMART's programming is fiscally constrained.

Table 5-3. Demonstration of fiscal constraint – SMART program

	SI	nstration of Fisca MART Funding Pro (By Federal Fiscal	ograms		
	2021	2022	2023	2024	Total: 2021-24
Programmed Project Costs	\$524,698	\$524,698	\$524,698	\$524,698	\$2,098,792
Federal Fund Sources	\$419,758	\$419,758	\$419,758	\$419,758	\$1,679,032
State & Local Fund Sources	\$104,940	\$104,940	\$104,940	\$104,940	\$419,760
Difference	\$0	\$0	\$0	\$0	\$0

Fiscal constraint of the TriMet funding programs

TriMet has proposed programming of federal funds to programs in the exact amount they are forecasted to receive revenues. Table 5-4 below demonstrates that TriMet's programming is fiscally constrained.

Table 5-4. Demonstration of fiscal constraint – TriMet programs

	Tr	Table 5.4 stration of Fiscal iMet Funding Pro By Federal Fiscal	grams		
	2021	2022	2023	2024	Total: 2021-24
Programmed Project Costs	\$125,953,737	\$91,032,700	\$92,767,526	\$94,537,051	\$404,291,014
Federal Fund Sources	\$91,929,800	\$72,826,160	\$74,214,021	\$75,629,640	\$314,599,621
State & Local Fund Sources	\$34,023,937	\$18,206,540	\$18,553,505	\$18,907,411	\$89,691,393
Difference	\$0	\$0	\$0	\$0	\$0

Fiscal constraint demonstration conclusion

Table 5.5 below displays all of the funding programmed in the 2021-2024 MTIP. As all of the funding allocation programs have adequate funding available in each fiscal year to meet the programming of funds to projects, fiscal constraint of the 2021-2024 MTIP is met.

Table 5-5. Demonstration of fiscal constraint – all 2021-24 MTIP programming

	All 2	ıstration of Fiscal 2021-24 MTIP Proş By Federal Fiscal	gamming			
	2021	2022	2023	2024	Total: 2021-24	
Programmed Project Costs	\$589,338,960	\$240,738,852	\$173,887,747	\$170,712,757	\$1,174,678,316	
Federal Fund Sources*	\$446,080,712	\$207,133,272	\$157,152,710	\$161,734,859	\$972,101,553	
State & Local Fund Sources	\$143,621,156	\$34,116,744	\$26,540,063	\$27,812,224	\$232,090,187	
Difference	\$362,908	\$511,164	\$9,805,026	\$18,834,326	\$29,513,424	

^{*}Includes estimated annual allocations of Urban CMAQ, STBG and TA funds. Federal revenue in 2021 includes \$34 million in prior year carry-over funds.

Note: The region has committed \$32.5 million federal and local funds for 2022-2024 RFFA projects that are currently scheduled to obligate in 2025 and 2026.



2021 – 2024 Metropolitan Transportation Improvement Program (MTIP) policy direction

April 2019

oregonmetro.gov/mt

2021-2024 MTIP policy direction cover

Regional Transportation Plan (RTP) consistency

The 2021-2024 MTIP employed a variety of techniques to ensure the investments within the 2021-2024 MTIP are consistent with the adopted 2018 RTP. The process of vetting and determining consistency takes place throughout the development of the 2021-2024 MTIP, starting at the initial policy direction to help guide the different funding allocation processes being led by ODOT, SMART, and TriMet and continuing through the preparation of final programming for the 2021-2024 MTIP. Through this continual process of vetting consistency, the region is able to ensure the investments put forward in the 2021-2024 MTIP make progress toward addressing one or more of the region's goals for the transportation system and are consistent with the region's long-range financial forecast. The next sections describe in further detail the main mechanism used as part of the 2018 RTP consistency vetting process for the development of the 2021-2024 MTIP.

Policy direction and priorities

During the development of the 2021-2024 MTIP, Metro staff drafted a set of policies to guide the development of the investment package. The draft policies were informed by the recently adopted 2018 RTP as well as federal regulations pertaining to the development of the MTIP. The policies were then taken through the regional committee

process – TPAC and JPACT – and reviewed with main MTIP partners – ODOT, SMART, and TriMet – to gather feedback. After robust discussion on the draft policies at the regional committees, the 2021-2024 MTIP policy direction was adopted by the Metro Council in April 2019. (See Appendix IV) The 2021-2024 MTIP policy direction provides partners with four key areas of direction to guide their funding allocations and grant applications. The policies are as follows:

- Implement the policy priorities: safety, equity, addressing climate change, and managing congestion through the investments identified in the adopted 2018 Regional Transportation Plan; and
- Comply with federal regulations
 pertaining to the development of the
 transportation improvement program
 (TIP) as outlined in the Code of Federal
 Regulations (CFR) 23 CFR 450.300 –
 450.340 as well as addressing corrective
 actions, compliance actions, and
 recommendations to emerge from
 Transportation Management Association
 (TMA) certifications and/or State
 Transportation Improvement Program
 (STIP) approvals; and
- Pursue and implement the regional finance approach; and
- In looking at opportunities to take advantage of leveraging funding opportunities, do so in an open and coordinated manner.

MTIP partners – Metro, ODOT, SMART, and TriMet – applied the 2021-2024 MTIP policy direction in different manners to balance against agency priorities as well as considering the funding restrictions of certain federal or state funds. For example, as part of the 2022-2024 Regional Flexible Fund Allocation (RFFA), the 2018 RTP policy priorities served as the criteria for prioritization in the technical scoring. As another example, during the transit agencies' annual budget presentations to regional committees, the transit agencies discussed and contextualized how the proposed transit budgets reflected and addressed the 2018 RTP policy priorities as well as reflected the priorities of the federal performance targets, particularly for asset management. (More detailed discussion of the funding allocation processes can be found in Chapter 4 and Appendix III.) These examples illustrate how the policy direction set forth in the development of the 2021-2024 MTIP were factored into and influenced the outcomes of funding decisions and consistency with the region's long-range transportation blueprint.

In addition to applying the 2021-2024 MTIP policy direction into funding decision-making process, Metro worked closely with partners – ODOT, SMART, and TriMet – during the funding allocation processes to help ensure 2018 RTP consistency. Staff took opportunities to remind the agencies in committee and stakeholder settings to prioritize investments which are consistent with adopted regional policy. Metro staff also worked with partner staff in the background of the funding allocation process to help point to potential RTP consistency issues with proposed investments. For example, Metro staff identified whether candidate projects for funding were included in the 2018 RTP financially constrained project list or if candidate project scope descriptions were inconsistent with regional policy and needed further refinement.

The results of the 2021-2024 MTIP performance analysis show the package of investments makes progress toward the majority the four 2018 RTP policy priorities and many of the MAP-21 performance targets. However, there are opportunities for improvement in safety and accessibility. The region is currently experiencing an increase in fatal and serious injury crashes and

increasing accessibility by bicycling and walking in historically marginalized communities can be improved. Overall, the investment program is having an effect and making progress toward implementing the adopted regional transportation plan.

Programming development

As part of developing the programming tables for the 2021-2024 MTIP, partners ODOT, SMART, and TriMet were asked to provide a suite of project data to help develop the 2021-2024 MTIP. As part of the data request, partners were asked to provide the appropriate RTP identification number for each transportation investment - whether a project or program. For those projects or programs where partners were unable to supply an RTP identification number, Metro staff worked directly with the partner to determine whether the project is considered exempt from having a RTP identification number or helping the partner find the identification number. Metro staff then verified the 2021-2024 MTIP investment matched in scope, general schedule, and costs to the RTP identification number provide. This exercise ensured projects and programs were consistent with the financial plan outlined in the 2018 RTP. The exercise also helped to define a next set of steps for the project or program to move forward if a verified RTP was not determined or where there were discrepancies in scope, general schedule, and costs.

Congestion management process and MAP-21 performance measures

Traffic congestion occurs when the number of users on a transportation facility approaches or exceeds the capacity of that facility. Congestion has many causes, but mostly results from too much traffic for the physical capacity of a road to handle or periodic events like crashes, vehicle breakdowns, road work zones, storms and special events (e.g., parades, major sporting events). For drivers, congestion falls into two categories:

• Routine congestion – typically occurs daily during somewhat

predictable timeframes

• Traffic incidents – unexpected situations and difficult to predict At the outset, traffic congestion may appear as a negative outcome that needs to be eliminated. But congestion is an indicator of growth and economic vitality, as is the case in the greater Portland region. Transportation research has demonstrated congestion cannot be eliminated, but needs active management in order to provide a reliable transportation system for users, better connect goods to market and support travel across the region.

For the Portland metropolitan region, the efforts to address congestion in a growing region focuses on improving reliability. Reliability is about predictability and dependability – being able to count on knowing about how long it will take to get to school, work or other activities. This form of active management is why the region's transportation investments, as reflected in the 2021-2024 MTIP, are a diverse array of investments that include expanding active transportation and transit options, ensuring a well-connected surface street network through complete streets projects, managing system demand through technology and operations, and implementing education, outreach, and marketing programs to encourage the use of travel options, as well as some limited interstate and roadway expansion projects primarily in the form of auxiliary lanes.

As part of the development of the 2021-2024 MTIP investments, the congestion management process and approach was applied throughout the creation of the package of investments. The summary of the region's approach to the congestion management process is as follows.¹

- Monitor, measure and diagnose the causes of congestion on the regional transportation system;
- Evaluate and recommend cost-effective strategies to manage
- 1 More detail on the Portland metropolitan region's Congestion Management Process approach can be found in Appendix L of the 2018 RTP.

regional congestion; and

• Evaluate and monitor the performance of strategies implemented to manage congestion.

The region applied the congestion management process in both explicit and implicit ways. The congestion management process approach was another factor used to inform the development of the investment package. The array of other factors included agency roles and responsibilities within the regional transportation system, agency policy direction, and funding restrictions – whether federal or local directives – as the agencies deliberated through funding allocation and annual budget processes. A short description of how the congestion management process was applied by each MTIP partner in the development of the 2021-2024 MTIP is provided in the following sections.

Metro

Guided by the recently adopted 2018 RTP and the policy direction for the 2021-2024 MTIP, the 2022-2024 Regional Flexible Fund Allocation was able to provide data on existing conditions and structure its funding allocation process to encourage grant applications that recommend cost-effective strategies to manage congestion. This helped place into context how the 2022-2024 RFFA makes progress towards actively managing traffic congestion.

Regional Flexible Funds are allocated to support the regional planning and data management systems. These funds help ensure an adequate traffic data monitoring and analysis capacity for the Congestion Management Process that informs transportation planning and spending decisions in the region by state, regional and local agencies.

The region continues to honor prior commitments to a bonded payment stream of regional flexible funds for the expansion of high capacity transit. This is a key strategy of the region's growth management and travel demand strategy to increase access to jobs and services and reduce per capital motor vehicle travel through the development of mixed-use centers around high capacity transit

stations.

Leaning heavily on the 2018 RTP existing conditions data, system performance results, as well as the newly adopted federal performance targets and baseline data, was made available to Step 1 and Step 2 funding applicants to help shape grant applications and presentations. For example, the regional programs (i.e. Regional Travel Options, Transit-Oriented Development) under funding consideration for Step 1 in the 2022-2024 RFFA gave presentations at the regional committees (i.e. TPAC and JPACT) discussing their program's purpose, performance, and roles within the broader implementation of the 2018 RTP and for the regional transportation system.²These presentations provided information to facilitate deliberations on the region's recommendation for continued funding of the programs and one-time regional investments (in the case of the Oregon Household Activity Survey). Consideration of the programs purpose and performance in contribution to meeting performance targets led to the decision to continue to provide dedicated RFFA funding to support transportation demand and system management and transit oriented land development. These are key strategies and investment priorities to reduce the need for costly and impactful expansion of motor vehicle capacity to provide for travel access needs. This investment strategy to support these programs is itself part of the region's compliance with the Congestion Management Process.

The 2022-2024 RFFA Step 2 competitive grant allocation was slightly more explicit in consideration of the congestion management process. In the application criteria, managing congestion was part of the technical evaluation looking at the potential for the proposed project to manage demand on the system.

The technical evaluation in conjunction with other elements, such as the public comment, helped to inform deliberations on which projects to propose for funding.

Lastly, with the 2022-2024 RFFA adopted and incorporated into the 2021-2024 MTIP, the investments were evaluated against the 2018 RTP policy priorities to understand how well the investments are being made toward implementing the 2018 RTP. Managing congestion is one of the key areas evaluated, where the results tend to show progress. The investments show single occupancy vehicle trips shift to transit, bicycling and walking resulting in decreased travel times in certain travel corridors. While discussed specifically in the 2022-2024 RFFA section, it should be acknowledged the evaluation of the 2021-2024 MTIP and MAP-21 performance target reporting also serves as part of the analysis, recommendation and monitoring of the system in the overarching congestion management process for the entire set of investments in the 2021-2024 MTIP.

ODOT

ODOT implements the congestion management process in several ways. In ODOT's role managing the freeway system for safety and efficient and reliable operations, Oregon Highway Plan Policy 1G.1 guides improvements. The policy prioritizes the preservation and improvement of existing system functionality over additional capacity or new facilities. Advancements in traffic data collection methods have enabled ODOT to systematically collect, store, evaluate, and monitor traffic conditions on all of its freeway corridors in the metro area. By monitoring key transportation performance indicators, ODOT can identify problems and effectively manage the system to better enable the movement of people, goods and services.

Data Collection, Analysis, and Monitoring (on-going): As part of ODOT's data collection and monitoring, the agency collects and evaluates data about existing congestion and publishes that data and an analysis of it in a bi-annual congestion report. The report looks at the following key traffic performance areas that relate to urban mobility.

- Congestion and bottlenecks
- 3 See 2021-2024 MTIP performance assessment results.

² September 2019 TPAC meeting https://www.oregonmetro. gov/events/transportation-policy-alternatives-committeemeeting/2019-09-06

- Hours of congestion
- Vehicle hours of delay
- Travel time
- Speeds
- · Recurring bottlenecks
- Reliability AM, Mid-day, PM Safety
- Frequency of crashes and non-crash incidents
- Crashes and non-crash incidents by time of day and type In addition, ODOT uses of the region's travel demand model of forecasted future congestion to assess potential strategies to manage the system.

Development of Cost Effective Strategies: Consistent with the OHP 1.F hierarchy policy, ODOT considers demand and system management options to address congestion. In ODOT's approach to evaluating and applying cost effective strategies to manage system demand, ODOT looks at a diverse arrange of strategies including

- Providing funding to demand management programs and Transportation System Management solutions such as ITS projects, traveler information systems, and incident response.
- Providing funding to complete facilities for walking, bicycling and transit access as a part of its capital projects.⁴
- Implementing ODOT Region 1 prioritized smaller-scale Congestion Bottleneck & Operations Study (CBOS) projects as an affordable means to address congestion bottlenecks in the metropolitan area.
- ODOT Region 1 participating in the development of and/or funding of major transit capital projects in the region as a means of managing congestion in the region.

As a result of this application of the congestion management process, ODOT continues to implement cost-effective

4 As mandated through state legislation to build facilities and dedicate revenues from gas taxes for active transportation.

improvements that reduce crashes and delay, and relieve congestion at recurring bottlenecks on the freeway system. These are reflected in the 2021-2024 MTIP as individual projects or as part of Region 1 ODOT operations. Some examples include:

- ODOT Corridor Bottleneck Operations Study (CBOS) projects, such as auxiliary lanes on freeways, to address safety and operations problems at specific, localized bottlenecks.
- ODOT's Real-time strategy of active traffic management technologies, designed to improve safety and reliability by providing variable advisory speed, queue warning, and traveler information to manage congestion.
- The Transportation Management and Operations Center (TMOC) provides a single, regional point of contact for around-the-clock monitoring of transportation system operations and coordination of transportation related communications and services. TMOC specially trained personnel monitor freeway corridors and work in partnership with law enforcement, fire rescue and medical teams, and tow operators to provide safe and efficient traffic flow around an incident.
- Traffic Incident Management (TIM) directly addresses traffic
 congestion and incident delay, and improves safety on the
 freeway system by deploying ODOT's Incident Response team to
 perform the functions of incident prevention, motorist assistance
 and incident management in specially equipped vehicles. Incident
 Response staff monitor freeways before, during and after peak
 commute periods removing hazards and abandoned vehicles
 from travel lanes, medians and shoulders. Responders also assist
 motorists and clear disabled vehicles from travel lanes.

Figure 5-1. ODOT's Incident Response and Transportation Incident Management (TIM) in action



An ODOT Incident Response team performing functions to assist travelers and clear incidents from causing a significant backlog of congestion on the region's freeways.

Congestion Management and Relief in Development: The Portland metro area has the most severe freeway system congestion in the state. Traffic congestion commonly occurs at I-5 the Rose Quarter, I-5 at Interstate Bridge, I-5 at the Terwilliger curves, I-5 at Lower Boones/Tualatin-Sherwood Road and I-205 at Airport Way.

House Bill 2017 – Keep Oregon Moving – is the statewide transportation package enacted by the Oregon legislature in 2017. As part of the \$5.3 billion package, the legislature directed ODOT to address and relieve congestion at key bottlenecks at: I-5 in the Rose Quarter area, OR 217 and I-205 at the Abernathy Bridge to Stafford road. The legislature set aside funding from the package to implement the designed congestion relief projects. These projects are currently under development, refining cost estimates, working through the environmental process, and design. Phases of these congestion relief projects are reflected in the 2021-2024 MTIP.⁵

Figure 5-2. Portland region's proposed tolling projects



A conceptual drawing of the Portland region's proposed tolling projects on Interstate 5 (I-5) and Interstate 205 (I-205), currently in project development

HB 2017 also directed ODOT to study value/congestion pricing as a viable solution to the congestion problem in Portland, particularly on I-5 and I-205. Throughout 2018, ODOT led a stakeholder process to identify potential pricing application on these two facilities. An application was submitted to FHWA at the end of 2018 with a proposal to explore further tolling on all lanes in both directions at:

- I-5 from about Alberta St to Multnomah Blvd
- I-205 on or near the Abernethy Bridge

FHWA approved the application and further project development work is underway for both projects.⁶

6 At this time, the tolling projects on I-5 and I-205 are not reflected in the 2021-2024 MTIP.

With the exception of the I-5 Rose Quarter project as the design and right-of-way phases have been advanced to fiscal year 2020 and the project is identifying its funding strategy for the construction phase.

Transit agencies – SMART and TriMet

Investments in transportation made throughout the metropolitan region are crucial to managing congestion in our growing region. Specifically, transit investments are one of the best ways to manage congestion and accommodate growth, connecting people with their community while easing traffic congestion and reducing air pollution.

SMART

South Metro Area Regional Transit (SMART) is the city of Wilsonville's public transit department, serving residents since 1989. SMART has a fleet of 33 vehicles and 35 full and part-time bus drivers. SMART operates nine fixed-route services within the city and to Canby, Tualatin, Salem, and Portland. SMART also provides Dial-a-Ride (DAR), non-emergency medical trips, and special shuttle services for older adults and people with disabilities.

In addition to being a public transit provider, SMART operates a number of transportation options programs that connect people to transportation choices, in an effort to reduce single occupancy vehicles trips, traffic congestion, and greenhouse gas emissions. SMART provides information and resources to help people learn about their travel options for all types of trips. The core components of SMART's transportation options program include:

- Emergency ride home program
- Transportation fairs and lunchtime presentations SMART hosts information tables to worksites of 100 employees or more to provide one-on-one assistance on transportation choices
- Trip Reduction Plan (TRP) and survey design/analysis an individualized plan per worksite, which aims to reduce single occupancy trips made to the worksite. SMART assists companies with guidance through the survey process, analyzing data and writing a successful TRP
- Walk Smart/Bike Smart Walk Smart is a free program that encourages participants to walk more and drive less for those short trips. Bike Smart is a one-stop shop for information about

- bicycling in and around the Wilsonville area. Wilsonville offers the use of free covered bike storage at the Wilsonville Transit Center
- Individualized marketing campaigns individualized marketing programs provide education and outreach efforts that encourage voluntary travel behavior change tailored to the travel needs of individuals

Additionally, through a collaboration between SMART and Ride Connection, RideWise Travel Training is available in Wilsonville for older adults (60+) and people with disabilities at no cost. Participants in the RideWise program receive access to information, public transportation training, and support centered on the safe, independent use of public transit.

SMART also works collaboratively with regional partners (including local jurisdictions, Metro, and ODOT) to carry out its functions in providing transit service efficiently and effectively.

TriMet

As outlined in the 2018 RTP Appendix L, TriMet is a key partner in the region's congestion management process (CMP) to implement selected strategies that manage the transportation system. TriMet also contributes data related to transit ridership, revenue hours, and boarding rides per revenue hour, on-time performance measures, transit assets State of Good Repair, live vehicle tracking of bus, MAX light rail, and WES commuter rail arrival time and monitoring to help inform the region about the performance of the transit system and its ability to manage demand on roadways. Beyond TriMet's role as a public transit provider, the agency also administers transit pass programs for employers – nearly 1,200 employer worksites in the Portland area offer transit passes as a benefit to their employees to support travel options and manage demand during the most congested times, work commute hours. In these roles and capacities, TriMet works collaboratively with regional partners (including local jurisdictions, Metro, and ODOT) to provide transit service efficiently and effectively, as demonstrated by enhanced transit collaborations.

Figure 5-3. A sample of transit performance data collected and provide by TriMet

TRIOMET

Audited*						TRIMET	SERVIC	CE AND I	RIDERSH	HIP INFO	RMATI(ON _
Key Indicator	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011
Originating Rides												
Bus	45,956,400	47,905,200	48,148,800	47,790,000	48,394,800	48,373,200	47,732,400	47,463,600	48,186,000	49,970,400	45,492,000	43,622,926
MAX	17,652,000	18,579,600	21,218,400	21,801,600	22,890,000	26,641,200	27,214,800	28,406,400	29,396,400	29,370,000	32,037,600	34,373,474
WES (1)	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>97,180</u>	239,519	289,980
Fixed Route:	63,608,400	66,484,800	69,367,200	69,591,600	71,284,800	75,014,400	74,947,200	75,870,000	77,582,400	79,437,580	77,769,119	78,286,380
LIFT/Cab	735,792	<u>781,956</u>	845,496	918,948	958,248	1,026,156	1,050,144	1,084,056	1,122,036	1,088,446	1,072,704	1,063,942
Total System:	64,344,192	67,266,756	70,212,696	70,510,548	72,243,048	76,040,556	75,997,344	76,954,056	78,704,436	80,526,026	78,841,823	79,350,322
Boarding Rides												
Bus	60,072,000	62,667,600	63,208,800	62,743,200	63,640,800	63,906,000	63,129,600	62,882,400	63,880,800	66,153,600	60,640,800	58,431,700
MAX	21,165,600	22,279,200	25,424,400	26,120,400	27,430,800	31,920,000	32,606,400	34,035,600	35,217,600	35,188,800	38,390,400	41,200,160
WES (1)	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	124,346	305,844	370,800
Fixed Route:	81,237,600	84,946,800	88,633,200	88,863,600	91,071,600	95,826,000	95,736,000	96,918,000	99,098,400	101,466,746	99,337,044	100,002,660
LIFT/Cab	735,792	<u>781,956</u>	845,496	918,948	958,248	1,026,156	1,050,144	1,084,056	1,122,036	1,088,446	1,072,704	1,063,942
Total System:	81,973,392	85,728,756	89,478,696	89,782,548	92,029,848	96,852,156	96,786,144	98,002,056	100,220,436	102,555,192	100,409,748	101,066,602
Avg. Wkd. Originating Ride	25											
Bus	153,600	159,900	160,100	157,900	159,000	159,000	157,600	156,000	157,400	163,400	148,600	142,900
MAX	53,800	57,700	64,500	65,800	69,300	80,200	82,500	86,100	88,800	88,900	96,800	104,800
WES	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	NA	NA	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>918</u>	<u>938</u>	1,133
Fixed Route:	207,400	217,600	224,600	223,700	228,300	239,200	240,100	242,100	246,200	253,218	246,338	248,833
LIFT/Cab	2,559	2,731	2,931	3,146	3,248	3,476	3,570	3,677	3,786	3,685	3,643	3,612
Total System:	209,959	220,331	227,531	226,846	231,548	242,676	243,670	245,777	249,986	256,903	249,981	252,445
Avg. Wkd. Boarding Rides												
Bus	200,200	208,700	209,400	206,600	208,400	209,200	207,400	205,700	207,600	215,300	196,900	190,300
MAX	65,100	69,800	78,000	79,600	83,800	97,000	99,800	104,200	107,400	107,600	117,100	126,700
WES	NA	NA	NA	NA	NA	NA	NA	NA NA	<u>NA</u>	1,175	1,200	1,449
Fixed Route:	265,300	278,500	287,400	286,200	292,200	306,200	307,200	309,900	315,000	324,075	315,200	318,449
LIFT/Cab	<u>2,559</u>	<u>2,731</u>	<u>2,931</u>	<u>3,146</u>	3,248	<u>3,476</u>	<u>3,570</u>	<u>3,677</u>	<u>3,786</u>	<u>3,685</u>	<u>3,643</u>	3,612
Total System:	267,859	281,231	290,331	289,346	295,448	309,676	310,770	313,577	318,786	327,760	318,843	322,061
Vehicle Hours												
Bus	2,009,148	2,032,944	2,048,484	2,049,156	2,047,932	2,033,544	1,953,420	1,967,016	1,984,560	2,010,600	1,919,724	1,768,620
MAX (train)	143,100	144,672	183,648	192,516	201,240	245,256	238,704	239,400	246,504	255,180	270,732	264,276
WES	<u>NA</u>	<u>NA</u>	<u>NA</u>	NA	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>2,269</u>	<u>5,478</u>	5,496
Fixed Route:	2,152,248	2,177,616	2,232,132	2,241,672	2,249,172	2,278,800	2,192,124	2,206,416	2,231,064	2,268,049	2,195,934	2,038,392
LIFT/Cab (2)	397,216	422,812	456,389	485,659	513,625	554,507	578,184	601,674	623,150	619,204	593,030	582,804
Total System:	2,549,464	2,600,428	2,688,521	2,727,331	2,762,797	2,833,307	2,770,308	2,808,090	2,854,214	2,887,253	2,788,964	2,621,196

							04/28/2020
FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
44,512,567	45,220,800	45,131,280	47,023,200 29,870,400	45,061,200	44,538,000	43,704,000	43,515,600
35,203,333 <u>326,910</u> 80,042,810	32,638,800 <u>345,510</u> 78,205,110	30,254,400 393,880 75,779,560	366,830 77,260,430	31,766,400 <u>351,520</u> 77,179,120	31,668,000 <u>287,520</u> 76,493,520	31,035,600 <u>265,668</u> 75,005,268	30,963,600 <u>244,812</u> 74,724,012
1,062,874	1,037,700	1,036,824	1,042,272	1,064,568	1,017,648	1,009,080	962,220
81,105,684	79,242,810	76,816,384	78,302,702	78,243,688	77,511,168	76,014,348	75,686,232
59,626,800	59,768,310	60,034,200	62,488,800	60,002,000	57,820,520	56,737,466	56,492,524
42,193,180	39,036,500	38,228,800	37,746,000	40,019,560	39,699,760	38,906,694	38,817,600
<u>418,090</u>	<u>442,120</u>	<u>512,270</u>	<u>476,976</u>	<u>457,210</u>	<u>448,530</u>	<u>414,432</u>	<u>377,700</u>
102,238,070	99,246,930	98,775,270	100,711,776	100,478,770	97,968,810	96,058,592	95,687,824
1,062,874	1,037,700	1,036,824	1,042,272	1,064,562	1,017,647	1,009,080	962,220
103,300,944	100,284,630	99,812,094	101,754,048	101,543,332	98,986,457	97,067,672	96,650,044
100,000,511	100,201,000	>>,01 2 ,0> .	101,701,010	101,010,002	20,200,101	27,007,07	20,000,011
145,500	147,900	147,100	153,200	146,000	143,700	141,400	140,600
107,400	100,000	94,000	92,700	98,100	97,800	96,100	96,000
1,282	1,359	1,544	1,438	1,368	1,128	1,046	963
254,182	249,259	242,644	247,338	245,468	242,628	238,546	237,563
3,606	3,556	3,566	3,587	3,655	3,514	3,473	3,288
257,788	252,815	246,210	250,925	249,123	246,142	242,019	240,851
193,800	194,000	194,800	202,800	193,592	186,800	183,800	182,800
130,000	121,000	118,400	116,800	123,700	123,200	121,100	120,900
<u>1,639</u>	1,739	2,008	<u>1,869</u>	1,779	1,759	1,632	1,503
325,439	316,739	315,208	321,469	319,071	311,759	306,532	305,203
3,606	3,556	3,566	3,587	3,655	3,514	3,473	3,288
329,045	320,295	318,774	325,056	322,726	315,273	310,005	308,491
1.750.026	1.752.044	1.006.744	1 000 202	1 000 100	2.024.422	2 000 240	2.216.460
1,758,936	1,753,944	1,806,744	1,898,292	1,988,100	2,034,432	2,098,248	2,216,460
268,512	266,676	271,476	271,800	310,920	311,832	320,688	327,732
2,032,908	2,026,056	5,460 2,083,680	2,175,549	2,304,518	5,460 2,351,724	<u>5,496</u> 2,424,432	2,549,652
577,709	567,202	572,866	580,777	612,565	605,422	593,280	570,117
2,610,617	2,593,258	2,656,546	2,756,326	2,917,083	2,957,146	3,017,712	3,119,769

Other federal regulations

In addition to addressing the requirements set forth in the Code of Federal Regulations related to the development of the transportation improvement program (TIP), the 2021-2024 MTIP also ensures compliance with other overarching federal rules. Explicitly, the 2021-2024 MTIP addresses the following regulations:

- Title II Americans with Disabilities Act
- Title VI Civil Rights & Environmental Justice
- Clean Air Act

A summary of how the 2021-2024 MTIP and its development process complied with the overarching federal regulations is described below. Further details can be found in the Appendix IV.

Title II - Americans with Disabilities Act

The 2021-2024 MTIP investment program makes progress in complying with Title II of the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act that requires that no otherwise qualified individual with a disability be excluded from the participation in, be denied the benefits of, or be subjected to discrimination solely by reason of their disability. Compared to previous MTIP cycles (e.g. 2018-2021 and 2015-2018), the 2021-2024 MTIP cycle made more explicit the consideration of Americans with Disabilities Act within the investment program. For capitaloriented investments, as allocated through the regional flexible fund and the ODOT administered funding allocation programs, the consideration of ADA occurred in the project scoping and grant application processes. For example, in the 2022-2024 regional flexible fund application, a project readiness analysis was undertaken with each project application. With the assistance of an outside transportation engineering consultant review, the applications were assessed to see whether proposed transportation investments incorporated the necessary scope elements, including Americans with Disabilities Act. In the ODOT administered funding allocation process, the funding proposals underwent a more significant project scoping exercise. During this process,

missing scope elements were identified, and a review of proposed cost estimates was undertaken. Missing ADA elements or insufficient cost estimates for ADA were incorporated and refined to reflect the ADA in the proposed project.

Moreover, ODOT has completed an inventory of ADA compliant curb ramps throughout all its facilities and developed near and long-term implementation strategy to construct missing curb ramps or deficient curb ramps. As reflected in the MTIP, ODOT has investments focused on the design and construction of curb ramps on priority facilities and most project descriptions include ADA components.⁷

In addition, as the public transit service providers in the region, TriMet and SMART both operate programs that implement the Americans with Disabilities Act. While not explicit, the transit agencies' investment profile represented in the 2021-2024 MTIP includes capital and operating funds to address the Americans with Disabilities Act. TriMet and SMART's 2021-2024 MTIP investments include funds allocated through the Special Transportation Fund (STF) allocation as well other investments in bus purchases, including paratransit, and traveler education to support mobility services and paratransit for people with disabilities. In the most recent two-year STF allocation, TriMet, as the lead, awarded the nearly \$18.5 million available to activities including:

- TriMet paratransit LIFT services
- Wilsonville SMART medical transportation for the elderly and people with disabilities
- Ride Connection-operated services, including door-to-door rides
- Special service for seniors and persons with disabilities in rural area Sandy, Canby, and Molalla, and
- A range of services provided by Clackamas County Consortium for those with special needs.
- 7 More information on ODOT's accessibility efforts can be found at: https://www.oregon.gov/odot/Engineering/Pages/Accessibility.aspx

The Coordinated Transportation Plan (CTP) for seniors and persons with disabilities guided the allocation of the Special Transportation Fund, which comprises a mix of State Special Transportation Formula (STF) Funds, Statewide Transportation Improvement Funds (STIF) allocated via the State of Oregon, and federal Section 5310 grant programs. The CTP is the central regional coordinating document for both federal and state funded transportation efforts serving people with disabilities and the elderly and describes the region's vision of a continuum of transportation services that takes into account an individual's abilities as they transition through various stages of age and/or disability.

Title VI - Civil rights & environmental justice

The Civil Rights Act of 1964 and the Executive Order 12989 on Environmental Justice are federal laws to ensure programs and services delivered by the federal government or the agencies that receive federal money do not discriminate against or deny benefits on the basis of race, color or national origin (Title VI) and conduct analysis and engagement to identify and address disproportionately high and adverse human health and environmental effects of federal or federally funded activities on minority populations and low-income populations (environmental justice).8

For the 2021-2024 MTIP, complying with Title VI of the Civil Rights Act and the Executive Order on Environmental Justice means: 1) engaging with historically marginalized communities, particularly people of color, people with low incomes, and people with limited English proficiency; and 2) conducting an analysis of the funding program to understand the effects of the investments for these historically marginalized communities. Therefore, as part of the development of the 2021-2024 MTIP, engagement was conducted throughout the building of the investment program and a performance analysis of investments was undertaken in the lead-up to the public review draft. Through these two activities and

8 Under Title VI, people not proficient in English are entitled to assistance to access critical information.

the results of the analysis, the 2021-2024 MTIP is in compliance with the requirements of Title VI of the Civil Rights Act and the Executive Order 12898 on Environmental Justice. A short discussion on engagement and the evaluation of the investments is provided in the following sections.⁹

Outreach and engagement

As part of building the investment package for the 2021-2024 MTIP. each of the MTIP partners undertook a process to allocate federal and matching locals funds to projects and programs that serve the regional transportation system. Each agency conducted public involvement, outreach, and engagement activities to gather feedback and input from historically marginalized communities and other affected stakeholders. The level of public involvement, outreach, and engagement is scaled and tailored for each funding allocation process according to policy direction and agency public participation procedures as outlined in their public participation plan or agency guidelines. Engagement tools most frequently used include public comment periods, public hearings, outreach through various social media, community forums, workshops, and web surveys. The public involvement processes for the funding allocations, in addition to providing opportunity to comment on investments that eventually comprise the 2021-2024 MTIP, also served as opportunities to continue relationship building with historically marginalized communities.

Further description about the public involvement process deployed for each MTIP partner's funding allocation process can be found in Chapter 4 of this document.

⁹ Further discussions about the public involvement and engagement for the funding allocations undertaken by each MTIP partner can be found in Chapter 4 of this document. Additional information about the 2021-2024 MTIP performance assessment and the transportation equity evaluation can be found in Chapter 3 of this document and Appendix II.

Transportation equity evaluation

Historically marginalized communities identified three transportation system outcome areas of greatest importance: safety, accessibility and affordability. In taking direction from the 2018 RTP, the evaluation of the 2021-2024 MTIP investment package examined how the investments address these desired outcomes. As a result, the 2021-2024 MTIP performance evaluation did a comparison analysis as to how the following metrics perform in areas with a high concentration of historically marginalized communities compared to those areas with lesser concentrations of historically marginalized communities. The 2021-2024 MTIP transportation equity evaluation is made up of a subset of the performance measures that reflect the priorities of historically marginalized communities, and analysis of how the investment programs performed in these areas. The included performance measures are:

- · Level of investment in safety
- System completion of the active transportation network
- Access to jobs and community places within a timely commute In summation, the results of the 2021-2024 MTIP transportation equity evaluation illustrated the following:

Level of investment in safety – Of the total 2021-2024 MTIP safety investments, a significant portion is being focused into historically marginalized communities and addressing the higher crash facilities within these communities. The level of safety investment is in response to an alarming increase in crashes on the region's roadways. While it remains to be determined whether the level of investment presented in the 2021-2024 MTIP can reverse the crash trend, the increased level of funding and focus on transportation

safety in historically marginalized communities is a positive response.

System completion of the active transportation network – The 2021-2024 MTIP investments make progress to complete the gaps in the active transportation network, particularly in historically marginalized communities. The highest rates of active transportation network completion with the 2021-2024 MTIP investments are in historically marginalized communities near frequent service transit stops and stations.

Access to jobs and community places in a timely commute – The 2021-2024 MTIP investments typically only increase access to jobs and community for those using transit; the level of access by automobile, bicycle, and walking may increase slightly or does not change. With the increase in access by transit, the results are mixed for historically marginalized communities. Overall access to jobs and community places by transit increases for historically marginalized communities, but depending on the time of day (i.e. the rush hour commute versus all other times) the rate of increase in access is lower in historically marginalized communities than the region and in non-historically marginalized communities.

The results of the 2021-2024 MTIP transportation equity evaluation show the region's investments do not have a disproportionate or disparate impact for people of color, people with low incomes, and people with limited English proficiency. Nonetheless, the performance assessment demonstrated areas of improvement needed to bridge the gaps and to better serve historically marginalized communities' transportation needs. Further recommendations and follow-up are outlined as part of the formal findings to the 2021-2024 MTIP transportation equity evaluation.

More detail on the analysis of the 2021-2024 MTIP investment program can be found in Chapter 3 of this document. The formal determination of disproportionate and disparate impact can be found as part of Appendix IV.

Due to resource and capacity constraints, the pilot launch of the combined housing and transportation expenditure tool for the purposes of evaluating affordability was not deployed with the 2021-2024 MTIP evaluation as originally proposed for the technical evaluation.

Clean Air Act

In 1991 Congress passed the Intermodal Surface Transportation Efficiency Act (ISTEA), making dramatic changes to the federal transportation funding program to states and metropolitan planning organizations. A hallmark of ISTEA was its extension of transportation serving other goals beyond the traditional aims of safety and mobility. Occurring in a similar timeframe as the Clean Air Act Amendments of 1990, the new transportation reauthorization bill explicitly acknowledged the role of automobile travel in undesirable environmental impacts, particularly to air quality. As a result, ISTEA established the linkage between the Clean Air Act and the transportation sector, where areas designated as having air pollution levels beyond national standards must demonstrate how transportation investments would reduce air pollution and/or not worsen already poor air quality.

The Portland metropolitan region was designated as a poor air quality region in the 1990s and as a result the Oregon Department of Environmental Quality developed federally required air pollution reduction plans to get the region back on track. Metro, and more broadly regional partners, played a significant role in the development and implementation of air pollution reduction plans. As part of the commitment, the region needed to demonstrate transportation plans and investments would not exceed regionally specific thresholds for emissions of air pollutants and would implement any defined transportation control measures (TCMs) or contingency plans.

In October 2017, the region completed its commitments, demonstrating the region's plans and investments do not exceed the region's air pollution thresholds. In completing its commitments, the U.S. Environmental Protection Agency (EPA) provided Metro, as the MPO for the Portland region, a letter congratulating and confirming the region had completed its requirements, and that the analysis to demonstrate plans and investments would not exceed thresholds was no longer necessary. (See Appendix IV)

Figure 5-4. Portland area air quality – circa 1970s



Figure 5-5. A clear day in Portland circa 2014



In addition, the region successfully completed its transportation control measures with the development and implementation of the 2018-2021 MTIP. The region committed to three TCMs to be completed from 2007-2017: 1) increase transit service; 2) build bicycle infrastructure; and 3) build pedestrian infrastructure in employment and population centers. With the investments allocated as part of the development of the 2018-2021 MTIP, the TCMs were completed.¹¹

The region's 2021-2024 MTIP is in compliance with the Clean Air Act. The region completed the implementation of TCMs and received confirmation that the region no longer needs to demonstrate planned or programmed investments will not exceed emission thresholds for federally regulated pollutants. The region remains committed and continues to comply with all other elements of the State Implementation Plan (SIP). As part of the region's SIP obligations, the region continues to monitor vehicle miles traveled annually, and commits to enact air pollution reduction contingency measures if the region's vehicle miles traveled rise above a certain threshold.

¹¹ The development of the 2018-2021 MTIP took place between 2015 through 2017.



Chapter 6: MTIP programming

Programming of funds refers to the assignment of transportation investments by project phase (e.g. planning, project development, final design, right-of-way and construction) to the types of federal funds and expected years of expenditure. Metro works in cooperation with all of the region's transportation agencies to select which transportation priority investments will be funded with federal transportation discretionary funds. To manage equitable access to federal funds, Metro staff coordinates with sponsoring agencies to determine the expected timing of project phases and seeks to schedule expected revenue to planned work phases in each year of the program. The goal is to assure that all federally funded projects are able to advance in a timely, logical fashion.

The transit agencies bases their programming of funds in the MTIP using the annual Adopted Budget single, upcoming year programming and the annual Financial Forecast for multi-year

programming. The federal transportation reauthorization plays a significant role in the financial forecast to develop multi-year programming. With the adoption of the Fixing America's Surface Transportation (FAST) Act in 2015, the transit agencies assume an increase generally around 2% annually under the transit formula program funding levels established by the Act throughout the legislation's final year and future years thereafter for the purposes of multi-year programming.

For Metro, and specifically for the projects and programs awarded regional flexible funds, which is using a six-year programming framework, this involves transportation funding being split into different fiscal years with preliminary engineering in years one and two, right-of-way acquisition in years three and four and construction in years five and six as a typical programming approach. It is very rare that a project can execute more than one phase of work in a single year.

Balancing project expenditures with annual revenue limits becomes more difficult when a single project requires a large sum to

ODOT and TriMet continue to use a four-year programming framework and as a result, the funding being split into different fiscal year by phase is condensed.

complete one or more phases of work in one year. A project that requires more than \$5 to \$6 million can make it difficult for other more modest projects to proceed in a given year. The volume of project work that can proceed in any one year must fall within the revenue that is available that year, including conditional access to statewide resources. (See fiscal constraint discussion in Chapter 5.)

The regional flexible funds are awarded by Metro to a lead agency, which then contracts with ODOT to obtain access to the funds. The lead agencies are ultimately responsible for the operation and maintenance of newly constructed facilities.

ODOT's process for scheduling and programming projects in the MTIP and STIP varies depending on the project delivery method. For ODOT delivered projects, the draft list of scoped projects included in the STIP are given to the region project delivery team so they can analyze the list with ongiong and planned projects. Schedules are determined to identify efficiencies, distribute funds and workloads as evenly as possible, and to avoid negative impacts to the travelling public in construction. For local agency delivered projects, ODOT double-checks and accepts the local agency determined schedule for programming in the MTIP and STIP. The ODOT STIP is on a 4-year cycle, so if funding is programmed in the MTIP beyond the fourth year of the STIP, it simply will not show those funds until the next STIP is developed.

The next several pages include the programming for projects scheduled to receive federal funds in the Portland Metropolitan region during federal fiscal years 2021-2024.² The transportation investments are organized by lead agency and are in alphabetical order.

The following table describes the frequently used terms in the MTIP programming tables.

Table 6-1. Frequently used terms in the 2021-2024 MTIP programming
With the exception of those projects awarded 2022-2024 regional flexible funds, where programming is shown through federal fiscal year 2026 as described in Chapter 5.

To view the programming tables for federal fiscal years 2021 through 2026, rotate the document from landscape view to portrait view.

Table 6-1. Frequently used terms in the 2021-2024 MTIP programming tables

ODOT Key Number	This is a unique identification number assigned to a program or a project by the ODOT to organize all transportation projects within the State Transportation Improvement Program (STIP)
MTIP ID	This is a unique identification number assigned to a program or project by the MPO (Metro) to organize all transportation projects within the Metropolitan Transportation Improvement Program (MTIP).
RTPID	This is a unique identification number assigned to a program or project by the MPO (Metro) to organize all transportation projects within the long range Regional Transportation Plan.
Project Name	The name of each project, which typically indicates the project location.
Project Type	This indicates the primary travel mode(s) the project will serve.
Lead Agency	The agency that is contractually responsible for managing and delivering the project.
Phase	The type of work being completed on the project. Includes:
	Planning: activities associated with preparing for projects for implementation, from broad systems planning to project development activities.
	Preliminary engineering: work to create construction and environmental documents.
	Right of way: activities associated with investigating needs for use of land for the construction or operation of a project.
	Construction: activities associated with the physical construction of a project.
	Other: Activities for programs or projects not defined by one of the other phase activities defined above.
Year	The programming year is the federal fiscal year funds are expected to be available for the project. The federal fiscal year begins October 1st of the year prior to the identified year (FFY 2021 is October 1, 2020 through September 30, 2021).
Fund Type	Description of the federal, state or local funds assigned to a project phase. See the List of Acronyms for more information on individual fund types.
Federal Amount	Federal funding authority made available to a project to reimburse eligible project related expenses.
Minimum Local Match	Funding required to be provided by the lead agency to qualify for the federal funding authority programmed to the project.
Other Amount	Additional funding from non-federal sources identified as available to the project.
Total Amount	The amount of funding programmed as available to the project within the timeframe of the 2021-2024 Metropolitan Transportation Improvement Program.
Estimated Total Project Cost	This includes cost of the project spent prior to 2021 and costs that may be necessary to complete the project after 2024.
YOE\$	All funds programmed in the FY21-24 MTIP are represented in year of expenditure (YOE) dollars.
-	



LEAD AGENCY	ENCY	Beaverton	erton				
PROJECT NAME	NAME	OR21(OR210: SW Scholls Ferry Rd to SW Hall ITS	all ITS			
Project IDs	t IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21121	Implem	Implement Adaptive Signal Control Technologies (ASCT) to adjust traffic signal to	chnologies (ASC	T) to adjust tra	offic signal to	Transportation
MTIP ID	71018	actual c traffic m	actual conditions. ASCT continuously distributes green light time equitably to all traffic movement and therefore helps to reduce congestion.	istributes greer o reduce conge	n light time equ estion.	itably to all	System Management
RTP ID				1			Operations
Phase	, Se	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary engineering	ngineering	2021	STP - Urban	\$134,595	\$15,405	0\$	\$150,000
Construction		2021	STP - Urban	\$304,939	\$34,902	0\$	\$339,841
			FY 21-26 Totals	\$439,534	\$50,307	0\$	\$489,841
			Prior Years' Totals	\$310,466	\$35,534	0\$	\$346,000
		Ü	Estimated Project Cost (YOE\$)	\$750,000	\$85,841	0\$	\$835,841

LEAD /	LEAD AGENCY	Beaverton	erton				
PROJEC	PROJECT NAME	Pedes	Pedestrian & Bike improvements (Beaverton)	eaverton)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21625	Install	Install lighting pedestrian signal modifications green conflict markings and	ications green c	conflict marking	s and	Roadway and
MTIP ID	71179	advance	advance warning signs to improve safety for pedestrians and bicycle riders.	ty for pedestria	ins and bicycle r	iders.	bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2022	HSIP (92.22)	\$67,927	\$5,731	0\$	\$73,658
Construction	u	2023	HSIP (92.22)	\$623,868	\$52,632	0\$	\$676,500
			FY 21-26 Totals	\$691,795	\$58,363	0\$	\$750,158
		В	Estimated Project Cost (YOE\$)	\$691,795	\$58,363	0\$	\$750,158

LEAD A	LEAD AGENCY	Beaverton	rton				
PROJEC	PROJECT NAME	Systen	Systemic Signals and Illumination (Beaverton)	eaverton)			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	20374	Improve	mprovements at various intersections in the City of Beaverton including signals	s in the City of B	eaverton inclu	ding signals	Roadway and
MTIP ID	70956	Ighting (ighting signing and curb ramp upgrades to improve safety.	es to improve sa	itety.		bridge
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ht of way	2021	HSIP (92.22)	\$32,277	\$2,723	0\$	\$35,000
Other		2021	HSIP (92.22)	\$225,939	\$19,061	0\$	\$245,000
Construction	ر	2021	HSIP (92.22)	\$1,025,349	\$86,502	0\$	\$1,111,851
			FY 21-26 Totals	\$1,283,565	\$108,286	0\$	\$1,391,851
			Prior Years' Totals	\$626,865	\$52,885	0\$	\$679,750
		Es	Estimated Project Cost (YOE\$)	\$1,910,430	\$161,171	0\$	\$2,071,601



		Project Type	Roadway and	bridge		Total Amount		\$295,001	\$295,001	\$280,000	\$575,001
			a)	lize		Other	Amount	0\$	0\$	\$0	\$0
			cus north of the	ponse to stabili		Minimum	Local Match	\$30,297	\$30,297	\$28,756	\$59,053
		Project Description	south of Damas	ency Reliet Res		Federal	Amount	\$264,704	\$264,704	\$251,244	\$515,948
Clackamas County	232nd Drive at MP 0.3	Project	On SE 232nd Dr in Clackamas County South of Damascus north of the	OR224/SE232nd Dr intersection Emergency Relief Response to stabilize reconstruct and reinforce roadway		Fund Type		Emergency Relief	FY 21-26 Totals	Prior Years' Totals	Estimated Project Cost (YOE\$)
Clack	232nd		On SE 2	OR224/ reconst		Year		2021			Ш
LEAD AGENCY	CT NAME	ect IDs	21221	71038	038			u			
LEAD /	PROJECT NAME	Project IDs	орот кеу	MTIP ID	RTP ID	Phase		Construction			

LEAD /	LEAD AGENCY	Clack	Clackamas County				
PROJEC	PROJECT NAME	Clacke	Clackamas County Regional Freight ITS - Phase 2B	ITS - Phase 2B			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22129	Comple	Complete Freight ITS Action Plan improvements including installation of truck	ovements inclu	ding installatior	າ of truck	Transportation
MTIP ID	71101	signal p count st	signal priorities signal UPS battery back-up traffic surveillance camera systems count stations travel time measurement sensors and deployment of portable	k-up traffic surv nt sensors and d	eillance camera leployment of g	ı systems oortable	System Management
RTP ID		monitor	monitoring trailer				Operations
Ηd	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2022	STBG-URBAN	\$200,000	\$22,891	0\$	\$222,891
Construction	u	2024	STBG-URBAN	\$1,019,815	\$116,722	\$610,972	\$1,747,509
			FY 21-26 Totals	\$1,219,815	\$139,613	\$610,972	\$1,970,400
		Е	Estimated Project Cost (YOE\$)	\$1,219,815	\$139,613	\$610,972	\$1,970,400

LEAD /	LEAD AGENCY	Clack	Clackamas County				
PROJEC	PROJECT NAME	Court	Courtney Ave Complete Street: River Rd - OR99E	r Rd - OR99E			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	22131	On Con	On Courtney Ave from River Rd to OR99E construct separated sidewalks bike	99E construct se	parated sidewa	alks bike	Active
MTIP ID	71097	lanes st enhance	lanes storm water management rain gardens ADA improvements and crosswalk enhancements.	ardens ADA imp	rovements and	crosswalk	Transportation
RTP ID	11525						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2022	CMAQ - URBAN	\$921,814	\$105,506	0\$	\$1,027,320
Purchase right of way	ght of way	2024	CMAQ - URBAN	\$608,818	\$69,682	0\$	\$678,500
Other		2024	CMAQ - URBAN	\$89,730	\$10,270	0\$	\$100,000
Construction	u	2026	CMAQ - URBAN	\$3,459,630	\$395,970	\$0	\$3,855,600
			FY 21-26 Totals	\$5,079,992	\$581,428	0\$	\$5,661,420
		Ш	Estimated Project Cost (YOE\$)	\$5,079,992	\$581,428	\$0	\$5,661,420



LEAD A	LEAD AGENCY	Clack	Clackamas County				
PROJECT NAME	T NAME	Jennin	Jennings Ave: OR 99E to Oatfield Rd				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	19276	Constru	Construct sidewalk on the north side of the road and bike lanes on both sides of	of the road and	bike lanes on b	oth sides of	Pedestrian
MTIP ID	70674	the roac with nea	the road to provide safe bicycle and pedestrian facilities to connect local residents with nearby schools businesses and transportation options.	edestrian facilitie ansportation opt	es to connect k tions.	ocal residents	
RTP ID		Т	•				
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ht of way	2021	STP - Urban	\$403,785	\$46,215	0\$	\$450,000
Construction		2021	STP - Urban	\$2,638,253	\$301,960	0\$	\$2,940,213
			FY 21-26 Totals	\$3,042,038	\$348,175	0\$	\$3,390,213
			Prior Years' Totals	\$583,245	\$66,755	0\$	\$650,000
		ű	Estimated Project Cost (YOE\$)	\$3,625,283	\$414,930	0\$	\$4,040,213

LEAD /	LEAD AGENCY	Clack	Clackamas County				
PROJEC	PROJECT NAME	S Red	S Redland Rd: OR213 - Springwater Rd (Clackamas County)	Rd (Clackamas	County)		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21621	Install	Install high friction surface treatment (HFST) signs and edgeline/fog line markings	(HFST) signs and	d edgeline/fog li	ne markings	Roadway and
MTIP ID	71175	on curv	on curves to improve driver control in this area.	this area.			bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2022	HSIP (92.22)	\$35,117	\$2,963	0\$	\$38,080
Construction	u	2023	HSIP (92.22)	\$273,228	\$23,050	0\$	\$296,278
			FY 21-26 Totals	\$308,345	\$26,013	0\$	\$334,358
		نف	Estimated Project Cost (YOE\$)	\$308,345	\$26,013	0\$	\$334,358

LEAD	LEAD AGENCY	Clack	Clackamas County				
PROJE	PROJECT NAME	SE Joh	SE Johnson Creek Blvd: 79th Pl - 82nd Ave (Clackamas County)	d Ave (Clackam	as County)		
Proj	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21636	Install a	Install a signal at 79th Ave. Allow only right-in right-out movement at 80th Ave	right-in right-ou	ut movement a	t 80th Ave	Roadway and
MTIP ID	71190	and the	and the Fred Meyer driveway to increase safety at these locations.	ase safety at the	se locations.		bridge
RTP ID	11763	T.					
Ā	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$110,690	\$6,338	0\$	\$120,028
Purchase right of way	ght of way	2022	HSIP (92.22)	\$127,539	\$10,760	0\$	\$138,299
Construction	u	2024	HSIP (92.22)	\$1,222,207	\$103,110	0\$	\$1,325,317
			FY 21-26 Totals	\$1,460,436	\$123,208	0\$	\$1,583,644
		Ш	Estimated Project Cost (YOE\$)	\$1,460,436	\$123,208	0\$	\$1,583,644

MTIP Programming Tables (MTIP) And Matropolitan Transportation Improvement Program (MTIP) Current Approved Project List with Approved Amendments



LEAD AGENCY	GENCY	Clack	Clackamas County				
PROJECT NAME	T NAME	Syster	Systemic Signals and Illumination (Clackamas)	lackamas)			
Projec	Project IDs		Project	Project Description			Project Type
ODOT KEY	20336	Safety	Safety projects at various locations. Work may include illumination; intersection	ork may include	e illumination; i	intersection	Roadway and
MTIP ID	70951	work; b warning	work; bike and pedestrian improvements; ADA upgrades; signal work; signs; warnings; striping; medians; utility relocation; and other safety improvements.	nts; ADA upgrac ocation; and oth	les; signal work er safety imprc	;; signs; vements.	bridge
RTP ID							
Phase	ase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	HSIP (100%)	\$830,810	0\$	\$70,090	\$900,900
			FY 21-26 Totals	\$830,810	0\$	\$70,090	\$900,900
			Prior Years' Totals	\$182,595	0\$	\$15,405	\$198,000
		Е	Estimated Project Cost (YOE\$)	\$1,013,405	0\$	\$85,495	\$1,098,900

LEAD ,	LEAD AGENCY	Clack	Clackamas County				
PROJEC	PROJECT NAME	Trolle	Trolley Tr Bridge: Portland Ave-Black River Greenway Tr	k River Greenwa	ay Tr		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22139	Comple	Complete project development NEPA environmental engineering plans	environmental	engineering pla	Sue	Active
MTIP ID	71089	specifica Clackam	specifications and cost estimates to construct a new Irolley Irail Bridge across the Clackamas River	nstruct a new I	rolley Trail Bric	ige across the	Iransportation
RTP ID	10151						
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2022	STBG-URBAN	\$1,228,800	\$140,642	0\$	\$1,369,442
			FY 21-26 Totals	\$1,228,800	\$140,642	0\$	\$1,369,442
		Ŭ	Estimated Project Cost (YOE\$)	\$1,228,800	\$140,642	\$0	\$1,369,442

LEAD /	LEAD AGENCY	Fores	Forest Grove				
PROJEC	PROJECT NAME	Counc	Council Creek Tr: Douglas St-Hatfield Govt Ctr	1 Govt Ctr			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22130	Comple	Complete Project activities to construct the future 6-mile Council Creek Trail along	ct the future 6-r	nile Council Cre	eek Trail along	Active
MTIP ID	71096	the PNV Governi	the PNWK corridor from Douglas St in Forest Grove east to Hillsboro Hatfield Government Center Max	Forest Grove ea	ist to Hillsboro	Hattield	Iransportation
RTP ID	10806						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2022	STBG-URBAN	\$1,345,950	\$154,050	0\$	\$1,500,000
			FY 21-26 Totals	\$1,345,950	\$154,050	0\$	\$1,500,000
		В	Estimated Project Cost (YOE\$)	\$1,345,950	\$154,050	0\$	\$1,500,000



LEAD AGENCY	NCY	Gresham	iam				
PROJECT NAME	AME	Lightir	Lighting and Rectangular Rapid Flash Beacons (Gresham)	ו Beacons (Gres	sham)		
Project IDs	Ds		Project	Project Description			Project Type
орот кеу	21628	Install	Install lighting and rectangular rapid flash beacons (RRFBs) with warning signs to	ash beacons (RI	RFBs) with warr	ing signs to	Roadway and
MTIP ID	71182	increase	ncrease visibility and improve safety for pedestrians	or pedestrians			bridge
RTP ID							
Phase		Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary engineering	ineering	2021	HSIP (92.22)	\$62,095	\$5,239	0\$	\$67,334
Purchase right of way	ıf way	2022	HSIP (92.22)	\$5,821	\$491	0\$	\$6,312
Construction		2023	HSIP (92.22)	\$511,070	\$43,116	\$0	\$554,186
			FY 21-26 Totals	\$578,986	\$48,846	0\$	\$627,832
		نف	Estimated Project Cost (YOE\$)	\$578,986	\$48,846	0\$	\$627,832

LEAD /	LEAD AGENCY	Gresham	nam				
PROJEC	PROJECT NAME	NE Cle	NE Cleveland Ave.: SE Stark St - NE Burnside	Surnside			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	20808	Comple	Complete phase two of the project by improving substandard section of Cleveland	improving subs	tandard section	of Cleveland	Roadway and
MTIP ID	70878	Ave bet sidewall	Ave between Stark and Burnside. Project will fill gap in by providing bike lanes sidewalks curbs and gutters to improve safety and accessability.	ect will till gap in e safety and aco	ı by providing b essability.	ike lanes	bridge
RTP ID	11096				•		
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amonnt	
Construction	L	2021	CMAQ - URBAN	\$2,313,096	\$264,744	\$687,528	\$3,265,368
			FY 21-26 Totals	\$2,313,096	\$264,744	\$687,528	\$3,265,368
			Prior Years' Totals	\$828,060	\$94,775	0\$	\$922,835
		ш	Estimated Project Cost (YOE\$)	\$3,141,156	\$359,519	\$687,528	\$4,188,203

LEAD	LEAD AGENCY	Gresham	nam				
PROJE	PROJECT NAME	NW D	NW Division Complete St Phase I: Wallula Ave-Birdsdale Ave	/allula Ave-Birdঃ	sdale Ave		
Proje	Project IDs		Project	Project Description			Project Type
ОDOT КЕУ	16986	Phase 1	Phase 1 (of 2 phases) to extend NW Division St between NW Wallula Ave and NW	ivision St betwe	en NW Wallula	Ave and NW	Active
MTIP ID	70542	Birdsda improve	Birdsdale Ave with active transportation improvements to include ADA improvements sidewalks (gap fills) curbs curb ramps and bike lanes	on improvement bs curb ramps a	s to include AD nd bike lanes	٩	Transportation
RTP ID				•			
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ght of way	2022	CMAQ - URBAN	\$1,076,760	\$123,240	0\$	\$1,200,000
Other		2022	CMAQ - URBAN	\$89,730	\$10,270	0\$	\$100,000
Construction	u	2024	CMAQ - URBAN	\$3,361,733	\$384,765	\$720,172	\$4,466,670
			FY 21-26 Totals	\$4,528,223	\$518,275	\$720,172	\$5,766,670
			Prior Years' Totals	\$891,997	\$102,093	\$100,000	\$1,094,090
		Ш	Estimated Project Cost (YOE\$)	\$5,420,220	\$620,368	\$820,172	\$6,860,760

MTIP Programming Tables (MTIP) And Matropolitan Transportation Improvement Program (MTIP) Current Approved Project List with Approved Amendments



LEAD A	LEAD AGENCY	Happ	Happy Valley				
PROJEC	PROJECT NAME	SE 125	SE 129th Avenue - Bike Lane and Sidewalk Project	lewalk Project			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	19280	The prc	The project will build a sidewalk and add bike lanes along SE 129th Avenue.	ıdd bike lanes al	long SE 129th /	Avenue.	Active
MTIP ID	70683						Transportation
RTP ID	10081						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	۵	2021	TAP Metro	\$318,740	\$36,481	0\$	\$355,221
Construction	u	2021	OTHER	0\$	0\$	\$1,015,372	\$1,015,372
Construction	u	2021	STP - Urban	\$1,738,727	\$199,005	0\$	\$1,937,732
			FY 21-26 Totals	\$2,057,467	\$235,486	\$1,015,372	\$3,308,325
			Prior Years' Totals	\$1,048,173	\$119,969	0\$	\$1,168,142
		Ü	Estimated Project Cost (YOE\$)	\$3,105,640	\$355,455	\$1,015,372	\$4,476,467

LEAD #	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	Corric	Corridor and Systems Planning (2021)	(1			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	20889	Corrido	Corridors and Systems Planning Program conducts planning level work in	ım conducts pla	anning level wo	rk in	System/corridor
MTIP ID	70871	corrido regiona	corridors. Emphasizes the integration of land use and transportation. Determines regional system needs functions desired outcomes performance measures	of land use and d outcomes per	transportation. rformance mea	. Determines sures	planning
RTP ID		investm	investment strategies.	-			
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2021	STBG-URBAN	\$571,070	\$65,362	0\$	\$636,432
			FY 21-26 Totals	\$571,070	\$65,362	0\$	\$636,432
		Е	Estimated Project Cost (YOE\$)	\$571,070	\$65,362	0\$	\$636,432

LEAD,	LEAD AGENCY	Metro	0				
PROJE	PROJECT NAME	Freigh	Freight and Economic Development Planning (FFY 2022)	Planning (FFY 2	(022)		
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22145	Region	Regional planning to support freight systems planning and economic development	ystems planning	gand economic	development	Freight
MTIP ID	71118	plannin	planning activities.				
RTP ID		T					
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2022	STBG-URBAN	\$74,263	\$8,500	0\$	\$82,763
			FY 21-26 Totals	\$74,263	\$8,500	0\$	\$82,763
		Ē	Estimated Project Cost (YOE\$)	\$74,263	\$8,500	0\$	\$82,763

MTIP Programming Tables (MTIP) And Matropolitan Transportation Improvement Program (MTIP) Current Approved Project List with Approved Amendments



LEAD A	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	Freigh	Freight and Economic Development Planning (FFY 2023)	Planning (FFY 2	(023)		
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	22146	Regiona	Regional planning to support freight systems planning and economic development	/stems planning	g and economic	development	Freight
MTIP ID	71119	glanning	planning activities.				
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2023	STBG-URBAN	\$76,491	\$8,755	0\$	\$85,246
			FY 21-26 Totals	\$76,491	\$8,755	0\$	\$85,246
		Es	Estimated Project Cost (YOE\$)	\$76,491	\$8,755	0\$	\$85,246

LEAD /	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	Freigh	Freight and Economic Development Planning (FFY 2024)	Planning (FFY 2	(024)		
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22147	Regiona	Regional planning to support freight systems planning and economic development	/stems planning	gand economic	development	Freight
MTIP ID	71120	planning	planning activities.				
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2024	STBG-URBAN	\$78,786	\$9,017	0\$	\$87,803
			FY 21-26 Totals	\$78,786	\$9,017	0\$	\$87,803
		E	Estimated Project Cost (YOE\$)	\$78,786	\$9,017	0\$	\$87,803

LEAD /	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	Next (Next Corridor Planning (FFY 2022)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22154	Funds t	Funds to contribute toward development of prioritized transportation	ent of prioritize	d transportatio	uı.	System/corridor
MTIP ID	71111	improve	mprovements and funding strategy for the region's next priority corridor.	r the region's ne	ext priority corr	idor.	planning
RTP ID		T					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2022	STBG-URBAN	\$588,202	\$67,322	\$0	\$655,524
			FY 21-26 Totals	\$588,202	\$67,322	0\$	\$655,524
		Е	Estimated Project Cost (YOE\$)	\$588,202	\$67,322	0\$	\$655,524



LEAD #	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	Next C	Next Corridor Planning (FFY 2023)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22155	Funds t	Funds to contribute toward development of prioritized transportation	ent of prioritize	d transportatic	n.	System/corridor
MTIP ID	71112	improve	mprovements and funding strategy for the region's next priority corridor.	r the region's ne	ext priority cori	idor.	planning
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2023	STBG-URBAN	\$605,848	\$69,342	0\$	\$675,190
			FY 21-26 Totals	\$605,848	\$69,345	0\$	\$675,190
		ŭ	Estimated Project Cost (YOE\$)	\$605,848	\$69,342	\$0	\$675,190

LEAD ,	LEAD AGENCY	Metro					
PROJE(PROJECT NAME	Next C	Next Corridor Planning (FFY 2024)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22156	Funds to	Funds to contribute toward development of prioritized transportation	ent of prioritize	ed transportatio	nc :	System/corridor
MTIP ID	71113	ımprove	mprovements and funding strategy for the region's next priority corridor.	r the region's n(ext priority cor	ridor.	planning
RTP ID		T					
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2024	STBG-URBAN	\$624,024	\$71,422	0\$	\$695,446
			FY 21-26 Totals	\$624,024	\$71,422	0\$	\$695,446
		Es	Estimated Project Cost (YOE\$)	\$624,024	\$71,422	0\$	\$695,446

LEAD A	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	Portla	Portland Metro Planning SFY22				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20597	Portlan	Portland Metro MPO planning funds for Federal fiscal year 2021. Projects will be	or Federal fiscal	year 2021. Prc	jects will be	Other
MTIP ID	98602	selected	selected in the future through the MPO process.	J process.			
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2021	Metro PL (5303)	\$618,917	\$70,838	0\$	\$689,755
Planning		2021	Metro Planning (2450)	\$1,907,827	\$218,359	\$0	\$2,126,186
			FY 21-26 Totals	\$2,526,744	\$289,197	0\$	\$2,815,941
		Е	Estimated Project Cost (YOE\$)	\$2,526,744	\$289,197	0\$	\$2,815,941



LEAD /	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	Region	Regional MPO Planning (2021)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20877	Funding	Funding for Metro to meet Metropolitan Planning Organization mandates	:an Planning Oทู	ganization man	dates	Other
MTIP ID	70872	establish	established through the federal regulations.	tions.			
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2021	STBG-URBAN	\$1,359,877	\$155,644	0\$	\$1,515,521
			FY 21-26 Totals	\$1,359,877	\$155,644	0\$	\$1,515,521
		Es	Estimated Project Cost (YOE\$) \$1,359,877	\$1,359,877	\$155,644	0\$	\$1,515,521

LEAD ,	LEAD AGENCY	Metro	Ć				
PROJE(PROJECT NAME	Regior	Regional MPO Planning (FFY 2022)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22151	Funding	Funding to support transportation planning activities and maintain compliance	nning activities	and maintain c	compliance	Regional Program
MTIP ID	71131	with fed	with Tederal planning regulations.				
RTP ID		I					
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2022	STBG-URBAN	\$1,400,673	\$160,313	0\$	\$1,560,986
			FY 21-26 Totals	\$1,400,673	\$160,313	0\$	\$1,560,986
		E	Estimated Project Cost (YOE\$)	\$1,400,673	\$160,313	0\$	\$1,560,986

LEAD A	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	Region	Regional MPO Planning (FFY 2023)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22152	Funding	Funding to support transportation planning activities and maintain compliance	nning activities	and maintain c	ompliance	Regional Program
MTIP ID	71132	with fec	with tederal planning regulations.				
RTP ID		ı					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2023	STBG-URBAN	\$1,442,694	\$165,123	\$0	\$1,607,817
			FY 21-26 Totals	\$1,442,694	\$165,123	0\$	\$1,607,817
		E	Estimated Project Cost (YOE\$) \$1,442,694	\$1,442,694	\$165,123	\$0	\$1,607,817



LEAD #	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	Region	Regional MPO Planning (FFY 2024)				
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	22153	Funding	Funding to support transportation planning activities and maintain compliance	nning activities	and maintain c	ompliance	Regional Program
MTIP ID	71133	with fed	with federal planning regulations.				
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2024	STBG-URBAN	\$1,485,975	\$170,076	0\$	\$1,656,051
			FY 21-26 Totals	\$1,485,975	\$170,076	0\$	\$1,656,051
		Es	Estimated Project Cost (YOE\$) \$1,485,975	\$1,485,975	\$170,076	0\$	\$1,656,051

LEAD	LEAD AGENCY	Metro					
PROJE	PROJECT NAME	Region	Regional Travel Options (2021)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20880	The Reg	The Regional Travel Options (RTO) program implements strategies to help	gram implemer	nts strategies to	delp	Regional travel
MTIP ID	70873	diversity	diversify trip choices reduce pollution and improve mobility.	and improve mo	obility.		options
RTP ID		T					
Pł	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	STBG-URBAN	\$2,676,405	\$306,327	0\$	\$2,982,732
			FY 21-26 Totals	\$2,676,405	\$306,327	0\$	\$2,982,732
		Es	Estimated Project Cost (YOE\$)	\$2,676,405	\$306,327	0\$	\$2,982,732

LEAD /	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	Regio	Regional Travel Options (RTO) program (FFY 2022)	am (FFY 2022)			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22157	The Reg	The Regional Travel Options (RTO) program implements strategies to help	gram implemen	its strategies to	help	Regional Program
MTIP ID	71106	diversity	diversify trip choices reduce pollution and improve mobility.	and improve mc	bility.		
RTP ID							
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2022	STBG-URBAN	\$2,756,697	\$315,516	\$0	\$3,072,213
			FY 21-26 Totals	\$2,756,697	\$315,516	0\$	\$3,072,213
		Ш	Estimated Project Cost (YOE\$) \$2,756,697	\$2,756,697	\$315,516	0\$	\$3,072,213



LEAD #	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	Regior	Regional Travel Options (RTO) program (FFY 2023)	am (FFY 2023)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22158	The Reg	The Regional Travel Options (RTO) program implements strategies to help	gram implemer	its strategies to	delp c	Regional Program
MTIP ID	71107	diversity	diversify trip choices reduce pollution and improve mobility.	and improve mo	obility.		
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2023	STBG-URBAN	\$2,839,398	\$324,982	0\$	\$3,164,380
			FY 21-26 Totals	\$2,839,398	\$324,982	0\$	\$3,164,380
		ŭ	Estimated Project Cost (YOE\$) \$2,839,398	\$2,839,398	\$324,982	0\$	\$3,164,380

LEAD,	LEAD AGENCY	Metro					
PROJE(PROJECT NAME	Region	Regional Travel Options (RTO) program (FFY 2024)	am (FFY 2024)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22159	The Regi	The Regional Travel Options (RTO) program implements strategies to help	gram implemer	its strategies tα) help	Regional Program
MTIP ID	71108	diversity	diversify trip choices reduce pollution and improve mobility.	and improve mo	obility.		
RTP ID		T					
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2024	STBG-URBAN	\$2,924,580	\$334,731	0\$	\$3,259,311
			FY 21-26 Totals	\$2,924,580	\$334,731	0\$	\$3,259,311
		Esi	Estimated Project Cost (YOE\$)	\$2,924,580	\$334,731	0\$	\$3,259,311

LEAD #	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	Safe R	Safe Routes to Schools program (FFY 2022)	, 2022)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22160	Promot	Promotes through planning funding and outreach activities the ability for youth to Regional Program	nd outreach act	vities the abilit	y for youth to	Regional Program
MTIP ID	71109	sarely a	sately affordably and efficiently access school by walking biking and transit.	school by walki	ng biking and t	ransit.	
RTP ID		1					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2022	STBG-URBAN	\$530,450	\$60,712	0\$	\$591,162
			FY 21-26 Totals	\$530,450	\$60,712	0\$	\$591,162
		E	Estimated Project Cost (YOE\$)	\$530,450	\$60,712	0\$	\$591,162



LEAD #	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	Safe R	Safe Routes to Schools program (FFY 2023)	. 2023)			
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	22161	Promot	Promotes through planning funding and outreach activities the ability for youth to Regional Program	nd outreach act	ivities the abilit	ty for youth to	Regional Program
MTIP ID	71114	sately at	safely affordably and efficiently access school by walking biking and transit.	school by walki	ng biking and t	ransit.	
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2023	STBG-URBAN	\$546,364	\$62,534	0\$	\$608,898
			FY 21-26 Totals	\$546,364	\$62,534	0\$	\$68,809\$
		Es	Estimated Project Cost (YOE\$)	\$546,364	\$62,534	0\$	\$68,809\$

LEAD	LEAD AGENCY	Metro					
PROJE	PROJECT NAME	Safe Ro	Safe Routes to Schools program (FFY 2024)	, 2024)			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	22162	Promote	Promotes through planning funding and outreach activities the ability for youth to Regional Program	nd outreach act	ivities the abilit	ty for youth to	Regional Program
MTIP ID	71110	sately at	safely affordably and efficiently access school by walking biking and transif.	school by walki	ng biking and t	ransit.	
RTP ID							
Pł	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2024	STBG-URBAN	\$562,754	\$64,410	0\$	\$627,164
			FY 21-26 Totals	\$562,754	\$64,410	0\$	\$627,164
		Es	Estimated Project Cost (YOE\$)	\$562,754	\$64,410	\$0	\$627,164

LEAD /	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	Statev	Statewide Travel Survey				
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22172	Contrib	Contribution to statewide travel survey to inform travel forecasting models.	y to inform trav	el forecasting r	nodels.	Other
MTIP ID	71105	I					
RTP ID		T					
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2022	STBG-URBAN	\$350,000	\$40,059	\$0	\$390,059
			FY 21-26 Totals	\$350,000	\$40,059	0\$	\$390,059
		نف	Estimated Project Cost (YOE\$)	\$350,000	\$40,059	0\$	\$390,059



LEAD /	LEAD AGENCY	Metro	Ĉ				
PROJEC	PROJECT NAME	Transi	Transit Oriented Development (TOD) program (FFY 2022)) program (FFY	2022)		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22163	Partner	Partner with developers and local jurisdictions to attract private development	sdictions to attr	act private dev	elopment	Transit oriented
MTIP ID	71102	near tra regional	near transit stations to reduce auto trips and improve the cost-effectiveness of regional transit investments.	ps and improve	the cost-effect	iveness of	development
RTP ID		١					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2022	STBG-URBAN	\$3,495,507	\$400,076	0\$	\$3,895,583
			FY 21-26 Totals	\$3,495,507	\$400,076	0\$	\$3,895,583
		Ш	Estimated Project Cost (YOE\$)	\$3,495,507	\$400,076	0\$	\$3,895,583

LEAD ,	LEAD AGENCY	Metro	C				
PROJEC	PROJECT NAME	Transi	Transit Oriented Development (TOD) program (FFY 2023)) program (FFY	2023)		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22164	Partner	Partner with developers and local jurisdictions to attract private development	sdictions to attr	act private deve	elopment	Transit oriented
MTIP ID	71103	near tra regional	near transit stations to reduce auto trips and improve the cost-effectiveness of regional transit investments.	ps and improve	the cost-effect	veness of	development
RTP ID		ı					
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2023	STBG-URBAN	\$3,600,373	\$412,079	\$0	\$4,012,452
			FY 21-26 Totals	\$3,600,373	\$412,079	0\$	\$4,012,452
		Ę	Estimated Project Cost (YOE\$)	\$3,600,373	\$412,079	0\$	\$4,012,452

LEAD /	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	Transi	Transit Oriented Development (TOD) program (FFY 2024)) program (FFY	2024)		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22165	Partne	Partner with developers and local jurisdictions to attract private development	sdictions to attra	act private dev	elopment	Transit oriented
MTIP ID	71104	near tra regional	near transit stations to reduce auto trips and improve the cost-effectiveness of regional transit investments.	ps and improve	the cost-effect	iveness of	development
RTP ID)					
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2024	STBG-URBAN	\$3,708,384	\$424,441	\$0	\$4,132,825
			FY 21-26 Totals	\$3,708,384	\$424,441	0\$	\$4,132,825
		Ш	Estimated Project Cost (YOE\$) \$3,708,384	\$3,708,384	\$424,441	0\$	\$4,132,825



LEAD /	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	Transi	Transit Oriented Development Program (2021)	ram (2021)			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	20883	The TOI	The TOD program works directly with developers and local jurisdictions to create	developers and	local jurisdiction	ons to create	Transit oriented
MTIP ID	70874	vibrant (vibrant downtowns main streets and station areas by helping to change land use patterns near transit.	tation areas by .	helping to chai	nge land use	development
RTP ID	10855						
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	LOCAL	0\$	0\$	\$0 \$3,393,696	\$3,393,696
			FY 21-26 Totals	0\$	0\$	\$0 \$3,393,696	\$3,393,696
		Ę	Estimated Project Cost (YOE\$)	0\$	0\$	969'868'8\$ 0\$	969'868'8\$

LEAD ,	LEAD AGENCY	Metro	0.				
PROJE(PROJECT NAME	Trans	Transportation System Management & Operations (TSMO) Program 2018	t & Operations	(TSMO) Progra	ım 2018	
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	19289	The Tra	The Transportation System Management & Operations (TSMO) program	ent & Operatior	is (TSMO) prog	ram	Transportation
MTIP ID	70671	coordin	coordinates both the planning and implementation of the regions system management and operations strategies to enhance multi-modal mobility for	olementation of s to enhance mu	the regions sy: ulti-modal mob	stem ility for	System Management
RTP ID	11104	people	people and goods.				Operations
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	STP - Urban	\$200,000	\$22,891	0\$	\$222,891
			FY 21-26 Totals	\$200,000	\$22,891	0\$	\$222,891
		E	Estimated Project Cost (YOE\$)	\$200,000	\$22,891	0\$	\$222,891

LEAD /	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	Trans	Transportation System Mgmt Operations/ITS (2019)	tions/ITS (2019	(
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	20884	Provide	Provide strategic and collaborative program management including coordination	ogram managen	nent including	coordination	Transportation
MTIP ID	70875	of activ	of activities for TransPort TSMO committee;	nttee;			System Management
RTP ID	11104						Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	STBG-URBAN	\$1,693,574	\$193,837	0\$	\$1,887,411
			FY 21-26 Totals	\$1,693,574	\$193,837	0\$	\$1,887,411
		ш	Estimated Project Cost (YOE\$) \$1,693,574	\$1,693,574	\$193,837	0\$	\$1,887,411



LEAD /	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	Trans	Transportation System Mgmt Operations/ITS (2020)	tions/ITS (2020	()		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	58807	Provide	Provide strategic and collaborative program management including coordination	ogram managen	nent including o	coordination	Transportation
MTIP ID	70875	of activi	of activities for TransPort TSMO committee;	iittee;			System Management
RTP ID	11104						Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	STBG-URBAN	\$1,744,598	\$199,677	0\$	\$1,944,275
			FY 21-26 Totals	\$1,744,598	\$199,677	0\$	\$1,944,275
		ŭ	Estimated Project Cost (YOE\$)	\$1,744,598	\$199,677	0\$	\$1,944,275

LEAD	LEAD AGENCY	Metro	O				
PROJE	PROJECT NAME	Trans	Transportation System Mgmt Operations/ITS (2021)	tions/ITS (2021	(
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	20886	Provide	Provide strategic and collaborative program management including coordination	ogram manager	nent including o	coordination	Transportation
MTIP ID	70875	of activ	of activities for TransPort TSMO committee;	ittee;			System Management
RTP ID	11104	1					Operations
Pł	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	STBG-URBAN	\$1,801,828	\$206,227	\$0	\$2,008,055
			FY 21-26 Totals	\$1,801,828	\$206,227	0\$	\$2,008,055
		Э	Estimated Project Cost (YOE\$)	\$1,801,828	\$206,227	0\$	\$2,008,055

LEAD /	LEAD AGENCY	Metro	0				
PROJEC	PROJECT NAME	TSMC	TSMO Administration (FFY 2022)				
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	22169	Admini	Administration of the regional TSMO program; providing program strategy and	orogram; provid	ing program st	rategy and	Transportation
MTIP ID	71124	direction ac committee.	direction administration of grant allocations and staffing of the Transport committee.	ations and staffi	ng ot the Trans	port	System Management
RTP ID							Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2022	STBG-URBAN	\$188,707	\$21,598	\$0	\$210,305
			FY 21-26 Totals	\$188,707	\$21,598	0\$	\$210,305
		Ш	Estimated Project Cost (YOE\$)	\$188,707	\$21,598	0\$	\$210,305



LEAD	LEAD AGENCY	Metro	O				
PROJE	PROJECT NAME	TSMO	TSMO Administration (FFY 2023)				
Proj	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22170	Admini	Administration of the regional TSMO program; providing program strategy and	rogram; provid	ing program sti	rategy and	Transportation
MTIP ID	71125	direction ac committee.	direction administration of grant allocations and staffing of the Transport committee.	ations and staffi	ng ot the Irans	port	System Management
RTP ID							Operations
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2023	STBG-URBAN	\$194,369	\$22,246	0\$	\$216,615
			FY 21-26 Totals	\$194,369	\$22,246	0\$	\$216,615
		Ш	Estimated Project Cost (YOE\$)	\$194,369	\$22,246	0\$	\$216,615

LEAD #	LEAD AGENCY	Metro	Ć				
PROJEC	PROJECT NAME	TSMO	TSMO Administration (FFY 2024)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22171	Adminis	Administration of the regional TSMO program; providing program strategy and	rogram; provid	ing program sti	rategy and	Transportation
MTIP ID	71126	direction ac committee.	direction administration of grant allocations and staffing of the Transport committee.	ations and staffi	ng of the Irans	port	System Management
RTP ID							Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2024	STBG-URBAN	\$200,200	\$22,914	\$0	\$223,114
			FY 21-26 Totals	\$200,200	\$22,914	0\$	\$223,114
		Ě	Estimated Project Cost (YOE\$)	\$200,200	\$22,914	0\$	\$223,114

LEAD /	LEAD AGENCY	Metro	C				
PROJEC	PROJECT NAME	TSMO	TSMO Program Sub-allocation Funds (FFY 2022)	s (FFY 2022)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22166	Region	Regional Transportation System Management & Operations (TSMO) program.	gement & Oper	ations (TSMO)	program.	Transportation
MTIP ID	71115						System Management
RTP ID		ı					Operations
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2022	STBG-URBAN	\$1,667,158	\$190,814	\$0	\$1,857,972
			FY 21-26 Totals	\$1,667,158	\$190,814	0\$	\$1,857,972
		نت	Estimated Project Cost (YOE\$) \$1,667,158	\$1,667,158	\$190,814	0\$	\$1,857,972



LEAD	LEAD AGENCY	Metro					
PROJE	PROJECT NAME	TSMO	TSMO Program Sub-allocation Funds (FFY 2023)	s (FFY 2023)			
Proj	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22167	Regiona	Regional Transportation System Management & Operations (TSMO) program.	agement & Oper	rations (TSMO)	program.	Transportation
MTIP ID	71116	T					System Management
RTP ID							Operations
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2023	STBG-URBAN	\$1,717,173	\$196,538	0\$	\$1,913,711
			FY 21-26 Totals	\$1,717,173	\$196,538	0\$	\$1,913,711
		Ę	Estimated Project Cost (YOE\$)	\$1,717,173	\$196,538	0\$	\$1,913,711

LEAD .	LEAD AGENCY	Metro					
PROJEC	PROJECT NAME	TSMO	TSMO Program Sub-allocation Funds (FFY 2024)	s (FFY 2024)			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	22168	Regiona	Regional Transportation System Management & Operations program	gement & Oper	rations progran	-:	Transportation
MTIP ID	71117	1					System Management
RTP ID		T					Operations
Pł	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2024	STBG-URBAN	\$1,768,688	\$202,434	\$0	\$1,971,122
			FY 21-26 Totals	\$1,768,688	\$202,434	0\$	\$1,971,122
		Es	Estimated Project Cost (YOE\$)	\$1,768,688	\$202,434	0\$	\$1,971,122

LEAD AGENCY	GENCY	Metro	0				
PROJECT NAME	T NAME	Willar	Willamette Greenway Trail: Columbia Blvd Bridge	ia Blvd Bridge			
Projec	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	18832	Constru	Construct a bicycle and pedestrian bridge over Columbia Boulevard and an	dge over Colum	bia Boulevard	and an	Trail
MTIP ID	70774	extensic	extension of the Willamette Greenway Irail to provide a connection from the existing termini in Chimney Park to the south end of the landfill bridge over the	r Irail to provide south end of th	e a connection i ne landfill bridg	rom the e over the	
RTP ID		south C	south Columbia Slough.		1		
Phase	se	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	nt of way	2021	OTHER	0\$	0\$	\$20,000	\$20,000
Construction		2021	State STP (M240)	\$1,131,861	\$129,547	\$830,973	\$2,092,381
			FY 21-26 Totals	\$1,131,861	\$129,547	\$850,973	\$2,112,381
			Prior Years' Totals	\$448,650	\$51,350	0\$	\$500,000
		Е	Estimated Project Cost (YOE\$)	\$1,580,511	\$180,897	\$850,973	\$2,612,381



LEAD AGENCY	GENCY	Milwaukie	aukie				
PROJECT NAM	T NAME	Wash	Washington/Monroe: SE Oak St - SE Linwood Ave	Linwood Ave			
Projec	Project IDs		Project	Project Description			Project Type
ODOT KEY	22141	Constru	Construct bicycle and pedestrian improvements (segments D and E) on	ovements (segn	nents D and E)	on	Active
MTIP ID	71087	Washin Lane an	Washington and Monroe from SE Oak to SE Railroad Ave up to Washington to Ada Lane and then to Home Ave and on Home Ave to Monroe St and on Monroe St	to SE Railroad A me Ave to Mon	ive up to Wash roe St and on I	ington to Ada Monroe St	Transportation
RTP ID	10099	east to	east to Linwood Ave				
Phase	ase ase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary engineering	ngineering	2021	STBG-URBAN	\$712,387	\$81,536	\$861,233	\$1,655,156
Purchase right of way	nt of way	2023	LOCAL	0\$	0\$	\$100,344	\$100,344
Other		2023	LOCAL	0\$	0\$	\$100,000	\$100,000
Construction		2025	STBG-URBAN	\$3,148,401	\$360,349	0\$	\$3,508,750
			FY 21-26 Totals	\$3,860,788	\$441,885	\$1,061,577	\$5,364,250
		Ш	Estimated Project Cost (YOE\$)	\$3,860,788	\$441,885	\$1,061,577	\$5,364,250

LEAD /	LEAD AGENCY	Multr	Multnomah County				
PROJEC	PROJECT NAME	Hawt	Hawthorne Bridge Ramps				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21882	Replace	Replace the bridge driving surface and repair the joints on the east and west	l repair the joinা	ts on the east a	nd west	Roadway and
MTIP ID	71201	арргоас	approaches to repair vehicle damage				bridge
RTP ID	12092	I					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2022	STBG - STATE	\$7,118,759	\$814,774	0\$	\$7,933,533
			FY 21-26 Totals	\$7,118,759	\$814,774	0\$	\$7,933,533
			Prior Years' Totals	\$1,454,036	\$166,421	0\$	\$1,620,457
		Ш	Estimated Project Cost (YOE\$)	\$8,572,795	\$981,195	\$0	\$9,553,990

LEAD /	LEAD AGENCY	Multr	Multnomah County				
PROJEC	PROJECT NAME	Morri	Morrison St.: Morrison (Willamette River) Bridge (Portland)	River) Bridge (P	ortland)		
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	21884	Strengt	Strengthen the Morrison and Belmont Viaducts on the east side of the Willamette	: Viaducts on th	e east side of th	e Willamette	Roadway and
MTIP ID	71202	River to	River to avoid posting bridge for less then legal loads.	nen legal loads.			bridge
RTP ID	12092						
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2022	STBG - STATE	\$1,604,929	\$183,691	0\$	\$1,788,620
Construction	٦	2024	STBG - STATE	\$6,477,527	\$741,382	0\$	\$7,218,909
			FY 21-26 Totals	\$8,082,456	\$925,073	0\$	\$9,007,529
		نت	Estimated Project Cost (YOE\$)	\$8,082,456	\$925,073	0\$	\$9,007,529



LEAD /	LEAD AGENCY	Multr	Multnomah County				
PROJEC	PROJECT NAME	Sandy	Sandy Blvd: Gresham to 230th Ave				
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22137	Comple	Complete project development activities including design and engineering to	ies including de	sign and engine	eering to	Active
MTIP ID	71093	reconst drainag	reconstruct Sandy Blvd to minor arterial standards with bike lanes sidewalks and drainage improvements to close an east-west gap in the regional active	al standards wit st-west gap in th	ih bike lanes sic ne regional acti	tewalks and ve	Transportation
RTP ID	10399	transpo	transportation network	-)		
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2022	STBG-URBAN	\$1,275,985	\$146,042	0\$	\$1,422,027
			FY 21-26 Totals	\$1,275,985	\$146,042	0\$	\$1,422,027
		П	Estimated Project Cost (YOE\$)	\$1,275,985	\$146,042	0\$	\$1,422,027

LEAD ,	LEAD AGENCY	Multn	Multnomah County				
PROJE(PROJECT NAME	SW 25	SW 257th Dr at Sturges Dr/Cherry Park Rd (Multnomah County)	ark Rd (Multno	mah County)		
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	21623	Install g	Install green painted bike boxes at the approaches of SW Sturges Drive and SW	approaches of	SW Sturges Dri	ve and SW	Roadway and
MTIP ID	71177	Cherry F visibility	Cherry Park Road to the intersection of SW 257th Drive to increase safety and visibility for vulnerable road users.	t SW 257th Driv	e to increase sa	afety and	bridge
RTP ID	11684						
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$3,763	\$317	0\$	\$4,080
Construction	u	2021	HSIP (92.22)	\$40,382	\$3,407	0\$	\$43,789
			FY 21-26 Totals	\$44,145	\$3,724	0\$	\$47,869
		Ę	Estimated Project Cost (YOE\$)	\$44,145	\$3,724	0\$	\$47,869

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Centra	Central Systemic Signals and Illumination (ODOT)	ation (ODOT)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20335	Illumin	Illumination; intersection work; bike and pedestrian improvements; ADA	nd pedestrian ir	mprovements;	ADA	Roadway and
MTIP ID	70950	upgrade other sa	upgrades; signal work; signs; warnings; striping; medians; utility relocation; and other safety improvements at various locations. (PGB-ARTS)	; striping; media ocations. (PGB-,	ins; utility reloc ARTS)	ation; and	bridge
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	tht of way	2021	HSIP (92.22)	\$286,066	\$24,134	0\$	\$310,200
Construction	u	2021	HSIP (92.22)	\$2,607,807	\$220,004	\$0	\$2,827,811
			FY 21-26 Totals	\$2,893,873	\$244,138	0\$	\$3,138,011
			Prior Years' Totals	\$1,136,417	\$95,872	0\$	\$1,232,289
		Ë	Estimated Project Cost (YOE\$)	\$4,030,290	\$340,010	0\$	\$4,370,300



LEAD AGENCY	GENCY	ODOI					
PROJECT NAME	T NAME	City o	City of Gresham Safety Project				
Projec	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20303	Interse	Intersection improvements; upgrade to ADA; utility relocation; signal work;	o ADA; utility re	elocation; signa	l work;	Roadway and
MTIP ID	70943	median	medians; traffic separators; striping; signing; warnings; and other safety improvements.	gning; warnings	;; and other sate	ety	bridge
RTP ID							
Phase	ase .	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	HSIP (92.22)	\$997,083	\$84,117	0\$	\$1,081,200
			FY 21-26 Totals	\$80′266\$	\$84,117	0\$	\$1,081,200
			Prior Years' Totals	\$474,749	0\$	\$40,051	\$514,800
		Ш	Estimated Project Cost (YOE\$)	\$1,471,832	\$84,117	\$40,051	\$1,596,000

LEAD ,	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Colum	Columbia Bottomlands Mitigation/Conservation	onservation			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22075	Develo	Develop a long term mitigation/conservation bank in the Lower Willamette	rvation bank in	the Lower Will	amette	Other
MTIP ID	71150	Waters	Watershed that generates credits for aquatic resources to be used by the greatest number of Endangered Species Act (ESA) listed fish species	iquatic resource A) listed fish spo	is to be used by ecies	y the greatest	
RTP ID							
Pr	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ght of way	2021	STATE-GEN	0\$	0\$	\$0 \$1,000,000	\$1,000,000
			FY 21-26 Totals	0\$	0\$	\$0 \$1,000,000	\$1,000,000
			Prior Years' Totals	\$0	\$0	\$400,000	\$400,000
		Ü	Estimated Project Cost (YOE\$)	0\$	0\$	\$0 \$1,400,000	\$1,400,000

LEAD #	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Corne	Cornelius Pass Road Arterial Corridor Management	r Management			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21500	Impler	Implement a variety of ITS treatments to enhance safety and mobility in rural and	to enhance safe	ety and mobilit	y in rural and	Transportation
MTIP ID	71078	suburba US 30 to	suburban Washington County and Multnoman County (Cornelius Pass Road from US 30 to OR8 TV Highwav) (ATCMTD child)	Itnoman County iild)	' (Cornelius Pas	s Road from	System Management
RTP ID	11104			•			Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	Local (Wash Co)	0\$	0\$	\$800,700	\$800,700
Construction	u	2021	ATCMTD (100%)	\$1,160,000	0\$	\$295,200	\$1,455,200
			FY 21-26 Totals	\$1,160,000	0\$	\$1,095,900	\$2,255,900
			Prior Years' Totals	\$440,000	0\$	\$104,100	\$544,100
		Е	Estimated Project Cost (YOE\$)	\$1,600,000	0\$	\$1,200,000	\$2,800,000



LEAD #	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	East S	East Systemic Signals and Illumination (ODOT)	on (ODOT)			
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	20339	Project	Projects at locations in east jurisdictions of Portland. Work may include	ns of Portland.	Work may inclu	əpr	Roadway and
MTIP ID	70953	illumina	llumination; intersection work; bike/pedestrian improvements; ADA upgrades;	edestrian impro	vements; ADA	upgrades;	bridge
RTP ID		improve	signal work; signs, warnings; striping; medians; utility relocation; and other salety improvements (ART	nedians; utility	reiocation; and	otner salety	
)		2					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	_	2021	HSIP (92.22)	\$2,388,567	\$201,508	0\$	\$2,590,075
			FY 21-26 Totals	\$2,388,567	\$201,508	0\$	\$2,590,075
			Prior Years' Totals	\$613,795	\$5,205	0\$	\$619,000
		Ü	Estimated Project Cost (YOE\$)	\$3,002,362	\$206,713	0\$	\$3,209,075

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	1-205	I-205 Exits Ramps at SE Division St				
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	20480	Safety i	Safety improvements on NB and SB I-205 exit ramps at SE Division street. Work	205 exit ramps a	it SE Division st	reet. Work	Roadway and
MTIP ID	71006	includes	includes lane adjustments; ramp widening; safety islands; signal work; illumination; signing; and ADA improvements as necessary.	ning; safety islar ements as neces	ıds; sıgnal work sary.	:>	bridge
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	ı	2021	HSIP (100%)	\$2,643,117	\$0	\$0	\$2,643,117
			FY 21-26 Totals	\$2,643,117	0\$	0\$	\$2,643,117
			Prior Years' Totals	\$1,056,142	0\$	\$13,705	\$1,069,847
		نن	Estimated Project Cost (YOE\$)	\$3,699,259	0\$	\$13,705	\$3,712,964

LEAD /	LEAD AGENCY	ODOT	Ĺ				
PROJEC	PROJECT NAME	I-5 Bri	I-5 Bridges: Multnomah Blvd Capital Hwy Ramp Barbur Blvd	Hwy Ramp Bar	bur Blvd		
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	20465	On Mu	On Multnomah Blvd and Capital Highway ramp bridges place an overlay on the	way ramp bridge	es place an ove	rlay on the	
MTIP ID	70998	bridge (meet cu	bridge driving surface replace or repair leaking joints and retrofit the bridge rails to meet current safety standards. On Barbur Blvd bridge remove rust paint replace	r leaking joints a bur Blvd bridge	and retrofit the remove rust pa	bridge rails to iint replace	
RTP ID		parts.		1	•		
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STBG - STATE	\$4,628,131	\$529,710	\$0	\$5,157,841
			FY 21-26 Totals	\$4,628,131	\$529,710	0\$	\$5,157,841
			Prior Years' Totals	\$308,420	\$35,300	0\$	\$343,720
		Ш	Estimated Project Cost (YOE\$)	\$4,936,551	\$565,010	0\$	\$5,501,561



LEAD A	LEAD AGENCY	ODO					
PROJECT NAME	T NAME	I-5 Ov	I-5 Over 26th Avenue Bridge				
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	20486	Replace	Replace the bridge to ensure connectivity. Complete a Value Engineering study	ivity. Complete	a Value Engine	ering study	Roadway and
MTIP ID	70977	which w	which will evaluate the functions of the project with the objective of enhancing the total project value.	e project with tl	ne objective of	enhancing	bridge
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	l	2021	NHPP (92.22%)	\$26,793,259	\$2,260,373	0\$	\$29,053,632
			FY 21-26 Totals \$26,793,259	\$26,793,259	\$2,260,373	0\$	\$29,053,632
			Prior Years' Totals \$4,885,234	\$4,885,234	\$412,135	0\$	\$5,297,369
		Ш	Estimated Project Cost (YOE\$) \$31,678,493	\$31,678,493	\$2,672,508	\$0	\$34,351,001

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	I-5 Ove	I-5 Over NE Hassalo St and NE Holiday St (BR#08583)	ay St (BR#08583	3)		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21219	On I-5 c	On I-5 over NE Hassalo St and SE Holladay St (BR#08583) replace the current	iday St (BR#085	83) replace the	current	Roadway and
MTIP ID	71043	structur	structural overlay (HB2017 Awarded Project \$5000000 Original Award)	roject \$500000() Original Awarı	(F)	bridge
RTP ID		ı					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	AC-HB2017 (92.22%)	\$3,688,800	\$311,200	0\$	\$4,000,000
			FY 21-26 Totals	008'889'8\$	\$311,200	0\$	\$4,000,000
			Prior Years' Totals	\$922,200	\$77,800	\$0	\$1,000,000
		E	Estimated Project Cost (YOE\$)	\$4,611,000	\$389,000	0\$	\$5,000,000



LEAD #	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	1-5: Bc	I-5: Boone (Willamette River) Bridge	6,			
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	21218	On I-5	On I-5 at the Boone Bridge over the Willamette River prepare shelf ready plans for	/illamette River	prepare shelf re	eady plans for	Roadway and
MTIP ID	71049	tuture c	tuture deck overlay joint repairs and seismic retrofit	eismic retrofit			bridge
RTP ID		1					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	_	2021	NHPP (92.22%)	\$2,951,040	\$248,960	0\$	\$3,200,000
			FY 21-26 Totals	\$2,951,040	\$248,960	0\$	\$3,200,000
			Prior Years' Totals	\$230,550	\$19,450	0\$	\$250,000
		Е	Estimated Project Cost (YOE\$)	\$3,181,590	\$268,410	0\$	\$3,450,000

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	1-5: 1-2	I-5: I-205 Interchange - Willamette River	liver			
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	20411	Remove	Remove and replace asphalt surface to repair rutted pavement Includes driving	o repair rutted	oavement Inclu	des driving	Roadway and
MTIP ID	20968	surtace	surtace on bridges #1/995 #1/996 #09/43B #09/43C & #09/43A	743B #09743C	& #09743A		bridge
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	NHPP (92.22%)	\$8,309,670	\$701,033	\$0	\$9,010,703
			FY 21-26 Totals	029'608'8\$	\$701,033	0\$	\$9,010,703
			Prior Years' Totals	249668\$	\$75,900	\$0	\$975,577
		Ę	Estimated Project Cost (YOE\$)	\$9,209,347	\$776,933	0\$	\$9,986,280

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	I-5: M	I-5: Marquam Bridge - Capitol Highway (2)	/ay (2)			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	21602	Install \	Install Variable Advisory Speed (VAS) and truck warning signs to improve safety by	and truck warnii	ng signs to impr	ove safety by	Transportation
MTIP ID	71156	informii	nforming drivers of expected downstream conditions.	eam conditions.			System
RTP ID	11104						Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	NHPP (92.22%)	\$845,192	\$71,303	0\$	\$916,495
Purchase right of way	tht of way	2022	NHPP (92.22%)	\$18,544	\$1,564	0\$	\$20,108
Other		2023	NHPP (92.22%)	\$61,810	\$5,215	0\$	\$67,025
Construction	u	2023	NHPP (92.22%)	\$6,361,843	\$536,707	0\$	\$6,898,550
			FY 21-26 Totals	\$7,287,389	\$614,789	0\$	\$7,902,178
		В	Estimated Project Cost (YOE\$)	\$7,287,389	\$614,789	0\$	\$7,902,178



LEAD #	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	I-84: F	I-84: Fairview - Marine Drive				
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	20298	Repave	Repave a section of I-84 between Fairview and Marine Dr to repair rutting	view and Marine	e Dr to repair n	utting	Roadway and
MTIP ID	70939	damage ar 238th Ave	damage and keep roadway safe. Install a full signal upgrade (including ADA) at NE 238th Ave	ll a full signal up	grade (includin _i	g ADA) at NE	bridge
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	tht of way	2021	STBG - STATE	\$2,366	\$271	0\$	\$2,637
Construction	U	2022	NHPP (92.22%)	\$4,289,147	\$361,847	0\$	\$4,650,994
Construction	U	2022	STBG - STATE	\$260,222	\$29,784	0\$	\$290,006
			FY 21-26 Totals	\$4,551,735	\$391,902	0\$	\$4,943,637
			Prior Years' Totals	\$481,324	\$40,606	0\$	\$521,930
		E	Estimated Project Cost (YOE\$)	\$5,033,059	\$432,508	0\$	\$5,465,567

LEAD ,	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	I-84: I	I-84: I-205 - NE 181st Avenue				
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	20410	On lâ€î	On lâ€84 remove/replace asphalt surface to repair rutted pavement & seal the	ace to repair ru	tted pavement	& seal the	
MTIP ID	29602	driving s Project)	driving surtace of four bridges (#07088A #07044A #07043A & #13514F) (HB2017 Project)	8A #07044A #07	043A & #13514	F) (HB2017	
RTP ID		•					
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	NHPP (92.22%)	\$7,657,518	\$646,015	\$0	\$8,303,533
			FY 21-26 Totals	\$7,657,518	\$646,015	0\$	\$8,303,533
			Prior Years' Totals	\$479,083	\$40,417	\$0	\$519,500
		Е	Estimated Project Cost (YOE\$)	\$8,136,601	\$686,432	0\$	\$8,823,033

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	I-84: N	I-84: NE Martin Luther King Jr Blvd - I-205	1-205			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21800	Design	Design for a future pavement resurfacing project to repair ruts and surface wear.	ing project to re	pair ruts and s	urface wear.	Roadway and
MTIP ID	71200						bridge
RTP ID							
Чd	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	NHPP (92.22%)	\$922,200	\$77,800	0\$	\$1,000,000
			FY 21-26 Totals	\$922,200	\$77,800	0\$	\$1,000,000
		E	Estimated Project Cost (YOE\$)	\$922,200	\$77,800	0\$	\$1,000,000



LEAD ,	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	NE Ai	NE Airport Way Arterial Corridor Management	anagement			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21496	ATCMT	ATCMTD child project to deploy ITS infrastructure along Airport Way from 82nd	frastructure alo	ng Airport Way	from 82nd	Transportation
MTIP ID	71076	Ave to F	Ave to Riverside Parkway. Install message signs update signal collectors CCTV مسمين والمعربة بالمعربة المعربة	age signs updatŧ	e signal collecto	irs CCTV	System
RTP ID		כמו	א ווספן כסווווומוווכמנוסון פנכי				Operations
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	ATCMTD (100%)	\$50,000	0\$	0\$	\$50,000
Construction	u	2021	ATCMTD (100%)	\$1,040,000	0\$	0\$	\$1,040,000
			FY 21-26 Totals	\$1,090,000	0\$	0\$	\$1,090,000
			Prior Years' Totals	\$110,000	0\$	0\$	\$110,000
		E	Estimated Project Cost (YOE\$)	\$1,200,000	0\$	0\$	\$1,200,000

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	OR120	OR120: Columbia Slough Bridge				
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	21709	Study to	Study to determine the alignment and construction method for a future bridge	l construction m	nethod for a fut	ture bridge	Roadway and
MTIP ID	71195	replacer repair ar	replacement of the existing timber structure that is obsolete costly to continuously repair and can no longer support heavier loads.	ucture that is ot ier loads.	osolete costly to	o continuously	bridge
RTP ID	12092	•					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2021	STBG - STATE	\$448,650	\$51,350	0\$	\$500,000
			FY 21-26 Totals	\$448,650	\$51,350	0\$	\$500,000
		E	Estimated Project Cost (YOE\$)	\$448,650	\$51,350	0\$	\$500,000

LEAD A	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	OR212	OR212/224 Arterial Corridor Management	ement			
Proje	Project IDs		Project	Project Description			Project Type
ОDOT КЕУ	21495	The pro	The project will implement a variety of treatments to improve safety mobility and	f treatments to	improve safety	mobility and	Transportation
MTIP ID	71075	reliabilit (ATCMT	reliability along the congested industrial OR212/224 corridor in Clackamas County. ATCMTD child)	al OR212/224 co	orridor in Clack	amas County	System Management
RTP ID	11104						Operations
Чd	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	ATCMTD (100%)	\$75,000	0\$	0\$	\$75,000
Construction	u	2021	ATCMTD (100%)	\$2,425,000	0\$	0\$	\$2,425,000
			FY 21-26 Totals	\$2,500,000	0\$	0\$	\$2,500,000
			Prior Years' Totals	\$300,000	0\$	0\$	\$300,000
		E	Estimated Project Cost (YOE\$)	\$2,800,000	0\$	0\$	\$2,800,000



			Project Type	Roadway and	bridge		Total Amount		\$3,159,956	\$11,782,750	\$14,942,706	\$6,655,005	\$21,597,711
				rehab road	and enhance		Other	Amount	0\$	0\$	0\$	\$0	0\$
				son Rd repave/	ace projection a		Minimum	Local Match	\$245,845	\$1,210,088	\$1,455,933	\$683,469	\$2,139,402
		Thompson Rd	Project Description	d to SE Thomp	add bridge surfa ginal award)		Federal	Amount	\$2,914,111	\$10,572,662	\$13,486,773	\$5,971,536	\$19,458,309
		OR213 (82nd Ave): SE Foster Rd - SE Thompson Rd	Projec	On OR213 (82nd Ave) from SE Foster Rd to SE Thompson Rd repave/rehab road	upgrade ADA ramps address drainage add bridge surface projection and enhance ped crossings (HB2017 \$9.2 million original award)		Fund Type		AC-HB2017 (92.22%)	STBG - STATE	FY 21-26 Totals \$13,486,773	Prior Years' Totals	Estimated Project Cost (YOE\$) \$19,458,309
0	ODOI	OR21		On OR	upgrade ped cro		Year		2021	2021			Ш
	LEAD AGENCY	PROJECT NAME	Project IDs	21177	71035		Phase		tion	tion			
	LEA	PRO.	Pr	ОБОТ КЕУ	MTIP ID	RTP ID			Construction	Construction			

LEAD ,	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	OR213	OR213 at NE Glisan St and NE Davis St	St			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21607	Upgrad	Upgrade the signal at the Glisan St intersection and modify the Davis St	ersection and m	odify the Davis	St	Roadway and
MTIP ID	71161	intersec	ntersection to increase safety.				bridge
RTP ID	11844						
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	NHPP (2001)	\$703,899	\$80,564	0\$	\$784,463
Purchase right of way	ght of way	2022	NHPP (2001)	\$444,410	\$50,865	0\$	\$495,275
Other		2023	NHPP (2001)	\$130,919	\$14,984	0\$	\$145,903
Construction	u	2023	NHPP (2001)	\$3,060,959	\$350,340	0\$	\$3,411,299
			FY 21-26 Totals	\$4,340,187	\$496,753	0\$	\$4,836,940
		Ë	Estimated Project Cost (YOE\$)	\$4,340,187	\$496,753	0\$	\$4,836,940

LEAD #	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	OR213	OR213: I-205 - OR211				
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	21638	Improv	Improvements including signals reflectorized back plates advance intersection	torized back pla	ites advance int	ersection	Roadway and
MTIP ID	71191	warning on this s	warning signs flashing lights radar detection units and stop bars to increase safety on this section of highway.	ection units and	stop bars to inc	rease safety	bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ht of way	2021	HSIP (92.22)	\$44,501	\$3,754	0\$	\$48,255
Preliminary engineering	engineering	2021	HSIP (92.22)	\$59,261	\$4,999	0\$	\$64,260
Other		2022	HSIP (92.22)	\$13,916	\$1,174	0\$	\$15,090
Construction	,	2022	HSIP (92.22)	\$377,311	\$31,831	0\$	\$409,142
			FY 21-26 Totals	\$494,989	\$41,758	0\$	\$536,747
		ŭ	Estimated Project Cost (YOE\$)	\$494,989	\$41,758	\$0	\$536,747



		Project Type	Roadway and	bridge		Total Amount		\$24,420,839	\$85,200,000	\$109,620,839	\$24,800,001	\$134,420,840
			ng aux lanes	all Blvd \$44 million		Other	Amount	0\$	\$2,000,000	\$2,000,000	\$3,096,158	\$5,096,158
			between existi	ad rehab and Ha 3841) (HB2017 a		Minimum	Local Match	\$2,508,020	\$8,544,640	\$11,052,660	\$1,952,094	\$13,004,754
	Ν	Project Description	lane segments	bridges refit roa 3473 into Key 18	•	Federal	Amount	\$21,912,819	\$74,655,360	\$96,568,179	\$19,751,749	\$116,319,928
	OR217 Southbound: OR10 to OR99W	Projec	On OR217: OR10 to OR99W construct lane segments between existing aux lanes	providing a NB & SB 3rd through lane bridges retit road rehab and Hall Blvd widening (Combines Key 21179 and 20473 into Key 18841) (HB2017 \$44 million		Fund Type		STBG - STATE	AC-HB2017 (89.73%)	FY 21-26 Totals \$96,568,179 \$11,052,660 \$2,000,000	Prior Years' Totals \$19,751,749 \$1,952,094	Estimated Project Cost (YOE\$) \$116,319,928 \$13,004,754
ODOT	OR21		On OR.	providir	award)	Year		2021	2021			Ш
LEAD AGENCY	PROJECT NAME	Project IDs	18841	70782	12019	Phase		u	u			
LEAD ,	PROJE	Proje	ОДОТ КЕУ	MTIP ID	RTP ID	P		Construction	Construction			

LEAD ,	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	OR224	OR224 at SE Monroe St				
Proje	Project IDs		Project	Project Description			Project Type
ОDOT КЕУ	21606	Full sign	Full signal upgrade to replace the signal that is outdated and intersection	al that is outdat	ted and intersec	ction	Roadway and
MTIP ID	71160	modifica	modifications to increase safety for pedestrians and cyclists.	destrians and c	yclists.		bridge
RTP ID	12095						
P	Phase	Year	Fund Type	Federal Amount	Minimum Local Match	Other Amount	Total Amount
Preliminary	Preliminary engineering	2021	AC-HSIP (92.22%)	\$553,161	\$46,667	0\$	\$599,828
Preliminary	Preliminary engineering	2021	NHPP (2001)	\$298,728	\$34,191	0\$	\$332,919
Purchase right of way	ght of way	2022	AC-HSIP (92.22%)	\$13,081	\$1,104	0\$	\$14,185
Other		2023	NHPP (2001)	\$17,660	\$2,021	0\$	\$19,681
Other		2023	AC-HSIP (92.22%)	\$19,976	\$1,685	0\$	\$21,661
Construction	u	2024	NHPP (2001)	\$1,910,059	\$218,615	0\$	\$2,128,674
Construction	u	2024	AC-HSIP (92.22%)	\$2,251,062	\$189,907	0\$	\$2,440,969
			FY 21-26 Totals	\$5,063,727	\$494,190	0\$	\$5,557,917
		Es	Estimated Project Cost (YOE\$)	\$5,063,727	\$494,190	0\$	\$5,557,917

		Project Type	Roadway and	bridge		Total Amount		\$2,617,734	\$2,617,734	\$2,617,734
			utting and			Other	Amount	0\$	0\$	\$0
			epair cracking r			Minimum	Local Match	\$268,841	\$268,841	\$268,841
		Project Description	ing project to r	.		Federal	Amount	\$2,348,893	\$2,348,893	\$2,348,893
	OR224: SE 17th Ave - OR213	Projec	Design for a future pavement resurfacing project to repair cracking rutting and	wear to keep this section safe for travel.		Fund Type		NHPP (Z001)	FY 21-26 Totals	Estimated Project Cost (YOE\$) \$2,348,893
LOGO	OR224		Design	wear to		Year		2021		ш
LEAD AGENCY	PROJECT NAME	Project IDs	21598	71153	12094	Phase		Preliminary engineering 2021		
LEAD /	PROJEC	Proje	ОБОТ КЕУ	MTIP ID	RTP ID	Иd		Preliminary		



LEAD A	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	OR224	OR224: SE 17th Ave - Rainbow Campground	ground			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21612	Improv	Improvements including signs stop bars rumble strips signals reflectorized back	rs rumble strips	signals reflecto	rized back	Roadway and
MTIP ID	71166	plates a	plates and lighting to increase safety on this section of highway.	n this section o	f highway.		bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary (Preliminary engineering	2022	HSIP (92.22)	\$303,067	\$22,568	0\$	\$328,635
Purchase right of way	ht of way	2023	HSIP (92.22)	\$12,341	\$1,041	0\$	\$13,382
Other		2023	HSIP (92.22)	\$38,484	\$3,247	0\$	\$41,731
Construction	ر	2024	HSIP (92.22)	\$1,366,197	\$115,257	0\$	\$1,481,454
			FY 21-26 Totals	\$1,720,089	\$145,113	0\$	\$1,865,202
		Ü	Estimated Project Cost (YOE\$)	\$1,720,089	\$145,113	0\$	\$1,865,202

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	OR8 a	OR8 at 174th Ave Armco Ave Main St and A&B Row	it and A&B Row	•		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21608	Full sign	Full signal rebuild and sidewalk installations at the Main St intersection. Install	ations at the Ma	ain St intersectic	on. Install	Roadway and
MTIP ID	71162	flashing	flashing lights at the other intersections to increase safety at these locations.	is to increase sa	fety at these loα	cations.	bridge
RTP ID	12095						
Pr	Phase	Year	Fund Type	Federal Amount	Minimum Local Match	Other Amount	Total Amount
Preliminary	Preliminary engineering	2021	NHPP (2001)	\$452,448	\$51,785	0\$	\$504,233
Preliminary	Preliminary engineering	2021	AC-HSIP (92.22%)	\$293,635	\$24,772	0\$	\$318,407
Purchase right of way	ght of way	2022	AC-HSIP (92.22%)	\$117,735	\$9,933	0\$	\$127,668
Purchase right of way	ght of way	2022	NHPP (2001)	\$161,621	\$18,498	0\$	\$180,119
Other		2022	AC-HSIP (92.22%)	\$13,081	\$1,104	0\$	\$14,185
Other		2022	NHPP (Z001)	\$59,455	\$6,805	0\$	\$66,260
Construction	u	2023	AC-HSIP (92.22%)	\$1,338,111	\$112,888	0\$	\$1,450,999
Construction	u	2023	NHPP (Z001)	\$2,267,849	\$259,565	0\$	\$2,527,414
			FY 21-26 Totals	\$4,703,935	\$485,350	0\$	\$5,189,285
		Ш	Estimated Project Cost (YOE\$)	\$4,703,935	\$485,350	0\$	\$5,189,285



LEAD AGENCY	ENCY	ODOT					
PROJECT NAME	NAME	OR8 a	OR8 at River Rd				
Project IDs	IDs		Project	Project Description			Project Type
ОБОТ КЕУ	20451	On OR	On OR8 at River Rd from MP 11.17 to MP 11.75 construct full signal upgrade with	MP 11.75 const	ruct full signal u	upgrade with	Roadway and
MTIP ID	96602	illumina City of F	illumination and ADA improvements at the intersectionof OR8 and River Rd in the City of Hillsboro.	t the intersectio	nof OR8 and Ri	ver Rd in the	bridge
RTP ID							
Phase	е	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	of way	2021	NHPP (Z001)	\$82,146	\$9,402	0\$	\$91,548
Other		2021	Rail Safety (LS40/50)	\$270,000	0\$	\$30,000	\$300,000
Construction		2021	NHPP (Z001)	\$988,974	\$113,192	0\$	\$1,102,166
			FY 21-26 Totals	\$1,341,120	\$122,594	\$30,000	\$1,493,714
			Prior Years' Totals	\$1,037,216	\$118,533	0\$	\$1,155,749
		Е	Estimated Project Cost (YOE\$)	\$2,378,336	\$241,127	\$30,000	\$2,649,463

LEAD AGENCY	ODOT					
PROJECT NAME	OR8 C	OR8 Corridor Safety and Access to Transit II	ransit II		•	
Project IDs		Project	Project Description			Project Type
ODOT KEY 20328	Improv	Improve safety and access to transit for pedestrians and cyclists along OR-8. Work	or pedestrians a	and cyclists alon	g OR-8. Work	Active
MTIP ID 70945	include	includes: bike lane from SW 182nd Ave to SW 153rd Dr. pedestrian crossings and separated walkway and bike lane across Rock Creek Bridge.	e to SW 153rd E ss Rock Creek Bi	r. pedestrian cı ridge.	rossings and	Transportation
RTP ID	•			ı		
Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
			Amount	Local Match	Amount	
Purchase right of way	2021	NHPP (Z001)	\$89,730	\$10,270	0\$	\$100,000
Construction	2021	NHPP (Z001)	\$2,097,964	\$240,121	0\$	\$2,338,085
		FY 21-26 Totals	\$2,187,694	\$250,391	0\$	\$2,438,085
		Prior Years' Totals	\$1,170,812	\$134,005	\$0	\$1,304,817
	Ш	Estimated Project Cost (YOE\$)	\$3,358,506	\$384,396	0\$	\$3,742,902

LEAD A	LEAD AGENCY	ODOT					
PROJECT NAM	T NAME	OR8: 5	OR8: SE Brookwood Ave - OR217				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21617	Install f	Install fiber optic cable where gaps exist in order to operate traffic control and	ist in order to o	perate traffic co	ntrol and	Roadway and
MTIP ID	71171	monitor	monitoring systems and rapidly respond to incidents.	nd to incidents.			bridge
RTP ID	12013	Ī					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary 6	Preliminary engineering	2021	NHPP (Z001)	\$403,930	\$46,232	0\$	\$450,162
Purchase right of way	ht of way	2022	NHPP (Z001)	\$28,199	\$3,228	0\$	\$31,427
Construction		2023	NHPP (Z001)	\$3,091,714	\$353,861	0\$	\$3,445,575
			FY 21-26 Totals	\$3,523,843	\$403,321	0\$	\$3,927,164
		Ш́	Estimated Project Cost (YOE\$)	\$3,523,843	\$403,321	0\$	\$3,927,164



LEAD AGENCY	GENCY	ODOT					
PROJECT NAM	T NAME	OR8: 5	OR8: SW Hocken Ave - SW Short St				
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	18758	Design	Design and construct streetscape safety and operational improvements	ty and operatio	nal improveme	ints	
MTIP ID	70757						
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	STP - Urban	\$1,974,955	\$226,042	0\$	\$2,200,997
Construction		2021	OTHER - LOCAL	0\$	0\$	\$3,900,000	\$3,900,000
Construction		2021	STBG - STATE	\$1,615,497	\$184,901	0\$	\$1,800,398
			FY 21-26 Totals	\$3,590,452	\$410,943	000'006'8\$	\$7,901,395
			Prior Years' Totals	\$2,934,171	\$335,828	0\$	\$3,269,999
		نن	Estimated Project Cost (YOE\$)	\$6,524,623	\$746,771	000'006'£\$	\$11,171,394

LEAD A	LEAD AGENCY	ODOT					
PROJECT NAMI	T NAME	OR8: 5	OR8: SW Watson Ave - SW 110th Ave (Beaverton)	e (Beaverton)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	18794	Safety I	Safety upgrades to install larger signal heads reflective backboards pedestrian	heads reflectiv	e backboards p	edestrian	Roadway and
MTIP ID	20766	countdo	countdown signals and left turn phasing where feasible	າg where feasib _າ	<u>ə</u>		bridge
RTP ID		1					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	ر	2021	HSIP (100%)	\$1,723,407	0\$	0\$	\$1,723,407
Construction		2021	STBG - STATE	\$439,677	\$50,323	0\$	\$490,000
			FY 21-26 Totals	\$2,163,084	\$50,323	0\$	\$2,213,407
			Prior Years' Totals	\$816,500	\$0	\$0	\$816,500
		ш	Estimated Project Cost (YOE\$)	\$2,979,584	\$50,323	0\$	\$3,029,907

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	OR991	OR99E Over UPRR at Baldwin Street Bridge	Bridge			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20487	Addres	Address the safety issues. Perform bridge rail retrofit and add protective	dge rail retrofit	and add protec	tive	Roadway and
MTIP ID	8/60/	screenii	screening to bring the bridge up to current standards.	rent standards.			bridge
RTP ID		1					
Ч	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STBG - STATE	\$3,663,863	\$419,346	0\$	\$4,083,209
			FY 21-26 Totals	\$3,663,863	\$419,346	0\$	\$4,083,209
			Prior Years' Totals	\$1,193,708	\$136,626	0\$	\$1,330,334
		Е	Estimated Project Cost (YOE\$)	\$4,857,571	\$555,972	0\$	\$5,413,543



LEAD ,	LEAD AGENCY	ODOT					
PROJE	PROJECT NAME	OR99	OR99E: Clackamas River (McLoughlin) Bridge) Bridge			
Proje	Project IDs		Project	Project Description			Project Type
ОDOT КЕУ	20472	Design	Design for a future project to repaint the bridge. The paint is required to protect	he bridge. The	paint is require	d to protect	Roadway and
MTIP ID	71000	this ste	this steel structure from corrosion.				bridge
RTP ID							
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	NHPP (Z001)	\$224,325	\$25,675	0\$	\$250,000
			FY 21-26 Totals	\$224,325	\$25,675	0\$	\$250,000
		Ш	Estimated Project Cost (YOE\$)	\$224,325	\$25,675	0\$	\$250,000

LEAD A	LEAD AGENCY	ODOT					
PROJECT NAME	T NAME	OR99\	OR99W (Barbur Blvd) at SW Capitol Hwy	Hwy			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20438	Prohibit	Prohibit NB left turns from OR99W onto I-5 ramp and redirect traffic flow through	to I-5 ramp and	redirect traffic	flow through	Roadway and
MTIP ID	70991	jug hand median	jug handle; Install EB right turn lane and new signal at Taylors Ferry; Address median gaps and striping; Add/improve signage; Install reflectorized backplates	nd new signal at e signage; Instal	Taylors Ferry; , Il reflectorized	Address backplates	bridge
RTP ID			· •				
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	HSIP (100%)	\$2,116,600	\$0	0\$	\$2,116,600
			FY 21-26 Totals	\$2,116,600	0\$	0\$	\$2,116,600
			Prior Years' Totals	\$859,100	0\$	0\$	\$859,100
		Ē	Estimated Project Cost (YOE\$)	\$2,975,700	0\$	0\$	\$2,975,700

LEAD ,	LEAD AGENCY	ODOT					
PROJE(PROJECT NAME	OR991	OR99W: Rock Creek Bridge				
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	21712	Install r	Install new bridge rail to meet current safety standards	safety standarc	Js		Roadway and
MTIP ID	71197	T					bridge
RTP ID	12092	ı					
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	NHPP (Z001)	\$618,334	\$70,771	0\$	\$689,105
			FY 21-26 Totals	\$618,334	\$70,771	0\$	\$689,105
			Prior Years' Totals	\$66,471	\$2,608	\$0	\$74,079
		ш	Estimated Project Cost (YOE\$)	\$684,805	\$78,379	0\$	\$763,184



LEAD AGENCY	GENCY	ODOT					
PROJECT NAME	T NAME	OR99\	OR99W: I-5 - McDonald St				
Projec	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	20435	Repave	Repave roadway; upgrade ADA ramps to current standards; improve access	s to current stan	dards; improve	access	Roadway and
MTIP ID	70988	management; a Johnson/Main.	management; and address drainage as needed. Includes full signal upgrade at Iohnson/Main.	s needed. Includ	es full signal up	ograde at	bridge
RTP ID							
Phase	ase ase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	NHPP (Z001)	\$8,020,044	\$917,930	0\$	\$8,937,974
Construction		2021	AC-HB2017 (89.73%)	\$6,191,370	\$708,630	0\$	\$6,900,000
			FY 21-26 Totals \$14,211,414	\$14,211,414	\$1,626,560	0\$	\$15,837,974
			Prior Years' Totals	\$4,686,144	\$536,350	\$0	\$5,222,494
		ű	Estimated Project Cost (YOE\$) \$18,897,558		\$2,162,910	0\$	\$21,060,468

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	OR99\	OR99W: OR217 - SW Sunset Blvd & US30B: Kerby - 162nd Ave	US30B: Kerby -	162nd Ave		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21616	Upgrad	Upgrade signals replace or modify signs and road markings install lighting and bike	ns and road mar	kings install lig	hting and bike	Roadway and
MTIP ID	71170	lane con	ane conflict markings to improve safety on this section.	ty on this sectio	ŗ.		bridge
RTP ID		1					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$429,860	\$36,264	0\$	\$466,124
Purchase right of way	tht of way	2022	HSIP (92.22)	\$69,856	\$5,893	0\$	\$75,749
Other		2023	HSIP (92.22)	\$11,685	986\$	0\$	\$12,671
Construction	u	2023	HSIP (92.22)	\$1,790,224	\$151,030	0\$	\$1,941,254
			FY 21-26 Totals	\$2,301,625	\$194,173	0\$	\$2,495,798
		Ĕ	Estimated Project Cost (YOE\$)	\$2,301,625	\$194,173	0\$	\$2,495,798

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Portla	Portland Metro & Surrounding Area Audible Crosswalk Signals	Audible Crossy	valk Signals		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21618	Install a	Install audible crosswalk signals to assist accessibility for pedestrians crossing at	ist accessibility i	for pedestrians	crossing at	Roadway and
MTIP ID	71172	various River Mi	various locations throughout the ODOT Region 1 area located in Clackamas Hood River Multnomah and Washington Counties.	l Region 1 area inties.	located in Clac	kamas Hood	bridge
RTP ID	12095		•				
Чd	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STATE-GEN	0\$	0\$	\$200,000	\$200,000
			FY 21-26 Totals	0\$	0\$	\$200,000	\$200,000
		ŭ	Estimated Project Cost (YOE\$)	0\$	0\$	\$200,000	\$200,000



LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Portla	Portland Metro and Surrounding Area Operations	ea Operations			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	21611	Operati	Operational improvements as needed at various locations to improve traffic flow	at various locat	ions to improv	e traffic flow	Other
MTIP ID	71165	through and Wa	throughout the UDOI Region 1 area located in Clackamas Hood River Multnoman and Washington Counties.	cated in Clackar	mas Hood Kivel	r Multnoman	
RTP ID	12095						
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2024	STBG - STATE	\$208,908	\$58,247	0\$	\$567,155
			FY 21-26 Totals	\$208,908	\$58,247	0\$	\$567,155
		ш	Estimated Project Cost (YOE\$)	\$508,908	\$58,247	0\$	\$567,155

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Portla	Portland Metro and Surrounding Areas Pavement Marking	eas Pavement N	Jarking		
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	21604	Restrip	Restriping and replacement of raised pavement markers to update road markings	bavement mark	ers to update r	oad markings	Roadway and
MTIP ID	71158	and ens Clackan	and ensure continued visibility throughout the ODOT Region 1 area located in Clackamas Hood River Multnomah and Washington Counties.	Nout the UDUI I Washington Cc	Kegion 1 area k vunties.	ocated in	bridge
RTP ID	12095)			
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	L	2021	STATE-GEN	0\$	0\$	\$200,000	\$200,000
			FY 21-26 Totals	0\$	0\$	\$200,000	\$200,000
		Ü	Estimated Project Cost (YOE\$)	0\$	0\$	\$200,000	\$200,000

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Portla	Portland Metro and Surrounding Areas Signal Detection	eas Signal Dete	ction		
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	21605	Signal c	Signal detection upgrades and replacements to respond to the identified need	ments to respo	nd to the ident	ified need	Transportation
MTIP ID	71159	through and Wa	throughout the ODOT Region 1 area located in Clackamas Hood Kiver Multnoman and Washington Counties.	cated in Clackar	nas Hood Kivei	Multnoman	System Management
RTP ID	12095		•				Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	STATE-GEN	\$0	\$0	\$200,000	\$200,000
			FY 21-26 Totals	0\$	0\$	\$200,000	\$200,000
		Е	Estimated Project Cost (YOE\$)	\$0	0\$	\$200,000	\$200,000



LEAD A	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Portla	Portland Metro and Surrounding Areas Traffic Monitoring Cameras	eas Traffic Mon	itoring Camera	S	
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21609	Install	Install and replace damaged and obsolete traffic monitoring cameras so that	lete traffic mon	itoring camera:	s so that	Transportation
MTIP ID	71163	highwa) rapid re	highway conditions are continually monitored and there is an appropriate and rapid response to incidents throughout the ODOT Region 1 area.	nitored and the the ODOT Reg	ere is an approg ion 1 area.	oriate and	System Management
RTP ID	12095	_					Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	L	2021	STBG - STATE	\$578,759	\$66,242	0\$	\$645,001
			FY 21-26 Totals	\$578,759	\$66,242	0\$	\$645,001
		نت	Estimated Project Cost (YOE\$)	\$578,759	\$66,242	0\$	\$645,001

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Portla	Portland Metro and Surrounding Areas Traffic Signal Upgrades	eas Traffic Signa	al Upgrades		
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	21603	Replace	Replace signal heads with Light Emitting Diode (LED) fittings to increase safety by	ng Diode (LED) f	ittings to incre	ase safety by	Transportation
MTIP ID	71157	enhanci Hood Ri	enhancing visibility throughout the ODOT Region 1 area located in Clackamas Hood River Multnomah and Washington Counties.	OT Region 1 are in Counties.	ea located in Cl	ackamas	System Management
RTP ID	12095						Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	٦	2021	STATE-GEN	0\$	0\$	\$200,000	\$200,000
			FY 21-26 Totals	0\$	0\$	\$200,000	\$200,000
		Ü	Estimated Project Cost (YOE\$)	0\$	0\$	\$200,000	\$200,000

LEAD A	LEAD AGENCY	TOOO					
PROJECT NAME	T NAME	Portla	Portland Metro and Surrounding Areas Variable Message Signs	eas Variable Me	essage Signs		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21601	Replace	Replacement and installation of Variable Message Signs (VMS) signs to improve	ble Message Sig	ns (VMS) signs	to improve	Transportation
MTIP ID	71155	operatic 1 area lo	operations and provide real time travel information throughout the ODO I Region 1 area located in Clackamas Hood River Multnomah and Washington Counties.	il information the r Multnomah ar	ıroughout the (าd Washington	DOOT Region Counties.	System Management
RTP ID	11104				1		Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary 6	Preliminary engineering	2022	STBG - STATE	\$294,707	\$33,731	0\$	\$328,438
Construction		2024	STBG - STATE	\$1,179,128	\$134,956	\$0	\$1,314,084
			FY 21-26 Totals	\$1,473,835	\$168,687	0\$	\$1,642,522
		Ë	Estimated Project Cost (YOE\$)	\$1,473,835	\$168,687	0\$	\$1,642,522



LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Portla	Portland Metro/Surrounding Area Traffic Monitoring & Control	raffic Monitorir	g & Control		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21600	Purchas	Purchase traffic monitoring and control systems equipment such as cameras and	ol systems equip	oment such as	cameras and	Transportation
MTIP ID	71154	Commur Region 1	communication infrastructure to improve incident response within the ODOT Region 1 area located in Clarkamas Hood River Multnomah and Washington	ove incident res	ponse within th	ne ODOT hington	System
RTP ID		Counties				200	Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	STBG - STATE	\$628,110	\$71,890	0\$	\$700,000
			FY 21-26 Totals	\$628,110	\$71,890	0\$	\$700,000
		E	Estimated Project Cost (YOE\$)	\$628,110	\$71,890	0\$	\$700,000

LEAD AGENCY	GENCY	ODOT					
PROJECT NAMI	T NAME	Regio	Region 1 Bike Ped Crossings				
Projec	Project IDs		Project	Project Description			Project Type
ODOT KEY	20479	Bike an	Bike and pedestrian improvements at select locations on 82nd Ave (OR-213);	select locations	on 82nd Ave ((OR-213);	Active
MTIP ID	71005	McLoug median	McLoughlin (OR-99E) on Powell (US-26) and OR8 at Baseline. Includes RRFBs; medians; illumination; crosswalks; tree trimming/removal; ADA upgrades; and	i) and OR8 at Ba trimming/remo	iseline. Includes oval; ADA upgr	s RRFBs; ades; and	Transportation
RTP ID		other sa	other safety improvements.	j	•		
Phase	ase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	HSIP (100%)	\$654,599	0\$	0\$	\$654,599
Construction		2021	STBG - STATE	\$1,329,666	\$152,186	0\$	\$1,481,852
			FY 21-26 Totals	\$1,984,265	\$152,186	0\$	\$2,136,451
			Prior Years' Totals	\$1,134,467	\$33,610	\$31,324	\$1,199,401
		Е	Estimated Project Cost (YOE\$)	\$3,118,732	\$185,796	\$31,324	\$3,335,852

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Region	Regionwide ITS Improvements and Upgrades	Upgrades			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20474	Installr	Install new or upgraded variable message signs (VMS); travel-time signs;	age signs (VMS)	; travel-time sig	gns;	Transportation
MTIP ID	71002	network (ITS) fun	network/communication technology; and other intelligent transportation system (ITS) functionality at various locations in Region 1	and other intelli in Region 1	gent transporta	ition system	System Management
RTP ID)			Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STBG - STATE	\$1,410,017	\$161,383	\$0	\$1,571,400
			FY 21-26 Totals	\$1,410,017	\$161,383	0\$	\$1,571,400
			Prior Years' Totals	\$156,669	\$17,931	0\$	\$174,600
		Ë	Estimated Project Cost (YOE\$)	\$1,566,686	\$179,314	0\$	\$1,746,000



LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Road S	Road Safety Audit Implementation				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20414	Address	Address unanticipated safety improvements as identified. 2018 RTP approved	ments as identii	fied. 2018 RTP	approved	Roadway and
MTIP ID	70970	HSIP Sate	HSIP safety and Operations PGB				bridge
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	HSIP (100%)	\$1,689,244	0\$	0\$	\$1,689,244
			FY 21-26 Totals	\$1,689,244	0\$	0\$	\$1,689,244
		Es	Estimated Project Cost (YOE\$) \$1,689,244	\$1,689,244	0\$	0\$	\$1,689,244

LEAD A	LEAD AGENCY	ODOT					
PROJECT NAME	T NAME	Seven	Seventies Neighborhood Greenway				
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	20333	Traffic c	Traffic calming and way-finding elements on local streets; some paving; crossing	ints on local stre	ets; some pavi	ng; crossing	Active
MTIP ID	70948	improve in north	improvements; and multi-use path through Kose City Golf Course to address a gap in north-south bicycle and pedestrian facilities near 82nd avenue.	ough Rose City facilities near 82	Golf Course to ind avenue.	address a gap	Iransportation
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	STBG - STATE	\$1,566,001	\$179,236	\$179,236 \$2,178,594	\$3,923,831
			FY 21-26 Totals	\$1,566,001	\$179,236	\$179,236 \$2,178,594	\$3,923,831
			Prior Years' Totals	\$433,821	\$49,652	\$603,402	\$1,086,875
		E	Estimated Project Cost (YOE\$)	\$1,999,822	\$228,888	\$2,781,996	\$5,010,706

LEAD #	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	Stark	Stark Street Multimodal Connections	SI			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	20330	Close tl	Close the existing east-west gap in bicycle and pedestrian travel by constructing	ycle and pedest	rian travel by c	onstructing	Active
MTIP ID	70946	Street b	sidewalks and bike lanes on the north side and part of the south side of SE Stark Street between SW 257th Ave and S Troutdale Rd.	side and part of routdale Rd.	the south side	ot Se Stark	Iransportation
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STBG - STATE	\$2,519,127	\$288,325	\$478,343	\$3,285,795
			FY 21-26 Totals	\$2,519,127	\$288,325	\$478,343	\$3,285,795
			Prior Years' Totals	\$635,251	\$72,708	\$120,625	\$828,584
		Ш	Estimated Project Cost (YOE\$)	\$3,154,378	\$361,033	\$598,968	\$4,114,379



LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	US26	US26 (Powell Blvd): SE 99th - East City Limits	ity Limits			
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	21178	On US2	On US26 (Powell Blvd) in SE Portland widen from three to four lanes (inclusive of a	widen from thre	e to four lanes	(inclusive of a	Roadway and
MTIP ID	71033	center t facility.	center turn lane) with sidewalks and buffered bike lanes or other enhanced bike facility. Add enhanced pedestrian and bike crossings.	uttered bike lan bike crossings.	ies or other ent	nanced bike	bridge
RTP ID		,		1			
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	AC-HB2017 (89.73%)	\$2,691,900	\$308,100	0\$	\$3,000,000
Construction		2022	AC-HB2017 (89.73%)	\$55,453,140	\$6,346,860	0\$	\$61,800,000
			FY 21-26 Totals \$58,145,040	\$58,145,040	\$6,654,960	0\$	\$64,800,000
			Prior Years' Totals \$36,071,460 \$4,128,540	\$36,071,460	\$4,128,540	0\$	\$40,200,000
		Ш	Estimated Project Cost (YOE\$) \$94,216,500 \$10,783,500	\$94,216,500	\$10,783,500	0\$	\$105,000,000

LEAD ,	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	US26/	US26/OR213 Curb Ramps				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21255	Design a	Design and construct curb ramps and pedestrian signals in compliance with the	pedestrian signa	als in complian	ce with the	Pedestrian
MTIP ID	71051	America	Americans with Disabilities Act (ADA) standards at multiple locations	tandards at mu	Itiple locations		
RTP ID		T					
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STBG - STATE	\$1,000,490	\$114,511	0\$	\$1,115,001
			FY 21-26 Totals	\$1,000,490	\$114,511	0\$	\$1,115,001
			Prior Years' Totals	\$439,678	\$50,324	0\$	\$490,002
		Es	Estimated Project Cost (YOE\$)	\$1,440,168	\$164,835	0\$	\$1,605,003

LEAD AGENCY	NCY	ODOT					
PROJECT NAM	AME	US26 :	US26: Glencoe Rd - Cornelius Pass Rd	p			
Project IDs	Ds		Projec	Project Description			Project Type
орот кеу	21597	Paveme	Pavement resurfacing and bridge work to repair rutting and wear in order to keep	k to repair ruttir	ng and wear in o	order to keep	Roadway and
MTIP ID	71152	this sect	this section of roadway safe for travel.				bridge
RTP ID	12094						
Phase		Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary engineering	ineering	2022	NHPP (Z001)	\$1,627,675	\$186,295	0\$	\$1,813,970
Construction		2024	NHPP (Z001)	\$9,857,047	\$1,128,183	0\$	\$10,985,230
			FY 21-26 Totals	\$11,484,722	\$1,314,478	0\$	\$12,799,200
		Ë	Estimated Project Cost (YOE\$) \$11,484,722 \$1,314,478	\$11,484,722	\$1,314,478	\$0	\$12,799,200



LEAD A	LEAD AGENCY	ODOT					
PROJECT NAME	T NAME	US26:	US26: OR217 - Cornell Road				
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	20300	Repave	Repave mainline of roadway to improve pavement condition and extend service	ve pavement cc	ondition and ext	tend service	Roadway and
MTIP ID	70941	lite and and per	lite and maintain safety standards. Apply high friction surface pavement treatment and perform bridge maintenance.	ply high friction	surface pavem	ent treatment	bridge
RTP ID		•)				
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	NHPP (Z001)	\$7,930,940	\$907,732	0\$	\$8,838,672
Construction	_	2021	HSIP (92.22)	\$396,825	\$33,478	0\$	\$430,303
			FY 21-26 Totals	\$8,327,765	\$941,210	0\$	\$9,268,975
			Prior Years' Totals	\$1,190,260	\$132,815	0\$	\$1,323,075
		Ш	Estimated Project Cost (YOE\$)	\$9,518,025	\$1,074,025	0\$	\$10,592,050

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	US26 :	US26: SE 8th Ave - SE 87th Ave				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21614	Update	Update signals and improve intersection warning signage to improve safety on	on warning sign	age to improve	safety on	Roadway and
MTIP ID	71168	this sect	this section of highway.				bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$20,866	\$1,760	0\$	\$22,626
Purchase right of way	tht of way	2022	HSIP (92.22)	\$5,821	\$491	0\$	\$6,312
Construction		2022	HSIP (92.22)	\$69,127	\$5,832	\$0	\$74,959
			FY 21-26 Totals	\$95,814	\$8,083	0\$	\$103,897
		نت	Estimated Project Cost (YOE\$)	\$95,814	\$8,083	0\$	\$103,897

LEAD /	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	US30 8	US30 at Bridge Ave Ramps				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20522	Design	Design for tree hazard removal and pinned mesh installation.	nned mesh instរ	allation.		Roadway and
MTIP ID	70983						bridge
RTP ID							
Ч	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STBG - STATE	\$2,518,003	\$288,197	0\$	\$2,806,200
			FY 21-26 Totals	\$2,518,003	\$288,197	0\$	\$2,806,200
			Prior Years' Totals	\$589,978	\$67,526	\$0	\$657,504
		Ę	Estimated Project Cost (YOE\$)	\$3,107,981	\$355,723	0\$	\$3,463,704



LEAD A	LEAD AGENCY	ODOT					
PROJECT NAME	T NAME	US30:	US30: NW Saltzman Rd - NW Bridge Ave	Ave			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20208	Repave	Repave roadway; upgrade ADA ramps to current standards; improve access	to current stan	dards; improve	access	Roadway and
MTIP ID	70938	manage	management; and address drainage as needed.	needed.			bridge
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	NHPP (2001)	\$5,397,862	\$617,809	0\$	\$6,015,671
			FY 21-26 Totals	\$5,397,862	\$617,809	0\$	\$6,015,671
			Prior Years' Totals	\$2,245,972	\$257,061	\$0	\$2,503,033
		Es	Estimated Project Cost (YOE\$)	\$7,643,834	\$874,870	0\$	\$8,518,704

LEAD ,	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	US30:	US30: Sandy River - OR35				
Proje	Project IDs		Project	Project Description			Project Type
ОDОТ КЕУ	21613	Signage	Signage and signal improvements to increase the visibility of intersections and	icrease the visik	oility of intersec	tions and	Roadway and
MTIP ID	71167	improve	mprove safety along this highway.				bridge
RTP ID	12095						
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2022	HSIP (92.22)	\$128,470	\$10,838	0\$	\$139,308
Purchase right of way	ght of way	2023	HSIP (92.22)	\$6,541	\$552	0\$	\$7,093
Other		2024	HSIP (92.22)	\$7,326	\$618	0\$	\$7,944
Construction	u	2024	HSIP (92.22)	\$390,231	\$32,921	0\$	\$423,152
			FY 21-26 Totals	\$532,568	\$44,929	0\$	\$577,497
		ŭ	Estimated Project Cost (YOE\$)	\$532,568	\$44,929	0\$	\$577,497

LEAD #	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	US30:	US30: Troutdale (Sandy River) Bridge	e			
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	21710	Repair s	Repair significant bridge footing erosion to protect the structure from further	on to protect th	e structure fror	n further	Roadway and
MTIP ID	71196	damage.					bridge
RTP ID	12092						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	tht of way	2021	STBG - STATE	\$35,267	\$4,036	0\$	\$39,303
Other		2023	STBG - STATE	\$103,460	\$11,841	0\$	\$115,301
Construction	u	2023	STBG - STATE	\$3,717,578	\$425,493	\$0	\$4,143,071
			FY 21-26 Totals	\$3,856,305	\$441,370	0\$	\$4,297,675
			Prior Years' Totals	\$602,427	\$68,950	\$0	\$671,377
		Es	Estimated Project Cost (YOE\$)	\$4,458,732	\$510,320	\$0	\$4,969,052



Project Type Roadway and bridge Total Amount \$457,200 \$1,066,800 \$1,524,000	Other Amount \$0 \$0 \$0 \$0	Secridor to en: Minimum Local Match \$46,954 \$109,560 \$156,514	Project Description or condition along this ssible collapse. Federal Amount \$410,246 \$957,240 otals \$1,367,486	Watson Rd - NW Hoge of the replace culverts in portanther damage and posturther damage and posturther damage (2001) NHPP (2001) FY 21-26 T	US30: Repair Gprevent Year 2021 2023	LEAD AGENCY PROJECT NAME Project IDS DDOT KEY 21779 ATIP ID 71198 ATP ID 12093 Phase Preliminary engineering Construction	PROJECT PROJECT Projec ODOT KEY MTIP ID RTP ID Pha
\$1,524,000	\$0	\$156,514	\$1,367,486	Estimated Project Cost (YOE\$)			
\$1,524,000	0\$	\$156,514	\$1,367,486	FY 21-26 Totals			
\$1,066,800	\$0	\$109,560	\$957,240	NHPP (Z001)	2023	uı	Constructio
\$457,200	0\$	\$46,954	\$410,246	NHPP (Z001)	2021	engineering	Preliminary
	Amount	Local Match	Amount				
Total Amount	Other	Minimum	Federal	Fund Type	Year	hase	Ā
					1	12093	RTP ID
bridge			ollapse.	: turther damage and possible c	prevent	71198	MTIP ID
Roadway and	sure to	s corridor to en	dition along this	or replace culverts in poor con	Repair	21779	ОДОТ КЕУ
Project Type			t Description	Projec		ect IDs	Proj
				Watson Rd - NW Hoge Ave	NS30:	CT NAME	PROJE
				_	.000	AGENCY	LEAD
					.ODO	AGENCY	LEAD

LEAD /	LEAD AGENCY	ODO					
PROJEC	PROJECT NAME	US30E	US30B: Bridge Over Private Driveway	Λ			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21704	Repairs	Repairs to prevent concrete fragments breaking off and falling from the structure	s breaking off ar	nd falling from t	the structure	Roadway and
MTIP ID	71193	and deck pave the structure.	and deck pavement repair to restore the traveling surface and extend the life of the structure.	he traveling suri	face and exteno	the life of	bridge
RTP ID	12092						
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2022	STBG - STATE	\$238,143	\$27,257	0\$	\$265,400
Purchase right of way	ght of way	2023	STBG - STATE	\$12,008	\$1,374	0\$	\$13,382
Construction	u	2024	STBG - STATE	\$1,494,233	\$171,022	0\$	\$1,665,255
			FY 21-26 Totals	\$1,744,384	\$199,653	0\$	\$1,944,037
		Ш	Estimated Project Cost (YOE\$)	\$1,744,384	\$199,653	0\$	\$1,944,037

LEAD ,	LEAD AGENCY	ODOT					
PROJEC	PROJECT NAME	US30E	US30B: St. Johns Bridge				
Proje	Project IDs		Projec	Project Description			Project Type
ОБОТ КЕУ	21707	Repairs	Repairs of the columns and arched concrete connection between the columns to	increte connecti	on between the	e columns to	Roadway and
MTIP ID	71194	prevent	prevent concrete tragments breaking off and falling from the structure. This project will increase safety for those below and extend the life of the structure.	off and falling frelow and extend	om the structur d the life of the	re. This structure.	bridge
RTP ID	12092	•					
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	tht of way	2021	STBG - STATE	\$222,765	\$25,496	0\$	\$248,261
Construction	u	2022	STBG - STATE	\$10,225,975 \$1,170,409	\$1,170,409	0\$	\$11,396,384
			FY 21-26 Totals \$10,448,740 \$1,195,905	\$10,448,740	\$1,195,905	0\$	\$11,644,645
			Prior Years' Totals \$1,471,587	\$1,471,587	\$168,430	0\$	\$1,640,017
		Ш	Estimated Project Cost (YOE\$) \$11,920,327 \$1,364,335	\$11,920,327	\$1,364,335	0\$	\$13,284,662



LEAD #	LEAD AGENCY	TOOO					
PROJEC	PROJECT NAME	Wash	Washington County Safety Bike and Pedestrian Improvements	Pedestrian Imp	provements		
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	21615	Upgrad	Upgrade street lighting signals signs striping install stop approach activated	riping install st	op approach act	ivated	Roadway and
MTIP ID	71169	warning s locations.	warning system install bike lanes and flashing lights to increase safety at various locations.	lashing lights tc	increase safety	at various	bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary .	Preliminary engineering	2021	AC-HSIP (92.22%)	\$156,750	\$13,224	0\$	\$169,974
Preliminary engine	engineering	2021	HSIP (92.22)	\$511,677	\$43,167	0\$	\$554,844
Purchase right of way	tht of way	2022	AC-HSIP (92.22%)	\$52,327	\$4,414	0\$	\$56,741
Purchase right of way	tht of way	2022	HSIP (92.22)	\$34,928	\$2,947	0\$	\$37,875
Other		2023	HSIP (92.22)	\$51,349	\$4,332	0\$	\$55,681
Other		2023	AC-HSIP (92.22%)	\$13,913	\$1,174	0\$	\$15,087
Construction	_	2023	HSIP (92.22)	\$2,052,054	\$173,118	0\$	\$2,225,172
Construction	u	2023	AC-HSIP (92.22%)	\$514,179	\$43,378	0\$	\$557,557
			FY 21-26 Totals	\$3,387,177	\$285,754	\$0	\$3,672,931
		ш	Estimated Project Cost (YOE\$)	\$3,387,177	\$285,754	\$0	\$3,672,931

LEAD,	LEAD AGENCY	ODO	· · · · · · · · · · · · · · · · · · ·	i de			
PROJE(PROJECT NAME	West	West Systemic Signals and Illumination (UDOT)	ion (UDOI)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20376	Illumin	Illumination intersection work bike and pedestrian improvements ADA upgrades	d pedestrian im	provements AL	A upgrades	Roadway and
MTIP ID	70958	signal w improve	signal work signs warnings striping medians utility relocation and other safety improvements at various locations (PGB-ARTS)	dians utility relc 'B-ARTS)	cation and oth	er safety	bridge
RTP ID		•					
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	HSIP (92.22)	\$4,808,674	\$405,676	\$0	\$5,214,350
			FY 21-26 Totals	\$4,808,674	\$405,676	0\$	\$5,214,350
			Prior Years' Totals	\$1,628,743	\$137,406	0\$	\$1,766,149
		Ш	Estimated Project Cost (YOE\$)	\$6,437,417	\$543,082	0\$	\$6,980,499

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LEAD #	LEAD AGENCY	Orego	Oregon City				
PROJEC	PROJECT NAME	Beave	Beavercreek Rd: Molalla Ave - S Maplelane Rd (Oregon City)	plelane Rd (Ore	gon City)		
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	21619	Improv	Improvements including signals signs flashing lights and signal connectivity	flashing lights a	nd signal conne	ectivity	Roadway and
MTIP ID	71173	improve	mprovements to increase safety on this road.	iis road.			bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$197,016	\$16,621	0\$	\$213,637
Construction	u	2023	HSIP (92.22)	\$923,806	\$77,935	0\$	\$1,001,741
			FY 21-26 Totals	\$1,120,822	\$94,556	0\$	\$1,215,378
		Ш	Estimated Project Cost (YOE\$)	\$1,120,822	\$94,556	0\$	\$1,215,378

LEAD ,	LEAD AGENCY	Orego	Oregon City				
PROJEC	PROJECT NAME	Willan	Willamette Falls Path/OR 99E Enhance: 10th St - Railroad Ave	ice: 10th St - Ra	ilroad Ave		
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22142	Comple	Complete project development activities to develop future Willamette Falls	ies to develop fu	uture Willamet	te Falls	Active
MTIP ID	71088	Shared	Shared Use Path and OR99E (MCLoughlin Blvd) pedestrian bicycle and streetscape enhancements between 10th Street and Railroad Ave.	lin Blvd) pedest nd Railroad Ave.	rian bicycle ant	d streetscape	Iransportation
RTP ID	10123						
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2022	STBG-URBAN	\$673,000	\$77,028	0\$	\$750,028
			FY 21-26 Totals	\$673,000	\$77,028	0\$	\$750,028
		ŭ	Estimated Project Cost (YOE\$)	\$673,000	\$77,028	0\$	\$750,028

LEAD A	LEAD AGENCY	Port	Port of Portland				
PROJEC	PROJECT NAME	40 Mi	40 Mile Loop: Blue Lake Park - Sundial & Harlow Rd	ial & Harlow Rd			
Proje	Project IDs		Project	Project Description			Project Type
ОDOT КЕУ	17270	The pro	The project consists of two approved segments: (1) Blue Lake Park to Sundial Rd	segments: (1) Bl	ue Lake Park to	Sundial Rd	Trail
MTIP ID	70007	which 1 Segmen	which 1.7 miles of mixed-trail improvements and (2) Harlow Rd which is SE of Segment 1 and includes 1900 ft running on the west Band of the Sandy River	ments and (2) H ig on the west B	larlow Rd whicl and of the Saກເ	is SE of dy River	
RTP ID	10408	(2010-1	(2010-13 RFFA Award)	ı			
Чd	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STP - Urban	\$2,004,083	\$229,376	\$0	\$2,233,459
			FY 21-26 Totals	\$2,004,083	\$229,376	0\$	\$2,233,459
			Prior Years' Totals	\$1,068,338	\$122,276	\$15,462	\$1,206,076
		E	Estimated Project Cost (YOE\$)	\$3,072,421	\$351,652	\$15,462	\$3,439,535



LEAD /	LEAD AGENCY	Port	Port of Portland				
PROJEC	PROJECT NAME	NE Co	NE Columbia Blvd: Cully Blvd and Alderwood Rd	derwood Rd			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	18837	Install c	Install or replace a signal and construct a taper on Columbia Blvd's east leg at	t a taper on Col	umbia Blvd's e	ast leg at	Roadway and
MTIP ID	70778	Alderwo	Alderwood for future side-by-side left-turn lanes between Cully and Alderwood. Construct sidewalks at the Columbia/Alderwood intersection and on N side to Cully	turn lanes betw Ilderwood inters	een Cully and / section and on	Alderwood. N side to Cully	bridge
RTP ID						•	
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	L	2021	STBG - STATE	\$2,585,775	\$295,954	0\$	\$2,881,729
			FY 21-26 Totals	\$2,585,775	\$295,954	0\$	\$2,881,729
			Prior Years' Totals	\$1,953,081	\$223,539	0\$	\$2,176,620
		ш́	Estimated Project Cost (YOE\$)	\$4,538,856	\$519,493	0\$	\$5,058,349

LEAD /	LEAD AGENCY	Portland	pue				
PROJEC	PROJECT NAME	Brent	Brentwood Darlington Bike/Ped Improvements	provements			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20812	Connec	Connect to parks community gardens and shopping. Sidewalks fill gaps in the ped	and shopping. §	sidewalks fill ga	ps in the ped	Active
MTIP ID	70877	network	network. Greenway provides connections between bikeways in Springwater corridor(2019-21 RFFA Award)	ons between bil	ceways in Sprin	gwater	Transportation
RTP ID	11193						
Pr	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ght of way	2021	TA - URBAN	\$153,025	\$17,514	\$135,511	\$306,050
Other		2021	TA - URBAN	\$44,865	\$5,135	0\$	\$50,000
Construction	u	2021	TA - URBAN	\$1,043,610	\$119,446	\$119,446 \$2,850,316	\$4,013,372
			FY 21-26 Totals	\$1,241,500	\$142,095	\$2,985,827	\$4,369,422
			Prior Years' Totals	\$918,500	\$105,126	\$813,374	\$1,837,000
		Ü	Estimated Project Cost (YOE\$)	\$2,160,000	\$247,221	\$3,799,201	\$6,206,422

LEAD /	LEAD AGENCY	Portland	pue				
PROJEC	PROJECT NAME	Centra	Central City in Motion				
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	19299	The pro	The project will develop a strategy that identifies multimodal safety projects and	t identifies mul	timodal safety	projects and	Bike
MTIP ID	2092	prioritiz	prioritizes investments in the Portland Central City.	Central City.			
RTP ID	10232	I					
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	tht of way	2021	LOCAL	0\$	0\$	\$111,445	\$111,445
Construction	u	2021	LOCAL	0\$	\$0	\$4,346,372	\$4,346,372
			FY 21-26 Totals	0\$	0\$	\$4,457,817	\$4,457,817
			Prior Years' Totals	\$852,000	\$97,515	\$722,166	\$1,671,681
		E	Estimated Project Cost (YOE\$)	\$852,000	\$97,515	\$5,179,983	\$6,129,498



LEAD AGENCY	GENCY	Portland	and				
PROJECT NAM	T NAME	Centr	Central Systemic Signal and Illumination (Portland)	ition (Portland)			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	20334	Illumin	llumination; intersection work; bike and pedestrian improvements; ADA	ınd pedestrian ir	mprovements; ,	ADA	Roadway and
MTIP ID	70949	upgrade other sa	upgrades; signal work; signs; warnings; striping; medians; utility relocation; and other safety improvements.	; striping; media	ıns; utility reloc	ation; and	bridge
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ht of way	2021	HSIP (92.22)	\$58,560	\$4,940	0\$	\$63,500
Other		2021	HSIP (92.22)	\$16,692	\$1,408	0\$	\$18,100
Construction		2021	HSIP (92.22)	\$735,233	\$62,027	0\$	\$797,260
			FY 21-26 Totals	\$810,485	\$68,375	0\$	\$878,860
			Prior Years' Totals	\$904,396	\$76,298	0\$	\$980,694
		Е	Estimated Project Cost (YOE\$)	\$1,714,881	\$144,673	0\$	\$1,859,554

LEAD ,	LEAD AGENCY	Portland	and				
PROJEC	PROJECT NAME	City o	City of Portland Safety Project				
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	20304	Work	Work may include intersection improvements upgrade to ADA; utility relocation;	vements upgrad	e to ADA; utilit	y relocation;	Roadway and
MTIP ID	70944	signal w safety ir	signal work; medians; traffic seperators; striping; signing; warnings and other safety improvements. (ARTS PGB)	s; striping; signi	ng; warnings aı	nd other	bridge
RTP ID			-				
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ght of way	2021	HSIP	\$111,586	\$9,414	0\$	\$121,000
Other		2021	dISH	\$57,176	\$4,824	0\$	\$62,000
Construction	u	2021	HSIP	\$5,311,273	\$448,077	0\$	\$5,759,350
			FY 21-26 Totals	\$5,480,035	\$462,315	0\$	\$5,942,350
			Prior Years' Totals	\$1,239,806	\$104,594	\$0	\$1,344,400
		Е	Estimated Project Cost (YOE\$)	\$6,719,841	606′995\$	0\$	\$7,286,750

LEAD #	LEAD AGENCY	Portland	put				
PROJEC	PROJECT NAME	Cully/	Cully/Columbia & Columbia/Alderwood Improvements	ood Improvem	ents		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22132	Constru	Construct intersection safety improvements on Columbia Cully and Alderwood	ments on Colun	bia Cully and A	Alderwood	Roadway and
MTIP ID	71092	includin _. railroad	including sidewalks curb and gutter improvements tree landscaping and new railroad crossing on Cully.	provements tre	e landscaping a	and new	bridge
RTP ID	10336	ı					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	STBG-URBAN	\$1,016,176	\$116,306	0\$	\$1,132,482
Purchase right of way	ht of way	2023	STBG-URBAN	\$193,304	\$22,125	0\$	\$215,429
Other		2023	STBG-URBAN	\$44,865	\$5,135	0\$	\$20,000
Construction	L	2025	STBG-URBAN	\$2,179,847	\$249,493	\$1,256,942	\$3,686,282
			FY 21-26 Totals	\$3,434,192	\$393,059	\$1,256,942	\$5,084,193
		ŭ	Estimated Project Cost (YOE\$)	\$3,434,192	\$393,059	\$1,256,942	\$5,084,193



LEAD A	LEAD AGENCY	Portland	and				
PROJEC	PROJECT NAME	East P	East Portland Access to Employment and Education	t and Education	_		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	19297	At varic	At various locations in east Portland build and improve sidewalks crossings bus	uild and improv	e sidewalks cro	ossings bus	Pedestrian
MTIP ID	70675	stops bi busines	stops bike facilities and other safety facilities to provide improved access to jobs businesses and education opportunities	cilities to provic	de improved ac	cess to jobs	
RTP ID	11196	T	-				
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	OTHER - LOCAL	0\$	0\$	\$80,000	\$80,000
Construction	ر	2021	STBG-URBAN	\$3,737,420	\$427,764	\$5,205,001	\$9,370,185
			FY 21-26 Totals	\$3,737,420	\$427,764	\$5,285,001	\$9,450,185
			Prior Years' Totals	\$1,529,579	\$175,067	\$613,298	\$2,317,944
		نن	Estimated Project Cost (YOE\$)	\$5,266,999	\$602,831	\$5,898,299	\$11,768,129

LEAD /	LEAD AGENCY	Portland	pue					
PROJEC	PROJECT NAME	I-205	I-205 Undercrossing (Sullivans Gulch)	(1				
Proje	Project IDs		Project	Project Description			Project Type	
орот кеу	20332	Provide	Provide safe access across I-205 for bicyclists and pedestrians by improving local	cyclists and ped	estrians by imp	roving local	Active	
MTIP ID	70947	street cand ped	street corridors on the west side of I-205 and constructing an east-west bicycle and pedestrian undercrossing.	05 and construc	ting an east-we	est bicycle	Transportation	
RTP ID		-)					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount	
				Amount	Local Match	Amount		
Purchase right of way	tht of way	2021	OTHER - LOCAL	0\$	0\$	\$107,900	\$107,900	
Construction		2021	OTHER - LOCAL	0\$	0\$	\$645,047	\$645,047	
Construction		2021	TA - STATE	\$1,682,468	\$192,566	0\$	\$1,875,034	
			FY 21-26 Totals	\$1,682,468	\$192,566	\$752,947	\$2,627,981	
			Prior Years' Totals	0\$	0\$	\$962,209	\$962,209	
		Ш	Estimated Project Cost (YOE\$)	\$1,682,468	\$192,566	\$1,715,156	\$3,590,190	

LEAD A	LEAD AGENCY	Portland	and				
PROJECT NAMI	T NAME	Jade a	Jade and Montavilla Multi-modal Improvements	provements			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20814	Constru	Construct multi-modal improvements on key pedestrian and bicycle routes within	on key pedestr	ian and bicycle	routes within	Active
MTIP ID	70884	and connecti RFFA Award)	and connecting to the Jade District and Montavilla Neighborhood Centers. (19-21 RFFA Award)	i Montavilla Ne	ighborhood Ce	nters. (19-21	Transportation
RTP ID	11572						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ht of way	2021	TA - URBAN	\$193,075	\$52,098	\$170,977	\$386,150
Other		2021	OTHER - LOCAL	0\$	0\$	\$50,000	\$50,000
Construction		2021	STBG-URBAN	\$1,768,475	\$202,410	\$3,069,907	\$5,040,792
			FY 21-26 Totals	\$1,961,550	\$224,508	\$3,290,884	\$5,476,942
			Prior Years' Totals	\$1,158,450	\$132,590	\$1,025,859	\$2,316,899
		Ш	Estimated Project Cost (YOE\$)	\$3,120,000	\$357,098	\$4,316,743	\$7,793,841



LEAD AGENCY	GENCY	Portland	pue				
PROJECT NAM	T NAME	II Will	N Willamette Blvd ATC: N Rosa Parks Ave - N Richmond Ave	s Ave - N Richm	ond Ave		
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	22133	Constru	Construct/Enhance existing bike lanes along Willamette Blvd from Rosa Parks to	along Willamet	te Blvd from R	osa Parks to	Active
MTIP ID	71127	lda and enhance	Ida and extend bike lanes from Ida to Richmond. Intersection improvements to enhance pedestrian safety and transit access along the corridor.	Sichmond. Inter access along th	section improv e corridor.	ements to	Transportation
RTP ID	11842)			
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary engineering	engineering	2022	CMAQ - URBAN	\$1,185,333	\$135,667	0\$	\$1,321,000
Purchase right of way	ht of way	2024	CMAQ - URBAN	\$44,865	\$5,135	0\$	\$50,000
Other		2024	CMAQ - URBAN	\$44,865	\$5,135	0\$	\$50,000
Construction		2026	CMAQ - URBAN	\$3,180,937	\$364,072	\$1,139,991	\$4,685,000
			FY 21-26 Totals	\$4,456,000	\$510,009	\$1,139,991	\$6,106,000
		نن	Estimated Project Cost (YOE\$)	\$4,456,000	\$510,009	\$1,139,991	\$6,106,000

LEAD AGENCY	GENCY	Portland	and				
PROJECT NAMI	T NAME	NE 12	NE 122nd Ave Safety & Access: Beech - Wasco	th -∄Wasco			
Projec	Project IDs		Project	Project Description			Project Type
ODOT KEY	22134	Constru	Construct new enhanced and marked crossings in the vicinity of NE Beech NE	crossings in the	vicinity of NE	3eech NE	Active
MTIP ID	71098	Sacram	Sacramento/ NE Brazee NE Broadway/ NE Hancock St and NE Wasco St/NE Multnomah St. (Transit: ETC)	NE Hancock St	and NE Wasco	St/NE	Transportation
RTP ID	11868	I					
Phase	ase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary engineering	ngineering	2022	STBG-URBAN	\$908,740	\$104,009	\$713,627	\$1,726,376
Other		2024	STBG-URBAN	\$89,730	\$10,270	0\$	\$100,000
Construction		2026	STBG-URBAN	\$3,545,230	\$405,767	\$713,627	\$4,664,624
			FY 21-26 Totals	\$4,543,700	\$520,046	\$520,046 \$1,427,254	\$6,491,000
		Ш	Estimated Project Cost (YOE\$)	\$4,543,700	\$520,046	\$1,427,254	\$6,491,000

LEAD	LEAD AGENCY	Portland	and				
PROJE(PROJECT NAME	NE 12	NE 12th Ave Over I-84 & Union Pacific RR Bridge (Portland)	ic RR Bridge (Pc	ortland)	•	
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21283	On NE	On NE 12th Ave over I-84 construct protective fencing for the 12th Ave bridge to	otective fencing	for the 12th Av	ve bridge to	Roadway and
MTIP ID	71054	provide	provide safety to the traveling motorist and to meet currect safety standards as required by HB2017.	t and to meet c	urrect sarety sta	andards as	bridge
RTP ID							
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STBG - STATE	\$1,589,049	\$181,874	\$0	\$1,770,923
			FY 21-26 Totals	\$1,589,049	\$181,874	0\$	\$1,770,923
			Prior Years' Totals	\$368,181	\$42,140	\$0	\$410,321
		E	Estimated Project Cost (YOE\$)	\$1,957,230	\$224,014	0\$	\$2,181,244



LEAD A	LEAD AGENCY	Portland	pue				
PROJEC	PROJECT NAME	NE Fre	NE Fremont St: 102nd Ave - 122nd Ave (Portland)	ve (Portland)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21631	Install s	Install speed bumps to reduce vehicle speeds to 30 MPH to improve safety on this	speeds to 30 M	IPH to improve	safety on this	Roadway and
MTIP ID	71185	section.					bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal Amount	Minimum Local Match	Other Amount	Total Amount
Preliminary engineering	engineering	2021	HSIP (92.22)	\$30,869	\$2,604	0\$	\$33,473
Construction	_	2023	HSIP (92.22)	\$135,515	\$11,433	0\$	\$146,948
			FY 21-26 Totals	\$166,384	\$14,037	0\$	\$180,421
		Ш	Estimated Project Cost (YOE\$)	\$166,384	\$14,037	0\$	\$180,421

LEAD ,	LEAD AGENCY	Portland	put				
PROJEC	PROJECT NAME	NE Ha	NE Halsey Street Bike/Ped/Transit Improvements	mprovements			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	20813	Signal ii	Signal improvements intersection redesigns bus stop improvements and high-	esigns bus stop	improvements	and high-	Roadway and
MTIP ID	70880	priority 92nd pa	priority crossings on NE Halsey between 65th and 92nd bikeway from 65th to 92nd path from the 82nd Ave. MAX station (19-21 FFFA Award)	en 65th and 92n ation (19-21 FFF	d bikeway fron A Award)	n 65th to	bridge
RTP ID	11559						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ght of way	2021	STBG-URBAN	\$147,320	\$16,861	0\$	\$164,181
Other		2021	STBG-URBAN	\$44,865	\$5,135	0\$	\$50,000
Construction	u	2021	STBG-URBAN	\$1,071,762	\$122,668	\$2,485,309	\$3,679,739
Construction	u	2021	TA - URBAN	\$250,598	\$28,682	0\$	\$279,280
			FY 21-26 Totals	\$1,514,545	\$173,346	\$2,485,309	\$4,173,200
			Prior Years' Totals	\$839,055	\$96,034	0\$	\$935,089
		Ü	Estimated Project Cost (YOE\$)	\$2,353,600	\$269,380	\$2,485,309	\$5,108,289

								~	_	۵.	61
		Project Type	Roadway and	bridge		Total Amount		\$70,478	\$341,394	\$411,872	\$411,872
			sing distances	e. Install		Other	Amount	0\$	0\$	0\$	\$0
	d)		y reducing cros	fic flow at a tim fety.		Minimum	Local Match	\$5,483	\$26,560	\$32,043	\$32,043
	rd Ave (Portlan	Project Description	nprove safety by	lirection of trafi visibility and sa	•	Federal	Amount	\$64,995	\$314,834	\$379,829	\$379,829
put	NE Killingsworth St: MLK Jr Blvd - 33rd Ave (Portland)	Project	Install pedestrian crossing islands to improve safety by reducing crossing distances	and allowing pedestrians to cross one direction of traffic flow at a time. Instal advance pedestrian signals to increase visibility and safety.		Fund Type		HSIP (92.22)	HSIP (92.22)	FY 21-26 Totals	Estimated Project Cost (YOE\$)
Portland	NE Kil		Install	and allo advance		Year		2021	2023		Е
LEAD AGENCY	PROJECT NAME	Project IDs	21626	71180	11846	Phase		Preliminary engineering	J		
LEAD /	PROJEC	Proje	ОДОТ КЕУ	MTIP ID	RTP ID	Чd		Preliminary ₁	Construction		



		Project Type	Active	Transportation		Total Amount		\$1,100,000	\$87,000	\$50,000	\$3,486,000	\$4,723,000	\$4,723,000
			vements on	omplete eft turn lane		Other	Amount	0\$	0\$	0\$	\$1,799,786	\$1,799,786	\$1,799,786
	and		elization impro	d Highland St. C Add protected l		Minimum	Local Match	\$112,970	\$8,935	\$5,135	\$173,174	\$300,214	\$300,214
	ısit: Cook-阳ighl	Project Description	ersection chann	een Cook St and Killingsworth. <i>I</i>)	Federal	Amount	\$987,030	\$78,065	\$44,865	\$1,513,040	\$2,623,000	\$2,623,000
and	NE MLK Blvd Safety & Access to Transit: Cook-Bighland	Project	Construct pedestrian crossing and intersection channelization improvements on	NE MLK Bivd at various locations between Cook St and Highland St. Complete signal upgrades at NE Fremont and NE Killingsworth. Add protected left turn lane	at both intersection	Fund Type		STBG-URBAN	STBG-URBAN	STBG-URBAN	STBG-URBAN	FY 21-26 Totals	Estimated Project Cost (YOE\$)
Portland	NE MI		Constru	NE MLK signal u	at both	Year		2022	2024	2024	2026		Ш
LEAD AGENCY	PROJECT NAME	Project IDs	22135	71090	10302	Phase		Preliminary engineering	ght of way		u		
LEAD /	PROJEC	Proje	ОДОТ КЕУ	MTIP ID	RTP ID	PF		Preliminary	Purchase right of way	Other	Construction		

LEAD /	LEAD AGENCY	Portland	pui				
PROJEC	PROJECT NAME	NW T	NW Thurman St Over Macleay Park				
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	20384	Paint th	Paint the bridge to extend the life of the structure.	he structure.			Roadway and
MTIP ID	09602	n .					bridge
RTP ID		ī					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2022	STBG - STATE	\$3,907,149	\$447,191	0\$	\$4,354,340
			FY 21-26 Totals	\$3,907,149	\$447,191	0\$	\$4,354,340
			Prior Years' Totals	\$476,421	\$54,529	\$0	\$530,950
		Ľ	Estimated Project Cost (YOE\$)	\$4,383,570	\$501,720	0\$	\$4,885,290

LEAD ,	LEAD AGENCY	Portland	pue				
PROJEC	PROJECT NAME	OR991	OR99W/Barbur Blvd Area: Sidewalk Infill Projects	Infill Projects			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	21407	Comple	Complete sidewalk projects at multiple locations near and around OR99W (SW	e locations near	and around Ol	R99W (SW	Pedestrian
MTIP ID	71060	Barbur Huber S	Barbur Bivd) install flashing lights at the intersection of SW 40th Ave and SW Huber St to create a safer environment for pedestrians along this section of	ie intersection o t for pedestrianន	t SW 40th Ave ; s along this sect	and SW tion of	
RTP ID		transpo	transportation corridor)		
Иd	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STP - Urban	\$1,361,641	\$155,846	\$0	\$1,517,487
			FY 21-26 Totals	\$1,361,641	\$155,846	0\$	\$1,517,487
			Prior Years' Totals	\$377,763	\$43,237	\$0	\$421,000
		E	Estimated Project Cost (YOE\$)	\$1,739,404	\$199,083	0\$	\$1,938,487



LEAD AGENCY	GENCY	Portland	and				
PROJECT NAME	T NAME	Red E	Red Electric Trail: SW Bertha - SW Capitol Hwy	apitol Hwy			
Projec	Project IDs		Project	Project Description			Project Type
ODOT KEY	17268	Provide	Provide east-west route for pedestrians and cyclists in SW Portland with an off-	ns and cyclists in	n SW Portland	with an off-	Trail
MTIP ID	70005	street ti	street trail and relocate water line as part of project scope.	oart of project s	cobe.		
RTP ID	10354						
Phase	ase ase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction		2021	CMAQ	\$1,359,410	\$155,591	0\$	\$1,515,001
Construction		2021	STP - Urban	\$196,160	\$22,451	0\$	\$218,611
Construction		2021	OTHER	0\$	0\$	\$0 \$1,727,616	\$1,727,616
			FY 21-26 Totals	\$1,555,570	\$178,042	\$1,727,616	\$3,461,228
			Prior Years' Totals	\$576,644	\$65,999	\$428,271	\$1,070,914
		Ш	Estimated Project Cost (YOE\$)	\$2,132,214	\$244,041	\$2,155,887	\$4,532,142

LEAD /	LEAD AGENCY	Portland	and				
PROJEC	PROJECT NAME	SE Bel	SE Belmont St: 7th Ave - 34th Ave (Portland)	ortland)			
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	21627	Install	Install lighting at 21 intersections to improve visibility and safety.	nprove visibility	and safety.		Roadway and
MTIP ID	71181						bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$48,902	\$4,126	0\$	\$53,028
Construction	L	2023	HSIP (92.22)	\$214,467	\$18,093	0\$	\$232,560
			FY 21-26 Totals	\$263,369	\$22,219	0\$	\$285,588
		Ш	Estimated Project Cost (YOE\$)	\$263,369	\$22,219	\$0	\$285,588

	174th Ave (Portland)	Project Description Project Type	Convert existing two-way left turn lane to a raised median to improve safety on Roadway and	bridge		Federal Minimum Other Total Amount	Amount Local Match Amount	\$444,883 \$37,532 \$0 \$482,415) \$1,949,044 \$164,428 \$0 \$2,113,472	FY 21-26 Totals \$2,393,927 \$201,960 \$0 \$2,595,887	200 200 03
	(F	on	ed median to impro								2201 050
	74th Ave (Portland	Project Descripti	turn lane to a raise			Federa	Amour	\$444,8	\$1,949,0		1,530%
land	SE Division St: 148th Ave - 174th Ave (Portland)		rt existing two-way left	ction.		Fund Type		HSIP (92.22)	HSIP (92.22)	FY 21-26	Catimated Drainet Cart (VOE¢)
Portland	SE Div		Conve	this section.		Year		2021	2023		
LEAD AGENCY	PROJECT NAME	Project IDs	21629	71183	12095	Phase		Preliminary engineering	٦		
LEAD /	PROJEC	Proje	ОDOT КЕУ	MTIP ID	RTP ID	Ph		Preliminary	Construction		



LEAD /	LEAD AGENCY	Portland	pue				
PROJEC	PROJECT NAME	SE Fla	SE Flavel St at 72nd Ave (Portland)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21635	Rebuilc	Rebuild the traffic signal adding left turn capability and add lighting to improve	rn capability ar	ıd add lighting t	o improve	Roadway and
MTIP ID	71189	satety a	satety at this intersection.				bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$164,154	\$13,849	0\$	\$178,003
Construction	C	2023	HSIP (92.22)	\$776,826	\$65,536	0\$	\$842,362
			FY 21-26 Totals	\$940,980	\$86,67\$	0\$	\$1,020,365
		Ш	Estimated Project Cost (YOE\$)	\$940,980	\$79,385	0\$	\$1,020,365

LEAD #	LEAD AGENCY	Portland	put				
PROJEC	PROJECT NAME	SE Fos	SE Foster Rd: Barbara Welch Rd - Jenne Rd (Portland)	ine Rd (Portlan	(p)		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21622	Install r	Install rumble strips on this section of road to improve safety on this section	road to improw	e safety on this	section	Roadway and
MTIP ID	71176						bridge
RTP ID	11860						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$28,749	\$2,425	0\$	\$31,174
Construction	u	2023	HSIP (92.22)	\$128,434	\$10,835	0\$	\$139,269
			FY 21-26 Totals	\$157,183	\$13,260	0\$	\$170,443
		نت	Estimated Project Cost (YOE\$)	\$157,183	\$13,260	0\$	\$170,443

								37	35	32	12
		Project Type	Roadway and	bridge		Total Amount		\$181,737	\$796,195	\$977,932	\$977,932
			ackplates to			Other	Amount	0\$	\$0	0\$	0\$
			er heads and ba			Minimum	Local Match	\$14,139	\$61,944	\$76,083	\$76,083
	(Portland)	Project Description	signal with large			Federal	Amount	\$167,598	\$734,251	\$901,849	\$901,849
pui	SE Gladstone St at Cesar Chavez Blvd (Portland)	Project	Install left turn lanes and upgrade the signal with larger heads and backplates to	mprove safety at this intersection.		Fund Type		HSIP (92.22)	HSIP (92.22)	FY 21-26 Totals	Estimated Project Cost (YOE\$)
Portland	SE Gla		Install	improve		Year		2021	2023		ŭ
LEAD AGENCY	PROJECT NAME	Project IDs	21634	71188	12095	Phase		Preliminary engineering	L		
LEAD /	PROJEC	Proje	ОБОТ КЕУ	MTIP ID	RTP ID	Чd		Preliminary	Construction		



LEAD #	LEAD AGENCY	Portland	and				
PROJEC	PROJECT NAME	SE Mt	SE Mt Scott Blvd: 101st Ave - 104th Ave (Portland)	ve (Portland)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21620	Install §	Install guardrail and reflective delineators. Improve curve signage to increase	ors. Improve cu	urve signage to	increase	Roadway and
MTIP ID	71174	satety c	safety on this section.				bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal Amount	Minimum Local Match	Other Amount	Total Amount
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$16,492	\$1,391	0\$	\$17,883
Construction	u	2023	HSIP (92.22)	\$73,829	\$6,228	0\$	\$80,057
			FY 21-26 Totals	\$90,321	\$7,619	0\$	\$97,940
		Ш	Estimated Project Cost (YOE\$)	\$90,321	\$7,619	\$0	\$97,940

LEAD /	LEAD AGENCY	Portland	pue				
PROJEC	PROJECT NAME	SE Sta	SE Stark St: 148th Ave - 162nd Ave (Portland)	Portland)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21630	Conver	Convert existing two-way left turn lane to a raised median to improve safety on	e to a raised me	dian to improv	e safety on	Roadway and
MTIP ID	71184	this section.	tion.				bridge
RTP ID	12095						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$241,415	\$20,367	0\$	\$261,782
Construction	u	2023	HSIP (92.22)	\$1,057,646	\$89,227	0\$	\$1,146,873
			FY 21-26 Totals	\$1,299,061	\$109,594	0\$	\$1,408,655
		Ш	Estimated Project Cost (YOE\$)	\$1,299,061	\$109,594	\$0	\$1,408,655

LEAD /	LEAD AGENCY	Portland	put				
PROJEC	PROJECT NAME	Stark	Stark & Washington Safety: SE 92nd Ave - SE 109th Ave	Ave - SE 109th	Ave		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22138	Constru	Construct protected bike lanes protected signal phasing for peds and bikes transit	ted signal phasi	ng for peds and	d bikes transit	Active
MTIP ID	71091	islands t distance	islands to improve transit operations and comfort ped islands to shorten crossing distance and signal controllerupgrades to better manage speeds and traffic flow.	and comfort ped s to better mana	islands to shoi ge speeds and	ten crossing traffic flow.	Transportation
RTP ID	10319	Ī)				
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2022	STBG-URBAN	\$585,040	\$66,960	0\$	\$652,000
Purchase right of way	ght of way	2024	STBG-URBAN	\$404,682	\$46,318	0\$	\$451,000
Other		2024	STBG-URBAN	\$44,865	\$5,135	0\$	\$50,000
Construction	u	2026	STBG-URBAN	\$4,297,413	\$491,858	\$589,729	\$5,379,000
			FY 21-26 Totals	\$5,332,000	\$610,271	\$589,729	\$6,532,000
		E	Estimated Project Cost (YOE\$)	\$5,332,000	\$610,271	\$589,729	\$6,532,000



LEAD A	LEAD AGENCY	Portland	pui				
PROJECT NAME	T NAME	SW Ba	SW Barbur Blvd: SW Caruthers St - SW Capitol Hwy	W Capitol Hwy			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	18316	Provide	Provide preliminary advanced and final PS&E for the Installation of two (2) CCTV	I PS&E for the I	nstallation of t	wo (2) CCTV	Transportation
MTIP ID	70653	cameras	cameras moving one (1) CCTV camera to a different location and Installing 288 count Fiber Optic cable along Barbur Boulevard from SW Caruthers at 4th Ave to	o a different lo oulevard from S	cation and Inst	alling 288 t 4th Ave to	System Management
RTP ID		just south of	thof				Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	_	2021	STP - Urban	\$449,242	\$51,418	0\$	\$500,660
			FY 21-26 Totals	\$449,242	\$51,418	0\$	\$500,660
			Prior Years' Totals	\$80,757	\$9,243	\$0	\$90,000
		ű	Estimated Project Cost (YOE\$)	\$529,999	\$60,661	\$0	\$590,660

LEAD /	LEAD AGENCY	Portland	pue				
PROJEC	PROJECT NAME	SW Sh	SW Shattuck Rd at OR10 (Portland)				
Proje	Project IDs		Projec	Project Description			Project Type
ОБОТ КЕУ	21633	Rebuild	Rebuild traffic signal to increase visibility and accommodate left turn signal heads	lity and accomn	nodate left turn	signal heads	Roadway and
MTIP ID	71187	and pha	and phases on Shattuck Road to improve safety at this intersection.	ove safety at this	s intersection.		bridge
RTP ID	12095	ı					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$180,655	\$15,241	0\$	\$195,896
Purchase right of way	ght of way	2022	HSIP (92.22)	\$33,764	\$2,848	0\$	\$36,612
Construction	u	2024	HSIP (92.22)	\$833,893	\$70,350	0\$	\$904,243
			FY 21-26 Totals	\$1,048,312	\$88,439	0\$	\$1,136,751
		Ü	Estimated Project Cost (YOE\$)	\$1,048,312	\$88,439	0\$	\$1,136,751

LEAD #	LEAD AGENCY	Portland	and				
PROJEC	PROJECT NAME	Trans	Transportation Demand Management (Portland)	nt (Portland)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21593	Throug	Through the Metro RTO program Portland will conduct outreach and education to	land will conduc	ct outreach and	deducation to	Transportation
MTIP ID	71067	connect	connect residents on available bike/ped/transit transportation alternatives and options (2019-21 RFFA Award) Keys 20812/20813/20814.	d/transit transp 812/20813/208	ortation altern 14.	atives and	System Management
RTP ID							Operations
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	TA - URBAN	\$40,000	\$4,578	0\$	\$44,578
Other		2021	STBG-URBAN	\$126,400	\$14,467	0\$	\$140,867
			FY 21-26 Totals	\$166,400	\$19,045	0\$	\$185,445
		Ш	Estimated Project Cost (YOE\$)	\$166,400	\$19,045	0\$	\$185,445



LEAD #	LEAD AGENCY	Portland	put				
PROJEC	PROJECT NAME	W Bur	W Burnside at SW St Clair Ave (Portland)	and)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21624	Install a	Install a pedestrian hybrid beacon to increase pedestrian crossing safety.	าcrease pedestr	ian crossing saf	ety.	Roadway and
MTIP ID	71178						bridge
RTP ID	10250						
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary	Preliminary engineering	2021	HSIP (92.22)	\$105,712	\$8,918	0\$	\$114,630
Construction	u	2023	HSIP (92.22)	\$463,176	\$39,075	0\$	\$502,251
			FY 21-26 Totals	\$268,888	\$47,993	0\$	\$616,881
		ш	Estimated Project Cost (YOE\$)	\$568,888	\$47,993	0\$	\$616,881

LEAD ,	LEAD AGENCY	Sherwood	poon				
PROJEC	PROJECT NAME	Cedar	Cedar Creek/Tonquin Trail: OR99W - SW Pine St	- SW Pine St			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	18026	Constru	Construct a multi-modal travel corridor within Sherwood between OR99W and	or within Sherwo	od between O	R99W and	Trail
MTIP ID	70480	SW Pine	SW Pine Street.				
RTP ID	10701						
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	۵	2021	CMAQ	\$3,418,526	\$391,266	0\$	\$3,809,792
			FY 21-26 Totals	\$3,418,526	\$391,266	0\$	\$3,809,792
			Prior Years' Totals	\$1,540,868	\$176,359	0\$	\$1,717,227
		Е	Estimated Project Cost (YOE\$)	\$4,959,394	\$567,625	0\$	\$5,527,019

LEAD /	LEAD AGENCY	SMART	RT				
PROJEC	PROJECT NAME	SMAF	SMART Bus and Bus Facilities (Capital) 2021	1) 2021			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20871	Bus an	Bus and Bus Facility Upgrades				Transit
MTIP ID	70901						
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2021	5339 FTA Bus & Bus Facilities	\$80,000	\$20,000	0\$	\$100,000
			FY 21-26 Totals	\$80,000	\$20,000	0\$	\$100,000
		Э	Estimated Project Cost (YOE\$)	\$80,000	\$20,000	0\$	\$100,000

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LEAD #	LEAD AGENCY	SMART	RT				
PROJEC	PROJECT NAME	SMAF	SMART Bus and Bus Facilities (Capital) 2022	1) 2022			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22191	Bus an	Bus and Bus Facility Upgrades				Transit
MTIP ID	71139	ı					
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2022	2022 5339 FTA Bus & Bus Facilities	\$80,000	\$20,000	0\$	\$100,000
			FY 21-26 Totals	\$80,000	\$20,000	0\$	\$100,000
		E	Estimated Project Cost (YOE\$)	\$80,000	\$20,000	0\$	\$100,000

LEAD ,	LEAD AGENCY	SMART	RT				
PROJE(PROJECT NAME	SMAF	SMART Bus and Bus Facilities (Capital) 2023	ul) 2023			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	22194	Bus an	Bus and Bus Facility Upgrades				Transit
MTIP ID	71140	ı					
RTP ID							
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2023	2023 5339 FTA Bus & Bus Facilities	\$80,000	\$20,000	\$0	\$100,000
			FY 21-26 Totals	\$80,000	\$20,000	0\$	\$100,000
		В	Estimated Project Cost (YOE\$)	\$80,000	\$20,000	\$0	\$100,000

LEAD /	LEAD AGENCY	SMART	3T					
PROJEC	PROJECT NAME	SMAR	SMART Bus and Bus Facilities (Capital) 2024	1) 2024				
Proje	Project IDs		Project	Project Description			Project Type	
орот кеу	22197	Bus and	Bus and Bus Facility Upgrades				Transit	
MTIP ID	71141							
RTP ID								
P.	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount	
				Amount	Local Match	Amount		
Transit		2024	2024 5339 FTA Bus & Bus Facilities	\$80,000	\$20,000	\$0	\$100,000	
			FY 21-26 Totals	\$80,000	\$20,000	0\$	\$100,000	
		Ш	Estimated Project Cost (YOE\$)	\$80,000	\$20,000	0\$	\$100,000	



LEAD /	LEAD AGENCY	SMART					
PROJEC	PROJECT NAME	SMART	SMART Bus Purchase/PM/Amenities and Technology 2021	and Technolog	gy 2021		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20874	Mainten	Maintenance and Bus Fleet Replacement and Software	nt and Softwar	ē		Transit
MTIP ID	70904	ı					
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2021	5307	\$298,758	\$74,690	0\$	\$373,448
			FY 21-26 Totals	\$298,758	\$74,690	0\$	\$373,448
		Esi	Estimated Project Cost (YOE\$)	\$298,758	\$74,690	0\$	\$373,448

LEAD ,	LEAD AGENCY	SMART	T				
PROJEC	PROJECT NAME	SMAR	SMART Bus Purchase/PM/Amenities and Technology 2022	s and Technolog	3y 2022		
Proje	Project IDs		Project	Project Description			Project Type
ОDOT КЕУ	22192	Mainter	Maintenance and Bus Fleet Replacement and Software	ent and Softwar	e,		Transit
MTIP ID	71144	I					
RTP ID		T					
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2022	5307 (FF91 - 80/20)	\$298,758	\$74,690	0\$	\$373,448
			FY 21-26 Totals	\$298,758	\$74,690	0\$	\$373,448
		Es	Estimated Project Cost (YOE\$)	\$298,758	\$74,690	0\$	\$373,448

LEAD /	LEAD AGENCY	SMART	ξŢ				
PROJEC	PROJECT NAME	SMAR	SMART Bus Purchase/PM/Amenities and Technology 2023	and Technolog	3y 2023		
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22195	Maintei	Maintenance and Bus Fleet Replacement and Software	ent and Softwar	ė		Transit
MTIP ID	71145	I					
RTP ID		I					
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2023	5307 (FF91 - 80/20)	\$298,758	\$74,690	\$0	\$373,448
			FY 21-26 Totals	\$298,758	\$74,690	0\$	\$373,448
		E	Estimated Project Cost (YOE\$)	\$298,758	\$74,690	0\$	\$373,448



LEAD	LEAD AGENCY	SMART	Σ				
PROJE	PROJECT NAME	SMAR	SMART Bus Purchase/PM/Amenities and Technology 2024	s and Technolog	3y 2024		
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22198	Mainte	Maintenance and Bus Fleet Replacement and Software	ent and Softwar	e.		Transit
MTIP ID	71146	I					
RTP ID		I					
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2024	5307 (FF91 - 80/20)	\$298,758	\$74,690	0\$	\$373,448
			FY 21-26 Totals	\$298,758	\$74,690	0\$	\$373,448
		نف	Estimated Project Cost (YOE\$)	\$298,758	\$74,690	0\$	\$373,448

LEAD	LEAD AGENCY	SMART					
PROJE	PROJECT NAME	SMART	SMART Senior and Disabled Program (2021)	(2021) ر			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20868	Services	Services and Facility Improvements for Elderly and Disabled Customers	r Elderly and Di	sabled Custom	ers	Transit
MTIP ID	70898	I					
RTP ID		T-					
Pł	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2021	5310 (80/20)	\$41,000	\$10,250	0\$	\$51,250
			FY 21-26 Totals	\$41,000	\$10,250	0\$	\$51,250
		ES.	Estimated Project Cost (YOE\$)	\$41,000	\$10,250	\$0	\$51,250

LEAD /	LEAD AGENCY	SMART	\T				
PROJEC	PROJECT NAME	SMAR	SMART Senior and Disabled Program (2022)	n (2022)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22190	Service	Services and Facility Improvements for Elderly and Disabled Customers	r Elderly and Dis	sabled Custome	ers	Transit
MTIP ID	71134	I					
RTP ID		T					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2022	5310 (80/20)	\$41,000	\$10,250	0\$	\$51,250
			FY 21-26 Totals	\$41,000	\$10,250	0\$	\$51,250
		نف	Estimated Project Cost (YOE\$)	\$41,000	\$10,250	0\$	\$51,250



LEAD #	LEAD AGENCY	SMART	Ţ				
PROJEC	PROJECT NAME	SMAR	SMART Senior and Disabled Program (2023)	(2023)			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22193	Services	Services and Facility Improvements for Elderly and Disabled Customers	- Elderly and Di	sabled Custome	srs	Transit
MTIP ID	71135	ı					
RTP ID		T					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2023	5310 (80/20)	\$41,000	\$10,250	0\$	\$51,250
			FY 21-26 Totals	\$41,000	\$10,250	0\$	\$51,250
		Ĕ	Estimated Project Cost (YOE\$)	\$41,000	\$10,250	\$0	\$51,250

LEAD ,	LEAD AGENCY	SMART					
PROJE(PROJECT NAME	SMART	SMART Senior and Disabled Program (2024)	(2024)			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	22196	Services	Services and Facility Improvements for Elderly and Disabled Customers	· Elderly and Dis	sabled Custom	ers	Transit
MTIP ID	71136	T					
RTP ID							
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2024	5310 (80/20)	\$41,000	\$10,250	0\$	\$51,250
			FY 21-26 Totals	\$41,000	\$10,250	0\$	\$51,250
		Est	Estimated Project Cost (YOE\$)	\$41,000	\$10,250	0\$	\$51,250

LEAD /	LEAD AGENCY	Tigard	Б				
PROJEC	PROJECT NAME	Durha	Durham Rd/Upper Boones Ferry Rd. OR99W - I-5	OR99W - I-5			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	18311	Design	Design upgrades to signal hardware and communication. Add adaptive signal	nd communicati	on. Add adapti	ve signal	
MTIP ID	70647	tımıng i	timing and detection				
RTP ID		T					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	u	2021	STP - Urban	\$279,056	\$31,939	\$309,459	\$620,454
			FY 21-26 Totals	\$279,056	\$31,939	\$309,459	\$620,454
			Prior Years' Totals	\$720,943	\$82,516	\$0	\$803,459
		П	Estimated Project Cost (YOE\$)	666'666\$	\$114,455	\$309,459	\$1,423,913



LEAD /	LEAD AGENCY	Tigard	Q				
PROJEC	PROJECT NAME	Fanno	Fanno Crk Trail: Woodard Pk to Bonita Rd/85th Ave - Tualatin BR	ita Rd/85th Ave	e - Tualatin BR		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	19327	This pro	This project will construct four sections of the Fanno Creek Trail from Woodward	is of the Fanno	Creek Trail fror	n Woodward	Trail
MTIP ID	06902	Park to	Park to Bonita Road and 85th Avenue to Tualatin River Bridge in Tigard.	to Tualatin Rive	r Bridge in Tiga	rg.	
RTP ID	10766						
PP	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Construction	٦	2021	OTHER - LOCAL	0\$	0\$	\$1,500,000	\$1,500,000
Construction		2021	CMAQ	\$3,000,000	\$343,363	0\$	\$3,343,363
			FY 21-26 Totals	000'000'8\$	\$343,363	\$1,500,000	\$4,843,363
			Prior Years' Totals	\$1,401,236	\$160,378	0\$	\$1,561,614
		Е	Estimated Project Cost (YOE\$)	\$4,401,236	\$503,741	\$1,500,000	\$6,404,977

LEAD /	LEAD AGENCY	Tigard	7				
PROJEC	PROJECT NAME	North	North Dakota Street: Fanno Creek Bridge	ridge			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20488	Constru	Construct a new single span bridge on the same alignment. Raise the vertica	the same align	ment. Raise the	vertical	Roadway and
MTIP ID	70979	grade li	grade line to improve site distance approaching the railroad crossing.	oroaching the ra	ilroad crossing.		bridge
RTP ID							
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ght of way	2021	STBG - STATE	\$385,839	\$44,161	0\$	\$430,000
Construction	L	2021	STBG - STATE	\$2,170,524	\$248,426	0\$	\$2,418,950
Construction	u	2021	OTHER - LOCAL	0\$	0\$	\$907,940	\$907,940
			FY 21-26 Totals	\$2,556,363	\$292,587	\$907,940	\$3,756,890
			Prior Years' Totals	\$958,316	\$109,684	\$0	\$1,068,000
		ш	Estimated Project Cost (YOE\$)	\$3,514,679	\$402,271	\$907,940	\$4,824,890

		Project Type	Roadway and	bridge		Total Amount		\$668,000	\$668,000	\$332,000	\$1,000,000
			ol; Walnut;	Cat) (ODOT		Other	Amount	\$0	0\$	\$0	0\$
			1cKenzie; Schoo	Rd. (Safety PM		Minimum	Local Match	\$51,970	\$51,970	\$25,830	\$77,800
	P 11.50	Project Description	and Johnson; N	y; and Durham		Federal	Amount	\$616,030	\$616,030	\$306,170	\$922,200
	OR99W (Barbur Blvd): MP 8.01 to MP 11.50	Project	Install Illumination at 72nd Ave; Main and Johnson; McKenzie; School; Walnut;	Frewing; Garrett; Park; Royalty Parkway; and Durham Rd. (Safety PM Cat) (ODOT Safety PGB for Tigard)		Fund Type		HSIP (92.22)	FY 21-26 Totals	Prior Years' Totals	Estimated Project Cost (YOE\$)
Tigard	OR99		Install I	Frewing Safety P	,	Year		2021			Ε
LEAD AGENCY	PROJECT NAME	Project IDs	20439	70992		Phase		u			
LEAD /	PROJEC	Proje	ОБОТ КЕУ	MTIP ID	RTP ID	Ph		Construction			



LEAD A	LEAD AGENCY	Tigard	Ü				
PROJEC	PROJECT NAME	Red R	Red Rock Creek Tr Alignment Study: Fanno Ck Tr-SW 64th	Fanno Ck Tr-SV	V 64th		
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22136	Implen	Implement the Red Rock Trail alignment feasibility study from Fanno Creek Trail	nt feasibility stu	ıdy from Fanno	Creek Trail	Active
MTIP ID	71100	to SW 6 alignme	to SW 64th Street (approximately 2 miles) to identify and evaluate preliminary alignments easement requirements develop prelimiinary cost assessments.	les) to identify a velop prelimiina	and evaluate pr ary cost assessn	eliminary nents.	Iransportation
RTP ID	12008	١					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2022	STBG-URBAN	\$314,055	\$35,945	0\$	\$350,000
			FY 21-26 Totals	\$314,055	\$35,945	0\$	\$350,000
		ш	Estimated Project Cost (YOE\$)	\$314,055	\$35,945	0\$	\$350,000

LEAD /	LEAD AGENCY	TriMet	t				
PROJEC	PROJECT NAME	Bus an	Bus and Rail Preventive Maintenance (RFFA-2021)	e (RFFA-2021)			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	20842	Capital	Capital Maintenance For Bus and Rail (Regional Flexible Fund Allocation Fund	(Regional Flexit	le Fund Allocat	ion Fund	Transit
MTIP ID	70928	Exchange)	e)				
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2021	STBG-URBAN	\$2,506,749	\$286,909	0\$	\$2,793,658
			FY 21-26 Totals	\$2,506,749	\$286,909	0\$	\$2,793,658
		Es	Estimated Project Cost (YOE\$)	\$2,506,749	\$286,909	0\$	\$2,793,658

LEAD /	LEAD AGENCY	TriMet	it.				
PROJEC	PROJECT NAME	Electri	Electric Bus Purchase (Metro Fund Exchange)	xchange)			
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	22188	Alterna	Alternative Fuel Transit Buses				Transit
MTIP ID	71217						
RTP ID							
P	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2023	CMAQ - URBAN	\$4,946,372	\$566,134	\$0	\$5,512,506
			FY 21-26 Totals	\$4,946,372	\$566,134	0\$	\$5,512,506
		Ĕ	Estimated Project Cost (YOE\$) \$4,946,372	\$4,946,372	\$566,134	0\$	\$5,512,506



LEAD #	LEAD AGENCY	TriMet	it				
PROJEC	PROJECT NAME	HCT aı	HCT and Project Development Bond Payment (FFY 2021)	Payment (FFY	2021)		
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	20834	HCT bo	HCT bond payment for 2020. Amount combines identified bond payments from	combines ident	ified bond payı	ments from	Transit
MTIP ID	70921	Resoluti of \$2139	Resolution 08-3942 and 10-4185 17-4800 17-4848 which provide the federal total of \$21390000 for 2021.	800 17-4848 wh	ich provide the	tederal total	
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2021	CMAQ - URBAN	\$11,000,000	\$1,258,999	0\$	\$12,258,999
Transit		2021	STBG-URBAN	\$10,390,000	\$1,189,182	0\$	\$11,579,182
			FY 21-26 Totals \$21,390,000	\$21,390,000	\$2,448,181	0\$	\$23,838,181
		ŭ	Estimated Project Cost (YOE\$) \$21,390,000	\$21,390,000	\$2,448,181	0\$	\$23,838,181

LEAD /	LEAD AGENCY	TriMet	it				
PROJEC	PROJECT NAME	HCT a	HCT and Project Development Bond Payment (FFY 2022)	Payment (FFY ;	2022)		
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	22148	Paymer	Payment to a high capacity transit (HCT) and project development bond	ΣT) and project α	development bo	pu	Transit
MTIP ID	71121	adminis	administered by TriMet.				
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2022	CMAQ - URBAN	\$11,000,000 \$1,258,999	\$1,258,999	0\$	\$12,258,999
Other		2022	STBG-URBAN	\$10,830,000 \$1,239,542	\$1,239,542	0\$	\$12,069,542
			FY 21-26 Totals \$21,830,000 \$2,498,541	\$21,830,000	\$2,498,541	0\$	\$24,328,541
		Ü	Estimated Project Cost (YOE\$) \$21,830,000 \$2,498,541	\$21,830,000	\$2,498,541	\$0	\$24,328,541

LEAD A	LEAD AGENCY	TriMet	it				
PROJECT NAM	T NAME	HCT a⊩	HCT and Project Development Bond Payment (FFY 2023)	Payment (FFY	2023)		
Proje	Project IDs		Projec	Project Description			Project Type
орот кеу	22149	Paymer	Payment to a high capacity transit (HCT) and project development bond	ΣΤ) and project α	development bo	puc	Transit
MTIP ID	71122	adminis	administered by TriMet.				
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2023	STBG-URBAN	\$10,840,000	\$1,240,687	0\$	\$12,080,687
Other		2023	CMAQ - URBAN	\$11,000,000	\$1,258,999	\$0	\$12,258,999
			FY 21-26 Totals \$21,840,000 \$2,499,686	\$21,840,000	\$2,499,686	0\$	\$24,339,686
		Ü	Estimated Project Cost (YOE\$) \$21,840,000 \$2,499,686	\$21,840,000	\$2,499,686	0\$	\$24,339,686



LEAD #	LEAD AGENCY	TriMet	t				
PROJEC	PROJECT NAME	HCT ar	HCT and Project Development Bond Payment (FFY 2024)	Payment (FFY	2024)		
Proje	Project IDs		Projec	Project Description			Project Type
ОБОТ КЕУ	22150	Paymer	Payment to a high capacity transit (HCT) and project development bond	ΣΤ) and project α	development bo	puo	Transit
MTIP ID	71123	administ	administered by TriMet.				
RTP ID		T					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2024	CMAQ - URBAN	\$11,000,000	\$1,258,999	0\$	\$12,258,999
Other		2024	STBG-URBAN	\$10,800,000	\$1,236,108	0\$	\$12,036,108
			FY 21-26 Totals \$21,800,000	\$21,800,000	\$2,495,107	0\$	\$24,295,107
		ŭ	Estimated Project Cost (YOE\$) \$21,800,000 \$2,495,107	\$21,800,000	\$2,495,107	\$0	\$24,295,107

LEAD #	LEAD AGENCY	TriMet	it				
PROJEC	PROJECT NAME	Portla	Portland Milwaukie Light Rail				
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	22187	Remain	Remaining funding for the 7.3 miles of double tracked light rail alignment; per	f double tracke	d light rail alignı	ment; per	Transit
MTIP ID	71216	FFGA.					
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2021	5309 (55.88%)	\$20,464,288 \$16,157,559	\$16,157,559	0\$	\$36,621,847
			FY 21-26 Totals \$20,464,288 \$16,157,559	\$20,464,288	\$16,157,559	0\$	\$36,621,847
		ŭ	Estimated Project Cost (YOE\$) \$20,464,288 \$16,157,559	\$20,464,288	\$16,157,559	0\$	\$36,621,847



LEAD #	LEAD AGENCY	TriMet	t L				
PROJEC	PROJECT NAME	TriMet	TriMet Bus and Rail Preventive Maintenance (2021)	ntenance (2021	(i		
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	20823	Capital I	Capital Maintenance For Bus And Rail				Transit
MTIP ID	70910	ı					
RTP ID		I					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2021	5307 (FF91 - 80/20)	\$41,348,348 \$10,337,087	\$10,337,087	0\$	\$51,685,435
			FY 21-26 Totals \$41,348,348 \$10,337,087	\$41,348,348	\$10,337,087	0\$	\$51,685,435
		Es	Estimated Project Cost (YOE\$) \$41,348,348 \$10,337,087	\$41,348,348	\$10,337,087	\$0	\$51,685,435

LEAD AGENCY TriMet	PROJECT NAME TriMet Bus and Rail Preventive Maintenance (2021)	Project IDs Project Description Project Type	EY 20829 Capital Maintenance For Bus And Rail Transit	70916		Phase Year Fund Type Federal Minimum Other Total Amount	Amount Local Match Amount	2021 5337 \$25,333,200 \$6,333,300 \$0 \$31,666,500	FY 21-26 Totals \$25,333,200 \$6,333,300 \$0 \$31,666,500	Entimoted Division Cont (VOE¢) \$25,000 \$6,000 000 000
LEAD AGE	PROJECT N	Project I	орот кеу	MTIP ID	RTP ID	Phase		Transit		



LEAD #	LEAD AGENCY	TriMet	it				
PROJEC	PROJECT NAME	TriMe	TriMet Bus and Rail Preventive Maintenance (2022)	ntenance (2022	()		
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	22177	Capital	Capital Maintenance For Bus And Rail				Transit
MTIP ID	71206	1					
RTP ID		ı					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2022	5307 (FF91 - 80/20)	\$42,175,315 \$10,543,829	\$10,543,829	0\$	\$52,719,144
			FY 21-26 Totals \$42,175,315 \$10,543,829	\$42,175,315	\$10,543,829	0\$	\$52,719,144
		E	Estimated Project Cost (YOE\$) \$42,175,315 \$10,543,829	\$42,175,315	\$10,543,829	\$0	\$52,719,144

LEAD ,	LEAD AGENCY	TriMet	et				
PROJEC	PROJECT NAME	TriMe	TriMet Bus and Rail Preventive Maintenance (2022)	ntenance (2022)			
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	22180	Capital	Capital Maintenance For Bus And Rail				Transit
MTIP ID	71209	Ī					
RTP ID		ı					
Pŀ	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2022	5337	\$25,839,864 \$6,459,966	\$6,459,966	0\$	\$32,299,830
			FY 21-26 Totals \$25,839,864		\$6,459,966	0\$	\$32,299,830
		Ë	Estimated Project Cost (YOE\$) \$25,839,864		\$6,459,966	0\$	\$32,299,830



LEAD #	LEAD AGENCY	TriMet	it				
PROJEC	PROJECT NAME	TriMe	TriMet Bus and Rail Preventive Maintenance (2023)	ntenance (2023	(1		
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	22178	Capital	Capital Maintenance For Bus And Rail				Transit
MTIP ID	71207						
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2023	5307 (FF91 - 80/20)	\$43,018,821 \$10,754,705	\$10,754,705	0\$	\$53,773,526
			FY 21-26 Totals \$43,018,821 \$10,754,705	\$43,018,821	\$10,754,705	0\$	\$53,773,526
		Ë	Estimated Project Cost (YOE\$) \$43,018,821 \$10,754,705	\$43,018,821	\$10,754,705	0\$	\$53,773,526

LEAD /	LEAD AGENCY	TriMet	t				
PROJEC	PROJECT NAME	TriMet	TriMet Bus and Rail Preventive Maintenance (2023)	tenance (2023	(
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	22181	Capital I	Capital Maintenance For Bus And Rail				Transit
MTIP ID	71210	I					
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2023	5337	\$26,356,662	\$6,589,166	0\$	\$32,945,828
			FY 21-26 Totals \$26,356,662 \$6,589,166	\$26,356,662	\$6,589,166	0\$	\$32,945,828
		Es	Estimated Project Cost (YOE\$) \$26,356,662	\$26,356,662	\$6,589,166	0\$	\$32,945,828



LEAD #	LEAD AGENCY	TriMet	ţ				
PROJEC	PROJECT NAME	TriMet	TriMet Bus and Rail Preventive Maintenance (2024)	ntenance (2024	(1		
Proje	Project IDs		Projec	Project Description			Project Type
ОДОТ КЕУ	22179	Capital I	Capital Maintenance For Bus And Rail				Transit
MTIP ID	71208	ı					
RTP ID		I					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2024	5307 (FF91 - 80/20)	\$43,879,198 \$10,969,800	\$10,969,800	0\$	\$54,848,998
			FY 21-26 Totals \$43,879,198 \$10,969,800	\$43,879,198	\$10,969,800	0\$	\$54,848,998
		Es	Estimated Project Cost (YOE\$) \$43,879,198 \$10,969,800	\$43,879,198	\$10,969,800	\$0	\$54,848,998

LEAD	LEAD AGENCY	TriMet					
PROJE	PROJECT NAME	TriMet	TriMet Bus and Rail Preventive Maintenance (2024)	tenance (2024)			
Proje	Project IDs		Projec	Project Description			Project Type
ODOT KEY	22182	Capital _N	Capital Maintenance For Bus And Rail				Transit
MTIP ID	71211	ı					
RTP ID		I					
Pł	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2024	5337	\$26,883,795	\$6,720,949	0\$	\$33,604,744
			FY 21-26 Totals \$26,883,795 \$6,720,949	\$26,883,795	\$6,720,949	0\$	\$33,604,744
		ES	Estimated Project Cost (YOE\$) \$26,883,795	\$26,883,795	\$6,720,949	\$0	\$33,604,744

LEAD /	LEAD AGENCY	TriMet	et				
PROJEC	PROJECT NAME	TriMe	TriMet Bus Purchase (2021)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	02802	Bus Purchase	rchase				Transit
MTIP ID	70607						
RTP ID		I					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2021	5339 FTA Bus & Bus Facilities	\$3,433,101	\$858,275	\$0	\$4,291,376
			FY 21-26 Totals	\$3,433,101	\$858,275	0\$	\$4,291,376
		Ш	Estimated Project Cost (YOE\$)	\$3,433,101	\$858,275	0\$	\$4,291,376



LEAD /	LEAD AGENCY	TriMet	et				
PROJEC	PROJECT NAME	TriMe	TriMet Bus Purchase (2022)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22174	Bus Purchase	rchase				Transit
MTIP ID	71203						
RTP ID							
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2022	2022 5339 FTA Bus & Bus Facilities \$3,433,101	\$3,433,101	\$858,275	0\$	\$4,291,376
			FY 21-26 Totals	\$3,433,101	\$858,275	0\$	\$4,291,376
		E	Estimated Project Cost (YOE\$)	\$3,433,101	\$858,275	0\$	\$4,291,376

LEAD /	LEAD AGENCY	TriMet	et				
PROJEC	PROJECT NAME	TriMe	TriMet Bus Purchase (2023)				
Proje	Project IDs		Project	Project Description			Project Type
орот кеу	22175	Bus Purchase	rchase				Transit
MTIP ID	71204						
RTP ID							
PF	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2023	5339 FTA Bus & Bus Facilities \$3,433,101	\$3,433,101	\$858,275	\$0	\$4,291,376
			FY 21-26 Totals	\$3,433,101	\$858,275	0\$	\$4,291,376
		Е	Estimated Project Cost (YOE\$)	\$3,433,101	\$858,275	0\$	\$4,291,376

LEAD /	LEAD AGENCY	TriMet	et				
PROJEC	PROJECT NAME	TriMe	TriMet Bus Purchase (2024)				
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22176	Bus Purchase	rchase				Transit
MTIP ID	71205	ı					
RTP ID		I					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2024	5339 FTA Bus & Bus Facilities	\$3,433,101	\$858,275	\$0	\$4,291,376
			FY 21-26 Totals	\$3,433,101	\$858,275	0\$	\$4,291,376
		В	Estimated Project Cost (YOE\$) \$3,433,101	\$3,433,101	\$858,275	0\$	\$4,291,376



LEAD /	LEAD AGENCY	TriMet					
PROJEC	PROJECT NAME	TriMet	TriMet Elderly and Disabled Program (2021)	(2021)			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	20838	Services	Services And Facility Improvements In Excess Of ADA Requirements	Excess Of ADA	Requirements		Transit
MTIP ID	70925	ı					
RTP ID		I					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2021	5310 (80/20)	\$1,350,863	\$337,716	0\$	\$1,688,579
			FY 21-26 Totals	\$1,350,863	\$337,716	0\$	\$1,688,579
		ES.	Estimated Project Cost (YOE\$)	\$1,350,863	\$337,716	\$0	\$1,688,579

LEAD ,	LEAD AGENCY	TriMet	اري				
PROJEC	PROJECT NAME	TriMet	TriMet Elderly and Disabled Program (2022)	(2022) ر			
Proje	Project IDs		Project	Project Description			Project Type
ОБОТ КЕУ	22183	Services	Services And Facility Improvements In Excess Of ADA Requirements	Excess Of ADA	Requirements		Transit
MTIP ID	71212						
RTP ID							
Pr	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2022	5310 (80/20)	\$1,377,880	\$344,470	\$0	\$1,722,350
			FY 21-26 Totals	\$1,377,880	\$344,470	0\$	\$1,722,350
		Es	Estimated Project Cost (YOE\$)	\$1,377,880	\$344,470	0\$	\$1,722,350

LEAD /	LEAD AGENCY	TriMet	it				
PROJEC	PROJECT NAME	TriMe	TriMet Elderly and Disabled Program (2023)	٦ (2023)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22184	Service	Services And Facility Improvements In Excess Of ADA Requirements	Excess Of ADA	Requirements		Transit
MTIP ID	71213						
RTP ID		I					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2023	5310 (80/20)	\$1,405,437	\$351,359	\$0	\$1,756,796
			FY 21-26 Totals	\$1,405,437	\$351,359	0\$	\$1,756,796
		نت	Estimated Project Cost (YOE\$) \$1,405,437	\$1,405,437	\$351,359	0\$	\$1,756,796



LEAD /	LEAD AGENCY	TriMet					
PROJEC	PROJECT NAME	TriMet	TriMet Elderly and Disabled Program (2024)	(2024)			
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22185	Services	Services And Facility Improvements In Excess Of ADA Requirements	Excess Of ADA	Requirements		Transit
MTIP ID	71214						
RTP ID		I.					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Transit		2024	5310 (80/20)	\$1,433,546	\$358,387	0\$	\$1,791,933
			FY 21-26 Totals	\$1,433,546	\$358,387	0\$	\$1,791,933
		Est	Estimated Project Cost (YOE\$) \$1,433,546	\$1,433,546	\$358,387	0\$	\$1,791,933

LEAD	LEAD AGENCY	TriMet)t				
PROJE	PROJECT NAME	TriMet	TriMet Preventive Maintenance (TOD) 2021	D) 2021			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	21267	The fed	The federal fund portion to the annual Metro-TriMet Transit Oriented	Metro-TriMet	Transit Oriente	p	Transit
MTIP ID	71047	Develop TriMet's	Development (10D) STP and Local funds exchange. The Metro STP supports TriMet's Preventive Maint 2021 program. 2019-21 RFFA TOD Allocation)	ds exchange. Th im. 2019-21 RFF	e Metro STP su A TOD Allocativ	ıpports on)	
RTP ID							
Pł	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Other		2021	STBG-URBAN	969'868'8\$	\$388,424	0\$	\$3,782,120
			FY 21-26 Totals	969'868'8\$	\$388,424	0\$	\$3,782,120
		E	Estimated Project Cost (YOE\$)	969'868'8\$	\$388,424	0\$	\$3,782,120

LEAD A	LEAD AGENCY	Tuala	Tualatin Hills PRD				
PROJEC	PROJECT NAME	Beave	Beaverton Creek Trail: Westside Trail - SW Hocken Ave	il - SW Hocken	Ave		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	19357	Constru	Construct a 1.5-mile long 12-foot wide regional trail consisting of paving	e regional trail α	onsisting of pav	/ing	Trail
MTIP ID	70689	bridges, mitigati	bridges/boardwalks lighting road right-of-way improvements environmental mitigation and bicycle/pedestrian amenities and site furnishings.	-ot-way improve inities and site fu	ements environ urnishings.	mental	
RTP ID	10811)			1		
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary .	Preliminary engineering	2021	STBG-URBAN	608'685\$	\$67,449	0\$	\$656,758
Construction	U	2021	STBG-URBAN	\$3,103,903	\$355,256	\$827,115	\$4,286,274
			FY 21-26 Totals	\$3,693,212	\$422,705	\$827,115	\$4,943,032
			Prior Years' Totals	\$800,000	\$91,564	0\$	\$891,564
		В	Estimated Project Cost (YOE\$)	\$4,493,212	\$514,269	\$827,115	\$5,834,596



LEAD A	LEAD AGENCY	Wash	Washington County				
PROJECT NAM	T NAME	Aloha	Aloha Access Improvements: OR8 Area Cornelius Pass-SW 160th	rea Cornelius P	ass-SW 160th		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	22128	Constru	Construct sidewalk infills. Add enhanced pedestrian crossing on SW 185th Ave	ed pedestrian c	rossing on SW	185th Ave	Active
MTIP ID	71095	and con with a r	and complete design realignment of SW Blanton St/SW 185th Ave intersection with a new traffic signal (2022-24 RFFA award)	/V Blanton St/SV v award)	V 185th Ave in	tersection	Transportation
RTP ID	10608			•			
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary (Preliminary engineering	2022	STBG-URBAN	\$1,871,768	\$214,232	0\$	\$2,086,000
Purchase right of w	ht of way	2024	STBG-URBAN	\$323,028	\$36,972	0\$	\$360,000
Other		2024	STBG-URBAN	\$44,865	\$5,135	0\$	\$50,000
Construction		2026	STBG-URBAN	\$1,587,898	\$181,742	\$1,522,485	\$3,292,125
			FY 21-26 Totals	\$3,827,559	\$438,081	\$1,522,485	\$5,788,125
		ш	Estimated Project Cost (YOE\$)	\$3,827,559	\$438,081	\$1,522,485	\$5,788,125

LEAD #	LEAD AGENCY	Wash	Washington County				
PROJEC	PROJECT NAME	Basalt	Basalt Creek Ext: Grahams Ferry Rd - Boones Ferry Rd.	- Boones Ferry	Rd.		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	19358	Extend	Extend the new east-west arterial from Grahams Ferry Road to Boones Ferry Road	n Grahams Ferr	y Road to Boo	nes Ferry Road	Roadway and
MTIP ID	70789	and pro	and provide access between l-5 and the Basalt Creek industrial area.	ie Basalt Creek i	ndustrial area.		bridge
RTP ID	11470	T					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ht of way	2021	STBG-URBAN	\$2,805,879	\$321,145	\$873,976	\$4,001,000
Construction	l	2021	Local (Wash Co)	0\$	0\$	\$0 \$28,173,000	\$28,173,000
			FY 21-26 Totals	\$2,805,879	\$321,145	\$321,145 \$29,046,976	\$32,174,000
			Prior Years' Totals	\$2,757,000	\$315,551	0\$	\$3,072,551
		ŭ	Estimated Project Cost (YOE\$)	\$5,562,879	\$636,696	\$636,696 \$29,046,976	\$35,246,551

LEAD AGENCY	SENCY	Wash	Washington County				
PROJECT NAME	NAME	N N	NW West Union Rd at Neakahnie Ave (Washington County)	re (Washington	County)		
Project IDs	t IDs		Project	Project Description			Project Type
ОДОТ КЕУ	21632	Widen	Widen West Union at Neakahnie and install a left turn lane to allow through	install a left turr	ا lane to allow t	hrough	Roadway and
MTIP ID	71186	traffic to	traffic to keep moving and give turning vehicle drivers more time to evaluate turns thereby improving safety at this location.	; vehicle drivers on.	more time to e	valuate turns	bridge
RTP ID							
Phase	es.	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Preliminary engineering	ngineering	2021	HSIP (92.22)	\$142,773	\$12,045	0\$	\$154,818
Purchase right of way	t of way	2022	HSIP (92.22)	\$1,455	\$123	0\$	\$1,578
Construction		2023	HSIP (92.22)	\$854,763	\$72,111	0\$	\$926,874
			FY 21-26 Totals	\$998,991	\$84,279	0\$	\$1,083,270
		Ш	Estimated Project Cost (YOE\$)	\$998,991	\$84,279	\$0	\$1,083,270



LEAD /	LEAD AGENCY	Wash	Washington County				
PROJEC	PROJECT NAME	US26	US26 at Cornelius Pass Rd: Bike/Ped Xing	Xing			
Proje	Project IDs		Project	Project Description			Project Type
ODOT KEY	22140	On US	On US 26 just east of Cornelius Pass Rd IC complete preâ€NEPA project	d IC complete pi	reâ € ⊠EPA proje	oct	Active
MTIP ID	71099	develop US26.	development feasibility study for a future bike/ped bridge grade separation across US26.	ure bike/ped bri	idge grade sepa	aration across	Transportation
RTP ID	11913	I					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Planning		2022	STBG-URBAN	\$628,110	\$71,890	0\$	\$700,000
			FY 21-26 Totals	\$628,110	\$71,890	0\$	\$700,000
		E	Estimated Project Cost (YOE\$)	\$628,110	\$71,890	0\$	\$700,000

LEAD /	LEAD AGENCY	West Linn	Linn				
PROJEC	PROJECT NAME	OR43:	OR43: Marylhurst Dr - Hidden Springs Rd (West Linn)	કુક Rd (West Linા	(u		
Proje	Project IDs		Project	Project Description			Project Type
ОДОТ КЕУ	20329	Constru	Construct a new cycle track and sidewalk along OR-43 from Cedar Oaks to Hidden	alk along OR-43	3 from Cedar O≀	aks to Hidden	
MTIP ID	70882	Springs	Springs Rd. Install a new traffic signal at OR43 and Hidden Springs Rd.	it OR43 and Hid	den Springs Rd		
RTP ID	10127	1					
Ph	Phase	Year	Fund Type	Federal	Minimum	Other	Total Amount
				Amount	Local Match	Amount	
Purchase right of way	ght of way	2021	TA - STATE	\$294,696	\$33,729	\$111,354	\$439,779
Other		2021	CMAQ - URBAN	\$67,010	029'2\$	\$25,320	\$100,000
Construction	u	2021	CMAQ - URBAN	\$2,687,441	\$307,590	\$1,015,190	\$4,010,221
			FY 21-26 Totals	\$3,049,147	\$348,989	\$1,151,864	\$4,550,000
			Prior Years' Totals	\$1,050,853	\$120,275	\$397,075	\$1,568,203
		E	Estimated Project Cost (YOE\$)	\$4,100,000	\$469,264	\$1,548,939	\$6,118,203



Chapter 7: Adoption of the 2021-2024 MTIP and integration with the STIP

Public comment and the process for the disposition of public comments

As part of developing and finalizing the adoption draft of the 2021-2024 MTIP, a public comment period took place from Friday, April 17, 2020 to Monday, May 18, 2020. During the public comment period a public review draft of the 2021-2024 MTIP was made available for comment. An electronic version of the 2021-2024 MTIP public review draft was available for download on Metro's website. Additionally, information was made available for requesting a hard copy of the 2021-2024 MTIP public review draft. A public hearing took place on April 23, 2020 at the Metro Council meeting. Comments were further solicited through various communications to community and civic networks. A request for comment and offer for a consultation meeting was made to resource agencies and tribes. Furthermore, newspaper advertisements were published to encourage comment and notify members of the public of the comment opportunity.

Chapter sections

- Public comment and the process for the disposition of public comments
- Public comment major themes and responses
- Adoption and finalizing the 2021-2024 MTIP

In efforts to encourage participation and not have the length and detail of the MTIP document serve as a barrier, a public comment survey requesting feedback and comment was made available on Metro's website. The survey focused on communicating a summary of the 2021-2024 MTIP and the results of the performance assessment. The survey asked respondents to select on a rating on a one (1) to five (5) scale how well the 2021-2024 MTIP is doing towards achieving outcomes related to equity, safety, climate change, and managing congestion. In addition, the survey left open ended responses to allow survey respondents to elaborate further or address other topics.

Upon the completion of the public comment period, the comments received through the survey, public hearing, written submissions, email submissions, voicemail/telephone submissions, consultation and other comments received were reviewed by Metro staff and synthesized into major comment themes. The major themes from public comment were provided to MTIP partners – ODOT, SMART, and TriMet. Prior to the opening of the public comment period, Metro staff met with MTIP partners to outline the schedule, expectations, and general participation in public comment activities taking place, such as the public hearing. In conducting this pre-public comment coordination, the partners had an understanding of the next steps and to prepare to respond to comments in a short turn around period. (See Appendix V for detail on the public comment coordination meeting) MTIP partners were asked to help augment Metro responses to the themes directed towards their agency or agency activities. Responses to the public comment themes were requested back to Metro by May 26, 2020. The responses were incorporated into the public comment report. Any needed adjustments were reflected in the adoption draft of the 2021-2024 MTIP or scheduled for action as part of the first amendment to the 2021-2024 MTIP once approved by federal partners.

Project specific comments were sent to the implementing agency of the project. Depending on the nature of the comment, the implementing agencies were asked to provide responses to some comments formally to record as part of the public comment report of the 2021-2024 MTIP. For the remainder of the project specific comments, the implementing agencies were asked to receive the comments and adjust the project as needed.

A public comment report was developed as an appendix to the 2021-2024 MTIP. The public comment report is part of the appendix package for the adoption draft of the 2021-2024 MTIP and brought forward to the technical and policy advisory committees throughout the adoption process. A description of the adoption process can be found in this chapter.

For more information about the 2021-2024 MTIP public comment report and to gather an understanding of the major comment themes, the full 2021-2024 MTIP public comment report can be found in the Appendix V.

Public comment major themes and responses

In total, the 2021-2024 MTIP public review draft received 210 public comments. The public comments comprised of the following:

- One (1) public comment at the 2021-2024 MTIP public hearing on April 23, 2020
- Three (3) public comments received through email (2), telephone (1), or mail (0)
- 201 completed public comment surveys on the 2021-2024 MTIP public review draft
- Five (5) resource agency comments resulting from the consultation meeting (held on May 11, 2020, comments provided prior, at, or after the consultation.)

The total number of comments received on the 2021-2024 MTIP public review draft is greater than the previous two MTIP cycles (2015-2018 and 2018-2021).

The public comment survey provided opportunity for open ended comments to elaborate further on the survey question and ratings or provide other feedback on the 2021-2024 MTIP public review

draft. Metro staff tabulated the ratings and reviewed all the open ended survey comments as well as other comments received (e.g. comment received at the public hearing, comments from consultation, comment received by phone). In review of the ratings and comments, key themes emerged. The key themes are organized by the topic area of each survey question as well as other key themes to emerge.

Addressing equity

- The investments in the 2021-2024 MTIP are not enough and are not doing enough to address the disparities in transportation access, options, and infrastructure experienced by historically marginalized communities.
 - Comments provided a range of policies and types of investments to address the disparities gap, such as expanded and focused transit, completing active transportation networks in historically marginalized communities, and affordability.

Addressing safety

- There is a need for the region to design safer streets and reduce speeds.
- A small number of comments expressed encouragement on the region's increased investment in safety and targeted focus on high injury corridors.

Addressing climate change

- The investments in the 2021-2024 MTIP are not doing enough to address the gravity of the climate crisis and there are certain types of roadway investments which are in antithesis of reducing emissions from transportation sources.
 - Comments emphasized the need for the reprioritization of investments as well as fast and aggressive actions in the region's transportation system to address climate. Some examples include more expedient build of the transit system, increased transit service coverage, and reprioritization of

existing transportation investments which promote automobile travel.

Managing congestion

- Traffic congestion remains a problem which needs to be addressed, but the solutions to address traffic congestion varied widely.
- Some commenters expressed there is not enough investment the 2021-2024 MTIP in the motor vehicle network to address the traffic congestion on the region's roadways.
- Other commenters expressed further investment into demand management strategies and deploying aggressive approaches like congestion pricing.
- Other commenters expressed a need to reprioritize existing investments in freeway and roadway expansions and reinvest those funds into building out the transit system to make it a competitive and viable option to address traffic congestion.

Active transportation investments

• There is not enough investment in the 2021-2024 MTIP in bicycling and walking infrastructure, especially in equity focus areas, to create a complete network. More investment is needed and the implementation of these project must occur faster.

Transit investments

The range in comments related to transit expressed more investment in the transit system is needed than what is included in the 2021-2024 MTIP. In addition, certain key needs for the transit system were expressed.

- the need to build out the transit system quickly
- the need to make transit travel faster to be compete with car travel
- \bullet the need for improves transit access, especially in equity focus

areas,

- the need for more affordable transit and
- the need to transition transit fleet to electric

In developing the public comment report, Metro, working with partners, created a set of responses to the key themes. While the public comment themes reflect dissatisfaction with certain types of projects and an urgency to address different transportation deficiencies as well as transportation emissions contributing to global climate change, Metro staff's response, in review of comment themes and the funding allocation processes, is to focus primarily on future opportunities to influence and align investments to address the comments and concerns. As a result, adjustments to the proposed programming of transportation investments were not recommended.¹ Metro responses can be found in the 2021-2024 MTIP public comment report. The report also outlines any staff recommendations for the 2024-2027 MTIP process that were informed by public comments. These recommendations may shape the policy of future funding allocations as well as provide guidance towards the MTIP performance evaluation.

Some project specific or facility specific comments were also received through the open ended comments. These comments were sent to staff at the jurisdiction delivering the project or owns the facility. Of the project-specific comments received, Metro staff did not believe agency responses were necessary and responses could be addressed more broadly among the public comment themes.

Lastly, TPAC provided recommendations and comments directed specifically towards the assessment methodology of the 2021-2024 MTIP. As the 2021-2024 MTIP is the first MTIP to report progress

toward federal performance targets and to undergo a more complex performance evaluation, the members of TPAC expressed a desire to investigate further both the methods and the outputs of the 2021-24 MTIP performance analysis. This review extends beyond what was discussed previously in the 2021-2024 MTIP assessment methodology review, prior to conducting the analysis. Metro staff recommends working with TPAC to schedule a technical workshop after the adoption of the 2021-2024 MTIP to address the desire to review and comment on performance methods and analysis outputs.

Adopting and finalizing the 2021-2024 MTIP

Metro began the adoption process for the 2021-2024 MTIP in June 2020 with a request to TPAC to recommend the approval of the 2021-2024 MTIP by JPACT. After receiving the TPAC recommendation, JPACT takes action and recommends adoption by the Metro Council.

Upon adoption by the Metro Council, the 2021-2024 MTIP is submitted to the Governor of Oregon for final approval. With approval by the Governor, the programming of projects from the MTIP is incorporated without change into the 2021-24 State Transportation Improvement Program administered by the Oregon Department of Transportation (ODOT). Metro completes the adoption and submission of the MTIP for inclusion in the STIP during the summer prior to start of the first federal fiscal year for the new MTIP. For the 2021-2024 MTIP, this takes place in summer 2020.

Once the 2021-2024 STIP has included the MTIPs from all the Oregon metropolitan planning organizations (MPOs), the fully packaged 2021-2024 STIP is then submitted to Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) for approval. The STIP is submitted to federal agencies in late summer or early autumn prior to the start of the first federal fiscal year for the new STIP and MTIPs. In the case of the 2021-2024 STIP, this takes place in late summer through early fall 2020.

Technical corrections to programming, as formally requested by ODOT and TriMet, were adjusted and reflected in the adoption draft of the 2021-2024 MTIP. These technical corrections were reviewed and vetted to determine whether they were appropriate for the adoption draft or should wait for the transition amendment in fall 2020.

Once federal partners approve the 2021-2024 STIP, a letter is transmitted to ODOT with copies to all the Oregon MPOs and transit agencies, confirming approval as well as any further actions that need to be taken. Upon federal approval of the STIP the 2021-2024 MTIP becomes the effective MTIP and supersedes the 2018-2021 MTIP.



Chapter 8: Changes to the Metropolitan Transportation Improvement Program (MTIP)

This chapter describes the approach to managing proposed changes to the 2021-2024 MTIP. Changes to the 2021-2024 MTIP are regulated by the Code of Federal Regulations (23 CFR 450.326) and additional guidance may be provided by regional offices of the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). This chapter describes Metro's policies and approach to implementing those federal regulations and guidance as the Portland metropolitan area metropolitan planning organization (MPO).

The need for changes to the MTIP

The federal transportation project delivery process involves numerous approval steps. If a project is federally funded, or considered a regionally significant, the project is required to be included in the MTIP and STIP, reflected through the programming. MTIP programming presents the project with its proposed improvements, summary of major scope elements, identifies how the project will expend its committed federal funds by specific phase, and

Chapter sections

- The need for changes to the MTIP
- Objectives of the MTIP change management process
- Classification of changes to the MTIP
- Description of approval process for project changes in the MTIP
- MTIP change management procedures manual

the delivery timing summary to complete each project phase. The MTIP is as a four-year snap shot of how the approved Regional Transportation Plan (RTP) will be implemented. Additionally, the MTIP is used as part of the obligation verification process, and as part of the required federal approval process.

Due to the complexity of the federal transportation delivery process, most projects require changes as to how they are presented in the MTIP and subsequently the STIP as they progress through the process. The changes are necessary to complete federal requirements, such as the National Environmental Policy Act (NEPA), or obligate federal funds with a specific project phase, or obtain their next required federal approval step. Examples of project changes that may require adjustments to the MTIP include:

- Lead agency and the project name
- Description and approved scope of work
- Approved limits, milepost references, and/or cross street limits
- · Changes to needed funding
- Timing of the obligation of funds
- Delivery timing changes and expected completion date
- Combining existing projects or splitting a project in multiple projects
- Adding a new project
- Cancelling a project

Objectives of the MTIP change management process

Proposed changes to the MTIP will be managed with the following objectives:

- Ensure that federal requirements are properly met for use of available federal funds.
- Ensure consideration of proposed amendments on progress toward regional policies and system performance targets for use

of limited available resources.

- Provide opportunity for consideration of proposed amendments on other jurisdictions or transportation assets or services provided by other agencies in the region.
- Ensure that the responsibilities for project management and cost control remain with the agency sponsoring the project.
- Ensure routine amendments to the MTIP to proceed expeditiously to avoid unnecessary delays and committee activity.
- Provide for dealing with emergency situations.
- Ensure projects are progressing to fully obligate programmed funding in order to avoid a lapse of funds.

Classification of changes to the MTIP

There are two types of changes to the MTIP: formal amendments and administrative modifications.

The Oregon Division of the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA) Region X, and the Oregon Department of Transportation (ODOT) developed an amendment matrix to further describe distinctions between formal amendments and administrative modifications. Metro follows the amendment matrix when evaluating and processing requests for project changes in the MTIP to determine whether the change are administrative modifications or amendments. The Amendment Matrix (Table 8-1) provides the summary of allowable changes that qualify as formal amendments or as administrative modifications. This matrix may be updated and the most current version is included in the MTIP Change Management Procedures Manual (Appendix VI)

FULL AMENDMENTS

- 1. Adding or cancelling a federally funded, and regionally significant project to the STIP and state funded projects which will potentially be federalized
- 2. Major change in project scope. Major scope change includes:
- Change in project termini greater than .25 mile in any direction
- Changes to the approved environmental footprint
- Impacts to air quality conformity (if applicable)
- Adding capacity per FHWA Standards
- Adding or deleting work type
- 3. Changes in Fiscal Constraint by the following criteria:
- FHWA project cost increase/decrease:
 - Projects under \$500K increase/decrease over 50%
 - Projects \$500K to \$1M increase/decrease over 30%
 - Projects \$1M and over increase/decrease over 20%
- All FTA project changes increase/decrease over 30%
- 4. Adding an emergency relief permanent repair project that involves substantial change in function and location.

ADMINISTRATIVE/TECHNICAL ADJUSTMENTS

- 1. Advancing or Slipping an approved project/phase within the current STIP (If slipping outside current STIP, see Full Amendments #2)
- 2. Adding or deleting any phase (except CN) of an approved project below Full Amendment #3
- 3. Combining two or more approved projects into one or splitting an approved project into two or more, or splitting part of an approved project to a new one
- 4. Splitting a new project out of an approved program-specific pool of funds (but not reserves for future projects) or adding funds to an existing project from a bucket or reserve if the project was selected through a specific process (i.e. ARTS, Local Bridge...)
- 5. Minor technical corrections to make the printed STIP consistent with prior approvals, such as typos or missing data
- 6. Changing name of project due to change in scope, combining or splitting of projects, or to better conform to naming convention. (For major change in scope, see Full Amendments #2)
- 7. Adding a temporary emergency repair and relief project that does not involve substantial change in function and location.

To process the proposed project changes, Metro staff works with the project lead agency staff to collect project related information. The information is to understand the effect of the proposed change, if any, on the following:

- consistency with the adopted policies, goals, strategies, and financially constrained project list of the adopted Regional Transportation Plan (RTP),
- consistency with the project description and scope identified in the RTP.
- consistency with the Metro regional travel demand model project inputs for motor vehicles, transit, freight, and bicycle facilities,
- the timely implementation of Transportation Control Measures (TCMs) and other requirements of the State Implementation Plan (SIP) for air quality,
- funding adjustment impacts to the financial constraint finding,
- progress toward achieving regionally adopted performance targets.

Description of approval process for project changes in the MTIP

When project changes are necessary, they are required to be reflected in both the MTIP and STIP. This action requires a coordinated effort among the Metro, ODOT Region 1, ODOT Headquarters, and the US Department of Transportation (USDOT).

Formal amendments and administrative modifications each have a similar development process, but their approval steps differ. The approval of administrative modifications is delegated to the Metro MTIP Program Manager. Once the Metro MTIP Program Manager approves the administrative modification, it may be added into the current approved MTIP. The State STIP Program Manager approves administrative modification for STIP inclusion. There are no required USDOT approval steps for administrative modifications.

For formal amendments, the Metro approval process includes:

- a public notification and comment process,
- a recommendation from Metro's Transportation Policy Alternatives Committee (TPAC),
- approval action by the Joint Policy Advisory Committee on Transportation (JPACT), and
- final approval from the Metro Council.

Once approved by Metro, all formal amendments are sent to the ODOT Region 1 STIP Coordinator to initiate the final STIP review and approval process by USDOT. A final review and approval of formal amendments by the State STIP Coordinator and final USDOT approval occurs before the proposed project changes are included into the MTIP and STIP.

MTIP change management procedures manual

The specific procedures to receive, consider and process MTIP project change requests are documented in the MTIP Change Management Procedures Manual. This manual is available on the Metro website or by request to the Metro Planning and Development Department. The version current as of May 2020 is included as Appendix VI to this MTIP.

These procedures may be updated by Metro staff as needed to respond to the circumstances presented by individual change requests or changes to federal regulations and guidance.

Glossary of terms

Accessibility – The ability or ease to reach desired goods, services, activities and destinations with relative ease, within a reasonable time, at a reasonable cost and with reasonable choices. Many factors affect accessibility (or physical access), including mobility, the quality, cost and affordability of transportation options, land use patterns, connectivity of the transportation system and the degree of integration between modes. The accessibility of a particular location can be evaluated based on distances and travel options, and how well that location serves various modes. Locations that can be accessed by many people using a variety of modes of transportation generally have a high degree of accessibility.

Access Management – Enables access to land uses while maintaining roadway safety and mobility through controlling access location, design, spacing and operation.

Action – Discrete steps to make progress toward a desired outcome(s).

Active Living – Lifestyles characterized by incorporating physical activity into daily routines through activities such as walking or biking for transportation, exercise or pleasure. To achieve health benefits, the goal is to accumulate at least 30 minutes of activity each day.

Active Transportation – Non-motorized forms of transportation including walking and biking, people using wheelchairs or mobility devices and skateboarding. Transit is considered part of active transportation because most transit trips start with a walking or bicycle trip.

Active Transportation Network – Combined network of streets, trails and districts identified on the Regional Pedestrian and Bicycle Network Functional Classification Maps and identified as pedestrian and bicycle parkways, regional bikeways, regional pedestrian corridors and regional pedestrian and bicycle districts, which include station communities. The active transportation network also includes frequent bus routes, all of which are designated as pedestrian parkways, and high ridership bus stops.

Adaptation – This term refers to adjustment in natural or human systems in anticipation of or response to a changing environment in a way that effectively uses beneficial opportunities or reduces negative effects.

Air Toxics – Also known as toxic air pollutants or hazardous air pollutants, are those pollutants that cause or may cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental and ecological effects.

All Roads Transportation Safety (ARTS) – Formerly known as the Jurisdictionally Blind Safety Program, is an Oregon Department of Transportation Program that is designed to address safety needs on all public roads in Oregon. The program's goals are to:

- Increase awareness of safety on all roads;
- Promote best practices for infrastructure safety;
- Complement behavioral safety efforts;

• Focus limited resources to reduce fatal and serious injury crashes in the state of Oregon.

The program is data driven to achieve the greatest benefits in crash reduction and is blind to jurisdiction.

Amendment – A revision to a long-range statewide or metropolitan transportation plan, TIP, or STIP that involves a major change to a project included in a metropolitan transportation plan, TIP, or STIP, including the addition or deletion of a project or a major change in project cost, project/project phase initiation dates, or a major change in design concept or design scope (e.g., changing project termini or the number of through traffic lanes or changing the number of stations in the case of fixed guideway transit projects). Changes to projects that are included only for illustrative purposes do not require an amendment. An amendment is a revision that requires public review and comment and a redemonstration of fiscal constraint. If an amendment involves "non-exempt" projects in nonattainment and maintenance areas, a conformity determination is required.

Arterial – A classification of street. Arterial streets interconnect and support the throughway system. Arterials are intended to provide general mobility for travel within the region. Correctly sized arterials at appropriate intervals allow through trips to remain on the arterial system thereby discouraging use of local streets for cut–through travel. Arterial streets link major commercial, residential, industrial and institutional areas. Major arterials serve longer distance through trips and serve more of a regional traffic function. Minor arterials serve shorter, more localized travel within a community. As a result, major arterials usually carry more traffic than minor arterials. Arterial streets are usually spaced about one mile apart and are designed to accommodate bicycle, pedestrian, truck and transit travel.

Arterial Traffic Calming – Designed to manage traffic at higher speeds and volumes, but still minimize speeding and unsafe speeds. Treatments can include raised medians, raised intersections, gateway treatments, textured intersections, refuge islands, road diets, and roundabouts.

Asset Management – A strategic and systematic process of operating, maintaining, and improving physical assets, with a focus on both engineering and economic analysis based upon quality information, to identify a structured sequence of maintenance, preservation, repair, rehabilitation, and replacement actions that will achieve and sustain a desired state of good repair over the lifecycle of the assets at minimum practicable cost.

Attainment Area – Any geographic area in which levels of a given criteria air pollutant (e.g., ozone, carbon monoxide, PM10, PM2.5, and nitrogen dioxide) meet the health-based National Ambient Air Quality Standards (NAAQS) for that pollutant. An area may be an attainment area for one pollutant and a nonattainment area for others. A "maintenance area" (see definition in this section) is not considered an attainment area for transportation planning purposes.

Autonomous Vehicle (AV) – Also known as a driverless car, self-driving car, robotic car, AVs use sensors and advanced control systems to operate independently of any input from a human driver. Transportation experts have developed a five-level system to distinguish between different levels of automation; in this plan we focus on Level 4 or 5 AVs, which can operate independently under most or all conditions.

Auxiliary Lane – An auxiliary lane provides a direct connection from one interchange ramp to the next. The lane separates slower traffic

movements from the mainline, helping smooth the flow of traffic and reduce the potential for crashes.

Barrier – A condition or obstacle that prevents an individual or a group from accessing the transportation system or transportation planning process. Examples include a physical gap or impediment, lack of information, language, education and/or limited resources.

Best Practices – For purposes of this document, the term "best practices" is used as a general term of preferred practices accepted and supported by experience of the applicable professional discipline. It is not prescriptive to a particular set of standards or a particular discipline.

Bicycle – A vehicle having two tandem wheels, a minimum of 14 inches in diameter, propelled solely by human power, upon which a person or persons may ride. A three–wheeled adult tricycle is considered a bicycle. In Oregon, a bicycle is legally defined as a vehicle. Bicyclists have the same right to the roadways and must obey the same traffic laws as the operators of other vehicles.

Bicycle Boulevards – Sometimes called a bicycle priority street, a bicycle boulevard is a low-traffic street where all types of vehicles are allowed, but the street is modified as needed to enhance bicycle safety and convenience by providing direct routes that allow free-flow travel for bicyclists at intersections where possible. Traffic controls are used at major intersections to help bicyclists cross streets. Typically these modifications also calm traffic and improve pedestrian safety.

Bicycle Comfort Index (BCI) – A method to analyze the auto volumes, auto speeds and number of auto lanes on existing bikeways and within defined 'cycle zones' and assign a comfort rating to the bikeway. Generally off-street paths receive the highest rating because they are completely separated from auto traffic. Results help identify existing bikeways on the regional bicycle network that could be upgraded to increase bicyclists comfort. Metro's BCI analysis was used in the existing conditions step of developing the ATP. Additional data would be useful to refine the tool.

Bicycle District – An area with a concentration of transit, commercial, cultural, institutional and/or recreational destinations where bicycle travel is attractive, comfortable and safe. Bicycle districts are areas where high levels of bicycle use exist or a planned. Within a bicycle district, some routes may be designated as bicycle parkways or regional bikeways, however all routes within the bicycle district are considered regional. A new concept for the Regional Transportation Plan and added to the regional bicycle network through the ATP. The Central City, Regional and Town Centers and Station Communities are identified as bicycle districts.

Bicycle Facilities – A general term denoting improvements and provisions made to accommodate or encourage bicycling, including parking facilities, all bikeways and shared roadways not specifically designated for bicycle use.

Bicycle Parkway – A bicycle route designed to serve as a bicycle highway providing for direct and efficient travel for large volumes of cyclists with minimal delays in different urban and suburban environments and to destinations outside the region. These bikeways connect 2040 activity centers, downtowns, institutions and greenspaces within the urban area. The specific design of a bike parkway will vary depending on the land use context within which it passes through. These bikeways could be designed as an off-street trail along a stream or rail corridor, a cycletrack along a main street or town center, or a bicycle boulevard through a residential neighborhood.

Bicycle Routes – Link bicycle facilities together into a clear, easy to follow route using wayfinding such as signs and pavement markings,

connecting major destinations such as town centers, neighborhoods and regional destinations.

Bike Lane – A portion of a roadway that has been designated by striping, signing and pavement markings for the preferential or exclusive use of bicyclists.

Bike Share – Systems like Biketown in Portland make fleets of bicycles available for short-term rental within a defined service area. Some bike share systems now offer electric bikes. Conventional bike share systems like Biketown in Portland are operated through exclusive agreements between a private company and a public agency, and in most cases users must pick up and leave bikes at designated stations, through Biketown and other modern systems also offer users the option of locking a bike anywhere within the service area. Fully Dockless systems operated by companies such as Ofo, Lime bike and Spin allow users to pick up and leave bikes (or electric scooters, which many companies now offer) within a defined service area and require less coordination between the public and private sector.

Bike-Transit Facilities – Infrastructure that provide connections between the two modes, by creating a "bicycle park-and-ride," a large-scale bike parking facility at a transit station.

Bikeable – A place where people live within biking distance to most places they want to visit, whether it is school, work, a grocery store, a park, church, etc. and where it is easy and comfortable to bike.

Bikeway – Any road, street, path or right-of-way that is specifically designated in some manner as being open to bicycle travel, either for the exclusive use of bicycles or shared use with other vehicles or pedestrians, including separated bike paths, striped bike lanes or wide outside lanes that accommodate bicycles and motor vehicles.

Capacity – A transportation facility's ability to accommodate a moving stream of people or vehicles in a given place during a given time period. Increased capacity can come from building more streets or throughways, adding more transit service, timing traffic signals, adding turn lanes at intersections or many other sources.

Capacity Expansion – Constructed or operational improvements to the regional motor vehicle network that increase the capacity of the system.

Car Share – Services allow people to rent a nearby vehicle for short trips and pay only for the time that they use. Different car share service types include:

- Stationary car share (ZipCar, in some cases ReachNow), under which cars are kept at fixed stations and users pick up cars from and return them to the same station.
- Free-floating car share (Car2Go, ReachNow), which allows people to pick up and drop off cars anywhere within a defined service area.
- Peer-to-peer car share (Getaround, Turo), which enables people to rent cars from their neighbors on a short-term basis.

Central City (2040 Design Type) – Downtown Portland and adjacent areas (like Lloyd District) within the city of Portland.

Climate Change - Any significant change in the measures of climate lasting for an extended period of time. Climate change includes major

variations in temperature, precipitation or wind patterns, among other environmental conditions, that occur over several decades or longer. Changes in climate may manifest as a rise in sea level, as well as increase the frequency and magnitude of extreme weather events now and in the future.

Collector Street – A class of street. Collector streets provide both access and circulation between residential, commercial, industrial and agricultural community areas and the arterial system. As such, collectors tend to carry fewer motor vehicles than arterial streets, with reduced travel speeds. Collector streets are usually spaced at half–mile intervals, midway between arterial streets. Collectors may serve as bike, pedestrian and freight access routes providing local connections to the arterial street network and transit system.

Community Places – Key local destinations such as schools, libraries, grocery stores, pharmacies, hospitals and other medical facilities, general stores, and other places which provide key services and/ or daily needs.

Commute - Regular travel between home and a fixed location (e.g., work, school).

Commuter Rail – Short–haul rail passenger service operated within and between metropolitan areas and neighboring communities. This transit service operates in a separate right–of–way on standard railroad tracks, usually shared with freight use. The service is typically focused on peak commute periods but can be offered other times of the day and on weekends when demand exists and where rail capacity is available. The stations are typically located one or more miles apart, depending on the overall route length. Stations offer infrastructure for passengers, bus and LRT transfer opportunities and parking as supported by adjacent land uses. See also Inter–city rail.

Complete Streets – A transportation policy and design approach where streets are designed, operated and maintained to enable safe, convenient and comfortable travel and access for users of all ages and abilities, regardless of their mode of transportation.

Complete Streets Project Checklist – With the realization that street design affects so much more than traffic flow, leading Complete Streets programs have been successful in part because they endeavored to break down silos between city departments. In addition to regular meetings between departments, some cities have instituted a Project Checklist that is circulated for a sign-off from each interested department when street designs are in process. The best known example comes from the City of Seattle. Some Metropolitan Planning Organizations also use project checklists to ensure funding for street improvements adhere to Complete Street goals. Examples include the Bay Area's Metropolitan Transportation Commission, and the Mid-Ohio Regional Planning Commission.

Congestion – A condition characterized by unstable traffic flows that prevents movement on a transportation facility at optimal legal speeds. Recurrent congestion is caused by constant excess volume compared with capacity. Nonrecurring congestion is caused by incidents such as bad weather, special events and/or traffic accidents.

Congestion Management – The application of strategies to improve transportation system performance and reliability by reducing the adverse impacts of congestion on the movement of people and goods.

Congestion Management Process – A systematic and regionally-accepted approach for managing congestion that provides accurate, up-to-date information on transportation system performance and assesses alternative strategies for congestion management that meet state, regional and local needs. This systematic approach is required in transportation management areas (TMAs) to provide for effective

management and operation, based on a cooperatively developed and implemented metropolitan-wide strategy, of new and existing transportation facilities eligible for funding under title 23 U.S.C., and title 49 U.S.C., through the use of travel demand reduction and operational management strategies.

Congestion Mitigation And Air Quality Improvement (CMAQ) Program – A federal source of funding for projects and activities that reduce congestion and improve air quality, both in regions not yet attaining federal air quality standards and those engaged in efforts to preserve their attainment status.

Connected Vehicles (CVs) – Vehicles that communicate with each other, wireless devices or with infrastructure like traffic signals and incident management systems. It seems increasingly likely that vehicles in the near future will be automated and may include some connected elements, we typically use "automated vehicles" to refer to vehicles that include a mix of automated and connected elements, and only use "connected vehicles" to distinguish connected from automated vehicles.

Connected Vehicle (CV) Infrastructure – This refers to the communications, wireless devices and other infrastructure, such as traffic signals and roadside sensors, that offer the ability of vehcles to send and receive message to other vehicles, wireless devices and comunication devices to communicate information in order to help them navigate the transportation system safely and efficiently.

Connectivity – The degree to which the local and regional street, pedestrian, bicycle, transit and freight systems in a given area are interconnected.

Consideration – One or more parties takes into account the opinions, action, and relevant information from other parties in making a decision or determining a course of action.

Constrained Budget – The budget of federal, state and local funds the greater Portland region can reasonably expect through 2040 under current funding trends presuming some increased funding compared to current levels.

Constrained List - Projects that can be built by 2040 within the constrained budget.

Consultation – One or more parties confer with other identified parties in accordance with an established process and, prior to taking action(s), considers the views of the other parties and periodically informs them about action(s) taken. This definition does not apply to the "consultation" performed by the States and the Metropolitan Planning Organizations (MPOs) in comparing the long-range statewide transportation plan and the metropolitan transportation plan, respectively, to State and tribal conservation plans or maps or inventories of natural or historic resources (see section 450.216(j) and sections 450.324(g)(1) and (g)(2)).

Context Sensitive Design – A model for transportation project development that requires proposed transportation projects to be planned not only for its physical aspects as a facility serving specific transportation objectives, but also for its effects on the aesthetic, social, economic and environmental values, needs, constraints and opportunities in a larger community setting.

Cooperation – The parties involved in carrying out the transportation planning and programming processes work together to achieve a common goal or objective.

Coordinated Public Transit-Human Services Transportation Plan – A locally developed, coordinated transportation plan that identifies the transportation needs of individuals with disabilities, older adults, and people with low incomes, provides strategies for meeting those local needs, and prioritizes transportation services for funding and implementation. Trimet leads development of this plan for the reigon.

Coordination – The cooperative development of plans, programs, and schedules among agencies and entities with legal standing and adjustment of such plans, programs, and schedules to achieve general consistency, as appropriate.

Corridor – A broad geographical band that follows a general directional flow connecting major sources of trips that may contain a number of streets, highways, freight, active transportation and transit route alignments.

Corridors (2040 Design Type) – A type of land use that is typically located along regional transit routes and arterial streets, providing a place for somewhat higher densities than is found in 2040 centers. These land uses should 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. While some corridors may be continuous, narrow bands of higher–intensity development along arterial streets, others may be more nodal, that is a series of smaller centers at major intersections or other locations along the arterial that have high quality pedestrian environments, good connection to adjacent neighborhoods and transit service.

Countermeasure – An activity, initiative or design element to prevent, neutralize, or correct a specific safety problem.

Crash – A violent collision, typically of one vehicle with another (vehicles include bicyclists, motorcyclists, freight trucks, school buses, transit buses, etc.), a pedestrian, or with a stationary objects such as a pole or guard rail.

Criteria Pollutants – Carbon monoxide, lead, ground-level ozone, nitrogen oxides, particulate matter, and sulfur dioxides. Criteria pollutants are the only air pollutants with national air quality standards that define allowable concentrations of these substances in ambient air.

Cycletrack – Bicycle lanes that are physically separated from motor vehicle and pedestrian travel. A cycle track is an exclusive bike facility that has elements of a separated path and on-road bike lane. A cycle track, while still within the roadway, is physically separated from motor traffic and is distinct from the sidewalk. Cycle tracks may be one-way or two-way, and may be at road level, at sidewalk level, or at an intermediate level. They all share in common some separation from motor traffic with bollards, car parking, barriers or boulevards.

Cyclist – Person riding a bicycle.

Data-Driven Safety Analysis – Uses data to promote the integration of safety performance into all roadway investment decisions. Broader implementing of quantitative safety analysis so that it becomes an integral part of safety management and project development decision making in order to lead to better targeted roadway investments that result in fewer fatal and serious injury crashes. Decisions are compelled by data, rather than by intuition or by personal experience.

Deficiency – A performance, design or operational constraint that limits, but does not prohibit the ability to travel by a given mode.

Examples include locations where throughway capacity is less than six through lanes or that have poor or substandard design features; at–grade rail crossings; height restrictions; bike and pedestrian connections that contain obstacles (e.g., missing curb ramps, distances greater than 330 feet between pedestrian crossings, absence of pedestrian refuges, sidewalks occluded by utility infrastructure, high traffic volumes and complex traffic environments); transit overcrowding, inadequate frequency, or schedule unreliability; and high crash locations).

Delay – The additional travel time required by all travelers, as measured by the time needed to reach destinations at posted speed limits (free–flow speed) versus traveling at a slower congested speed. Delay can be expressed in several different ways, including total delay in vehicle–hours, total delay per vehicle miles traveled (VMT) and share of delay by time period, day of week or speed range.

Design Type – The conceptual areas depicted on the Metro 2040 Growth Concept Map and described in the Regional Framework Plan, including Central City, Regional Center, Town Center, Station Community, Corridor, Main Street, Inner Neighborhood, Outer Neighborhood, Regionally Significant Industrial Area, Industrial Area and Employment Area.

Electric Vehicles (EVs) – Vehicles that use electric motors for propulsion instead of or in addition to gasoline motors.

Emergency – Any human-made or natural event or circumstance causing orthreatening loss of life, injury to person or property, and includes, but is not limited to, fire, explosion, flood, severe weather, drought earthquake, volcanicactivity, spills or releases of oil or hazardous material, contamination, utility or transportation disruptions, and disease.

Emergency Medical Services (EMS) – The treatment and transport of people in crisis health situations that may be life threatening. Emergency medical support is applied in a wide variety of situations, including traffic crashes.

Emergency Transportation Routes – Priority routes used during and after a major regional emergency or disaster to move people and response resources, including including the transport of first responders (e.g., police, fire and emergency medical services), fuel, essential supplies and patients.

Emerging Technologies – A blanket term that we use throughout this plan to refer to new developments in transportation technology. We use it to refer both to technologies like automated vehicles or smart phones and services that operate using these technologies, like car and bike share.

Employer-Based Commute Programs – Work-based travel demand management programs that can include transportation coordinators, employer-subsidized transit pass programs, ride-matching, carpool and vanpool programs, telecommuting, compressed or flexible work weeks and bicycle parking and showers for bicycle commuters.

Employment Areas – Areas of mixed employment that include various types of manufacturing, distribution and warehousing uses, and may include commercial and retail development. Retail uses should primarily serve the needs of the people working or living in the immediate employment area. Exceptions to this general policy can be made only for certain areas indicated in a functional plan.

Employment Lands – Areas of mixed employment that include various types of manufacturing, distribution and warehousing uses, and

may include commercial and retail development.

Enhanced Transit Concept – Enhanced transit is a set of street design, signal, and other improvements that improve transit capacity, reliability and travel time along major Frequent Service bus lines. Enhanced Transit actions can include changes to the design and operation of streets and signals, typically owned and operated by the City. It can also include changes to transit vehicle fleet, station equipment and operation systems typically owned and operated by TriMet.

Enhanced transit projects come in a variety of shapes and sizes; for example, the improvements might address bottlenecks, or a portion of a transit line experiencing delay, or in some cases, improvements to a full transit line. Treatments can be applied systematically across a transit network to improve multiple lines or through a corridor approach to improve one or more transit lines. Enhanced Transit is intended to be flexible and context-sensitive during design and implementation. Enhanced Transit encompasses a range investments comprised of capital and operational treatments of moderate cost. It can be deployed relatively quickly in comparison to larger transit capital projects, such as building light rail.

Environmental Justice (EJ) – The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. (EPA definition)

Environmental Justice Populations – People living in poverty, people with low-income as determined annually by the U.S. Department of Health and Human Services Low-Income Index, people of color, elderly, children, people with disabilities, and other populations protected by Title VI and related nondiscrimination statutes.

Environmental Mitigation Activities – Strategies, policies, programs, and actions that, over time, will serve to avoid, minimize, rectify, reduce or eliminate impacts to environmental resources associated with the implementation of a long-range statewide transportation plan or metropolitan transportation plan.

Equitable Development – An approach to creating healthy, vibrant, communities of opportunity by creating smart, intentional strategies to ensure that everyone (residents of all incomes, races and ethnicities) can participate in, and benefit from, decisions that shape their neighborhoods and region.

Equity – Just and fair inclusion into a society in which all can participate, prosper, and reach their full potential. In transportation, a normative measure of fairness among transportation system users. See also Racial Equity and Social Equity.

Equity Focus Areas (EFA's) – Census tracts with higher than regional average concentrations and double the density of one or more of the following: people of color, English language learners, and/or people with lower income. Most of these areas also include higher than regional average concentrations of other historically marginalized communities, including young people, older adults and people living with disabilities.

Excessive Delay – The extra amount of time spent in congested conditions defined by speed thresholds that are lower than a normal delay threshold. For the purposes of MAP-21 target-setting, the speed threshold is 20 miles per hour (mph) or 60 percent of the posted speed

limit, whichever is greater.

Extreme Events – This term refers to risks posed by climate change and extreme weather events. The definition does not apply to other uses of the term nor include consideration of risks to the transportation system from other natural hazards, accidents, or other human induced disruptions.

Extreme Weather Events – Significant anomalies in temperature, precipitation and winds and can manifest as heavy precipitation and flooding, heatwaves, drought, wildfires and windstorms (including tornadoes). Consequences of extreme weather events can include safety concerns, damage, destruction and/or economic loss. Climate change can also cause or influence extreme weather events.

Facility – The fixed physical assets (structures) enabling a transportation mode to operate (including travel, as well as the loading and unloading of passengers). This includes streets, throughways, bridges, sidewalks, bikeways, transit stations, bus stops, ports, air and marine terminals and rail lines.

Federal Amount - Federal funding authority made available to a project to reimburse eligible project related expenses.

Federal Highway Administration (FHWA) – The U.S. Department of Transportation agency responsible for administering the federal highway aid program to individual states, and helping to plan, develop and coordinate construction of federally-funded highway projects. FHWA also governs the safety of hazardous cargo on the nation's highwaysThe FHWA implements transportation legislation approved at the congressional level that appropriates all federal funds to states,MPOs and local governments.

Federal Transit Administration (FTA) – U.S. Department of Transportation agency that provides financial and planning assistance to help plan, build and operate rail, bus and paratransit systems. The agency also assists in the development of local and regional traffic reduction programs.

Financial Plan – Documentation required to be included with a metropolitan transportation plan and TIP (and optional for the long-range statewide transportation plan and STIP) that demonstrates the consistency between reasonably available and projected sources of Federal, State, local, and private revenues and the costs of implementing proposed transportation system improvements.

Financially Constrained Or Fiscal Constraint – This means that the metropolitan transportation plan, TIP, and STIP includes sufficient financial information for demonstrating that projects in the metropolitan transportation plan, TIP, and STIP can be implemented using committed, available, or reasonably available revenue sources, with reasonable assurance that the federally supported transportation system is being adequately operated and maintained.

Fiscal Constraint – A federal requirement that long-range transportation plans and four-year multistage investments programs (aka Transportation Improvement Program – TIP) include only projects that have a reasonable expectation of being funded, based upon anticipated revenues (for the long-range transportation plan) or secured revenues (for the four-year TIP). In other words, long-range transportation plans or TIP cannot be a wish lists of projects; they must reflect realistic assumptions about revenues that will likely be available or secured.

Fixing America's Surface Transportation Act (FAST Act) – A funding and authorization bill to govern United States federal surface transportation spending, signed by President Obama on December 4, 2015. The FAST Act established funding levels and federal policy for our nation's highways and public transit systems for fiscal years 2016-2020. The \$305 billion, five-year bill maintains the core highway and transit funding programs established by its predecessor MAP-21, and establishes the National Highway Freight Program, a formula program focused on goods movement.

Forecast – Projection of population, employment or travel demand for a given future year.

Freeway – A design for a Throughway in which all access points are grade separated. Directional travel lanes usually separated by a physical barrier, and access and egress points are limited to on–and off–ramp locations or a very limited number of at–grade intersections.

Freight Intermodal Facility – An intercity facility where freight is transferred between two or more freight modes (e.g., truck to rail, rail to ship, truck to air).

Freight Mobility – The efficient movement of goods from point of origin to destination.

Freight Intermodal Facility – An intercity facility where freight is transferred between two or more freight modes (e.g., truck to rail, rail to ship, truck to air).

Freight Modes – Freight modes are the means by which freight achieves mobility. These modes fall into five basic types: road (by truck), rail, pipeline, marine (by ship or barge) and air.

Freight Rail – A freight train that is a group of freight cars hauled by one or more locomotives on a railway, transporting cargo all or some of the way between the shipper and the intended destination.

Frequent Bus – Frequent bus service offers local and regional bus service with stops approximately every 750 to 1000 feet, providing corridor service rather than nodal service along selected arterial streets. This service typically runs at least every 15 minutes throughout the day and on weekends though frequencies may increase based on demand, and it can include transit preferential treatments, such as reserved bus lanes and transit signal priority, and enhanced passenger infrastructure along the corridor and at major bus stops, such as covered bus shelters, curb extensions, special lighting and median stations.

Full Funding Grant Agreement (FFGA) – An instrument that defines the scope of a project, the federal financial contribution, and other terms and conditions for funding from Federal Transit Administration Capital Infrastructure Grant Program (e.g. New Starts) projects.

Functional Classification – The class or group of roads to which the road belongs. There are three main functional classes as defined by the United States Federal Highway Administration: arterial, collector, and local. Throughways and freeways fall under arterial in the federal classification system.

Fund Type – Description of the federal, state or local funds assigned to a project phase

Gap – A missing link or barrier in the "typical" urban transportation system for any mode that functionally prohibits travel where a

connection might be expected to occur in accordance with the system concepts and networks in Chapter 3 of the RTP. A gap generally means a connection does not exist at all, but could also be the result of a physical barrier such as a throughway, natural feature, weight limitations on a bridge or existing development.

Goal – A broad statement that describes a desired outcome or end statetoward which actions are focused to make progress toward a long-term vision.

Greenhouse Gas Emissions – The six gases identified in the Kyoto Protocol and by the Oregon Greenhouse Gas Mandatory Reporting Advisory Committee as contributing to global climate change: carbon dioxide (CO2), nitrous oxide (N2), methane (CH4), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF6). Greenhouse gases absorb solar radiation and act like a heat-trapping blanket in the atmosphere, causing climate change. More information is available at epa.gov/climatechange.

Green Infrastructure – A network of multi-functional green spaces and environmental features, both natural and engineered, that use or replicate natural systems to better manage stormwater, protect streams and enhance wildlife corridors—trees, soils, water and habitats. Examples include: permeable paving, vegetated swales, rain gardens, green streets, green roofs, green walls, urban forestry, street trees, parks, green corridors such as trails, and other low impact development practices.

Green Streets – An innovative stormwater management approach that captures rain where it falls by using vegetation, soil and engineered systems to slow, filter and clean stormwater runoff from impervious surfaces.

Greenways – Greenways generally follow rivers and streams and may or may not provide for public access. In some cases, greenways may be a swath of protected habitat along a stream with no public access. In other cases, greenways may allow for an enviro9nmentally compatible trail, viewpoint or canoe launch site. The greenways that are identified in Metro's regional trails plan do not presently offer public access. Usage of the term "greenway" can be ambiguous because it is sometimes used interchangeably with the word "trail." For example, "Fanno Creek Trail", "Fanno Creek Greenway", and "Fanno Creek Greenway Trail" are used with equal frequency for the same trail. Trail and greenway professional prefer to make the technical distinction that the "trail" refers to the tread or the actual walking service, while the "greenway" refers to the surrounding park or natural corridor. The term is also ambiguous because the City of Portland recently began referring to its bicycle boulevards as "neighborhood greenways." Neighborhood greenways differ from traditional greenways in that they general do not follow an open space corridor aside from local streets.

Health Impact Assessment – A combination of procedures, methods, and tools by which a policy, program or project may be evaluated as to its potential effects on the health of a population, and the distribution of these effects within the population.

High Capacity Transit (HCT) – High capacity transit is public transit that can have exclusive right of way, non-exclusive right of way, or a combination of both. Vehicles make fewer stops, travel at higher speeds, have more frequent service and carry more people than local service transit such as typical bus lines. It includes:

• Light rail uses high capacity trains (68 seats with room and design for several passengers to stand) and focuses on regional mobility with stops typically one-half to 1 mile apart, connecting concentrated housing or local bus hubs and employment areas. The service has its own right of way. Cars can be doubled, and service frequency increased, during peak hours.

- Commuter rail uses high capacity heavy rail trains (74 seats in a single car, 154 in doubled cars), typically sharing right of way with freight or other train service (though out of roadway). The service focuses on connecting major housing or local bus hubs and employment areas with few stops and higher speeds. The service may have limited or no non-peak service.
- Bus rapid transit uses coach-style or high capacity busses (40-60 seats with room and design for several passengers to stand). The service may be in the roadway with turnouts and signal priority for stops, have an exclusive right of way, or be some combination of the two. The service focuses on regional mobility, with higher speeds, fewer stops, higher frequency and more substantial stations than local bus, connecting concentrated housing or local bus hubs and employment areas. Service frequency can be increased during peak hours.
- Using the same technology as local streetcar, rapid streetcar focuses on regional mobility, offering fewer stops through less populated areas to connect housing areas to jobs or other destinations. Cars can be doubled, and service frequency increased, during peak hours. The service operates in mixed traffic, in exclusive right of way or a combination of the two.

High Crash Location – Highway or road segments identified by the frequency and severity of motor vehicle crashes. Identification of high crash locations is part of the safety problem identification process.

High Injury Corridors And Intersections (HIC) – Roadways where the highest concentrations of fatal and severe injury crashes involving people in cars, biking and walking occur on the regional transportation system Corridors and intersections were analyzed to determine aggregate crash scores based on the frequency and severity of crashes, using the following methodology:

- Fatal and Injury A (serious) crashes for all modes are assigned to the network;
- "Injury B", "Injury C", and "PDO (property damage only)" crashes involving bikes and pedestrians are also assigned to the network;
- Fatal and Injury A crashes are given a weight of 10;
- Roadways are analyzed in mile segments; if a segment has only one Fatal or Injury A crash it must also have at least one B/C (minor injury) crash, for the same mode, to be included in the analysis.; and
- Roadway segments are assigned an N-score (or "crash score") by calculating the weighted sum by mode and normalizing it by the roadway length.

To reach 60 percent of Fatal and Severe Injury crashes, roadway segments had to have an N-score of 39 or higher; high injury Bicycle Corridors had to have an N-score of 6 or more, and high injury Pedestrian Corridors had to have an N-score of 15 or more. Intersections with the highest weighted crash scores were also identified; 5 percent of intersections had an N-score (or "crash score") higher than 80 and are also shown on the map, and 1 percent of intersections (the top 1 percent) had to have an N-score higher than 128.

High Risk Roadways – Characteristics if high risk roads are identified by looking at crash history on an aggregate basis to identify particular severe crash types (e.g. pedestrian) and then use the roadway characteristics associated with particular crash types (e.g. arterial roadways with four-or more lanes, posted speed over 35 mph, unlit streets) to understand which roadways may have a higher risk of the same type of severe crash.

High-Occupancy Vehicle (HOV) – A vehicle carrying more than two passengers with the exception of motorcycles.

High-Occupancy Vehicle Lane – The technical term for a carpool lane. See also high-occupancy vehicle.

Highway - A design for a Throughway in which access points are a mix of separate and at-grade.

Historically Marginalized Communities – Communities of people that have been historically excluded from critical aspects of social participation including, voting, education, housing and more. Historical marginalization is often a result of systematic exclusion based on devaluation of any individual existing outside of the dominant culture. For purposes of the RTP, this includes people of color, people with limited English proficiency, people with lower-incomes, youth, older adults and people living with a disability.

Incident Management (ICM) – The detection and verification of incidents (crashes, stalled vehicles, etc. blocking traffic) and the implementation of appropriate actions to clear the highway.

Individualized Marketing – Travel demand management programs focused on individual households. IM programs involve individualized outreach to households that identify household travel needs and ways to meet those needs with less vehicle travel.

Induced Demand – The process whereby improvements in the transportation system intended to alleviate congestion and delay result in additional demand for the transportation segment, offsetting some of the improvement's potential benefits. For instance, when a congested roadway is expanded from 2 to 3 lanes, some drivers will recognize the increased capacity and take this roadway though they had not done so previously.

Industrial Areas – Areas set aside for industrial activities. Supporting commercial and related uses may be allowed, provided they are intended to serve the primary industrial users. Residential development and retail users whose market area is larger than the industrial area are not considered supporting uses.

Intelligent Transportation Systems (ITS) – Electronics, photonics, communications, or information processing used singly or in combination to improve the efficiency or safety of the transportation system. ITS can include both vehicle-to-vehicle communication (which allows cars to communicate with one another to avoid crashes and vehicle-to-infrastructure communication (which allows cars to communicate with the roadway) to identify congestion, crashes or unsafe driving conditions, manage traffic flow, or provide alternate routes to travelers.

Intermodal Connector – A road that provides connections between major rail yards, marine terminals, airports, and other freight intermodal facilities; and the freeway and highway system (the National Highway System).

Intermodal Facilities – A transportation element that allows passenger and/or freight connections between modes of transportation. Examples include airports, rail stations, marine terminals, and rail–yards that facilitate the transfer of containers or trailers. See also passenger intermodal facility and freight intermodal facility definitions.

Lead Agency - The agency that is contractually responsible for managing and delivering the project.

Level-Of-Service (Motor Vehicle Network, LOS) – A traditional measure of congestion, calculated by by dividing the number of motor vehicles passing through a section of roadway during a specific increment of time by the motor vehicle capacity of the section. For

example, a LOS of 1.00 indicates the roadway facility is operating at its capacity.

Traditionally, motor vehicle LOS has been used in transportation system planning, project development and design as well as in operational analyses and traffic analysis conducted during the development review process. As a system plan, the RTP uses the interim regional policy to diagnose the extent of motor vehicle congestion on throughways and arterials during different times of the day and to determine adequacy in meeting the region's needs. LOS is also used to determine consistency of the RTP with the Oregon Highway Plan for state-owned facilities. See also volume-to-capacity ratio and regional mobility policy.

Local Bikeways – Trails, streets and connections not identified as regional bicycle routes, but are important to a fully functioning network. Local bikeways are the local collectors of bicycle travel. They are typically shorter routes with less bicycle demand and use. They provide for door-to-door bicycle travel.

Local Jurisdiction – For the purpose of this plan, this term refers to a city or county within the Metro boundary.

Local Pedestrian Connectors – All streets and trails not included on the regional network. Local connectors experience lower volumes of pedestrian activity and are typically on residential and low-volume/speed roadways or smaller trails. Connectors, however, are an important element of the regional pedestrian network because they allow for door-to-door pedestrian travel.

Local Streets Or Roads – Local streets primarily provide direct access to adjacent land. While Local streets are not intended to serve through traffic, the aggregate effect of local street design impacts the effectiveness of the arterial and collector system when local travel is restricted by a lack of connecting routes, and local trips are forced onto the arterial street network. In the urban area, local roadway system designs often discourage "through traffic movement." Regional regulations require local street connections spaced no more than 530 feet in new residential and mixed used areas, and cul—de—sacs are limited to 200 feet in length. These connectivity requirements ensure that a lack of adequate local street connections does not result in the arterial system becoming congested. While the focus for local streets has been on motor vehicle traffic, they are developed as multi—modal facilities that accommodate bicycles, pedestrians and sometimes transit.

Lower Income Focus Area – Census tracts with higher than regional average concentrations and double the density of people with lower income. Lower income is defined as households with incomes below 200 percent of the federal poverty level, adjusted for household size (i.e., with incomes up to twice the level of poverty), as defined by the U.S. Census Bureau for 2016. The 2016 federal poverty level for a two person household was \$16,020.

Main Line Rail - Class I rail lines (e.g., Union Pacific and Burlington Northern/Santa Fe).

Main Roadway Routes – Designated freights routes that are freeways and highways that connect major activity centers in the region to other areas in Oregon or other states throughout the U.S., Mexico and Canada.

Major Transit Stop – Existing and planned light rail stations and transit transfer stations, except for temporary facilities and other existing and planned transit stops which:

- (A) Have or are planned for an above average frequency of scheduled, fixed-route service when compared to region wide service. In urban areas of 1,000,000 or more population major transit stops are generally located along routes that have or are planned for 20 minute service during the peak hour; and
- (B) Are located in a transit oriented development or within 1/4 mile of an area planned and zoned for:
- (i) Medium or high density residential development; or
- (ii) Intensive commercial or institutional uses within 1/4 mile of subsection (i); or
- (iii) Uses likely to generate a relatively high level of transit ridership.

Marine Facilities – A facility where freight is transferred between water–based and land–based modes.

Meaningful Involvement – This term means that the public should have opportunities to participate in decisions that could affect their environment and their health, their contributions should be taken into account by regulatory agencies, and decision-makers should seek and facilitate the engagement of those potentially affected by their decisions. (from EPA)

Measure – An expression based on a metric that is used to establish targets and to assess progress toward achieving the established targets.

Memorandum Of Understanding (MOU) - An MOU (Memorandum of Understanding) or an MOA (Memorandum of Agreement) is an agreement between agencies that specifies the terms of the project, documents the requirements for team member participation, and establishes the specific authority that each team member has for making decisions.

Metric - A quantifiable indicator of performance or condition.

Metropolitan Greenspaces Master Plan (1992) – Details the vision, goals and organizational framework of a regional system of natural areas, trails and greenways for wildlife and people in the region, and set the foundation for subsequent bond measures and trail plans.

Metropolitan Planning Area Boundary (MPA) – The geographic area determined by agreement between the Metropolitan Planning Organization (MPO) and the Governor, in which the metropolitan transportation planning process is carried out by the MPO.

Metropolitan Planning Organization (MPO) – A federally-required policy body responsible for the transportation planning, project selection and scheduling the use of federal transportation funds in its region. Governed by policy board, MPOs are required in urbanized areas with populations more than 50,000 and are designated by the governor of the state. Oregon currently has eight MPOs covering the metropolitan areas of Portland, Salem-Keizer, Corvallis area, Eugene-Springfield, Rogue Valley (Medford-Ashland,) Bend area, Albany area, and Middle Rogue. JPACT and the Metro Council constitute the MPO for the Portland region. The MPO conducts federally mandated transportation planning work, including: a long-range Regional Transportation Plan (RTP), the Metropolitan Transportation Improvement Program (MTIP) for capital improvements identified for a four-year construction period, a Unified Planning Work Program (UPWP), a congestion management process (CMP), federal performance-based planning and target-setting and conformity to the state

implementation plan for air quality for transportation related emissions.

Metropolitan Transportation Improvement Program (MTIP) – The MTIP includes all federally funded transportation projects in the Portland metropolitan planning area, including projects planned by TriMet, the Oregon Department of Transportation and local agencies receiving federal funds allocated by Metro. The MTIP is incorporated in the Statewide Transportation Improvement Program (STIP), which identifies the state's four-year transportation capital improvements. See also transportation improvement program.

Metropolitan Transportation Plan (MTP) – The official multimodal transportation plan addressing no less than a 20-year planning horizon that the MPO develops, adopts, and updates through the metropolitan transportation planning process. The Regional Transportation Plan is metropolitan transportation plan for the Portland region.

Microtransit – Services such as Via, Chariot and Leap can differ from conventional transit service in several different ways:

- Dynamic routing: Some microtransit services operate on flexible routes to pick up and drop off riders nearer to their origins and destinations. Services may deviate from a fixed route to make pickups and dropoffs, crowdsource routes from data provided by riders or make stops anywhere within a defined service area.
- On-demand scheduling: Instead of operating on a fixed schedule, microtransit services may allow riders to request a ride when they need it.
- Smaller vehicles: Microtransit services often use vans or small buses instead of 40-passenger buses.
- Private operation: Many microtransit services are privately operated or operated through partnerships between public agencies and private companies.

We distinguish between microtransit that is coordinated with public transit, for example services that connect people to high-frequency transit or operate in areas that are hard to serve with conventional transit, and luxury microtransit that serve existing transit routes and offer more space or amenities than a public bus at a higher cost.

Minimum Local Match - Funding required to be provided by the lead agency to qualify for the federal funding authority programmed to the project.

Mitigation – Planning actions taken to avoid an impact altogether, minimize the degree or magnitude of the impact, reduce the impact over time, rectify the impact, or compensate for the impact. Mitigation includes:

- (a) Avoiding the impact altogether by not taking a certain action or parts of an action.
- (b) Minimizing impacts by limiting the degree or magnitude of the action and its implementation.
- (c) Rectifying the impact by repairing, rehabilitating, or restoring the affected environment.
- (d) Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action.

(e) Compensating for the impact by replacing or providing substitute resources or environments.

Mixed Use – Comprehensive plan or implementing regulations that permit a mixture of commercial and residential development.

Mixed-Use Development – Areas of a mix of at least two of the following land uses and includes multiple tenants or ownerships: residential, retail and office. This definition excludes large, single-use land uses such as colleges, hospitals, and business campuses.

Mobility – The ability to move people and goods to destinations efficiently and reliably.

Mobility Corridor – Mobility corridors represent subareas of the region and include all regional transportation facilities within the subarea as well as the land uses served by the regional transportation system. This includes freeways and highways and parallel networks of arterial streets, regional bicycle parkways, high capacity transit, and frequent bus routes. The function of this network of integrated transportation corridors is metropolitan mobility – moving people and goods between different parts of the region and, in some corridors, connecting the region with the rest of the state and beyond. This framework emphasizes the integration of land use and transportation in determining regional system needs, functions, desired outcomes, performance measures, and investment strategies.

Modal Targets – Performance targets for increased walking, biking, transit, shared ride and other non-drive alone trips as a percentage of all trips made in a defined area. The targets apply to trips to, from and within each 2040 Design Type. The targets reflect desired mode shares for each area for the year 2040 needed to comply with Oregon Transportation Planning Rule objectives to reduce reliance on single-occupant vehicles and per capita vehicle miles traveled.

Regional 2040 Modal Targets

2040 Design Type	Non-Drive Alone Modal Target
Portland central city	60-70%
Regional centers	
Town centers	
Main streets	45-55%
Station communities	
Corridors	
Passenger intermodal facilities	
Industrial areas	40-45%
Freight intermodal facilities	
Employment areas	
Neighborhoods	

Note: The targets apply to trips to, from and within each 2040 design type

Mode – A type of transportation distinguished by means used (e.g., such as walking, bike, bus, single– or high–occupancy vehicle, bus, train, truck, air, marine).

Mode Choice – The ability to choose one or more modes of transportation.

Mode Share – The proportion of total person trips using various modes of transportation.

Motorcycle – A motor vehicle with motive power having a seat or saddle for the use of the rider and designed to travel on not more than three wheels in contact with the ground. The NHTSA defines "motorcycle" to include mopeds, two or three-wheeled motorcycles, off-road motorcycles, scooters, mini bikes and pocket bikes.

Moving Ahead For Progress In The 21st Century Act (MAP-21) (P.L. 112-141) – Reauthorization of Federal highway funding, signed into law by President Obama on July 6, 2012. Subsequent adoption of the FAST Act does not replace MAP-21 in all areas regulation of transportation safety planning and funding, so both must be referenced.

MTIP ID - This is a unique identification number assigned to a program or project by the MPO (Metro) to organize all transportation projects within the Metropolitan Transportation Improvement Program (MTIP).

Multimodal – Transportation facilities or programs designed to serve many or all methods of travel, including all forms of motor vehicles, public transportation, bicycles and walking.

Multimodal Level Of Service (MMLOS) – Multimodal level of service (MMLOS) is an analytical tool that measures and rates users' experiences of the transportation system according to their mode. It evaluates not only drivers' experiences, but incorporates the experiences of all other users, such as cyclists and pedestrians.

National Environmental Protection Act (NEPA) - A federal environmental policy that establishes a process by which federal agencies must study the environmental effects of their proposals, document the analysis, and make the information available to the public for comment. For transportation projects, NEPA requires examination and avoidance of potential impacts to the social and natural environment when considering approval of proposed projects. It provides an interdisciplinary framework for federal agencies to prevent environmental damage and contains "action-forcing" procedures to ensure that federal agency decision makers take environmental factors into account.

National Highway System (NHS) – Title 23 of the U.S. Code section 103 states that the purpose of the NHS is to provide an interconnected system of principal routes that serve major population centers, international border crossings, ports, airports, public transportation facilities, intermodal transportation facilities, major travel destinations, meet national defense requirements, and serve interstate and inter–regional travel. Facilities included in the NHS are of regional significance.

National Performance Management Research Data Set (NPMRDS) – A data set derived from vehicle/passenger probe data (sourced from Global Positioning Station (GPS), navigation units, cell phones) that includes average travel times representative of all traffic on each mainline highway segment of the National Highway System (NHS), and additional travel times representative of freight trucks for those segments that are on the Interstate System. The data set includes records that contain average travel times for every 15 minutes of every day (24 hours) of the year recorded and calculated for every travel time segment where probe data are available. The NPMRDS does not include any imputed travel time data.

Network – Connected routes forming a cohesive system.

New Mobility Services – Transportation services like ride-hailing, microtransit and car and bike share, which operate using smart phones and other emerging technologies. Many of these services are privately operated by new mobility companies.

Non-Motorized – Generally referring to bicycle, walking and other modes of transportation not involving a motor vehicle.

Non-SOV Travel – Any travel mode other than driving alone in a motorized vehicle (i.e., single occupancy vehicle or SOV travel), including travel avoided by telecommuting.

Objective (In A Plan) – A specific, measureable desired outcome and means for achieving a goal(s) to guide action within the plan period.

ODOT - This is a unique identification number assigned to a program or a project by the ODOT to organize all transportation projects within the State Transportation Improvement Program (STIP).

Off–Peak Hours – The hours outside of the highest motor vehicle traffic period, generally between 9 a.m. and 3 p.m. and between 6 p.m. and 7 a.m.

Older Adults (Vulnerable) – The Moving Ahead for Progress in the 21st Century (MAP-21) Act created a new Special Rule for older drivers and pedestrians under 23 USC 148(g)(2), which was continued under the Fixing America's Surface Transportation (FAST) Act. If the rate per capita of traffic fatalities and serious injuries for drivers and pedestrians over the age of 65 in a State increases over the most recent 2-year period, this Special Rule requires a State to include strategies to address the increases in those rates in their State Strategic Highway Safety Plan (SHSP). FHWA issued the Section 148: Older Drivers and Pedestrians Special Rule Final Guidance in May 2016. TriMet's Coordinated Transportation Plan for Seniors and Persons With Disabilities (2016) identifies several principles and actions related to addressing safety and security concerns getting to and at transit stops and on transit.

Operational And Management Strategies – Actions and strategies aimed at improving the performance of existing and planned transportation facilities to relieve congestion and maximize the safety and mobility of people and goods.

Oregon Transportation Commission (OTC) – The Oregon Transportation Commission is a five–member governor–appointed government agency that manages the state highways and other transportation in the state of Oregon, in conjunction with the Oregon Department of Transportation.

Oregon Transportation Plan (OTP) – The official statewide intermodal transportation plan that is developed through the statewide transportation planning process by ODOT and approved by the Oregon Transportation Commission.

Other Amount - Additional funding from non-federal sources identified as available to the project.

Parking Management – Strategies that encourage more efficient use of existing parking facilities, improve the quality of service provided to parking facility users, and improve parking facility design. Examples include developing an inventory of parking supply and usage, reduced parking requirements, shared and unbundled parking, parking-cash-out, priced parking, bicycle parking and providing information on parking space availability. More information can be found at vtpi.org/park man.pdf

Passenger Car Equivalent – Passenger Car Equivalent (PCE) is a metric used in Transportation Engineering, to assess traffic–flow rate on a highway. A PCE is essentially the impact that a mode of transport has on traffic variables compared to a single car.

Passenger Intermodal Facilities – Facilities that accommodate or serve as transfer points to interconnect various transportation modes for the movement of people. Examples include Portland International Airport, Union Station, Oregon City Amtrak station and inter–city bus stations.

Passenger Rail – Inter–city passenger rail is part of the state transportation system and extends from the Willamette Valley north to British Columbia. Amtrak already provides service south to California, east to the rest of the continental United States and north to

Canada. It is a transit system that operates, in whole or part, on a fixed guide—way. These systems should be integrated with other transit services within the metropolitan region with connections at passenger intermodal facilities.

Passenger Train – A railroad train for only passengers, rather than goods. Amtrak is the company that controls the railroads that carry passengers in the U.S.

Passenger Vehicles – Motor vehicles with at least four wheels, used for the transport of passengers, and comprising no more than eight seats in addition to the driver's seat. Light commercial vehicles are motor vehicles with at least four wheels, used for the carriage of goods.

Peak Period Or Hours – The period of the day during which the maximum amount of travel occurs. It may be specified as the morning (A.M.) or afternoon or evening (P.M.) peak. Peak periods in the Portland metropolitan region are currently generally defined as from 7–9 AM and 4–6 PM.

Pedestrian – A person traveling on foot, in a wheelchair or in another health–related mobility device.

Pedestrian Comfort Index (PCI) - Uses data such as auto volumes, auto speeds, number of auto lanes, sidewalk existence and width, number of pedestrian crossings on existing roadways and assigns a comfort rating for pedestrians. Results help identify roadways on the regional pedestrian network that could be upgraded to increase bicyclists comfort. Metro has collected and analyzed initial data for the regional pedestrian network but has not created a PCI. Additional data and analysis is needed.

Pedestrian Connection – A continuous, unobstructed, reasonably direct route between two points that is intended and suitable for pedestrian use. Pedestrian connections include but are not limited to sidewalks, walkways, accessways, stairways and pedestrian bridges. On developed parcels, pedestrian connections are generally hard surfaced. In parks and natural areas, pedestrian connections may be soft-surfaced pathways. On undeveloped parcels and parcels intended for redevelopment, pedestrian connections may also include rights-of-way or easements for future pedestrian improvements.

Pedestrian Corridor – The second highest functional class of the regional pedestrian network. On-street regional pedestrian corridors are any major or minor arterial on the regional urban arterial network that is not a pedestrian parkway. Regional trails that are not pedestrian parkways are regional pedestrian corridors. These routes are also expected to see a high level of pedestrian activity, though not as high as the parkways.

Pedestrian District – A comprehensive plan designation or set of land use regulations designed to provide safe and convenient pedestrian circulation, with a mix of uses, density, and design that support high levels of pedestrian activity and transit use. The pedestrian district can be a concentrated area of pedestrian activity or a corridor. Pedestrian districts can be designated within the following 2040 Design Types: Central City, Regional and Town Centers, Corridors and Main Streets. Though focused on providing a safe and convenient walking environment, pedestrian districts also integrate efficient use of several modes within one area, e.g., auto, transit, and bike.

Pedestrian Facility – A facility provided for the benefit of pedestrian travel, including walkways, protected street crossings, crosswalks, plazas, signs, signals, pedestrian scale street lighting and benches.

Pedestrian Parkway – A new functional class for pedestrian routes in the Regional Transportation Plan and the highest functional class. They are high quality and high priority routes for pedestrian activity. Pedestrian parkways are major urban streets that provide frequent and almost frequent transit service (existing and planned) or regional trails. Adequate width and separation between pedestrians and bicyclists should be provided on shared use path parkways.

Pedestrian-Scale – An urban development pattern where walking is a safe, convenient and interesting travel mode. The following are examples of pedestrian scale facilities: continuous, smooth and wide walking surfaces, easily visible from streets and buildings and safe for walking; minimal points where high speed automobile traffic and pedestrians mix; frequent crossings; and storefronts, trees, bollards, on-street parking, awnings, outdoor seating, signs, doorways and lighting designed to serve those on foot; all well-integrated into the transit system and having uses that cater to pedestrians.

People Of Color Focus Area – Census tracts with higher than regional average concentrations and double the density of one or more of the following: people of color and/or English language learners.

Per Capita – Used to describe the rate of something per person.

Performance-Based Planning And Programming – Refers to the application of performance management within the planning and programming processes of MPOs and transportation agencies to achieve desired performance outcomes for the multimodal transportation system. Attempts to ensure that transportation investment decisions are made – both in long-term planning and short-term programming of projects – based on their ability to meet established goals.

Performance Management – A strategic approach that uses data and information to support decisions that help to achieve identified performance outcomes.

Performance Measurement – A process of assessing progress toward achieving goals using data.

Performance Measure – A metric used to assess and monitor progress toward meeting an objective using quantitative or qualitative data and provide feedback in the plan's decision-making process.

Some measures can be used to predict the future as part of an evaluation process using forecasted data, while other measures can be used to monitor changes based on actual empirical or observed data. In both cases, they can be applied at a system-level, corridor-level and/or project level, and provide the planning process with a basis for evaluating alternatives and making decisions on future transportation investments. As used in the RTP, performance measures are used to evaluate transportation system performance and potential impacts of the plan's investments within the planning period. They are also used to monitor performance of the plan in between updates to evaluate the need for refinements to policies, investment strategies or other elements of the plan.

Person Trip – A trip made by a person from one location to another, whether as a driver, bicyclist, passenger or pedestrian.

Per Vehicle Miles Traveled (VMT) – Used to describe rate of something per the number of motor vehicle miles traveled, such as the crash rate per motorized vehicle miles. Except where otherwise noted, crash rates are per 100-million motorized vehicle miles travelled in this

document.

Phase - The type of work being completed on the project with funds programmed for the fiscal year identified. Includes:

- Planning: activities associated with preparing for projects for implementation, from broad systems planning to project development activities.
- Preliminary Engineering: work to create construction and environmental documents.
- Right Of Way: activities associated with investigating needs for use of land for the construction or operation of a project.
- Construction: activities associated with the physical construction of a project.
- Other: Activities for programs or projects not defined by one of the other phase activities defined above.

Physically Separated Bicycle Lanes – These types of facilities provide a physical buffer between a person riding a bicycle and auto traffic and can be referred to as cycle tracks, trails, paths and buffered bicycle lanes. Buffers can be provided by parked cars, landscaped strips, raised pavement, bollards and planters.

Planning Area Boundary – A boundary used by Metro for planning purposes – also called the metropolitan planning area boundary. Included within the boundary are all areas within the Metro jurisdictional boundary, the 2010 Census urbanized area, designated urban reserves and the urban growth boundary.

Planning Factors – A set of broad objectives defined in Federal legislation to be considered in both the metropolitan and statewide planning process. The factors are:

- Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
- Increase the safety of the transportation system for motorized and non-motorized users.
- Increase the security of the transportation system for motorized and non-motorized users.
- Increase the accessibility and mobility of people and for freight.
- Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
- Enhance the integration and connectivity of the transportation system, across and between modes, people and freight.
- Promote efficient system management and operation.
- Emphasize the preservation of the existing transportation system.
- Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.
- · Enhance travel and tourism.

Policy – A policy is a statement of intent and describes a direction and a course of action adopted and pursued by a government to achieve desired outcome(s).

Posted Speed – The speeds indicated on signs along the roadway. When speeds differ from statutory speeds there must be a posted sign indicating the different speed.

Practicable – This term means available and capable of being done after taking into consideration cost, existing technology and logistics, in light of overall project purposes.

Preparedness – This term refers to actions taken to plan, organize, equip, train, and exercise to build, apply, and sustain the capabilities necessary to prevent, protect against, ameliorate the effects of, respond to, and recover from climate change related damages to life, health, property, livelihoods, ecosystems, and national security.

Principal Arterial – Limited-access roads that serve longer-distance motor vehicle and freight trips and provide interstate, intrastate and cross-regional travel. See definition of Throughway.

Project Development – A phase in the transportation planning process during which a proposed project undergoes a more detailed analysis of the project's social, economic and environmental impacts and various project alternatives to determine the precise location, alignment, and preliminary design of improvements based on site-specific engineering and environmental studies. After a project has successfully passed through this phase, it may move forward to right-of-way acquisition and construction phases. Project development activities include: Environmental Assessment (EA)/Environmental Impact Statement (EIS) work, Design Options Analysis (DOA), management plans, and transit Alternatives Analysis (AA).

Project Type - This is the primary mode for the project.

Protected Bike Lanes – Separated bike lane, cycle track, a bike lane that is physically separated from auto traffic, typically they are created using planters, curbs, parked cars, or posts and are essential for creating a complete network of bike-friendly routes. For bicyclists, safety increases significantly when there is physical separation from motorists through infrastructure. Fully protected bikeways can reduce bicycle injury risk up to 90 percent. Another report found that on-street bike lanes that use barriers to physically separate bicyclists from motor vehicles are 89 percent safer than streets with parked cars and without bicycling infrastructure. When physical separation is not possible, infrastructure such as striped bike lanes, bicycle boulevards, and bike boxes help reduce the risk of conflict with motor vehicles.

Public Health – The health of the population as a whole, especially as monitored, regulated, and promoted by the state.

Racial Equity – When race can no longer be used to predict life outcomes and outcomes for all groups are improved. The removal of barriers with a specific focus on eliminating disparities faced by and improving equitable outcomes for communities of color – the foundation of Metro's strategy with the intent of also effectively identifying solutions and removing barriers for other disadvantaged groups.

Rail Branch Lines – Non–Class I rail lines, including short line or branch lines.

Ramp Meter Or Metering – A traffic signal used to regulate the flow of vehicles entering the freeway. Ramp meters smooth the merging process resulting in increased freeway speeds and reduced crashes. Ramp meters can be automatically adjusted based on traffic

conditions.

Record Of Decision - A federal environmental decision document issued by FHWA that explains the basis for the project decision, summarizes mitigation measures to incorporate into the project, and documents any required Section 4(f) approvals.

Refinement Plan – Amendment to a transportation system plan which determines at a systems level the function, mode or general location of a transportation facility, service or improvement, deferred during system planning because detailed information needed to make the determination could not be reasonably obtained at that time.

Regional Bike-Transit Facility – The hub where the spokes of the regional bikeway network connect to the regional transit network. Stations and transit centers identified as regional bike-transit facilities have high-capacity bike parking and are suitable locations for bike-sharing and other activities that support bicycling. Criteria for identifying locations are found in the TriMet Bicycle Parking Guidelines.

Regional Bikeway – Designated routes that provide access to and within the central city, regional centers and town centers. These bikeways are typically located on arterial streets but may also be located on collectors or other low-volume streets. These bikeways should be designed using a flexible "toolbox" of bikeway designs, including bike lanes, cycle tracks (physically separated bicycle lanes) shoulder bikeways, shared roadway/wide outside lanes and bicycle priority treatments (e.g. bicycle boulevards).

Regional Centers (2040 Design Type) – Compact, specifically–defined areas where higher density growth and a mix of intensive residential and commercial land uses exists or is planned. Regional centers are to be supported by an efficient, transit–oriented, multi–modal transportation system. Examples include traditional centers, such as downtown Gresham, and new centers such as Gateway and Clackamas Town Center.

Regional Concept For Transportation Operations (RCTO) - A Regional Concept for Transportation Operations (RCTO) helps plan and implement TSMO strategies in an ongoing and collaborative way. It states the shared regional objective for transportation operations and identifies what is needed to achieve that objective. This includes physical improvements, relationships and procedures, and resources. A RCTO is developed through agreement between those responsible for operating the transportation system on a day-to-day basis: staff representing traffic operations, transit operations, emergency management, transportation planning and others.

Regional Conservation Strategy (RCS) For The Greater Portland Vancouver Metropolitan Area, Intertwine And Metro - Identifies high quality land and riparian areas in the region. The strategy was developed by The Intertwine Alliance, Metro and a broad coalition of conservation organizations to pull together 20 years of conservation planning and create an integrated blueprint for regional conservation. The plan will help government, nonprofit and private organizations work together to care for and restore thousands of acres of natural area land and create habitat for wildlife.

Regional Destinations – Include the following types of places: employment sites with 300 or more employees (includes regional sports and attraction sites such as Oregon Zoo, Oregon Museum of Science and Industry, Providence Park, Moda Center); high ridership bus stop locations; regional shopping centers; major hospitals and medical centers; colleges, universities and public high schools; regional parks; major government centers; social services; airports; and libraries.

Regional Flexible Funds (RFF) – Regional flexible funds come from three federal grant programs: the Surface Transportation Block Grant Program, the Congestion Mitigation/Air Quality Program and the Transportation Alternatives Program. The regional flexible fund allocation process identifies which projects in the Regional Transportation Plan will receive funding. Regional flexible funds are allocated every two years and are included in the Metropolitan Transportation Improvement Program. Unlike funding that flows only to highways or only to transit by a rigid formula, this is money that can be invested in a range of transportation projects or programs as long as federal funding eligibility requirements are met.

Regional Freight Network – Applies the regional freight concept on the ground to identify the transportation networks and freight facilities that serve the region and state's freight mobility needs.

Regional Intelligent Transportation System (ITS) Architecture – A regional framework for ensuring institutional agreement and technical integration for the implementation of ITS projects or groups of projects.

Regional Mobility Policy – The minimum motor vehicle performance desired for transportation facilities designated on the Regional Motor Vehicle Network in Chapter 3. Table 3.6 reflects volume-to-capacity targets adopted in the RTP for facilities designated on the Regional Motor Vehicle Network as well as volume-to-capacity targets adopted in the Oregon Highway Plan for state-owned facilities in the urban growth boundary. In effect, the policy is used to evaluate current and future performance of the motor vehicle network, using the ratio of traffic volume (or forecasted demand) to planned capacity of a given roadway, referred to as the volume-to-capacity ratio (v/c ratio) or level-of-service (LOS. As a system plan, the RTP uses the interim regional policy to diagnose the extent of motor vehicle congestion on throughways and arterials during different times of the day and to determine adequacy in meeting the region's needs. LOS is also used to determine consistency of the RTP with the Oregon Highway Plan for state-owned facilities. JPACT and the Metro Council adopted the policy in 2000, agreeing that building a regional arterial and throughway network to accommodate all motor vehicle traffic during peak travel periods is not practical nor would it be desirable considering potential financial, social equity, environmental and community impacts. The RTP mobility policy can be found in Chapter 2 and Chapter 3 of the RTP.

Regional Trails – Regional Trails are defined by Metro as linear facilities for non-motorized users that are at least 75% off-street and are regionally significant. Bicycle/pedestrian sidewalks on bridges are also included in this definition. The term "non-motorized" is used instead of "multi-use" or "multi-modal" because some Regional Trails are pedestrian-only. Trails must meet two levels of criteria to be considered "regionally significant." The criteria are adopted by the Metro Council in the Regional Trails and Greenways Plan. Regional trails are physically separated from motor vehicle traffic by open space or a barrier. Bicyclists, pedestrians, joggers, skaters and other non-motorized travelers use these facilities.

While all trails serve a transportation function, not all regional trails identified on Metro's Regional Trails and Greenways Map are included in the RTP. The RTP includes regional trails that support both utilitarian and recreational functions. These trails are generally located near or in residential areas or near mixed-use centers and provide access to daily needs. Trails in the RTP are defined as transportation facilities and are part of the regional transportation system. Regional trails in the RTP are eligible to receive federal transportation funds. Trails that use federal transportation funds need to be ADA accessible according to the AASHTO trail design guidelines. There are some pedestrian only trails or trails near sensitive habitat on the RTP network that would most likely not be paved. Regional bicycle connections are planned parallel to pedestrian only regional trails. Colloquially, terms like "bike path" and "multi-use

path" are often used interchangeably with "regional trail," except when referring to pedestrian-only regional trails.

Regional Trails And Greenways Map – A map developed and maintained by Metro. The map was first developed as part of the Metropolitan Greenspaces Master Plan. The map includes the existing and proposed trails and greenways in the regional system. Many of the regional trails are included in the Regional Transportation Plan.

Regional Transit Network – The regional transit system includes light rail, commuter rail, bus rapid transit, enhanced transit, frequent bus, regional bus, and streetcar modes as well as major transit stops.

Regional Transportation Functional Plan (RTFP) – A regional functional plan regulating transportation in the Metro region, as mandated by Metro's Regional Framework Plan. The plan directs local plan implementation of the Regional Transportation Plan.

Regional Transportation Plan (RTP) – A long-range metropolitan transportation plan that is developed and adopted for the greater Portland metropolitan planning area (MPA) covering a planning horizon of at least 20 years. Usually RTPs are updated every five years through the federally-mandated metropolitan transportation planning process. The plan identifies and analyzes transportation needs of the metropolitan region and creates a framework for implementing policies and project priorities. Required by state and federal law, it includes programs to better maintain, operate and expand transportation options to address existing and future transportation needs. The RTP also serves as the regional transportation system plan under the Oregon Transportation Planning Rule.

Regional Transportation System – The regional transportation system is identified on the regional transportation system maps in the Regional Transportation Plan. The system is limited to facilities of regional significance generally including regional arterials and throughways, high capacity transit and regional transit systems, regional multi–use trails with a transportation function, bicycle and pedestrian facilities that are located on or connect directly to other elements of the regional transportation system, air and marine terminals, as well as regional pipeline and rail systems.

Regional Travel Options (RTO) Program – Metro program guided by a five-year strategic plan aimed at reducing the demand for roadway travel, particularly single occupant vehicle travel. More specifically, Metro's RTO program includes:

- a coordinated education and outreach effort to efficiently use public dollars to reach key audiences
- an employer outreach program to save employers and employees money
- a regional Safe Routes to School effort that supports local education programs in schools to teach kids how to walk and bicycle to school safely
- a regional rideshare program that makes carpooling safer and easier and helps people with limited transit access have options to get around
- a grant program that funds partner efforts, such as The Street Trust's Bike Commute Challenge, TriMet's and TMA's work with employers, Ride Connection's RideWise travel training program for seniors and people with disabilities, and Portland Sunday Parkways, to name a few
- funding for bicycle racks, wayfinding signage and other tools that help people to walk and bicycle

• funding for pilot projects to test new ways to reach the public through technology or innovative engagement methods. See also transportation demand management.

Regionally Significant Industrial Area (RSIA) – 2040 land use designation; RSIAs are shown on Metro's 2040 map. Industrial activities and freight movement are prioritized in these areas.

Regionally Significant Project – A transportation project (other than projects that may be grouped in the TIP and/or STIP or exempt projects as defined in EPA's transportation conformity regulations (40 CFR part 93, subpart A)) that is on a facility that serves regional transportation needs (such as access to and from the area outside the region; major activity centers in the region; major planned developments such as new retail malls, sports complexes, or employment centers; or transportation terminals) and would normally be included in the modeling of the metropolitan area's transportation network. Chapter 3 of the RTP defines the regional transportation system.

Reliability – This term refers to consistency or dependability in travel times, as measured from day to day and/or across different times of day. Variability in travel times means travelers must plan extra time for a trip.

Reload Facility – An intermediary facility where freight is reloaded from one land-based mode to another.

Resilience Or Resiliency – This term means the ability to anticipate, prepare for and adapt to changing conditions and withstand, respond to and recover rapidly from disruptions.

Revision – A change to a long-range statewide or metropolitan transportation plan, TIP, or STIP that occurs between scheduled periodic updates. A major revision is an "amendment" while a minor revision is an "administrative modification."

Ride-Hailing Services – Also known as transportation network companies, or TNCs like Uber and Lyft, which use apps to connect passengers with drivers who provide rides in their personal vehicles.

Rideshare – A transportation demand management strategy where two or more people share a trip in a vehicle to a common destination or along a common corridor. Private passenger vehicles are used for carpools, and some vanpools receive public/private support to help commuters. Carpooling and vanpooling provide travel choices for areas underserved by transit or at times when transit service is not available.

Right-Of-Way (ROW) – Land that is publicly-owned, or in which the public has a legal interest, usually in a strip, within which the entire road facility (including travel lanes, medians, sidewalks, shoulders, planting areas, bikeways and utility easements) resides. The right-of-way is usually acquired for or devoted to multi-modal transportation purposes including bicycle, pedestrian, public transportation and vehicular travel.

Road Diet – Road diets are one way to reconfigure limited roadway space in a way that allows for the inclusion of wider sidewalks and separated bicycle facilities such as buffered bicycle lanes, which can provide space for all users to operate safely an in their own "zones." Road diets can have multiple safety and operational benefits for autos, as well as pedestrians and cyclists. On existing roadways,

separated in-roadway facilities may be implemented by narrowing existing travel lanes, removing travel lanes, removing on-street parking or widening the roadway shoulder. If constraints, such as narrow existing right-of-way, prohibit providing optimally desired bicycle facility widths, then interim facility improvements can be used.

Road Users – A motorist, passenger, public transportation operator or user, truck driver, bicyclist, motorcyclist, or pedestrian, including a person with disabilities. (23 USC section 148)

Roadway Connectors – Roads that connect other freight facilities, industrial areas, and 2040 centers to a main roadway route.

RTP ID - This is a unique identification number assigned to a program or project by the MPO (Metro) to organize all transportation projects within the long range Regional Transportation Plan.

Rural Reserves (2040 Design Type) – Large areas outside the urban growth boundary that will remain undeveloped through 2060. These areas are reserved to provide long-term protection for agriculture, forestry or important natural landscape features that limit urban development or help define appropriate natural boundaries for development, including plant, fish and wildlife habitat, steep slopes and floodplains.

Safe Routes To School (SRTS) – A comprehensive engineering/education program focused on youth school travel that aims to create safe, convenient, and fun opportunities for children to walk and roll (bike, scooter, etc.) to and from schools. City or school district based programs incorporate evaluation, education, encouragement, engineering, enforcement, and equity with the goal of increasing walking and rolling to school. Safe Routes to School is a national program that works to nationally, regionally and locally to create safe, healthy, and livable urban, suburban and rural communities. The program works with parents, school districts, local governments, government, police and community partners to make it easy and safe for kids to walk and bike to school. Results are achieved through investments in small capital projects, educations and outreach such as walking school buses.

Safe System Approach – A data-driven, strategic approach to roadway safety that aims to eliminate fatal and severe injury crashes. The approach is based on a foundational understanding of the underlying causes of traffic fatalities and severe injuries (using data) and is based on the principle that errors are inevitable but serious crashes should not be. Transportation safety policies that use a Safe System approach include Vision Zero, Towards Zero Deaths, Road to Zero and Sustainable Safety.

Safe System Approach Speed Setting – Speed limits are set according to the likely crash types, the resulting impact forces, and the human body's ability to withstand these forces. It allows for human errors (that is, accepting humans will make mistakes) and acknowledges that humans are physically vulnerable (that is, physical tolerance to impact is limited). Therefore, in this approach, speed limits are set to minimize death and severe injury as a consequence of a crash.

Safe, Accountable, Flexible, Efficient, Transportation Equity Act: A Legacy For Users (SAFETEA-LU) – Signed into federal law in 2005, SAFETEA-LU authorized the federal surface transportation programs for highways, highway safety, and transit through 2009. SAFETEA-LU refined and reauthorized TEA-21. SAFETEA-LU was subsequently replaced by MAP-21 and the FAST Act.

Safety - Protection from death or bodily injury from a motor-vehicle crash through design, regulation, management, technology and

operation of the transportation system.

Safety Benefit Projects – Projects with design features to increase safety for one or more roadway user. These projects may not necessarily address an identified safety issue at an identified high injury or high risk location, but they do include design treatments known to increase safety and reduce serious crashes. Examples include adding sidewalks, bikeways, medians, center turn lanes and intersection or crossing treatments.

Safety Data – Includes, but is not limited to, crash, roadway, and traffic data on all public roads. For railway- highway grade crossings, safety data also includes the characteristics of highway and train traffic, licensing, and vehicle data.

Safety Project – Has the primary purpose of reducing fatal and severe injury crashes or reducing crashes by addressing a documented safety problem at a documented high injury or high risk location with one or more proven safety countermeasures.

Scenario Planning – An analytical approach and planning process that provides a comprehensive framework for evaluating how various combinations of strategies, policies, plans and/or programs may affect the future of a community, region or state. The approach involves identifying various packages or strategies or scenarios against a baseline projection.

Security (Public And Personal) – Protection from intentional criminal or antisocial acts while engaged in trip making through design, regulation, management, technology and operation of the transportation system.

Serious Crash - Refers to the total number of Fatal and Severe Injury (Injury A) crashes combined.

Severity – A measurement of the degree of seriousness concerning both vehicle impact (damage) and bodily injuries sustained by victims in a traffic crash.

Shared Mobility – Describes services that allow people to share a vehicle, such as ride-hailing trips, car and bike share and microtransit, as well as traditional shared modes like transit, car- or vanpools and taxis. Some of these services are privately operated by shared mobility companies.

Shared Trips – Trips taken by multiple passengers traveling in a single vehicle, including carpools, transit trips and some ride-hailing or car share trips.

Short Trip – Generally defined as a one-way trip less than three miles.

Sidewalk – A walkway separated from the roadway with a curb, constructed of a durable, hard and smooth surface, designed for preferential or exclusive use by pedestrians.

Single–Occupanct Vehicle (SOV) – A private motorized passenger vehicle carrrying one occupant (the driver only). Also referred to as a drive alone vehicle.

Smart Cities - The way in which public agencies are using technology to collect better data, provide better service, do business more

efficiently and make better decisions.

Social Equity – The idea that all members of a societal organization or community should have access to the benefits associated with civil society – the pursuit of an equitable society requires the recognition that there are a number of attributes that give members of a society more or less privilege and that in order to provide equitable situations the impacts of these privileges (or lack thereof) must be addressed. For transportation, equity refers to fair treatment or equal access to transportation services and options. In the context of safety, transportation equity relates to improving the travel choices, the safety of travel and not unfairly impacting one group or mode of transportation. More specifically it means improved safety for all transportation options and lessening the risks or hazards associated with different choices of transportation.

Stakeholders – Individuals and organizations with an interest in or who are affected by a transportation plan, program or project, including federal, state, regional and local officials and jurisdictions, institutions, community groups, transit operators, freight companies, shippers, non–governmental organizations, advocacy groups, residents of the geographic area and people who have traditionally been underrepresented.

State Highways – In Oregon, is a network of roads that are owned and maintained by the Highway Division of the Oregon Department of Transportation (ODOT), including Oregon's portion of the Interstate Highway System.

State Transportation Improvement Program (STIP) – The four-year funding and scheduling document for major street, highway and transit projects in Oregon. The STIP is produced by ODOT, consistent with the Oregon Transportation Plan (the statewide transportation plan) and other statewide plans as well as metropolitan transportation plans and MTIPsThe STIP covers the entire state and is overseen by the Oregon Transportation Commission (OTC). It must include all the metropolitan region's TIPs without change as well as a list of specific projects proposed by ODOT in the non-metropolitan areas. Updated every three years, the STIP determines when and if transportation projects will be funded by the state with state or federal funds.

State Transportation Plan – The official statewide intermodal transportation plan that is developed through the statewide transportation planning process. See also Oregon Transportation Plan.

Station Communities (2040 Design Type) – Areas generally within a 1/4- to 1/2-mile radius of a light rail station or other high capacity transit stops that are planned as multi-modal, mixed-use communities with substantial pedestrian and transit-supportive design characteristics and improvements.

Strategic Plan – Defines the desired direction and outcomes to guide decisions for allocating resources to pursue the strategy.

Strategic Project List – Additional policy-driven transportation needs and priority projects that could be achieved with additional resources.

Strategy – Involves setting goals, determining actions to achieve the goals, and mobilizing resources to execute the actions. A strategy describes how the ends (goals) will be achieved by the means (resources).

Street – A generally gravel or concrete– or asphalt–surfaced facility. The term collectively refers to arterial, collector and local streets that are located in 2040 mixed–use corridors, industrial areas, employment areas and neighborhoods. While the focus for streets has been on motor vehicle traffic, they are designed as multi–modal facilities that accommodate bicycles, pedestrians and transit, with an emphasis on vehicle mobility and special pedestrian infrastructure on transit streets.

Surface Transportation Block Grant (Stbg) – A federal source of funding for projects and activities that is the most flexible in its use. Projects and activities which states and localities can use STBG include: projects that preserve and improve the conditions and performance on any federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure and transit capital projects, including intercity bus terminals.

Sustainability – Using, developing and protecting resources in a manner that enables people to meet current needs and provides that future generations can meet future needs, from the joint perspective of environmental, economic and community objectives. This definition of sustainability is from the 2006 Oregon Transportation Plan and ORS 184.421(4). The 2001 Oregon Sustainability Act and 2007 Oregon Business Plan maintain that these principles of sustainability can stimulate innovation, advance global competitiveness and improve quality of life in communities throughout the state.

Sustainable – A method of using a resource such that the resource is not depleted or permanently damaged.

System Efficiency – Strategies that optimize the use of the existing transportation system, including traffic management, employer-based commute programs, individualized marketing and carsharing.

System Management – A set of strategies for increasing travel flow on existing facilities through improvements such as ramp metering, traffic signal synchronization and access management.

Target – A specific level of performance that is desired to be achieved within a specified time period.

Throughways - Controlled access (on-ramps and off-ramps) freeways and major highways.

Total Amount - The amount of funding programmed as available to the project within the timeframe of the 2015-2018 Metropolitan Transportation Improvement Program.

Toward Zero Deaths – The United States' highway safety vision. The National Strategy on Highway Safety provides a platform of consistency for state agencies, private industry, national organizations and others to develop safety plans that prioritize traffic safety culture and promote the national Toward Zero Deaths vision. As a strategic policy it is similar to Vision Zero.

Traffic – Movement of motorized vehicles, non–motorized vehicles and pedestrians on transportation facilities. Often traffic levels are expressed as the number of units moving over or through a particular location during a specific time period.

Traffic Calming – A transportation system management technique that aims to prevent inappropriate through-traffic and reduce motor vehicle travel speeds on a particular roadway. Traditionally, traffic calming strategies provide speed bumps, curb extensions, planted median strips or rounds and narrowed travel lanes.

Traffic Incident Management – Planned and coordinated processes followed by state and local agencies to detect, respond to, and remove traffic incidents quickly and safely in order to keep highways flowing efficiently.

Traffic Management – Strategies that improve transportation system operations and efficiency, including ramp metering, active traffic management, traffic signal coordination and real-time traveler information regarding traffic conditions, incidents, delays, travel times, alternate routes, weather conditions, construction, or special events.

Traffic Signal Progression – A process by which a number of traffic signals are synchronized to create the efficient progression of vehicles.

Transit Asset Management Plan (TAM) – A plan that includes an inventory of capital assets, a condition assessment of inventoried assets, a decision support tool, and a prioritization of investments.

Transit Asset Management System – A strategic and systematic process of operating, maintaining, and improving public transportation capital assets effectively, throughout the life cycles of those assets.

Transit Oriented Development (TOD)/Metro Transit Oriented Development Program – A mixed-use community or neighborhood designed to encourage transit use, bicycle and pedestrian activity, containing a rich mix of residential, retail, and workplaces in settings designed for bicycle and pedestrian convenience and transit accessibility. Metro began a regional Transit Oriented Development program in 1998 as part of a strategy to leverage the region's significant investment in high capacity transit. As part of Metro's TOD Program, the agency strategically invests to stimulate private development of higher-density, affordable and mixed-use projects near transit to help more people live, work and shop in neighborhoods served by high-quality transit. In addition, the program invests in "urban living infrastructure" like grocery stores and other amenities, provides technical assistance to communities and developers, and acquires and owns properties in transit-served areas and solicits proposals from qualified developers to create transit-oriented communities in these places. To date, the TOD program investments totaling \$16 million have leveraged more than \$697 million in private development activity across 45 completed TOD projects.

Transportation Alternatives Program – The Transportation Alternatives Program (TAP) was authorized under Section 1122 of Moving Ahead for Progress in the 21st Century Act (MAP-21) and is codified at 23 U.S.C. sections 213(b), and 101(a)(29). Section 1122 provides for the reservation of funds apportioned to a State under section 104(b) of title 23 to carry out the TAP. The national total reserved for the TAP is equal to 2% of the total amount authorized from the Highway Account of the Highway Trust Fund for Federal-aid highways each fiscal year. The TAP provides funding for programs and projects defined as transportation alternatives, including on- and off-road pedestrian and bicycle facilities, infrastructure projects for improving non-driver access to public transportation and enhanced mobility, community improvement activities, and environmental mitigation; recreational trail program projects; safe routes to school projects; and projects for planning, designing, or constructing boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways.

Transportation Demand – The quantity of transportation services desired by users of the transportation system.

Transportation Demand Management (TDM) – The application of a set of strategies and programs designed to reduce demand for roadway travel, particularly single occupant vehicle trips, through various means (e.g. education, outreach, marketing, incentives,

technology). The strategies aim to affect when, where and how much people travel in order to make more efficient use of transportation infrastructure and services. Strategies include offering other modes of travel such as walking, bicycling, ride—sharing and vanpool programs, car sharing, alternative work hours, education such as individualized marketing, policies, regulations and other combinations of incentives and disincentives that are intended to reduce drive alone vehicle trips on the transportation network. Metro's TDM program is called the Regional Travel Options (RTO) program. See also Regional Travel Options Program.

Transportation Disadvantaged/Persons Potentially Underserved By The Transportation System – Individuals who have difficulty in obtaining important transportation services because of their age, income, physical or mental disability.

Transportation Equity – The removal of barriers to eliminate transportation-related disparities faced by and improve equitable outcomes for historically marginalized communities, especially communities of color.

Transportation Improvement Program (TIP) – A prioritized listing/program of multimodal transportation projects covering a period of 4 years that is developed and formally adopted by an MPO as part of the metropolitan transportation planning process. The TIP must be consistent with the metropolitan transportation plan, and is required for projects to be eligible for funding under title 23 U.S.C. and title 49 U.S.C. chapter 53. In the Portland metropolitan region, the TIP is referred to as the Metropolitan Transportation Improvement Program (MTIP). In practice, the MTIP is a short-term, four year program of transportation projects that will be funded with federal funds expected to flow to the region and locally and state-funded regionally significant projects.

Transportation Management Associations (TMA) – Non-profit coalitions of local businesses and/or public agencies, and residences such as condo Home Owner Associations all dedicated to reducing traffic congestion and pollution while improving commuting options for employees, residents and visitors.

Transportation Management Area (TMA) – An urbanized area with a population over 200,000, as defined by the U.S. Census Bureau and designated by the Secretary of Transportation, or any additional area where TMA designation is requested by the Governor and the MPO and designated by the Secretary of Transportation. These areas must comply with special transportation planning requirements regarding congestion management process, project selection, processes for develoment of tan RTP and MTIP and certification identified in 23 CFR 450.300-340.

Transportation Needs – Estimates of the movement of people and goods based on current population and employment and future growth consistent with acknowledged comprehensive plans. Needs are typically defined based on an assessment of existing transportation system gaps and deficiencies and projections of future travel demand, from a continuation of current trends as modified by policy objectives expressed in Statewide Planning Goal 12, the Transportation Planning Rule, federal planning factors and the RTP (Chapter 2 and Chapter 3).

Deficiencies are defined as the difference between the current transportation system and adopted standards based on performance measures and targets identified in Chapter 2. Deficiencies are capacity or design constraints that limit but do not prohibit the ability to travel by a given mode. Gaps are defined as missing links in the transportation system for any mode. Gaps either prohibit travel by a particular mode or make it functionally unsafe. Together, gaps and deficiencies are defined as needs.

- Local Transportation Needs means needs for movement of people and goods within communities and portions of counties and the need to provide access to local destinations.
- Regional Transportation Needs means needs for movement of people and goods between and through communities and accessibility to regional destinations within a metropolitan area, county or associated group of counties.
- State Transportation Needs means needs for movement of people and goods between and through regions of the state and between the state and other states.

See also gap and deficiency.

Transportation Performance Management (TPM) – Strategic approach that uses system information to make investment and policy decisions to achieve national performance goals.

Transportation Planning – A continuing, comprehensive, and cooperative (3-C) process to encourage and promote the development of a multimodal transportation system to ensure safe and efficient movement of people and goods while balancing environmental and community needs.

Transportation Planning Rule (TPR) – Oregon's statewide planning goals established state policies in 19 different areas. The TPR implements the Land Conservation and Development Commission's Planning Goal 12 (Transportation) which requires ODOT, MPOs, Counties and Cities, per OAR 660-012-0015 (2) and (3), to prepare a Transportation System Plan (TSP) to identify transportation facilities and services to meet state, regional and local needs, as well as the needs of the transportation disadvantaged and the needs for movement of goods and services to support planned industrial and commercial development, per OAR 660-012-0030(1).

Transportation System – Various transportation modes or facilities (aviation, bicycle and pedestrian, throughway, street, pipeline, transit, rail, water transport) serving as a single unit or system.

Transportation System Management (TSM) – A set of strategies for increasing travel flow on existing facilities through improvements such as ramp metering, traffic signal synchronization, incident response and access management.

Transportation System Management And Operations (TSMO) – Integrated strategies to optimize the performance of existing infrastructure and designed to preserve capacity and improve the safety, and reliability of the transportation system. Strategies include: Actions such as traffic detection, control and surveillance; management of corridors, freeways, arterials, work zones, emergencies, freight and parking; active transportation and demand management; traveler information services; congestion pricing and Coordination of highway, rail, transit, bicycle, and pedestrian operations as well as traffic incident management, intelligent transportation systems, communication networks, and information sharing systems.

Transportation System Plan (TSP) – The transportation element of the comprehensive plan for one or more transportation facilities that is planned, developed, operated and maintained in a coordinated manner to supply continuity of movement between modes, and between geographic and jurisdictional areas. A TSP describes a transportation system and outlines projects, programs, and policies to meet transportation needs now and in the future based on community (and regional) aspirations. A TSP typically serves as the transportation

component of the local comprehensive plan. The TSP supports the development patterns and land uses contained in adopted community and regional plans. The TSP includes a comprehensive analysis and identification of transportation needs associated with adopted land use plans. The TSP complies with Oregon's Transportation Planning Rule, as described in statewide Planning Goal 12. The RTP is a regional TSP.

Local TSPs must be consistent with the applicable Regional Transportation Plan. Jurisdictions within a metropolitan area must adopt TSPs that reflect regional goals, objectives, and investment strategies specific to the area and demonstrate how local transportation system planning helps meet regional performance targets. A jurisdiction within a Metropolitan Planning Organization area must make findings that the proposed Regional Transportation Plan amendment or update is consistent with the local TSP and comprehensive plan or adopt amendments that make the Regional Transportation Plan and the TSP consistent with one another. (OAR 660-012-0016) TSP updates must occur within one year of the adoption of a new or updated Regional Transportation Plan. (OAR 660-012-0055).

Travel Options/Choices – The ability range of travel mode choices available, including motor vehicle, walking, bicycling, riding transit and carpooling. Telecommuting is sometimes considered a travel option because it replaces a commute trip with a trip not taken.

Travel Time – The measure of time that it takes to reach another place in the region from a given point for a given mode of transportation. Stable travel times are a sign of an efficient transportation system that reliably moves people and goods through the region.

Travel Time Reliability – This term refers to consistency or dependability in travel times, as measured from day to day and/or across different times of day. Variability in travel times means travelers must plan extra time for a trip.

Trip – A one–way movement of a person or vehicle between two points. A person who leaves home on one vehicle, transfers to a second vehicle to arrive at a destination, leaves the destination on a third vehicle and has to transfer to yet another vehicle to complete the journey home has made four unlinked passenger trips.

Tripcheck – An Oregon Department of Transportation website that displays real-time data regarding road conditions, weather conditions, camera images, delays due to congestion and construction, and other advisories. Additionally, TripCheck provides travelers with information about travel services such as food, lodging, attractions, public transportation options, scenic byways, weather forecasts, etc. This information is also available through the 511 travel information phone line.

Truck Terminal – A facility that serves as a primary gateway for commodities entering or leaving the metropolitan area by road.

Underserved Communities – Populations that have historically experienced a lack of consideration in the planning and decision making process. It describes historically marginalized communities in addition to those that are defined in the federal definition of Environmental Justice. These populations are seniors, persons with disabilities, youth, communities of color, low-income communities, and any other population of people whose needs may not have been full met in the planning process.

Unified Planning Work Program (UPWP) – This refers to annual statement of work identifying the planning priorities and activities to be carried out within a metropolitan planning area. At a minimum, a UPWP includes a description of the planning work and resulting products, who will perform the work, time frames for completing the work, the cost of the work, and the source(s) of funds.

United States Department Of Transportation (USDOT) – The federal cabinet-level agency with responsibility for highways, mass transit, aviation and ports; it is headed by the Secretary of Transportation. The DOT includes the Federal Highway Administration and the Federal Transit Administration, among others.

Universal Access – Universal access is the goal of enabling all citizens to reach every destination served by their public street and pathway system. Universal access is not limited to access by persons using automobiles. Travel by bicycle, walking, or wheelchair to every destination is accommodated in order to achieve transportation equity, maximize independence, and improve community livability. Wherever possible, facilities are designed to allow safe travel by youth, seniors, and people with disabilities who may have diminished perceptual or ambulatory abilities. By using design to maximize the percentage of the population who can travel independently, it becomes much more affordable for society to provide paratransit services to the remainder with special needs.

Update – For federal purposes, this means making current a long-range statewide transportation plan, metropolitan transportation plan, TIP, or STIP through a comprehensive review. Updates require public review and comment, a 20-year horizon for metropolitan transportation plans and long-range statewide transportation plans, a 4-year program period for TIPs and STIPs, demonstration of fiscal constraint (except for long-range statewide transportation plans), and a conformity determination (for metropolitan transportation plans and TIPs in nonattainment and maintenance areas). For state purposes, this means TSP amendments that change the planning horizon and apply broadly to a city or county and typically entails changes that need to be considered in the context of the entire TSP, or a substantial geographic area.

Urban Growth Boundary (UGB) – The politically defined boundary around an urban area beyond which no urban improvements may occur. In Oregon, UGBs are defined so as to accommodate projected population and employment growth within a 20–year planning horizon. A formal process has been established for periodically reviewing and updating the UGB so that it meets forecasted population and employment growth.

Urbanized Area (UZA) – A geographic area with a population of 50,000 or more, as designated by the Bureau of the Census.

Urban Reserve – An area outside of the urban growth boundary designated for future growth by the Metro Council pursuant to OAR 660 Division 27.

Value Pricing – A demand management strategy that involves the application of market pricing (through variable tolls, variable priced lanes, area-wide charges or cordon charges) to the use of roadways at different times of day. Also called congestion pricing or peak period pricing.

Vehicle – Any device in, upon or by which any person or property is or may be transported or drawn upon a public highway and includes vehicles that are propelled or powered by any means.

Vehicle Miles Traveled (VMT) – A common measure of roadway use by multiplying miles traveled per vehicle by the total number of vehicles for a specified time period. For purposes of this definition, "vehicles" include automobiles, light trucks and other passenger vehicles used for the movement of people. The definition does not include buses, heavy trucks and other vehicles that involve commercial movement of goods.

Vision – In this document, an aspirational statement of what the region (and plan) is trying to achieve over the long-term through policy and investment decisions.

Vision Zero – A system and approach to public policy developed by the Swedish government which stresses safe interaction between road, vehicle and users. Highlighted elements include a moral imperative to preserve life, and that the system conditions and vehicle be adapted to match the capabilities of the people that use them. Vision Zero employs the Safe System approach.

Visualization Techniques – Methods used by States and MPOs in the development of transportation plans and programs with the public, elected and appointed officials, and other stakeholders in a clear and easily accessible format such as GIS- or web-based surveys, inventories, maps, pictures, and/or displays identifying features such as roadway rights of way, transit, intermodal, and non-motorized transportation facilities, historic and cultural resources, natural resources, and environmentally sensitive areas, to promote improved understanding of existing or proposed transportation plans and programs.

Volume–To–Capacity (V/C) Ratio – A traditional measure of congestion, calculated by by dividing the number of motor vehicles passing through a section of roadway during a specific increment of time by the motor vehicle capacity of the section. For example, a V/C ratio of 1.00 indicates the roadway facility is operating at its capacity.

Also referred to as level-of-service, this ratio has been used in transportation system planning, project development and design as well as in operational analyses and traffic analysis conducted during the development review process. As a system plan, the RTP uses the volume-to-capacity ratio targets to diagnose the extent of motor vehicle congestion on throughways and arterials during different times of the day and to determine adequacy in meeting the region's needs. The v/c ratio targets are also used to determine consistency of the RTP with the Oregon Highway Plan for state-owned facilities. See also level-of-service and regional mobility policy.

Vulnerable Users – In this document, refers to groups of people that are more vulnerable to being killed or severely injured in traffic crashes. Vulnerable users are people that are more vulnerable to being killed or seriously injured in crashes. Vulnerable users are pedestrians, bicyclists, motorcycle operators, children, older adults, road construction workers, people with disabilities, people of color and people with low income.

Walkable Neighborhood – A place where people live within walking distance to most places they want to visit, whether it is school, work, a grocery store, a park, church, etc.

Walk Score – An online tool that produces a number between 0 and 100 that measures the walkability of any address. Similar tools for transit and bicycling - Transit Score and Bike Score.

Walkway – A hard-surfaced transportation facility designed and suitable for use by pedestrians, including persons using wheelchairs. Walkways include sidewalks, hard-surfaced portions of accessways, regional trails, paths and paved shoulders.

Wayfinding – Signs, maps, street markings, and other graphic or audible methods used to convey location and directions to travelers. Wayfinding helps people traveling to orient themselves and reach destinations easily.

Year - The programming year is the federal fiscal year funds are expected to be available for the project. The federal fiscal year begins October 1st of the year prior to the identified year (FFY 2021 is October 1, 2020 through September 30, 2021).

Year of Expenditure (YOE) - All funds programmed in the 2021-2024 MTIP are represented in year of expenditure (YOE) dollars