



**Washington State
Department of Transportation**

A light teal map of Washington state is positioned in the center of the page, overlapping the dark teal background. The map has a torn-paper edge effect. The title text is overlaid on the right side of the map.

**STATE PLANNING
& RESEARCH
WORK PROGRAM**

2023-2025 Biennium

June 2023

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360-705-7956، أو مراسلتنا عبر البريد الإلكتروني mpdsprreporting@wsdot.wa.gov

SPR Funding & Reporting

In alignment with the Washington State Department of Transportation (WSDOT) mission and the United States Department of Transportation's (USDOT) overarching goals, the Multimodal Planning and Data Division (MPDD) develops the 2023-2025 State Planning and Research (SPR) Work Program. Our aim is to support a safe, sustainable, integrated, and seamlessly interconnected multimodal transportation system that enriches communities and bolsters economic vitality. This SPR for the 2023-2025 biennium diligently adheres to federal requirements, encompassing a comprehensive, cooperative, and continuing planning process that effectively addresses the evolving needs of all Washington state communities while ensuring ongoing eligibility for receiving and utilizing federal transportation funds.

To empower states with flexibility in fund allocation, the federal funding framework operates under the principle of "maximum flexibility," and these funds are distributed under the authority of the state legislature.

At WSDOT, we have established the following strategic goals: Diversity, Equity, Inclusion; Resilience and Workforce Development. These cornerstones of our work enable us to represent and embrace the diversity of the communities we serve, act as responsible stewards of public resources, and cultivate a sustainable and dependable workforce capable of delivering projects and services that cater to customer needs.

We believe that transportation decisions built upon transparent, collaborative and performance-based foundations engender livable communities and invigorate economic prosperity. The work activities outlined within this SPR exemplify our commitment to informed decision-making by leveraging expertise and innovation in planning, policy formulation, data collection and analysis and research services. By supporting the development of a sustainable and integrated statewide multimodal transportation system, we equip decision-makers with the necessary tools to make sound, data-driven choices. This ensures that Washington travelers benefit from a safe, sustainable and seamlessly interconnected multimodal transportation system.

Federal Requirements and Emphasis Areas

The SPR Work Program is required by 23 CFR Part 420 to implement the Federal Requirements in Title 23 USC as well as the [2021 Planning Emphasis Areas for use in the development of Metropolitan and Statewide Planning and Research Work programs.](#)

Purpose of the Work Program

The SPR serves a vital purpose in detailing the responsible allocation of federal transportation funds by the Washington State Department of Transportation (WSDOT), as it implements the planning and research requirements outlined in Title 23 USC Part 420.

WSDOT's approach to the SPR Work Program demonstrates a commitment to position this work program as the principal framework for planning, data and research activities funded by both state and federal planning and research funding. Progress on the deliverables within each subarea is reported annually to the USDOT, ensuring transparency and accountability.

This approach supports the required federal statewide planning framework while aligning with the transportation policy goals set forth by the state legislature. Recognizing the equal importance of both sets of objectives, the program places a strong emphasis on striking a balance between overarching policies for safety and asset preservation and the imperative to formulate strategies that effectively address current and future system performance needs. By adopting such an approach, WSDOT safeguards its ongoing eligibility to receive and utilize federal transportation funds. Furthermore, the program remains adaptable to emerging needs, as it evaluates and prioritizes them against the existing program, making necessary adjustments when warranted.

When viewed holistically, the WSDOT 2023-2025 Work Program recognizes the multimodal nature of the state's transportation system and its intricate interconnections with Washington's economy, environment and politics. It also recognizes that these dynamics are intrinsically linked to the physical development and social fabric of our communities, necessitating comprehensive and integrated planning efforts.

Table of Contents

PART 1: PLANNING	8
AREA 1: System Performance and Analysis	8
<i>SUBAREA 1.1 - Performance and Accountability Analysis</i>	8
AREA 2: Transportation Data, Analysis and Stewardship	19
<i>SUBAREA 2.1 - Travel Data Collection, Processing, Analysis and Reporting</i>	19
<i>SUBAREA 2.2 - Crash Data Collection, Analysis and Reporting</i>	22
<i>SUBAREA 2.3 - Enterprise GIS Services and Roadway Data Collection, Analysis, and Reporting</i>	26
<i>SUBAREA 2.4 - Annual Federal Reporting of Vehicle and Financial Statistics</i>	29
<i>SUBAREA 2.5 - Information Technology Development and Support</i>	33
AREA 3: Statewide Multimodal Planning	37
<i>SUBAREA 3.1 - Statewide Long-range Transportation Planning & Implementation</i>	37
<i>SUBAREA 3.2 - Cooperative Automated Transportation (CAT) Program</i>	39
<i>SUBAREA 3.3 - Active Transportation Planning and Policy Development</i>	42
<i>SUBAREA 3.4 - Rail, Freight and Ports</i>	44
<i>SUBAREA 3.5 - Washington State Ferries Transportation Planning</i>	47
AREA 4: Metropolitan and Regional Planning	50
<i>SUBAREA 4.1 - MPO/RTPO Program Stewardship and Coordination</i>	50
AREA 5: Local, Network and Corridor Planning	56
<i>SUBAREA 5.1 – Land Use and Transportation Planning Integration</i>	56
<i>SUBAREA 5.2 - Transportation Planning Studies</i>	60
<i>SUBAREA 5.3 - WSDOT Regional Planning</i>	63
AREA 6: Economic and Financial Planning	74
<i>SUBAREA 6.1 - Financial Planning</i>	74
<i>SUBAREA 6.2 - Economic Forecasting and Analysis</i>	76
AREA 7: Statewide Transportation Improvement Program (STIP)	79
<i>SUBAREA 7.1 - WSDOT's Local Programs Division</i>	79
AREA 8: Management and Administration	82
<i>SUBAREA 8.1 - Program Management</i>	82
<i>SUBAREA 8.2 - Program Administration & Communications</i>	84
<i>SUBAREA 8.3 - Downtown Seattle Office Lease and Administrative Support</i>	90
PART 2: RESEARCH	92
<i>SUBAREA 1A - Program & Research Management</i>	94
<i>SUBAREA 1B - Library Services</i>	96
<i>SUBAREA 2 - Research Projects</i>	98

<i>SUBAREA 3 – SHRP2, EDC, State Transportation</i>	107
<i>SUBAREA 4A - Transportation Pooled Fund (TPF) Projects</i>	110
<i>SUBAREA 4B - Pooled Fund Details</i>	113
<i>SUBAREA 5 - National Research Programs</i>	117
Appendix A: MPDD Organizational Chart	118
Appendix B: Revenue Summary	119
Appendix C: Summary of Percentage Calculations	120
Appendix D: Acronyms	121

PART 1: PLANNING

AREA 1: System Performance and Analysis

AREA DESCRIPTION

Area 1 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 1.1: Performance and Accountability Analysis

Subarea 1.2: Travel Demand and Economic Modeling and Analysis

SUBAREA 1.1 - Performance and Accountability Analysis

SUBAREA DESCRIPTION

Lead Washington State Department of Transportation (WSDOT) performance and accountability to advance rigorous data analysis and evaluation that enables and informs performance-based decision making. Support WSDOT's strategic direction to improve equitable, sustainable multimodal transportation performance. Build credibility and promote transparency through effective collaboration and consultant services. Provide quality information, performance and strategic management expertise and guidance to help others align their work with the agency's strategic plan, mitigate risk and maximize return on investment.

FEDERAL MANDATES

[23 USC Sec 119](#)

[23 USC Sec 167](#)

[23 USC Sec 135](#)

[23 USC Sec 148](#)

OBJECTIVES

- Analysis & Evaluation - Evaluate WSDOT's performance to increase credibility and transparency, reduce risks, enhance quality and foster achievement of the agency's strategic plan.
- Engagement - Provide an environment that fosters positive partnerships, working together with a common vision for achieving the agency strategic goals.
- Leadership - Lead through proactive and systematic execution of products and services that align with agency strategic goals.
- Performance - Champion performance excellence through strategic business planning, organizational alignment and workforce development.
- Administration - Integrate performance with innovation and excellence to ensure programs run efficiently while balancing agency compliance.

CONTACT

Name	Phone Number	Work Unit
Sreenath Gangula	360-705-6888	Transportation Safety & System Analysis

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$2,126,240	\$0	\$0
State	\$531,560	\$0	\$0
Local	•	\$0	\$0
Total	\$2,657,800	\$0	\$0
FTE Count	9.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	August 2023 August 2024 October 2023 October 2024	<p>Transportation Performance Management (TPM, formerly MAP-21) Engagement - Coordination and Collaboration: Collaborate with internal partners (WSDOT program leads), Metropolitan Planning Organizations (MPOs) and the Federal Highway Administration (FHWA) to set, review, adjust and meet federal TPM requirements for safety (PM1), pavement/bridge performance targets (PM2), and system performance/ freight/Congestion Mitigation and Air Quality (CMAQ) performance targets (PM3).</p> <p>Deliverables and products associated with this work include annual target setting, updating, and finalizing for PM1 - August 2023 and August 2024; biennial target setting, updating and finalizing for PM2 and PM3 – October 2023 and October 2024; reports, timelines, and collaboration with region coordinators, MPO technical teams and policy makers.</p>
2	June 2025	<p>TPM Performance – Communication: Collaborate with WSDOT program leads to develop and present formal target setting recommendations to WSDOT executives. Submit federal reports.</p>

Number	Estimated Delivery	Deliverable Description
3	June 2025	<p>System Performance Analysis – Workflows: Develop and refine workflows to structure work, manage integration and interactions between performance and accountability systems and events, support team development, enforce policy and facilitate decision making.</p> <p>Deliverables and products associated with this work include templates for MAP-21, Gray Notebook (GNB) kick-off meetings, GNB design and layout in InDesign and Illustrator, Gray Notebook Dashboard and Multimodal Mobility Dashboard (MMD) workflow. Process improvements mean potential updates to templates, thus their ongoing nature. For example, we may create templates necessary for MAP-21 performance rules; these templates become tools for our stakeholders.</p>
4	June 2025	<p>Performance - Continuous Refinement: Update dashboards to inform WSDOT's performance story. Continuously refine live dashboards to provide performance metrics that accurately reflect progress toward current agency priorities. Strategic Plan, COVID -19, Travel Volume and Speed Trends Dashboard and MMD ongoing/GNB 12/23 (then ongoing).</p>
5	December 2023 December 2024	<p>System Performance Analysis – Roles: Define roles and responsibilities in producing multimodal transportation system performance analysis, ensuring accountability. Internal deliverables and products associated with this work include performance evaluations (PMPs), classified position description (CPD) updates and agreements. PMPs are conducted as scheduled, and CPDs are updated as needed basis Dec 2023 and Dec 2024. External deliverables include consultations and collaborations with partners. An example of this is ongoing coordination between the TSSA and Capital Program Development and Management (CPDM) division to support the agency's asset management.</p>
6	June 2025	<p>Strategic Planning and Policy – Consultation: Provide robust performance consultant services to WSDOT executives, senior managers, divisions, regions and program staff, partners and stakeholders to eliminate silos, align programs and projects to support decision making.</p>

Number	Estimated Delivery	Deliverable Description
7	August 2023 August 2024	Strategic Alignment – Partnerships: Represent WSDOT in partnerships with USDOT, FHWA, the Institute of Transportation Engineers (ITE), the Transportation Research Board (TRB), the American Association of State Highway and Transportation Officials (AASHTO), the National Cooperative Highway Research Program (NCHRP), universities, colleges, university transportation centers and/or others. Deliverables and products associated with this work include TRB, AASHTO and NCHRP panel committee work; collaboration/consultant services to determine targets for MAP-21; and assistance provided to partners in support of their deliverables – these activities take place annually in August 2023 and August 2024.
8	June 2025	Compliance: Comply with financial constraints and practices for federal State Planning and Research (SPR) funds.
9	June 2025	Strategic Alignment - Deliver Requirements: Provide tactical guidance, agencywide strategic direction and policy recommendations for performance and accountability analysis by facilitating processes that lead to strategically aligned state and federal performance measures.
10	June 2025	Systems Alignment: Strategically align reporting systems and set performance expectations that demonstrate a return on investment and support decision making.
11	June 2025	Performance, Analysis & Evaluation – Data: Inspect, cleanse, transform, and model data to support decision making. Ascertain availability and reliability of data, compile data and conduct data analysis for dashboards and publications.
12	June 2025	Performance Communication – Publications: Prepare, publish, and tell the state's multimodal transportation system performance story. Conduct and communicate analysis of multimodal systems and program performance. Employ qualitative and quantitative techniques and visual representations to enhance understanding of data. GNB 8 Quarterly (published August & November 2023, February, May, August and November 2024, February, May 2025)/MMD 2 Annual (Summer of 2023 and 2024)/Attainment Report - October 2024, others are ongoing.

Number	Estimated Delivery	Deliverable Description
13	June 2024	Performance Dashboard - Technical Development: Develop multimodal transportation system performance dashboard prototypes. Travel Volume and Speed Trends Dashboard in pilot stage of development, testing and continuous improvement and GNB report will be submitted.
14	June 2025	Pandemic Dashboard – Development and Maintenance: Support development and maintenance of COVID-19 Multimodal Transportation System Performance Dashboard.
15	June 2025	Proprietary Enterprise Software - System Development: Continue TRACFLOW development to integrate enterprise mobility analysis software to enable/streamline travel time data for WSDOT’s systems analysis and TPM System Performance rule.
16	June 2025	Proprietary Enterprise Software - System Maintenance: Maintain TRACFLOW software to leverage statewide traffic-flow data and evaluate performance to better analyze the transportation system, including ongoing development work to meet evolving agency needs.
17	June 2024	Transit Data Processing – Streamline: Develop multimodal capacity methods to streamline transit data processing and performance evaluation.
18	June 2025	System Performance - Conduct Analysis: Using TRACFLOW, conduct travel data analysis and performance calculations to identify capacity deficiencies within the roadway network, support multimodal mobility reporting, before and after project analysis and other reports.
19	June 2025	System Performance Analysis - Story Maps: Update performance story maps using ArcGIS online as necessary. Investigate Tableau capabilities to streamline this task.
20	June 2025	<p>System Performance Analysis - Sounding Board: Lead Multimodal Systems Analysis Working Group to facilitate gathering essential feedback for multimodal analysis.</p> <p>Deliverable and product associated with this work is feedback (specific to mobility). Work includes leading a working group, consulting with individuals as needed to produce the agency's multimodal mobility analysis.</p>

Number	Estimated Delivery	Deliverable Description
21	June 2025	<p>Strategic Alignment – Budget: Work with agency budget staff to ensure the strategic plan, performance and risk inform the budget and support resiliency and flexible, adaptable investment strategies. The ultimate product and deliverable are WSDOT's budget (the agency's budget calendar dictates the timing of this deliverable). TSSA incorporates a systems thinking approach, providing consultant services, getting executive buy in and constant ongoing efforts to align budget with performance, risk, strategic and knowledge management. The deliverable is a better-quality budget that has been created through better decisions that incorporate the strategic plan, performance, and risk. Our consultation is intended to ensure that the risks associated with funding decisions are fully considered.</p>
22	June 2025	<p>Strategic Alignment - Governor's Office: Facilitate WSDOT's involvement with new and upcoming outcome measures and leading indicators under development with the Results WA team and the Attainment Report.</p> <p>Products and deliverables associated with this work include the Governor's Results Washington Public Performance Reviews. TSSA is a liaison between the Results Washington team and WSDOT, particularly our Deputy Secretary's office and WSDOT's subject matter experts. Results Washington effectiveness is reported through Public Performance Reviews. We will lend our expertise in developing outcome measures and selecting leading indicators. WSDOT plays a supporting role in all five of the Governor's Results Washington goals.</p>
23	October 2024	<p>Engagement - Governor's Office: Provide applicable WSDOT-related performance data to inform the Governor's Results Washington dashboards. Support development of biennial Attainment Report.</p>
24	June 2025	<p>Workforce Development, Education & Training, and Engagement: Employ processes, tools and techniques to manage the people side of change to support and achieve the agency's strategic plan goals.</p> <p>Deliverables and products associated with this work include managing the agency's Change Management Community of Practice, providing tools and resources to improve the outcome of change efforts at WSDOT. We currently maintain a SharePoint site and are considering adding a Teams channel, training curriculum and other tools.</p>

Number	Estimated Delivery	Deliverable Description
25	June 2025	<p>Address Justice, Equity, Diversity and Inclusion: Support the agency's Inclusion goal by participating in Diversity Advisory Groups (DAG) and other activities. Report agency progress toward Inclusion goal.</p> <p>Deliverables and products associated with this work include a division DAG, participation in the Headquarters (HQ) DAG, and assisting with theme development, planning, and promoting diversity events, monthly meetings and special events.</p>
26	June 2025	<p>Emerging Initiatives: Support emerging initiatives, provide expertise and connect people and processes by strategically aligning efforts through performance and accountability.</p> <p>Deliverables and products associated with this work include weekly, monthly or quarterly meetings for Open Data, Multimodal Technical Forum (MMTF), TSMO, Performance Framework, Asset Management, Highway System Plan and Data Governance. We also review and provide input on executive orders on request, such as the Practical Solutions Executive Order (EO), the Anti-Racism and Equity EO.</p>

AREA 1: System Performance and Analysis

AREA DESCRIPTION

Area 1 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 1.1: Performance and Accountability Analysis

Subarea 1.2: Travel Demand and Economic Modeling and Analysis

SUBAREA 1.2 - Travel Demand and Economic Modeling and Analysis

SUBAREA DESCRIPTION

Macro, meso, and micro simulation models are developed to forecast travel demand and conduct traffic operational analysis for various Washington State Department of Transportation (WSDOT) projects and plans. Expertise is provided for scoping, cost estimation, review of consultant's models, analyses and preparing reports. Under economic impact modeling, benefit cost analysis and regional economic analysis are carried out for WSDOT projects and plans using Regional Economic Model, Inc. (REMI) software. Vehicle emission models are developed for analyzing conceptual scenarios for various plans that investigate interactions between transportation, land use, economic activities and demography. In addition, travel data is analyzed to develop performance measures for state highway segments and the system as a whole.

FEDERAL MANDATES

[23 USC Sec 135](#)

[49 USC Sec 5301](#)

[23 CFR 450.208](#)

[23 USC Sec 150](#)

[23 CFR 450.206](#)

OBJECTIVES

- Meet the requirements for WSDOT to adopt a performance-based approach to transportation.
- The key objective is to support WSDOT's Practical Solutions approach and the federal government's performance-based planning needs by the following:
 - Develop and maintain data aggregation and analysis tools for statewide system performance measurement.
 - Provide travel demand modeling and expertise to WSDOT's projects and regions.
 - Analyze emission data, lead special transportation studies, and manage consultant contracts for special projects including various types of modeling.
 - Provide project cost estimation tool and develop models for assessing broader economic impacts of transportation projects and policies.
 - Provide guidance in the application of current modeling techniques required by transportation planning, corridor planning, engineering, and performance measurement activities.

- Travel demand and economic modeling helps WSDOT make decisions among competing projects during the planning stage by analyzing future operational characteristics.

CONTACT

Name	Phone Number	Work Unit
Natarajan Janarthanan	206-390-3922	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	•	\$0	\$0
State	\$1,337,500	\$0	\$0
Local	•	\$0	\$0
Total	\$1,337,500	\$0	\$0
FTE Count	3.75	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Maintain access to travel demand modeling and traffic operational simulation software for WSDOT projects and regions. This includes paying annual software maintenance costs to the vendors. The product is providing access to WSDOT and its region staff to various travel demand modeling software (current versions).
2	June 2025	Serve on committees focused on regional land use and federal transportation-related research. Memberships on regional council committees and Census Transportation Planning Products (CTPP) Oversight Board under American Association of State Highway and Transportation Officials (AASHTO).
3	June 2025	Provide project oversight and assist educational institutions and consultants in writing reports for executive management. Examples: Working with University of Washington (UW) on state or federal funded studies.

Number	Estimated Delivery	Deliverable Description
4	June 2025	<p>Perform travel demand modeling, dynamic traffic assignment and traffic operational simulation modeling for traffic forecasting, engineering analyses, corridor studies and toll projects.</p> <p>The product will be providing expertise and help on modeling projects in the state. It may be as simple as providing feedback on modeling contracts and estimates or as complicated as doing hands on projects and reviewing products from consultants.</p> <p>Typical number of projects vary between 1 to 5.</p>
5	June 2025	<p>Assess statewide, regional, and corridor level operational performance.</p> <p>Deliverables:</p> <ul style="list-style-type: none"> ● Review data and documents for the Multimodal Mobility Report (MMR) each year. ● Coordinate with Office of Information Technology (OIT); Freight Office; and Transportation Data, GIS, and Modeling Group (TDGMG) to update the Freight and Goods Transportation System (FGTS) segments; extract statewide freight data by corridor; and develop performance measures for publishing biennial FGTS report.
6	June 2025	<p>Manage research, studies and projects funded by the Transportation Research Board and Federal Highway Administration (FHWA).</p> <p>Examples include the National Cooperative Highway Research Program (NCHRP) project panels and the Transportation Research Board's (TRB) standing committee memberships.</p>
7	June 2025	<p>Maintain an in-house planning-level cost estimation (PLCE) tool for planning and project support. This tool provides planning-level cost estimates for projects and conceptual alternatives for corridor studies, as well as benefit-cost analyses to assist in selecting projects and/or alternatives that provide the most significant improvements to the transportation network relative to cost.</p> <p>The products of this effort include update of the tool and associated data and manual, training staff from other divisions on the use of the PLCE tool and help with application of PLCE tool for transportation projects.</p>

Number	Estimated Delivery	Deliverable Description
8	June 2025	<p>Model short-term and long-term operational and economic effects of proposed transportation projects and policies.</p> <p>Products will include helping economic modeling using REMI for WSDOT projects. The number of projects varies based on the need.</p>
9	June 2025	<p>Develop VisionEval models and analyze data for conceptual scenarios for the Highway System Plan Update.</p> <p>Product will be Application of VisionEval for Highway System Plan (HSP) and carrying out evaluation of various scenarios.</p>
10	June 2025	<p>Travel demand modeling – macro, meso and micro simulation for WSDOT projects and plans and provide expertise to consultants working on WSDOT projects.</p>
11	June 2025	<p>Economic impact modeling and benefit cost analyses for WSDOT project and plans.</p>
12	June 2025	<p>Assist in the development of the HSP.</p>

AREA 2: Transportation Data, Analysis and Stewardship

AREA DESCRIPTION

Area 2 contains descriptions, mandates, objectives, revenue, and deliverables related to the following subareas:

Subarea 2.1: Travel Data Collection, Processing, Analysis and Reporting

Subarea 2.2: Crash Data Collection, Analysis and Reporting

Subarea 2.3: Enterprise GIS Services and Roadway Data Collection, Analysis and Reporting

Subarea 2.4: Annual Federal Reporting of Vehicle and Financial

Subarea 2.5: Information Technology Development and Support

SUBAREA 2.1 - Travel Data Collection, Processing, Analysis and Reporting

SUBAREA DESCRIPTION

This SPR subarea focuses on meeting state and federal planning requirements by collecting, maintaining, analyzing and reporting motorized vehicle usage data for the state's highway system. Additionally, it includes information about collecting bicycle and pedestrian usage data for roads and trails across the state, as well as capturing and maintaining video imagery of the state highway system. These efforts encompass comprehensive data collection and analysis to inform transportation planning, enhance multimodal accessibility and support evidence-based decision-making.

FEDERAL MANDATES

[23 USC Sec 109](#)

[23 USC Sec 135](#)

[23 USC Sec 119](#)

[23 USC Sec 148](#)

OBJECTIVES

- Acquire, deploy and maintain traffic counting hardware and equipment for short-duration counts and permanent installations in order to capture system usage data such as vehicle volumes, speeds and weights.
- Collect travel data using short-duration and permanently installed counters consistent with federal reporting requirements and state planning needs. Collect bicycle and pedestrian usage data using automated counters on roadways and trails within the state. Process travel data and apply temporal and axle-correction factors as appropriate to create reliable annual roadway usage statistics.
- Design and steward internal and external data reporting systems, as well as data transformation and analysis tools, to meet the travel data needs of the public, the department and other state agencies.
- Calculate interim liquidated damages for construction or maintenance projects that will close lanes, close shoulders or interrupt Intelligent Transportation System (ITS) equipment.

- Collect 360-degree imagery of the state highway system, providing this imagery through an interface that associates it with the department’s roadway geometry and feature data. This tool has many uses, such as allowing engineering staff to do preliminary site assessments from their desks.

CONTACT

Name	Phone Number	Work Unit
Natarajan Janarthanan	206-390-3922	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	•	\$0	\$0
State	\$8,845,900	\$0	\$0
Local	•	\$0	\$0
Total	\$8,845,900	\$0	\$0
FTE Count	31.55	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Collect, process, analyze and report short-duration vehicle volume, classification and turning movement data in a manner and extent consistent with federal requirements and departmental needs. Examples of uses include annual federal data submittals for the Highway Performance Monitoring System (HPMS) and bridge & tunnel programs. Various data extractions are available through the department's business intelligence software and interactive public-facing tools. The number of short-duration counts required to comply with federal reporting guidelines is roughly 1,500 per year.
2	June 2025	Calculate interim liquidated damages for construction projects as needed for departmental contracts. The number of projects supported through this task varies by year, but on average is 95 per year.

Number	Estimated Delivery	Deliverable Description
3	June 2025	Collect, process, analyze and report vehicle volume, speed and classification data from more than 170 permanent traffic recorders (and weight data from a small subset of these) in a manner and an extent consistent with federal requirements and departmental needs. Examples of uses include annual federal data submittals for HPMS, the bridge & tunnel programs, etc. Various data extractions are available through the department's business intelligence software.
4	June 2025	Collect imagery for the entirety of the mainline, spur, couplet, alternate route and reversible lane portions of the state highway system. This imagery is made available through the State Route Viewer (SR View) application. Typically, half of the state route system is filmed each year. The total center lane miles that will be filmed in a year will range between 3,200 to 3,800 miles.

AREA 2: Transportation Data, Analysis, and Stewardship

AREA DESCRIPTION

Area 2 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 2.1: Travel Data Collection, Processing, Analysis and Reporting

Subarea 2.2: Crash Data Collection, Analysis and Reporting

Subarea 2.3: Enterprise GIS Services and Roadway Data Collection, Analysis and Reporting

Subarea 2.4: Annual Federal Reporting of Vehicle and Financial Statistics

Subarea 2.5: Information Technology Development and Support

SUBAREA 2.2 - Crash Data Collection, Analysis and Reporting

SUBAREA DESCRIPTION

As the authoritative source of crash data for Washington state, the Washington State Department of Transportation (WSDOT) ensures the timely and accurate collection, analysis and dissemination of crash data which includes incidents involving vehicles, pedestrians and bicyclists. This data supports numerous efforts such as the Highway Safety Improvement Program (HSIP), and the Strategic Highway Safety Plan (Target Zero), and Complete Streets. This data is essential for federal, state and local planning as well as research efforts along with identifying safety improvements to decrease fatalities and serious injuries on all Washington public roadways. This data is also used to ensure the safe movement of people and freight throughout our state and fosters livable communities and economic vitality.

FEDERAL MANDATES

[23 USC Sec 148](#)

[23 USC Sec 407](#)

OBJECTIVES

Provide timely, accurate and complete crash data within 90 days of the date of the crash to federal and state agencies, state and local traffic engineers and others who have filed public disclosure requests. These requests may come from the public, media, legislature, research institutions and others within the boundaries of RCW 42.56. All data is afforded protection under 23 USC Sections 148 and 407.

Provide expert level stewardship, support and management of Washington State Department of Transportation's WSDOT's Crash Data Mart and Crash Data Portals both public and restricted. Provide technical support and training to WSDOT planners, engineers and MPO/RPTO representatives and other federal and state safety partners. Participate on the multi-agency initiative to replace the Statewide Electronic Crash and Ticketing Online Records (SECTOR) application used by law enforcement to submit crash reports and tickets electronically. Explore new methods to obtain vulnerable road user data to supplement the crash data such as Washington health records and the use of video analytics to identify near misses at an intersection or corridor.

CONTACT

Name	Phone Number	Work Unit
Warren Stanley	360-570-2497	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$2,546,000	\$0	\$0
State	\$636,500	\$0	\$0
Local	•	\$0	\$0
Total	\$3,232,500	\$0	\$0
FTE Count	14.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Explore the possibility of utilizing video analytics to capture "near miss" information to supplement the crash data for vulnerable road users to support the state's Complete Streets initiative.
2	June 2025	Provide monthly crash data feeds of all reportable crashes on Washington public roadways along with technical support to the Department of Social and Health Services for their Medicaid Fraud Program and to the County Road Administration Board as well as other local county and city engineering and planning professionals for use in their safety, planning and engineering programs.
3	June 2025	Provide weekly crash data feeds of all reportable crashes on Washington public roadways along with technical support to the Washington State Patrol for their Collision Access Tool (CAT) and their Commercial Carrier SAFETYNET Tool. WSP utilizes the data by WSDOT to meet their federal reporting requirements to the Federal Motor Carrier Safety Administration. Providing information to WSP so they can make informed decisions on where to implement emphasis patrols and other law enforcement countermeasures.

Number	Estimated Delivery	Deliverable Description
4	June 2025	Provide daily crash data feeds of all reportable crashes occurring on Washington public roadways along with technical support to the National Highway Safety Administration (NHTSA) for inclusion in their Electronic Data Transfer (EDT) Program.
5	June 2025	Provide crash summary reports and technical support to the WSDOT, Transportation Safety & Systems Analysis Office (TSSA) and all Metropolitan Planning Organizations/Regional Transportation Planning Organization (MPOs/RTPOs) to support the development of their MAP-21 Safety Performance Measures as outlined in 23 USC Section 148.
6	June 2025	Complete the processing and analysis of the annual crash data file which includes all reportable crashes occurring on Washington public roadways for use by numerous federal and state agencies and researchers.
7	June 2025	Provide Suspected Serious Injury crash data on a quarterly basis along with technical support to the Washington Traffic Safety Commission for the Washington Strategic Highway Safety Plan known as Target Zero.
8	June 2025	Partner with other WSDOT offices and outside partners to establish an intersection table that will allow crash data users to associate crashes at all intersecting points within an intersection.
9	June 2025	Collaborate with state agency partners on exploring opportunities to integrate the crash data record with the state's transportation, safety and injury surveillance data to enhance the statewide crash database and help solve the underreporting of crashes involving vulnerable road users.
10	June 2025	Funds (\$50,000) will be passed through to WaTech (Washington Technology Solutions) to support the Justice Information Network Data Exchange (JINDEX), which is responsible for routing electronic tickets and crash reports to all agencies that require the data to meet their business obligations. Timely, complete, and accurate electronic crash data is essential to support WSDOT's goal of reducing serious injuries and fatalities on Washington State roadways. \$25,000 will be provided in May for each fiscal year of the biennium.

Number	Estimated Delivery	Deliverable Description
11	June 2025	Collaborate with the Washington State Patrol to secure the "National Model" application to replace the aging SECTOR software to ensure the timely, accurate and complete submission of crash reports and citations from law enforcement.
12	June 2024	Enhance WSDOT's Crash Data Portal to meet the needs of our partners to easily extract data that will support the emphasis areas in the state's updated Target Zero Plan and to support local agency's ability to extract data to support the state's Complete Streets initiative.
13	June 2025	Provide technical support to researchers, local jurisdiction consultants, tribes and the general public regarding the 1,200 public disclosure requests WSDOT receives for Washington's crash data each year.

AREA 2: Transportation Data, Analysis, and Stewardship

AREA DESCRIPTION

Area 2 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 2.1: Travel Data Collection, Processing, Analysis and Reporting

Subarea 2.2: Crash Data Collection, Analysis and Reporting

Subarea 2.3: Enterprise GIS Services and Roadway Data Collection, Analysis, and Reporting

Subarea 2.4: Annual Federal Reporting of Vehicle and Financial Statistics
Subarea 2.5: Information Technology Development and Support

SUBAREA 2.3 - Enterprise GIS Services and Roadway Data Collection, Analysis, and Reporting

SUBAREA DESCRIPTION

This team leads the agency's enterprise GIS technical architecture, application development, support services, governance and fundamental roadway network data stewardship. These geospatial resources, services and data enable multimodal planning, project development and maintenance decision making within the Washington State Department of Transportation (WSDOT) and the Federal Highway Administration (FHWA). We maintain the agency's roadway network inventory as a mapped linear referencing system (LRS) dataset with associated geometric, safety, condition, use and classification descriptors.

We compile, analyze, report and certify key roadway data to meet multiple state and federal planning business needs and reporting requirements, including those for Federal Functional Classification and Highway Performance Monitoring System (HPMS).

FEDERAL MANDATES

[23 CFR Part 460](#)

[23 CFR Part 658](#)

[23 CFR Part 924](#)

[23 CFR Part 490](#)

[23 USC Sec 119](#)

[23 CFR Part 470](#)

OBJECTIVES

- Compile, analyze, report and certify key roadway data to meet multiple state and federal planning business needs and reporting requirements, including those for Federal Functional Classification, HPMS, and the Model Inventory for Roadway Elements (MIRE). Lead agency enterprise GIS administration, support, development and governance to enable transportation system planning, development, operations and maintenance activities across all regions and headquarters, including public engagement and outreach.
- Migrate and modernize enterprise GIS technology, applications, data and uses to align with evolving industry and agency technology standards and strategic directions.

- Maintain and support existing GIS applications, tools and web-based resources for agency wide use. Maintain the agency Linear Referencing System for state and federal highways.

CONTACT

Name	Phone Number	Work Unit
Elizabeth Lanzer	360-596-8925	Multimodal Planning & Data Division

REVENUE SUMMARIES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$4,350,800	\$0	\$0
State	\$3,665,700	\$0	\$0
Local	•	\$0	\$0
Total	\$8,016,500	\$0	\$0
FTE Count	22.84	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Functioning and efficient operational Geographic Information System (GIS) technology resources for agency wide use by a remote workforce.
2	June 2025	GIS user support services and web-based GIS resource system administration for migrating end users to web-based GIS solutions.
3	March 2024 March 2025	Annual State Highway Log is required by RCW 47.17.001. This report is updated every year in March to reflect roadway changes in the previous year.
4	April 2024	Annual GIS-enabled Linear Referencing System and roadway characteristics datasets are required as part of FHWA’s HPMS reporting under 23 CFR 460.2. An updated dataset is produced each year in April to reflect roadway changes in the previous year.

Number	Estimated Delivery	Deliverable Description
5	April/June 2024 April/June 2025	Annual Highway Performance Monitoring System Highway Performance Monitoring System (HPMS) data submittals are required by FHWA under 23 CFR 460. Every year we are required to submit two different sets of data, one on 4/15 and one on 6/15.
6	June 2024	Annual Certified Public Road Mileage is required by FHWA under 23 CFR 460.3(b). We are required to certify an updated values every year by June 1st.
7	July 2024	Annual certification of State Routes through cities and towns. RCW 47.24.010 requires us to update this notification every year by July 15th.
8	January 2025	Decennial update to the Highway Urban Area Boundaries and related updates to Functional Classifications.
9	January 2024 January 2025	Updates to public roadway Federal Functional Classification and National Highway System designations are required by FHWA under 23 CFR 470.105. This includes processing requests to assign or update designations and submitting those for FHWA approval and publishing annual updates as publicly available GIS data sets. We target completing requests at the end of each calendar year so we can finalize the data for annual HPMS reporting.
10	June 2025	Support and enhance over 30 existing geospatial applications and tools used by multiple agency business groups or the public for functions such as safety data collection, multimodal community planning coordination, environmental assessment and highway maintenance operations.
11	June 2025	Provide GIS project management and business analysis services for significant GIS data and tool development efforts.
12	May 2025	Migrate State Route Library & Research Services (LRS) and roadway inventory data management to GIS platform.
13	May 2024	Migrate Highway Performance Monitoring System (HPMS) tabular data compilation processes to SQL Server-based solution.
14	July 2024	Complete agency intersection database design and implementation plan.
15	June 2025	Establish agency Intersection database.

AREA 2: Transportation Data, Analysis, and Stewardship

AREA DESCRIPTION

Area 2 contains descriptions, mandates, objectives, revenue, and deliverables related to the following subareas:

Subarea 2.1: Travel Data Collection, Processing, Analysis and Reporting

Subarea 2.2: Crash Data Collection, Analysis and Reporting

Subarea 2.3: Enterprise GIS Services and Roadway Data Collection, Analysis and Reporting

Subarea 2.4: Annual Federal Reporting of Vehicle and Financial Statistics

Subarea 2.5: Information Technology Development and Support

SUBAREA 2.4 - Annual Federal Reporting of Vehicle and Financial Statistics

SUBAREA DESCRIPTION

Administer and update the financial reporting system for cities and counties, collect and evaluate data for FHWA financial and statistical reports, update and maintain state and local financial and statistical databases.

FEDERAL MANDATES

[23 CFR 450.208](#)

[23 CFR 420.117](#)

OBJECTIVES

- Serve the needs of the Washington State Department of Transportation (WSDOT) and the federal government by completing mandatory federal highway reports. Collect and evaluate state and local revenue and expenditure data for Federal Highway Administration (FHWA) financial and statistical reports reflecting transportation related activities.
- Collect detailed information from the state's 39 counties and 280 cities, reflecting their highway-related financial activities.
- Work with the local agencies to ensure accuracy of data provided and prepare required FHWA report.
- Work with the state auditor, state agencies and local governmental units furnishing transportation financial information to improve the quality and timeliness of data provided and work to merge out two web-based reporting systems into one financial reporting system.
- Use data accumulated in the preparation of required FHWA reports, develop and maintain databases of state and local financial and statistical information for use in legislative requests, transportation studies and special analyses.
- Provide a quarterly federal funds forecast with information on the federal authorization act and other federal appropriation laws.

CONTACT

Name	Phone Number	Work Unit
Amber Coulson	360-742-7534	Budget & Financial Analysis Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	•	•	•
State	•	•	•
Local	•	•	•
Total	•	•	•
FTE Count	•	•	•

No SPR funds are used to fund this subarea.

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	September 2024	Quarterly Transportation Revenue Forecast Council (TRFC) documents (Volumes I-III and twice a year Volume IV). Produce quarterly forecasts of federal revenue and a breakdown of those revenues by state and local programs. Reporting will be done four times a year with the last forecast being September 2024.
2	September 2024	Produce quarterly forecast summary reports and detailed tables describing the forecast. Presentations are prepared for WSDOT management and others to make presentations on the latest financial information. Reporting will be done four times a year with the last forecast being September 2024.
3	June 2025	Maintain the collection, analysis and reporting of transportation financial data. Reporting is done on a monthly basis.
4	June 2025	Support the Transportation Commission benchmark performance measures, transportation planning, legislative analyses and special studies using data from FHWA reports.

Number	Estimated Delivery	Deliverable Description
5	September 2024	Coordinate collection of and synthesize the federal forecasts from various WSDOT divisions. Reporting will be done four times a year with the last forecast being September 2024.
6	June 2025	Process data from 39 counties and 280 cities for the 2023 and 2024 FHWA reports. Reporting is monthly.
7	June 2025	Educate local city and county officials on financial transportation reports and legal reporting requirements. Reporting is monthly.
8	June 2025	Respond to requests for local, state, and federal financial and economic data. Reporting is done on a monthly basis.
9	June 2025	Evaluate local financial special reports used by metropolitan and other local planning organizations, cities, counties, educational institutions, state legislative transportation committees and the WSDOT management. Reporting is monthly.
10	June 2025	Produce special economic analyses and reports used by state legislative transportation committees, Transportation Improvement Board, the State Auditor's Office, County Road Administration Board, local government agencies and other Washington State Department of Transportation (WSDOT) divisions. Reporting is monthly.
11	June 2025	Prepare FHWA reports for state motor fuel tax collections, motor vehicle registrations and fees, state bonding activities and highway income and expenditures on a fiscal year basis for Fiscal Year (FY) 2023 and FY 2024. Reporting is annual.
12	January 2024 January 2025	532 – State Highway Expenditures. Reports are required by FHWA.
13	January 2024	534 – Highway Expenditures by Functional Class and System. Reports are required by FHWA.
14	January 2024 January 2025	536 – Local Finance Report. Reports are required by FHWA.

Number	Estimated Delivery	Deliverable Description
15	January 2024 January 2025	539 – Toll Facility Receipts and Disbursements. Reports are required by FHWA.
16	January 2024 January 2025	541 – Transportation Bonds Issued. Reports are required by FHWA.
17	January 2024 January 2025	542 – Status of Bond Debt. Reports are required by FHWA.
18	January 2024 January 2025	556 – Fuel Tax Receipts. Reports are required by FHWA.
19	January 2024 January 2025	561 – Vehicle Registrations and Fees. Reports are required by FHWA.
20	January 2024 January 2025	562 - State Driver Licenses and Fees. Reports are required by FHWA.
21	January 2024 January 2025	566 – Vehicle Fees and Distribution. Reports are required by FHWA.
22	January 2024 January 2025	571 – Motor Carrier Tax Receipts. Reports are required by FHWA.
23	June 2025	Legislative analyses and fiscal notes. Reporting is done on a monthly basis.

AREA 2: Transportation Data, Analysis and Stewardship

AREA DESCRIPTION

Area 2 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 2.1: Travel Data Collection, Processing, Analysis and Reporting

Subarea 2.2: Crash Data Collection, Analysis and Reporting

Subarea 2.3: Enterprise GIS Services and Roadway Data Collection, Analysis and Reporting

Subarea 2.4: Annual Federal Reporting of Vehicle and Financial Statistics

Subarea 2.5: Information Technology Development and Support

SUBAREA 2.5 - Information Technology Development and Support

SUBAREA DESCRIPTION

Provide project management; develop applications; act as a liaison between the Transportation Data, GIS & Modeling Group (TDGMG) and the Information and Technology Division (ITD); and provide technical support for the collection, storage, processing and reporting of Crash, Travel Analysis and Roadway Office data in support of their federal and state mandates.

Develop and support a small number of applications for the Multimodal Planning and Data Division (MPDD).

Work with the state auditor's office and state chief information office to investigate, validate and document compliance with new and existing policies and procedures as it relates to the acquisition, storage, processing and dissemination of data for Category 2 and 3 data elements.

FEDERAL MANDATES

[23 CFR Part 490](#)

[23 USC Sec 148](#)

[23 USC Sec 119](#)

[23 USC Part 450](#)

OBJECTIVES

- Provide project management, application development and support for the collection, storage, processing and reporting of Crash, Travel Analysis and Roadway Office data in support of their federal and state mandates.
- Develop and maintain certain modern applications for the MPDD.
- Improve the security of these systems in accordance with the State Auditor's Office as well as compliance with the Office of the Chief Information Officer (OCIO) policies and procedures.
- Upgrade and modernize existing applications as necessary to ensure they are kept current as deficiencies are identified from either a technology or security standpoint.

CONTACT

Name	Phone Number	Work Unit
Bob Maxwell	360-705-7705	Information Technology

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$771,440	\$0	\$0
State	\$192,860	\$0	\$0
Local	•	\$0	\$0
Total	\$964,300	\$0	\$0
FTE Count	3.00	0.00	0.00

DELIVERABLES

Numbers	Estimated Delivery	Deliverable Description
1	June 2024	Enhance the restricted Crash Data Portal to include expanded crash filtering and GIS capabilities. The enhancements will facilitate the ability of Regional Transportation Planning Organizations (RTPOs), Metropolitan Planning Organizations (MPOs) and state and local engineers to satisfy requirements for transportation plans and programs as stipulated by USC 23 Section 148 of the FAST Act/Map 21.
2	December 2023	Implement a new application that will allow the Crash Branch to perform Suspense File Processing using modern tools, instead of within the legacy mainframe environment. This will allow analysts to quickly relocate collisions after a road is realigned. Migrating crash data processing to a modern environment is part of the Washington State Department of Transportation’s (WSDOT’s) effort to replace its legacy mainframe systems.

Numbers	Estimated Delivery	Deliverable Description
3	March 2024	Modernize a web site used by cities and counties to enter data into the Highway Performance Monitoring System (HPMS). The current site uses outdated technology. The new site will utilize modern technology and security methods and will facilitate the transfer of data from city and county analysts to HPMS.
4	June 2025	Maintain high availability of the systems required to collect, store, process and report those data elements needed by either the Crash, Travel Analysis or Roadway Branches enabling them to successfully complete their work.
5	June 2025	Work with the Crash Branch as needed to assist in fulfilling highly complex public disclosure requests.
6	June 2025	Enhance and maintain a new database-driven Statewide Planning Research (SPR) reporting application for the Multimodal Planning & Data Division (MPDD). This application will allow managers to store and submit their individual subarea reports and updates. System managers will then be able to approve and publish SPR reports directly from within the application. The application will allow WSDOT to more efficiently submit biennial SPR document and annual reports required by FHWA.
7	June 2025	Work with data stewards and Data Management Services to replace roadway data and processes currently residing in the legacy mainframe environment with modern databases and applications.
8	December 2023	Replace two processes currently used to update crash records with location information from the mainframe system. Migrating crash data processing to a modern environment is part of WSDOT's effort to replace its legacy mainframe systems.
9	June 2025	Manage an Information Technology (IT) project to replace Safety Analyst software with the Safety Performance Function tool from the Federal Highway Administration (FHWA). This project will require working with Data Management Services and data stewards to feed traffic, intersection and collision data from existing internal databases.

Numbers	Estimated Delivery	Deliverable Description
10	June 2025	IT project to create a new Enterprise Intersection Database for use throughout the agency. Complete intersection information is required to meet yearly requirements for Highway Performance Monitoring System (HPMS) and reporting to FHWA.
11	June 2025	Support and enhance State Route Viewer (SRview) applications, including the storage, retrieval and archiving of images from each mile post throughout the state highway system. Evaluate and/or prepare for the possible integration of images generated through Mobile LiDAR systems.
12	June 2025	Develop and support a new application and data repository for planning studies for the Multimodal Planning & Data Division (MPDD). The application will allow managers to more efficiently enter, track and search for planning studies in order to efficiently respond to requests for information about current and historical planning studies.

AREA 3: Statewide Multimodal Planning

AREA DESCRIPTION

Area 3 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 3.1: Statewide Long-Range Transportation Planning and Implementation

Subarea 3.2: Cooperative Automated Transportation (CAT) Program

Subarea 3.3: Active Transportation Plan Update

Subarea 3.4: Rail, Freight and Ports

Subarea 3.5: Washington State Ferries Transportation Planning

SUBAREA 3.1 - Statewide Long-range Transportation Planning & Implementation

SUBAREA DESCRIPTION

The Washington State Department of Transportation (WSDOT) develops and implements long-range statewide plans to meet state and federal requirements. The Washington Transportation Plan Phase 2, adopted in April 2018, meets the federal long-range statewide transportation planning requirements and the state multimodal transportation plan requirements. It also implements the Washington Transportation Plan Phase 1, the state policy plan prepared by the Washington Transportation Commission.

WSDOT will continue to implement Phase 2 by coordinating, integrating and aligning it with other plans at WSDOT (ferries, highways, rail, aviation, freight, active transportation, public transportation). Each plan update is an opportunity to both implement Phase 2 and prepare for its next update. Decision makers rely on the recommendations from WSDOT plans to inform future planning, scoping, programming and design decisions.

WSDOT provides transportation planning data to and coordinates statewide planning activities with Metropolitan Planning Organizations (MPOs), tribes, federal land management agencies and other transportation stakeholders. Additionally, WSDOT is working with MPOs and other regional transportation planning organizations on developing a collaborative Investment Strategy process to identify, vet and prioritize statewide and regional transportation investments.

FEDERAL MANDATES

[23 USC Sec 135](#)

[23 CFR 450.210](#)

[23 CFR 450.216](#)

[23 CFR 450.206](#)

[23 CFR 450.208](#)

OBJECTIVES

- Implement the federally compliant long-range statewide transportation plan and prepare for its update by coordinating, integrating and aligning it with other statewide plans.
- Provide statewide transportation planning data to and coordinate statewide planning activities with MPOs, tribes, federal land management agencies and other transportation stakeholders.

CONTACT

Name	Phone Number	Work Unit
Karena Houser	360-705-7876	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$1,795,680	\$0	\$0
State	\$598,920	\$0	\$0
Local	•	\$0	\$0
Total	\$2,394,600	\$0	\$0
FTE Count	8.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2024	Update the Highway System Plan, including coordination with MPOs, tribes, federal land management agencies and other transportation stakeholders.
2	June 2025	Guide, inform and participate in other statewide plans for the purpose of implementing the federal long-range transportation plan and coordinating statewide planning activities with MPOs, Tribes, federal land management agencies and other transportation stakeholders.
3	June 2025	Maintain and continuously improve WSDOT's Community Planning Portal to provide statewide transportation data to MPOs, Tribes, federal land management agencies and other transportation stakeholders.
4	June 2025	Develop a coordination strategy for the federally compliant long-range statewide transportation plan and other statewide plans.
5	June 2025	Develop and pilot a collaborative Investment Strategy process with MPOs and regional transportation planning organizations. As of spring 2021, the detailed scope of work is being developed in partnership with MPO/RTPO participants.

AREA 3: Statewide Multimodal Planning

AREA DESCRIPTION

Area 3 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 3.1: Statewide Long-Range Transportation Planning and Implementation

Subarea 3.2: Cooperative Automated Transportation (CAT) Program

Subarea 3.3: Active Transportation Plan Update

Subarea 3.4: Rail, Freight and Ports

Subarea 3.5: Washington State Ferries Transportation Planning

SUBAREA 3.2 - Cooperative Automated Transportation (CAT) Program

SUBAREA DESCRIPTION

The Washington State Department of Transportation (WSDOT) Cooperative Automated Transportation program develops and advances the agency's Cooperative Automated Transportation (CAT) role and strategic vision, with a focus on how current and new technologies and semi-automated and automated capabilities can advance the state's multimodal transportation system and enhance the communities we serve. WSDOT envisions a future where technology, automated, connected, electrified and shared mobility strategies contribute toward a safe and efficient transportation system. A system that emphasizes public transit and active transportation and promotes livable (walkable/bikeable), economically vibrant communities with affordable housing and convenient access to jobs and other activity centers.

FEDERAL MANDATE

[23 CFR 450.206](#)

OBJECTIVES

- Develop and advance Washington State Department of Transportation's (WSDOT's) role and strategic vision in Cooperative Automated Transportation locally and nationally.
- Participate in CAT-related forums, conferences, legislative meetings and other engagement and communication opportunities to be able to provide reliable, timely and relevant policy direction and recommendations for WSDOT's programs, agency executives, and the Washington State Autonomous Vehicle (AV) Work Group.
- Identify multimodal and infrastructure CAT related deployment opportunities such as automated shuttles and other CAT related Mobility on Demand and shared mobility services, real time work zone data and roadway striping enhancements. The deployment of these type of projects requires increased cross-agency planning and collaboration. Continue to seek internal and external partnership and funding commitments throughout the biennium.

CONTACT

Name	Phone Number	Work Unit
Daniela Bremmer	360-705-7953	M2D2 CAT Program

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$310,000	\$0	\$0
State	\$77,500	\$0	\$0
Local	•	\$0	\$0
Total	\$387,500	\$0	\$0
FTE Count	1.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Executive Support: Provide policy guidance and staff support to the Secretary and other executives engaged in various, national CAT/CAV/AV/ITS/V2X related efforts. Gain knowledge and participate in CAV and AV-related forums, conferences, legislative meetings and other engagement opportunities to support technical, research and planning learning needs, maintain leadership roles and communicate WSDOT’s strategic vision for Cooperative Automated Transportation, emerging and automated technologies and innovation. Identify regulatory, policy, infrastructure and other changes necessary to enable technology deployments and ensure the safe operation of AVs on Washington's public roadways.

Number	Estimated Delivery	Deliverable Description
2	June 2025	<p>WSDOT Work Groups: Continue to lead the WSDOT agency-wide WSDOT CAT WG, working with all agency divisions and agency programs to provide technical support, policy guidance and facilitate partnership opportunities and support CAT policy and deployment planning and implementation. Facilitate knowledge transfer, staff development, guidance, regular communication and information exchange between divisions and agency organizations. Represent the CAT Program and technology and innovation with other relevant agency-wide work groups such as the Complete Streets Technology Work Group, the Broadband Policy and Implementation Workgroup; the Transportation Systems Management and Operations (TSMO) Committee, the Transportation Demand Management (TDM) Executive Committee and the Data Center Modernization Steering Committee.</p>
3	June 2025	<p>State and Federal: Continue to staff the Washington State AV Work Group and its Infrastructure and Systems Subcommittee and provide recommendations to the Washington Transportation Commission, the Legislature and the Governor's Office. Assume leadership roles and support the agency's and Secretary's priorities on a national level with the American Association of State Highway and Transportation Officials (AASHTO) and the Intelligent Transportation Society of America (ITSA). Partner with and support USDOT, the Highly Automated Systems Safety Center of Excellence (USDOT-HASS) and Federal Highway Administration (FHWA) in the development of a national framework for AV, the deployment of the National Concept of Operations (ConOps) and the development of a national Digital Infrastructure framework.</p>

AREA 3: Statewide Multimodal Planning

AREA DESCRIPTION

Area 3 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

- Subarea 3.1: Statewide Long-Range Transportation Planning and Implementation
- Subarea 3.2: Cooperative Automated Transportation (CAT) Program
- Subarea 3.3: Active Transportation Plan Update
- Subarea 3.4: Rail, Freight and Ports
- Subarea 3.5: Washington State Ferries Transportation Planning

SUBAREA 3.3 - Active Transportation Planning and Policy Development

SUBAREA DESCRIPTION

The work of the Active Transportation Division (ATD) includes dissemination of the Washington State Active Transportation Plan and implementation. The Active Transportation Plan equity focus and decision tools will be integrated into the Washington State Department of Transportation (WSDOT) planning, project development and maintenance practices. Coordination with local agencies will foster active transportation network connections, especially those that support low income, black, indigenous and people of color communities.

Other work includes facilitating in the development and adoption of new speed limit setting and speed management practices and/or policy as well as updating the pedestrian and bicyclist chapter of the Washington State Strategic Highway Safety Plan (Target Zero).

FEDERAL MANDATES

[23 CFR 450.206](#)

[23 CFR 450.208](#)

[23 USC Sec 148](#)

[23 USC Sec 119](#)

OBJECTIVES

- Develop policies to identify and prioritize steps to complete the active transportation network.
- Support implementation of the Safe Systems Approach in agency policies and practice.
- Incorporate an equity framework in evaluation of active transportation systems.
- Increase the percentage of everyday short trips made by walking or bicycling.
- Collaborate and coordinate with local, regional, state, tribal and federal partners to improve conditions for people who walk and bike.

CONTACT

Name	Phone Number	Work Unit
Barb Chamberlain	509-869-2949	Active Transportation

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$642,160	\$0	\$0
State	\$160,540	\$0	\$0
Local	•	\$0	\$0
Total	\$802,700	\$0	\$0
FTE Count	2.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Updates to WSDOT’s decision making guidance, manuals and policies regarding active transportation. Lead coordination of process changes required for Complete Streets implementation.
2	June 2025	Updated Target Zero Plan, Active Transportation Emphasis Areas. Incorporate the safe system approach more completely into the document.
3	June 2025	Local agency active transportation plan development. Coordinate with local agencies to foster plan development to inform active transportation network connection decisions.
4	December 2023	Update WSDOT Active Transportation Plan Equity Focus. Modify plan to align with new state and federal environmental justice policy direction.
5	June 2025	Implementation of WSDOT’s ATP. Integrate core concepts from the active transportation plan into other WSDOT planning efforts, project development, performance metric analysis and other business practices.
6	June 2025	Prepare and disseminate communications usage guidance incorporating active transportation, equity, Safe System Approach and positive traffic safety culture framing.
7	June 2025	Connecting Communities Program - Develop and implement the program serving a minimum of 15 overburdened communities and/or tribal areas.

AREA 3: Statewide Multimodal Planning

AREA DESCRIPTION

Area 3 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 3.1: Statewide Long-Range Transportation Planning and Implementation

Subarea 3.2: Cooperative Automated Transportation (CAT) Program

Subarea 3.3: Active Transportation Plan Update

Subarea 3.4: Rail, Freight and Ports

Subarea 3.5: Washington State Ferries Transportation Planning

SUBAREA 3.4 - Rail, Freight and Ports

SUBAREA DESCRIPTION

Develop federally required planning studies and engage in activities relevant to the rail, freight and port industries. The Rail, Freight and Ports (RFP) division will update the state freight plan to align with the national freight strategic plan, examine trends, issues, needs and develop strategies, including defining truck parking and freight investment priorities while engaging stakeholders in the process. The RFP division will also develop future service goals and objectives for the intercity passenger rail program and shortline rail system owned by the state – work on these activities is funded from multiple sources including Program Y and Program T. Efforts will continue to expand collection, analysis and reporting of freight data. These efforts support decision-making and planning activities related to advanced transportation technologies and pertinent agency initiatives.

FEDERAL MANDATES

[23 CFR 450.208](#)

[23 USC Sec 167](#)

[23 CFR 450.206](#)

[49 USC Sec 70202](#)

OBJECTIVES

- Update the state freight plan using SPR funds to meet federal requirements by:
 - Aligning state freight plan with National Freight Strategic Plan.
 - Examining multimodal trends, issues, needs and develop strategies.
 - Defining truck parking and freight investment priorities.
 - Engaging freight stakeholders and agency offices in freight plan development.
- Develop future service goals and objectives for the intercity passenger rail program using SPR funds by:
 - Conducting an intercity passenger rail and multimodal market analysis.
 - Developing Amtrak Cascades service scenarios.
 - Developing growth alternatives and identifying investment options.

- Update program goals and objectives for the state-owned short-line rail system using SPR funds by:
 - Assessing short-line performance and needs analysis.
 - Engaging freight, rail and agriculture stakeholders.
 - Developing growth investment strategies.
- Update the Washington State Freight and Goods Transportation System (FGTS) procedures by performing the following activities using SPR funds:
 - Improving freight data collection and analysis to include urban and rural county freight data.
 - Establishing volume and tonnage benchmarks due to the pandemic.
 - Engaging local, regional and state government entities in the update process.
- Support decision-making and planning activities using SPR funds by engaging in ongoing activities:
 - Advanced technologies such as Connected Autonomous Transportation and Ultra High-Speed Ground Transportation.
 - Electric aircraft and ferry vessels.
 - National and regional freight and rail collaboration through National Cooperative Highway Research Program, American Association of State Highway and Transportation, Transportation Research Board (NCHRP, AASHTO, TRB) and Great Northern Corridor Coalition.
 - Agency Practical Solutions coordination.

CONTACT

Name	Phone Number	Work Unit
Jason Beloso	206-464-1259	Rail, Freight & Ports Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$1,011,440	\$0	\$0
State	\$252,860	\$0	\$0
Local	•	\$0	\$0
Total	\$1,264,300	\$0	\$0
FTE Count	4.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Delivery Description
1	December 2023	State Freight Plan
2	December 2023	Service Development Plan
3	June 2025	Palouse River and Coulee City (PCC) Short-line Rail System Plan
4	November 2023	Freight and Goods Transportation System Update
5	June 2025	Deliver the Ultra-High Speed Ground Transportation. Estimated delivery dates are June 2024, and 2025.

AREA 3: Statewide Multimodal Planning

AREA DESCRIPTION

Area 3 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

- Subarea 3.1: Statewide Long-Range Transportation Planning and Implementation
- Subarea 3.2: Cooperative Automated Transportation (CAT) Program
- Subarea 3.3: Active Transportation Plan Update
- Subarea 3.4: Rail, Freight and Ports
- Subarea 3.5: Washington State Ferries Transportation Planning

SUBAREA 3.5 - Washington State Ferries Transportation Planning

SUBAREA DESCRIPTION

The Washington State Ferries 2040 Long-Range Plan is a blueprint for transportation investment for Washington State’s Marine Highway and mass transportation system (RCW 47.60.017). The plan is built around the guidance listed in RCW 47.60.327 and 47.60.375. The plan was developed with extensive public outreach and consultation with advisory groups of technical, policy and executive staff. It was completed in December 2018 and identifies numerous follow-on studies to be addressed in the 2023 – 2025 biennium, including a demographic study. The follow-on studies will assist in making periodic revisions to the plan to keep it updated more frequently than every 10 years. The four major themes of the long-range plan will be listed as objectives below and work program items tied to the four themes in the listing.

Washington State Ferries also plans for seasonal service adjustments, including significant data analysis and public participation (RCW 47.60.330). Washington State Ferries also will continue implementing the Service Restoration Plan through the 2023-2025 biennium.

FEDERAL MANDATES

[23 CFR 450.206](#)

[23 CFR 450.208](#)

OBJECTIVES

- Reliable service.
- Customer experience.
- Manage growth.
- Sustainability and resilience.

CONTACT

Name	Phone Number	Work Unit
Jason Rogers	425-395-2618	Washington State Ferries

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$493,680	\$0	\$0
State	\$123,420	\$0	\$0
Local	•	\$0	\$0
Total	\$617,100	\$0	\$0
FTE Count	2.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Planning support for the Fauntleroy Terminal Replacement project. This project will utilize the Planning and Environmental Linkages (PEL) process to streamline getting to construction. Planning staff will aid the Terminal Engineering Department in that process, providing transportation planning analysis as needed.
2	June 2025	Quarterly Ridership and Fare Revenue Forecasts. These ridership and fare revenue forecasts are updated every quarter for adoption by the state Transportation Revenue Forecast Council. Forecast deadlines are four times a year (February/March, June, September, and November). June forecasts will be provided in the SPR annual report. WSF staff work with consultants in the preparation of the inputs to the forecasts as well as the forecast development process.
3	June 2025	Fare Structure Analysis and Review. WSDOT/WSF is directed by the legislature to make recommendations to the Washington State Transportation Commission on fare levels and policy. WSF works with an advisory group and the state legislature to determine these fare recommendations. WSF staff manages the process for fare modifications.

Number	Estimated Delivery	Deliverable Description
4	June 2025	System Electrification Related Studies Support. The long-range plan identified the need for new vessels in the WSF fleet, and the system electrification plan directs vessel and terminal electrification. WSF planning staff provide support to efforts to design and assign routes for the new vessels as well as needed characteristics for the terminals. The Hybrid Electric Olympic Class vessels are going out for construction bids in fall 2024, and WSF will begin the process to design a class of 124-car vessels.
5	June 2025	Ferry Terminal Studies, Improvements and Maintenance. The 2040 Long-Range Plan identified several ongoing terminal studies. As of this writing it is uncertain if the funding for these efforts in the 2023 – 2025 biennium will be available. Staff will perform service analysis and potential sailing schedule revisions to accommodate operational impacts of multiple terminal improvement and maintenance projects around the system.
6	June 2025	Detailed Ferry Ridership and On Time Performance Analysis. WSF relies on accurate ridership and on time performance information for service and long-range planning.
7	June 2025	Service Planning Dashboard Buildout. This effort involves the delivery of multiple dashboards to allow easy access to all aspects of data and analysis related to the development of service plans and schedules for WSF.
8	June 2025	Support for Sailing Schedule Development. Ongoing technical and policy analysis and support for the development of WSF’s sailing schedules.
9	June 2025	Data Systems and Information Flow Mapping/Documentation. Documentation of WSF’s various data systems and mapping the flow of information.
10	December 2023	Planning Studies. Staff will oversee the Anacortes Walk-On Passenger Ridership Maximization Study and the Origin/Destination and Demographics Study. Both studies are in response to legislative provisos and include consultant support.

AREA 4: Metropolitan and Regional Planning

AREA DESCRIPTION

Area 4 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 4.1: MPO/RTPO Program Stewardship and Coordination

SUBAREA 4.1 - MPO/RTPO Program Stewardship and Coordination

SUBAREA DESCRIPTION

A Metropolitan Planning Organization (MPO) is a federally mandated organization of representatives from local government and transportation agencies in urbanized areas that have a population of 50,000 or more. MPOs provide a forum for local decision-making on transportation issues of a regional nature. The metropolitan planning process promotes consistency between transportation improvements and state and local planned growth and economic development patterns.

Federal rules require the Washington State Department of Transportation (WSDOT) to provide fiduciary oversight and stewardship for the Metropolitan Planning Organizations (MPOs). State law and rules require WSDOT to perform similar functions for Regional Transportation Planning Organizations (RTPOs), which are fully funded by the state. When the MPO is acting as lead for the RTPO, it uses the State Motor Vehicle appropriation for planning funding. When it is acting as lead for an MPO, it uses the State Planning & Research (SPR) funding. There are 12 MPOs in the state, and 11 of these serve as the RTPO lead agency.

As the steward of federal metropolitan planning funding in Washington state, the Washington State Department of Transportation (WSDOT) has the responsibility to oversee and coordinate the work done by Metropolitan Planning Organizations and Regional Transportation Planning Organizations. In partnership with the MPOs and RTPOs, WSDOT ensures that a continuing, cooperative and comprehensive transportation planning process is used to identify funding priorities for the transportation system. This section also identifies how WSDOT will coordinate transportation planning activities with nonmetropolitan planning partners.

FEDERAL MANDATES

[23 USC Sec 134](#)

[23 CFR Part 420](#)

[23 CFR Part 450, Subpart C](#)

OBJECTIVES

- Guide the work of each MPO/RTPO and foster working relationships among all levels of government to ensure compliance with 23 CFR 450 federal requirements and improve long-range transportation planning practices in Washington.
- Facilitate the MPO/RTPO/WSDOT Coordinating Committee, which is a forum of representatives from WSDOT headquarters, regions and external partners that works to improve data sharing, compliance with federal requirements and consistency among regional and statewide plans.

- Coordinate with tribes, RTPOs and WSDOT Regions on transportation planning activities to fulfill requirements to consult with nonmetropolitan local officials and WSDOT as specified in 23 CFR 450 Subpart C.

CONTACT

Name	Phone Number	Work Unit
Gabe Philips	425-647-0030	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$1,162,480	\$0	\$0
State	\$290,620	\$0	\$0
Local	•	\$0	\$0
Total	\$1,453,100	\$0	\$0
FTE Count	5.25	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Ensure proper agreements are in place with each MPO, including metropolitan planning and funding agreements.
2	December 2023 December 2024	Collaborate with federal partners to provide Unified Planning Work Program (UPWP) guidance to the MPOs by December 31 every year for the following state fiscal year (SFY). Guidance for SFY 2025 will be to the MPOs by December 31, 2023, and UPWP Guidance for SFY 2026 by December 31, 2024. These dates have been agreed upon with our regional planning partners.
3	June 2024 June 2025	Schedule and attend Unified Planning Work Program (UPWP) review meetings. These meetings may be in person or remote. These dates have been agreed upon with our regional planning partners.

Number	Estimated Delivery	Deliverable Description
4	June 2024 June 2025	Distribute final UPWPs to Federal Highway Administration/Federal Transit Administration (FHWA/FTA) for approval upon receipt after adoption by each MPO policy board. *Lewis Clark Valley MPO (LCV MPO) by September 30, 2023, and 2024. These dates have been determined by FHWA and FTA for their approval process.
5	October 2023 October 2024	Distribute the MPO Annual Performance and Expenditure Reports to FHWA/FTA. *LCV MPO by December 31, 2023, and 2024. These dates have been determined by FHWA and FTA for their approval process.
6	October 2023 October 2024	Approve MPO self-certification forms in accordance with the approval of TIPs. TIPs are due in October to align with the STIP FHWA/FTA approval schedule.
7	October 2023 October 2024	Review and approve MPO TIPs for the upcoming four-year period. TIPs are due in October to align with the STIP FHWA/FTA approval schedule.
8	June 2025	Process MPO TIP amendments.
9	June 2025	Process requests for reimbursement from each MPO.
10	June 2025	Assist FHWA and FTA in the review and certification of each Transportation Management Area (TMA) to ensure compliance with the Congestion Management Process. These certifications are on a four-year cycle; timing is specific to each TMA. Spokane Regional Transportation Council and Benton Franklin Council of Governments is expected to be reviewed during this biennium.
11	June 2025	Organize quarterly coordination meetings with MPOs/RTPOs, FHWA/FTA and WSDOT.
12	June 2025	Attend MPO Policy Board and Technical Committee meetings as required. Provide support, assistance and/or data as needed.

Number	Estimated Delivery	Deliverable Description
13	November 2023 November 2024	Attend Air Quality Interagency Consultation Group, International Mobility and Trade Corridor Program and other regional coordination meetings. This is an annual process that aligns with the TIPs scheduled that require FHWA/FTA that require transportation conformity determination.
14	June 2025	Assist in development of each Metropolitan/Regional Transportation Plan as they are updated.
15	June 2025	Participate in statewide Tribal Transportation Planning Organization (TTPO) meetings and Tribal Transportation conferences.
16	June 2025	Provide funding support for the TTPO.
17	June 2024	Periodic evaluation of facilities repeatedly receiving federal emergency relief funds for repair and reconstruction activities. This work ensures that reasonable alternative analysis and consideration of findings is occurring at these locations consistent with requirements found in 23 Code of Federal Regulations (CFR) 667. WSDOT has determined that an annual update cycle for related data is the best approach.
18	June 2025	Facilitate the review and recommendation of potential Route Jurisdiction Transfers.
19	June 2025	Review and submit applications for national scenic byway designations. Provide staff support to assist in delivery of the SR 105 Corridor Management Plans and other scenic byways grant awards.
20	June 2025	Review the regulatory framework related to Regional Transportation Planning Organizations and propose and develop improvements to the program.

The following table illustrates the SPR funds that will be passed through to MPOs in Washington state.

Metropolitan Planning Organization	SFY 2024	SFY 2024	SFY 2025	SFY 2024	2023-2025 Biennium Total
	FHWA PL Funds	FTA Section 5303	FHWA PL Funds	FTA Section 5303	
Benton Franklin Council of Governments	\$450,000	\$150,000	\$450,000	\$150,000	\$1,200,000
Chelan – Douglas Transportation Council	\$225,000	\$75,000	\$225,000	\$75,000	\$600,000
Cowlitz – Wahkiakum Council of Governments	\$450,000	\$50,000	\$450,000	\$50,000	\$1,000,000
Lewis Clark Valley MPO	\$87,500	\$12,500	\$87,500	\$12,500	\$200,000
Puget Sound Regional Council	\$5,125,000	\$1,500,000	\$5,125,000	\$1,500,000	\$13,250,000
Skagit Council of Governments	\$275,000	\$100,000	\$275,000	\$100,000	\$750,000
Southwest Washington Regional Transportation Council	\$600,000	\$150,000	\$600,000	\$150,000	\$1,500,000
Spokane Regional Transportation Council	\$750,000	\$250,000	\$750,000	\$250,000	\$2,000,000
Thurston Regional Transportation Council	\$450,000	\$175,000	\$450,000	\$175,000	\$1,250,000
Walla Walla Valley MPO	\$200,000	\$50,000	\$200,000	\$50,000	\$500,000
Whatcom Council of Governments	\$300,000	\$75,000	\$300,000	\$75,000	\$750,000
Yakima Valley Conference of Governments	\$375,000	\$125,000	\$375,000	\$125,000	\$1,000,000
Total Metropolitan Planning Organizations	\$9,287,500	\$2,712,500	\$9,287,500	\$2,712,500	\$24,000,000

The following table illustrates the state planning funds that will be passed through to RTPOs in Washington state.

Regional Transportation Planning Organization	SFY 2024	SFY 2025	2023-2025 Biennium Total
Benton Franklin Council of Governments	\$123,500	\$123,500	\$247,000
Chelan - Douglas Transportation Council	\$87,000	\$87,000	\$174,000
Island County RTPO	\$52,500	\$52,500	\$105,000
Northeast Washington RTPO	\$91,500	\$91,500	\$183,000
Okanogan County RTPO	\$38,500	\$38,500	\$77,000
Palouse RTPO	\$111,500	\$111,500	\$223,000
Peninsula RTPO	\$137,000	\$137,000	\$274,000
Puget Sound Regional Council	\$754,000	\$754,000	\$1,508,000
Quad-County RTPO	\$122,000	\$122,000	\$244,000
Skagit Council of Governments	\$71,500	\$71,500	\$143,000
Southwest Washington RTPO	\$183,500	\$183,500	\$367,000
Southwest Washington Regional Transportation Council	\$176,000	\$176,000	\$289,000
Spokane Regional Transportation Council	\$144,500	\$144,500	\$352,000
Thurston Regional Transportation Council	\$97,000	\$97,000	\$194,000
Walla Walla Valley MPO	\$52,000	\$52,000	\$104,000
Whatcom Council of Governments	\$89,000	\$89,000	\$178,000
Yakima Valley Conference of Governments	\$99,000	\$99,000	\$198,000
TOTAL Regional Transportation Planning Organizations*			\$4,860,000

*RTPO allocation funding available is \$4,860,000. \$40,000 is reserved for special regional planning projects.

AREA 5: Local, Network and Corridor Planning

AREA DESCRIPTION

Area 5 contains descriptions, mandates, objectives, revenue and deliverables related to the following:

Subareas:

Subarea 5.1: Land Use and Transportation Planning Integration

Subarea 5.2: Transportation Planning Studies

Subarea 5.3: WSDOT Regional Planning

SUBAREA 5.1 – Land Use and Transportation Planning Integration

SUBAREA DESCRIPTION

Transportation trends are made up of the aggregate individual decisions of all the people traveling in our state. People make choices based on their perceptions of the options reasonably available to them and the relative costs, risks and merits of those options.

For more than half a century we have invested heavily in making driving convenient. In many places around the state, there are no other options for safe and convenient access to the destinations of people's daily lives. For walking, bicycling, transit and other more sustainable options to be competitive, there needs to be complete networks for these options that are safe and comfortable. These networks must be integrated with land use to provide destinations within convenient travel time for each of these options.

WSDOT plays an important role through the agency's own decisions and actions as well as in the way it informs and supports decisions and actions by local agencies. It is the goal for land use and transportation integration strategies to consider and implement the factors below. These are broader goals shared across many WSDOT programs. This subarea focuses on the aspects that are unique to land use and transportation integration, in collaboration with and complementing other WSDOT programs.

- Support economic vitality.
- Increase the safety of the transportation system for motorized and active transportation users.
- Increase the security of the transportation system for motorized and active transportation users.
- Increase accessibility and mobility of people and 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 for people and freight across and between modes throughout the state.
- 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.

These are broader goals shared across many WSDOT programs. This subarea focuses on the aspects that are unique to land use and transportation integration, in collaboration with and complementing other WSDOT programs.

FEDERAL MANDATES

[23 CFR 450.206](#)

[23 CFR 450.208](#)

OBJECTIVES

- Broaden WSDOT’s understanding and use of integrating planning and decision-making for land use, growth, economic development and transportation systems. This, in part, implements WSDOT’s federal planning responsibilities under 23 CFR 450.206. This subarea develops influence on and involvement with local and sub-regional transportation and land use decision-making regarding impacts to/implications for the state’s transportation systems. The Multimodal Planning & Data Division (MPDD) serves as the lead for WSDOT region planning teams on these topics and supports WSDOT regions to effectively influence local land use decision making to improve WSDOT’s ability to manage the transportation system that supports social, economic and environmental goals.
- Develop policies and methods applicable throughout WSDOT related to practical solutions, economic development, land use and growth, transportation-efficient communities, multimodal accessibility and connectivity, climate and energy, and sustainability and resiliency.
- Understand the existing local land use, growth and development context and future vision for the areas our state transportation facilities serve, including supporting the economic vitality, safety, security, accessibility and mobility of people and freight.
- Integrate local and state information to be used in planning for roadways, active transportation facilities, transit operations, freight and other transportation modes to identify common problems and solutions.

CONTACT

Name	Phone Number	Work Unit
Gabe Philips	425-647-0030	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$454,000	\$0	\$0
State	\$1,169,500	\$0	\$0
Local	•	\$0	\$0
Total	\$1,623,500	\$0	\$0
FTE Count	4.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Collaborate with Washington State Departments of Health, Commerce and Ecology to support transportation efficient communities.
2	June 2025	Participate in discussions with local transportation advocacy groups.
3	June 2025	Lead Washington State Department of Transportation (WSDOT's) internal comprehensive plan review work group to share best practices for integrating land use and transportation, support enhanced collaboration efforts with local governments, recommend incentives for encouraging increased consideration of the impacts to state transportation facilities during local land use and transportation planning and develop the organizational structure for internal and external comprehensive plan engagement.
4	June 2025	Provide technical assistance regarding legislative requests or legislation development related to land use and transportation. Assist with understanding and implementing new legislation. Those assisted may be within WSDOT, with other state agencies or with partners.
5	June 2024 June 2025	Begin efforts to implement actions identified in the 2021-2023 Land Use Capability Maturity Framework workshops.

Number	Estimated Delivery	Deliverable Description
6	June 2025	Vehicle Miles of Travel Reduction - Align WSDOT and partner efforts with recommendations from the June 2023 report to reduce greenhouse gas emissions and improve safety. Provide technical assistance and additional capacity as pilot projects demonstrating the new process are delivered. As this project moves from defining a technical process to implementation, considerable outreach and technical assistance will be necessary. This work is linked to a legislative proviso requiring an interim and final report back to the legislature.
7	June 2025	Trip Generation – WSDOT will explore research related to trip generation in mixed-use, urban environments and provide suggestions on alternative trip generation rates that local jurisdictions and WSDOT could use to more accurately account for the improved transportation efficiency of dense, mixed-use, urban environments.
8	June 2025	Rural and suburban success stories – WSDOT will develop a set of images and descriptions for land use and transportation best practices from Washington that apply to these less-urban communities.
9	June 2025	Land Use/Micromobility and Freight Connection - Develop guidance for WSDOT and partners on best practices related to freight micromobility in urban contexts.
10	June 2025	Land Use/VMT/GHG Subject Matter Expertise - Provide subject matter expertise to WSDOT regions on land use/transportation integration in corridor/subarea studies.
11	June 2025	Serve as a point of contact and resource for the department, local governments and project proponents regarding land use decisions and processing development permit applications

AREA 5: Local, Network and Corridor Planning

AREA DESCRIPTION

Area 5 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 5.1: Land Use and Transportation Planning Integration

Subarea 5.2: Transportation Planning Studies

Subarea 5.3: WSDOT Regional Planning

SUBAREA 5.2 - Transportation Planning Studies

SUBAREA DESCRIPTION

Support regions as they develop planning studies that provide decision makers with multimodal recommendations that reflect Practical Solutions. The studies will be conducted, reviewed, and approved by following the concurrence process adopted by the Washington State Department of Transportation (WSDOT). As per the concurrence process, regions lead and approve the studies, a team of Headquarters (HQs) subject matter experts known as the Multimodal Multidisciplinary (M2) Team provides input and statewide perspective to the regions on the content of a planning study, and the Planning Studies Group acts as liaison between the regions and the team of HQ subject matter experts.

FEDERAL MANDATES

[23 CFR 450.206](#)

[23 CFR 450.208](#)

OBJECTIVES

- Facilitate the planning studies concurrence process so that regions can develop recommendations that reflect WSDOT policies and priorities.
- Participate in Multimodal, Multidisciplinary, Multi-agency (M3) Team (WSDOT regions and external partners) meetings and share best practices/lessons learned with other regions and the M2 Team.
- Provide web-based guidance to support the planning studies signature review (concurrence) process.
- Coordinate with other parties to implement WSDOT's equity goals.

CONTACT

Name	Phone Number	Work Unit
Richard Warren	206-498-5071	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$537,400	\$0	\$0
State	\$142,360	\$0	\$0
Local	•	\$0	\$0
Total	\$679,800	\$0	\$0
FTE Count	2.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Serve as liaison (primary point of contact) between regions and headquarters to coordinate headquarters (HQ) support and input and prepare for Multimodal Planning & Data Division (MPDD) director concurrence. Consult with regions during development of plans and provide subject matter expert feedback.
2	June 2025	Guide and Facilitate team of headquarter (HQ) subject matter experts, known as the Multimodal, Multidisciplinary (M2) Team. Capture policy development that occurs through M2 process. Coordinate as appropriate with Development Division multimodal labs.
3	June 2025	Participate and represent the MPDD in HQ policy committees such as the Environmental Justice Workgroup, Transportation Systems Management and Operations (TSMO), Resiliency Workgroup, Multimodal Tech Forum and the Plan Review Work Group.
4	June 2025	Serve on project teams and/or advisory groups for WSDOT plans developed by headquarter (HQ), modes and regions. These teams include the Multimodal, Multidisciplinary (M2) Team and Multimodal, Multidisciplinary, Multi-jurisdictional (M3) Teams; and provide support to region planning teams performing studies and other planning work.
5	June 2025	Develop web-based guidance through consultation with HQ subject matter experts and regions.

Number	Estimated Delivery	Deliverable Description
6	June 2025	Develop resources for external partners that explain the signature review (concurrence) process for planning studies.

AREA 5: Local, Network and Corridor Planning

AREA DESCRIPTION

Area 5 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 5.1: Land Use and Transportation Planning Integration

Subarea 5.2: Transportation Planning Studies

Subarea 5.3: WSDOT Regional Planning

SUBAREA 5.3 - WSDOT Regional Planning

SUBAREA DESCRIPTION

The six regions and the Management of Mobility (MOM) Division provide multimodal planning and regional coordination services for Washington State Department of Transportation (WSDOT); tribal, county, city, governments; state agencies; and regional planning organizations. This coordination includes providing expertise on others' plans, providing and analyzing data, and participating in committees.

The regions manage all aspects of a planning study or other planning documents such as work plan, schedule, budget, community engagement, briefings and development of recommendations. This work also includes planning studies identified by Legislative Provisos.

The Management of Mobility Division has two groups focusing on long range planning in central Puget Sound.

The Policy Group works on addressing system challenges and issues in the central Puget Sound by focusing on regional transportation planning and policy. The team also serves as the liaison to Puget Sound Regional Council (PSRC) for the agency, working to engage and coordinate on regional transportation issues.

The Planning Group works to implement corridor level practical solutions to provide safe and reliable mobility choices in the central Puget Sound. Current focus is conducting multimodal corridor planning studies and developing plans as directed by the Legislature, local agency plan review and collaboration, and working with partners to provide an integrated multimodal system.

FEDERAL MANDATES

[23 CFR 450.206](#)

[23 CFR 450.212](#)

[23 CFR 450.208](#)

OBJECTIVES

- Engage in Statewide Planning processes described in 23 CFR 450.206, 23 CFR 450.208 and 23 CFR 450.212. This includes:
 - Continue to engage and participate in Complete Streets activities.
 - Developing planning studies for WSDOT owned and managed transportation infrastructure and services through internal and external community engagement.
 - Continue to engage and participate in statewide initiatives such as the Healthy Environment for all (HEAL) Act.
- Participating in headquarter (HQ) led efforts such as statewide and modal plan updates, data gathering and analysis, policy reviews, statewide coordination committees.
- Conducting community engagement consistent with WSDOT's documented public involvement process (Community Engagement Plan) and the Process for Consulting with Non-Metropolitan Local Officials, Tribes and Federal Land Management Agencies.
- Performing Environmental Title VI analysis and monitor compliance particularly relating to planning efforts and other functional areas.
- Coordinate planning processes described in 23 CFR 450.208. This includes:
 - Providing data, modeling advice, analysis and other support to planning partners including Metropolitan Planning Organizations (MPOs), Regional Transportation Planning Organizations (RTPOs), Tribal Transportation Planning Organization, transit agencies, counties, cities, Tribes and federal land management agencies consistent with WSDOT's Community Engagement Plan and WSDOT's Process for Consulting with Non-Metropolitan Local Officials, Tribes and Federal Land Management Activities.
- Representing WSDOT by participating in Metropolitan Planning Organization/Regional Transportation Planning Organization/Regional Transportation Planning Organization (MPO/RTPO) policy and technical committee meetings and other related activities.
 - Engage in enhanced collaboration with local governments to promote consistency between transportation improvements and state and local planned growth and economic development patterns, as per 23 CFR 450.206(5). Coordinating with local governments as they develop their comprehensive land use and other transportation-related plans. The coordination includes participation in planning efforts, providing data and performing/reviewing analysis.
 - Reviewing comprehensive plan and other land use decisions/proposals to identify and coordinate addressing potential impacts to state facilities.
 - Participating in various local agency planning efforts by developing planning teams to respond to requests for staff time and information. The planning team strives to understand local concerns by working with local jurisdictions and local advocacy groups.
 - Achieve mutual benefits for local interests while also fulfilling our responsibility for the operation of the state transportation system.

CONTACT

Name	Phone Number	Work Unit
Richard Warren	206-498-5071	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$6,290,440	\$0	\$0
State	\$16,702,360	\$0	\$0
Local	•	\$0	\$0
Total	\$22,992,800	\$0	\$0
FTE Count	47.20	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Represent statewide plans such as the Highway System Plan and the integration of Transportation Systems Management Operations in conversations with local and regional organizations. Seek feedback and share responses with the project team.
2	June 2025	Provide data, technical assistance, and review of regional plan updates.
3	June 2025	Participate in various local, regional, Tribal, state and federal transportation planning efforts. This includes serving on technical teams, providing data and performing technical review of studies and plans.
4	June 2025	Participate in headquarters-led statewide planning initiatives, such as statewide multimodal transportation plan updates, land use/growth management policy issues, planning studies guidelines update and similar statewide efforts.
5	June 2025	Coordinate with local governments as they develop their comprehensive land use and other transportation-related plans. The coordination includes participation in planning efforts, providing data and performing/reviewing analysis.

Number	Estimated Delivery	Deliverable Description
6	June 2025	Coordinate Complete Streets with multidisciplinary subject matter experts during planning, scoping, pre-design, design and construction phases. Conduct and document community engagement to develop and evaluate alternatives that meet the goals of the program, particularly the Safe Systems approach. This approach includes recommending strategies such as reallocating existing space to active transportation modes, expanding the cross section to accommodate active transportation modes, adopting vehicle speeds and/or increasing separation to achieve the target level of traffic stress.
7	June 2025	WSDOT multimodal planners will continue to engage in, and support statewide initiatives such as the development and implementation of the Healthy Environment for All (HEAL) Act.

Eastern Region (ER) | Charlene Kay | 509-324-6195

Number	Estimated Delivery	Deliverable Description
8	June 2025	ER - Potential freight study in Palouse Regional Transportation Planning Organization (RTPO). This study is not funded and will be conducted if funds are made available.
9	June 2025	Reconnecting I-90 Communities. Conduct planning processes and design for removal of barriers to active transportation in historically disadvantaged communities on the I-90 corridor in Spokane's East Central Neighborhood. This project will also help WSDOT develop statewide guidance and tools for active transportation. Federal and state funds are being used for this effort.
10	December 2023	US 2 Division Connects (Division St. Bus Rapid Transit - Reimagining Division Street) is an effort to re-envision the US 2 Division Street corridor, once the US 395 North Spokane Corridor is complete. The project is evaluating alternative modes of transportation along Division Street to determine where improvements can be made to enhance bus, pedestrian, and bike travel. Spokane Transit Authority is leading this effort; and is utilizing FTA and funds for this project.

Number	Estimated Delivery	Deliverable Description
11	June 2025	SRTC / WSDOT Investment Strategy Safety Pilot Project. Establish a transparent process where each participating RTP/MPO would identify key transportation investments in their region that would require new state revenue; and then collaborate with WSDOT to identify the investments the RTP/MPO and WSDOT can support together. This process may include both programmatic and project investment recommendations. This project is utilizing federal funds.
12	June 2025	Healthy Environment for All (HEAL) Act - Senate Bill 5141. Continue to support WSDOT's development and implementation of the HEAL Act. ER Planning serves in both co-manager and support roles. This requirement is funded with state dollars.
13	June 2025	US 395/I 90 North Spokane Corridor (NSC) Surplus Lands - Sustainable Place-keeping- Senate Bill 5853. Eastern Region will continue leading the planning and implementing the US 395/I 90 NSC Surplus Lands - Sustainable Place-keeping. Federal and state funds are being utilized for this effort.

Management of Mobility (MoM) | Travis Phelps | 206-464-1262

Number	Estimated Delivery	Deliverable Description
14	April 2024	MoM - SR 516 - Targeted Corridor Study that focuses on spot locations of concern primarily due to safety and mobility issues. This corridor was selected based on factors including crash history, land use context and limited community representation resources (unincorporated and small cities). The analysis will be conducted in coordination with Northwest Region Traffic, other WSDOT offices, regional and local partners and the City of Covington.

Number	Estimated Delivery	Deliverable Description
15	April 2025	MoM - SR 527 - MP 3.75-6.28 in coordination with a planned paver project on SR 527 (MP 3.9 to 6.66). Targeted Corridor Study that focuses on spot locations of concern primarily due to safety and mobility issues. This corridor was selected based on factors including crash history, land use context and limited community representation resources (unincorporated and small cities). The analysis will be conducted in coordination with Northwest Region Traffic, other WSDOT offices and regional and local partners.
16	June 2025	MoM - SR 99 - 'Re-connect South Park' is being led by the city of Seattle Office-of-Planning and Community Development (OPCD). WSDOT is a partner in this city-led study, which received a \$1.6 million federal grant.
17	June 2025	I-5 Planning – Legislative Proviso - WSDOT will begin a planning process to develop a statewide (border to border) Master Plan for the Interstate 5. The process will address system resiliency and performance of the system and explore managed lanes options and new technologies. The process will be consistent with the FHWA Planning and Environmental Linkages (PEL) requirements.

North Central Region (NCR) | Shaun Darveshi | 509-667-2905

Number	Estimated Delivery	Deliverable Description
18	June 2025	Connecting Communities program - SR 215/US 97 Omak/Okanogan Vicinity - Active Transportation Planning Study for \$750,000. NCR will assist with this effort, with potential consultant assistance. This program is funded through a legislative approved Connecting Community grant from the Active Transportation Division.
19	June 2025	Connecting Communities program: SR 155 Spur Bridge to East Omak Elementary Active Transportation Connection for \$1.5 million. NCR staff will lead this effort, with potential consultant assistance.

Number	Estimated Delivery	Deliverable Description
20	October 2023	NCR - SR 28 Corridor Study, Phase 3 To address new questions raised by WSDOT about the Two-Lane SR 28 Alternative, develop a phasing plan and refine the final SR 28 Preferred Alternative and develop a final plan document summarizing work previously performed in Phase 1 and 2 of the SR 28 Study combined with Phase 3 elements with community outreach activities. The final plan document will be adopted by the CDTC policy board and will integrate into the next update of the Regional Transportation Plan. This effort is funded through T budget dollars allocated to NC Region.
21	March 2024	Chelan-Manson Seasonality Analysis. The region will continue to collect traffic data. This effort is funded through T budget dollars allocated to NC Region.

Northwest Region (NWR) Mt Baker (MBA) | Todd Carlson | 360-757-5980

Number	Estimated Delivery	Deliverable Description
22	June 2025	NWR – MBA • Interstate 5 – Bellingham/Ferndale urban areas. Update of baseline conditions, travel demand forecast and alternative analysis (this work will be coordinated with Region/HQ Traffic and Federal Highway Administration (FHWA) – June 2025. (This work is largely dependent upon funding through the I-5 Master Plan). \$500,000
23	June 2025	NWR – MBA • SR 542/Deming – Corridor development with Whatcom County, Nooksack Tribal Community, and the Mount Baker School District – Corridor plan list of practical solutions and access improvements for Tribal development – Still pending the Tribal development schedule. \$25,000 for continued Community Engagement.
24	June 2025	NWR – MBA • Interstate 5 - Burlington/Mount Vernon urban areas. Travel demand forecast and alternative analysis (this work will be coordinated with Region/HQ Traffic and FHWA) – June 2025. (This work is largely dependent upon Regional Priority Funding either through the T program or grants). \$500,000

Number	Estimated Delivery	Deliverable Description
25	June 2025	NWR – MBA • SR 532/Camano corridor development with Island County - June 2025, and SR 532/Snohomish County – December 2024. Corridor list of practical solutions. \$100,000 Continued collaboration on Comprehensive Plan updates in Snohomish and Island Counties and the City of Stanwood.
26	June 2025	Review comprehensive plan and other land use decisions/proposals to identify and coordinate address of potential impacts to the state facilities and services. This will be funded out of region T Budget allocation.

Olympic Region (OR) | George Mazur | 564-200-4865

Number	Estimated Delivery	Deliverable Description
27	December 2024	Growth Management Act (GMA) - Provide technical oversight, proactive collaboration and expanded review for Comprehensive Plan Periodic Update in Kitsap and Pierce counties. Provide policy guidance regarding WSDOT approach to implementing HB 1181, HB 1220 and SSSB 5412. This activity will be funded through the region’s T budget allocation.
28	June 2025	GMA - Provide ongoing technical/policy oversight, review and internal Olympic Region coordination for Comprehensive Plan annual amendments and subarea plans. This activity will be funded through the region’s T budget allocation.
29	June 2025	GMA - Provide technical oversight, proactive collaboration and expanded review for Comprehensive Plan Periodic Update in Clallam, Jefferson, Mason and Thurston counties. Provide policy guidance regarding WSDOT approach to implementing HB 1181, HB 1220 and SSSB 5412. This activity will be funded through the region’s T budget allocation.
30	June 2025	GMA - Provide ongoing technical/policy oversight, review and internal Olympic Region coordination for Comprehensive Plan annual amendments and subarea plans. This activity will be funded through the region’s T budget allocation.

Number	Estimated Delivery	Deliverable Description
31	June 2025	PRTPO & TRPC RTP Updates – WSDOT will provide enhanced technical and coordination support and oversight for these major RTP updates. This activity will be funded through the region’s T budget allocation.
32	December 2023	South Pierce Multimodal Connectivity Study - Finalize project report for this WSDOT-led Proviso funded project.
33	June 2025	I-5 - Complete NEPA/SEPA document for I-5 Marvin to Mounts Road project. (I-1 funding)
34	June 2025	I-5 Complete NEPA/SEPA strategy documents for project recommendations from the Tumwater to Mounts Road Corridor Study and PEL (Sections 1 and 2). (I-1 funding)
35	June 2025	SR 162 – Complete focused corridor study and pre-design activities for SR 162 Center Turn Lane Project in Pierce County. (proviso funding)
36	June 2025	SR 3/16 (Gorst) – Scope planning and project development activities for Gorst project. Initiate and complete activities and reports consistent with scoping plan. (I-1 funding)
37	June 2025	Carbon Area Concept Development Plan – Pierce County is leading a multiagency plan to develop a 20-year capital investment program that will integrate roadside, parking, signing and visitor service improvements along the Carbon Corridor (SR 165) entrance to Mount Rainier National Park. WSDOT will provide in-kind support on several technical tasks specifically related to SR 165 (field data collection; data research and analysis; GIS support; concept development and costing). This activity will be funded through the region’s T budget allocation.
38	December 2024	I-5 Emergency Detour Routes – WSDOT will provide technical and coordination support for this TRPC-led effort to identify capital and operational strategies for improving parallel route throughput during incidents that impact I-5. This activity will be funded through the region’s T budget allocation.

South Central Region (SCR) | Paul Gonseth | 509-697-6373

Number	Estimated Delivery	Deliverable Description
39	June 2025	<p>SCR - Heritage Connectivity Trails (HCT) – Phase 1</p> <p>Complete a feasibility study on options for multi-use route locations for pedestrians, bicyclists, non-motorized rolling and equestrian travel in key, priority locations and areas of concern. The findings will help guide future funding and implementation priorities for these safety and connectivity improvements. The focus will be on non-motorized transportation and cultural heritage. Estimated completion Dec 2026. \$300K Regional Administrator fund, \$1 million RAISE Grant (fed funds) MPDD and CPDM are working to setup a charge number in T program for this project.</p>
40	June 2025	<p>SCR - I-82/SR97 Freight Express Route Analysis; Freight bypass for Toppenish.</p> <p>Yakima Valley Council of Governments (YVCOG) will supply ~\$150K from their program for this project.</p>
41	June 2025	<p>SCR - I-90 Corridor - Easton to Cle Elum Planning Study:</p> <p>Kittitas County Public Works has initiated a corridor planning study in partnership with corridor stakeholders including the WSDOT. Quad County (QUADco) Regional Transportation Planning Organization is contributing state RTPO money for this study.</p>
42	March 2025	<p>SCR - I-90 Corridor - Easton to Cle Elum Planning Study:</p> <p>Kittitas County (County) Public Works has initiated a corridor planning study in partnership with corridor stakeholders including the WSDOT. Estimated completion Dec 2024. Gage Phillips/QUADco is contributing State RTPO money for this Study.</p>

SW Region (SWR) | Laurie Lebowsky-Young | 360-905-2082

Number	Estimated Delivery	Deliverable Description
43	June 2025	<p>SWR - SR 4-Kelso/Allen Street-\$289,000</p> <p>Participate in a study led by the City of Kelso to recommend measures to improve traffic operations and safety for all users on the Allen Street corridor between 8th Avenue and 17th Avenue, including the I-5 on and off ramps for the next 20 years. The city is leading the effort and they received FHWA grant funding to conduct the study. WSDOT is a stakeholder on this planning effort.</p>
44	June 2025	<p>SWR - SR 505/Winlock Corridor Plan and Developer's Agreement-\$300,000</p> <p>Develop a corridor plan for SR 505 in the Community of Winlock. If funding is not obtained for the corridor plan, WSDOT will work with both Winlock and Lewis County on a developer's agreement for future improvements on SR 505 in Winlock.</p>

AREA 6: Economic and Financial Planning

AREA DESCRIPTION

Area 6 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 6.1: Financial Planning

Subarea 6.2: Economic Forecasting and Analysis

SUBAREA 6.1 - Financial Planning

SUBAREA DESCRIPTION

To serve the needs of the Washington State Department of Transportation (WSDOT) and other state and local agencies by developing financial plans for transportation accounts, support debt issuances to fund capital projects and toll financing. This includes supporting the Office of the State Treasurer (OST) to issue debt and work with OST, toll division, capital programs and mega projects to ensure the department is in compliance with federal IRS regulations, Bond Resolutions and the Transportation Infrastructure Finance and Innovation Act (TIFIA) Loan. Financial planning is also responsible for maintaining financial plans and cash balances for transportation accounts. Additionally, financial planning develops, and updates financial models used to analyze various transportation revenue sources and uses.

FEDERAL MANDATE

[23 CFR 420.117](#)

OBJECTIVES

- Assist programs and mega projects with the development and analyzing financing options for projects. Provide financial support to the agency that includes educating program and project teams on the bond sale process, funds management (cash flow), financial plan (including asset management plans) and bond compliance. Support toll division with developing and reviewing the Traffic and Revenue forecasts/studies and toll facility financial plans. Toll facilities require more reporting and oversight because of extra complexity. Serves as the department's primary contact for debt and financial related questions.
- Develop and evaluate the department's 10-year financial plans, methodology and criteria for statewide transportation accounts. A financial plan is required as part of the department's budget submittal for transportation. Also, it informs the executive team on budget decisions.
- In the 2019-21 Biennium, the department supported the sale of over \$1 billion in transportation bond proceeds. This includes supporting the Office of State Treasurer in developing the bond sale documents and presentations, materials for the State Finance Committee and determines the bond proceed needs by analyzing cash flow and compliance documents.

CONTACT

Name	Phone Number	Work Unit
Nguyen Dang	360-705-7512	Budget & Financial Analysis Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	•	•	•
State	•	•	•
Local	•	•	•
Total	•	•	•
FTE Count	•	•	•

No SPR funds are used to fund this subarea.

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	September 2023 September 2024	As part of the agency budget request every September/October, WSDOT develops a 10-Year biennial financial plan used by the Department of Licensing, Department of Revenue, Office of the State Treasurer, State Legislative Transportation Committees, Office of Financial Management, Transportation Improvement Board, County Road Administration Board, local government agencies and other WSDOT divisions.
2	Aug/Sept 2023 Jan/Feb 2024	Support the Office of State Treasurer in developing bond sale documents and presentations, materials for the State Finance Committee and determine the bond proceed needs by analyzing cash flow and compliance documents to fund capital projects. These sales occur approximately every six months in Jan/Feb or Aug/Sept.
3	September 2023 November 2023 February 2024 June 2024 September 2024	Forecast WSDOT business related revenues and upload the revenue forecast to The Executive Information System (TEIS) used by the Office of Financial Management, State Legislature, Transportation Committees, and other state agencies. The Washington State Economic and Revenue Forecast Council determines the adoption dates.

AREA 6: Economic and Financial Planning

AREA DESCRIPTION

Area 6 contains descriptions, mandates, objectives, revenue and deliverables related to the following subareas:

Subarea 6.1: Financial Planning

Subarea 6.2: Economic Forecasting and Analysis

SUBAREA 6.2 - Economic Forecasting and Analysis

SUBAREA DESCRIPTION

This section creates unbiased economic and revenue forecasts for transportation. State law requires the Governor and Legislature to adopt a balanced budget and the first step in this process is having a realistic and unbiased long-term revenue forecast for all transportation revenues. This work helps not only Washington State Department of Transportation (WSDOT) management but also the Governor and Legislature.

FEDERAL MANDATE

[23 CFR 420.117](#)

OBJECTIVES

- Serve the needs of WSDOT and other state and local agencies by producing unbiased economic and revenue forecasts for transportation.
- Maintain databases and evaluate economic and demographic factors impacting transportation revenues to communicate the importance of transportation in our state and local economies.
- Develop and update econometric models used to forecast various transportation revenue sources to have as accurate a forecast for budgeting and long-range planning as possible. Interact with all agencies interested in transportation revenues and support economic and financial studies.
- Analyze state and national economic activities, policies, laws, and forecasts to assess impacts on transportation policies, plans and programs.
- Evaluate proposed state and federal legislative and financing alternatives for all modes of transportation.

CONTACT

Name	Phone Number	Work Unit
Amber Coulson	360-742-7534	Budget & Financial Analysis Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	•	•	•
State	•	•	•
Local	•	•	•
Total	•	•	•
FTE Count	•	•	•

No SPR funds are used to fund this subarea.

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Quarterly Transportation Revenue Forecast Council (TRFC) documents (Volumes I-III and twice a year Volume IV). Reporting quarterly to the Transportation Revenue Forecast Council.
2	September 2024	Quarterly forecast summary reports and detailed tables describing the forecast are produced, as well as presentations for WSDOT management and others to make presentations on the latest financial information. Reporting will be done four times a year with the last forecast being September 2024.
3	September 2024	Continuously update econometric models used in forecasting. Reporting will be done four times a year with the last forecast being September 2024.
4	September 2024	Every September we update the statewide vehicle miles traveled (VMT) forecast with the latest actuals and updated economic variables. Reporting will be done four times a year with the last forecast being in September 2024.
5	September 2024	Four times a year in February/March, June, September and November we create new monthly cash flow forecast and then tracked those monthly forecasts with actual revenue received. Reporting will be done four times a year with the last forecast being September 2024.

Number	Estimated Delivery	Deliverable Description
6	June 2025	Monthly cash flow analyses: fuel revenue, fuel revenue distribution, vehicle fees and distribution. Reporting is monthly.
7	June 2025	Legislative analyses and fiscal notes. Reporting will be annually.
8	June 2025	Analyze new federal and state legislation and new revenue proposals. Reporting will be done as needed.
9	June 2025	Quarterly Fuel and Vehicle Trends Reports. Reporting is quarterly.
10	September 2024	Forecast fuel prices and highway construction cost indices quarterly for setting budgets. Reporting will be done four times a year with the last forecast being in September 2024.
11	June 2025	Research and evaluate the long-term economic benefits of Selected Transportation Projects. Reporting will be done monthly.
12	June 2025	REMI-Transight contract maintenance for economic impact analysis software (updated annually).
13	June 2025	Train/educate employees on utilizing the Washington state REMI-Transight economic impact model for Washington state transportation.
14	September 2024	Conduct economic impact analysis and oversee cost benefit analysis for federal grants for highway projects. Reporting will be done twice a year.
15	June 2025	Special economic analyses and reports will be done monthly.
16	June 2025	Coordinate the results from various economic impact analysis and prepare summary reports and jobs multipliers for economic impacts monthly.

AREA 7: Statewide Transportation Improvement Program (STIP)

AREA DESCRIPTION

Area 7 contains descriptions, mandates, objectives, revenue, and deliverables related to the following subarea:

Subarea 7.1: WSDOT's Local Programs Division

SUBAREA 7.1 - WSDOT's Local Programs Division

SUBAREA DESCRIPTION

Washington State Department of Transportation's (WSDOT's) Local Programs (LP) Division develops and manages the Statewide Transportation Improvement Program (STIP). The STIP is a four-year, fiscally constrained prioritized multimodal transportation program of state, local, tribal, and public transportation (transit) projects, which includes highways, streets, roads, rail roads, transit-hubs, park-and-ride lots, bridges, sidewalks, bike lanes, ferry terminals, trails and safety projects funded with federal, state, tribal and local sources. The STIP is a calendar year document and is developed on an annual basis with monthly updates from January through October.

The STIP is developed from local, metropolitan planning organizations (MPOs), and regional transportation planning organizations (RTPOs) transportation improvement programs (TIPs). Projects are identified through state, metropolitan, regional, tribal, and local planning processes. An environment of community engagement is woven into each stage of the planning process merging public dialogue forums with practical solutions to deliver transportation projects that “fit” into the communities and augment their transportation needs.

Projects programmed in the STIP are the highest priority for the available funding, to preserve and improve the state's transportation network and achieving the national goals established in the Moving Ahead for Progress in the 21st Century Act (MAP-21) and continued through the enacted Infrastructure Investment and Jobs Act/Bipartisan Infrastructure Law (IIJA/BIL) for FFYs 2022-2026.

Only those projects programmed in the STIP can be authorized by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) to utilize federal funds. Once projects are approved in the STIP, agencies may request federal fund authorization of the project.

Finally, WSDOT must certify that the transportation planning process is addressing the major issues facing the state and its non-urbanized areas and is being conducted in accordance with all applicable requirements.

FEDERAL MANDATE

[23 CFR 450.218](#)

OBJECTIVES

- Develop, prepare, and submit the 2024-2027 and 2025-2028 STIP to FHWA and Federal Transportation Administration (FTA) for approval.
- After federal approval, continue to provide public access via the web: <https://wsdot.wa.gov/business-wsdot/support-local-programs/delivering-your-project/statewide-transportation-improvement-program-stip>.

CONTACT

Name	Phone Number	Work Unit
Stephanie Tax	360-705-7389	Local Programs/Program Management Office

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	•	•	•
State	•	•	•
Local	•	•	•
Total	•	•	•
FTE Count	•	•	•

No SPR funds are used to fund this subarea.

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	December 2023 December 2024	Develop, prepare, and submit the 2024-2027 and 2025-2028 STIP to FHWA and Federal Transit Administration (FTA) for approval each December.
2	June 2025	After federal approval, provide public access via the web: https://wsdot.wa.gov/business-wsdot/support-local-programs/delivering-your-project/statewide-transportation-improvement-program-stip .
3	June 2025	Continue to work with FHWA, Federal Transit Administration, Metropolitan Planning Organizations, Regional Transportation Planning Organizations, FTA, MPOs, RTPOs, and other partners in meeting the federal STIP requirements (fiscal constraint by year).
4	June 2025	Develop, prepare, and submit monthly amendments for the STIP as applicable throughout this time limit.
5	June 2025	Provide annual training, best practices, and on-call training for the web-based STIP.

Number	Estimated Delivery	Deliverable Description
6	June 2025	Continue to review and update the public involvement process, as applicable.
7	June 2025	Continue to review, engage, and coordinate on the research and proposals for inclusion of performance measures, as applicable.
8	June 2025	Provide on-call assistance and troubleshooting as issues arise with the program for all users.

AREA 8: Management and Administration

AREA DESCRIPTION

Area 8 contains descriptions, mandates, objectives, revenue, and deliverables related to the following subareas:

Subarea 8.1: Program Management

Subarea 8.2: Program Administration

Subarea 8.3: Downtown Seattle Office Lease and Administrative Support

SUBAREA 8.1 - Program Management

SUBAREA DESCRIPTION

The management and administration section of the State Planning & Research (SPR) covers planning functions for the Assistant Secretary's Office, Multimodal Planning & Data Division (MPDD) and Budget Support Office.

The Assistant Secretary's Office will provide for policy formulation and executive administration. Costs incurred to this item are salaries, benefits, travel expenses, materials, supplies, and other expense of the Assistant Secretary and executive assistant.

MPDD will provide for policy formulation and executive administration for the division. It performs policy, technical, and fiduciary oversight of planning and data activities. Additional management and support activities include budget final approvals and monitoring assistance, as well as financial systems services for the MPDD. Costs incurred to this item include salaries, benefits, travel expenses, materials, supplies, and other expenses of the director and administrative assistant. Also included are funds to support Transportation Data and GIS group management and administration and travel and training funds for MPDD staff.

The Program Analysis and Management Services (PAMS) Office prepares and manages the transportation planning and research program plan for Program T, which optimizes available revenue. This work provides support to the Multimodal Planning & Data Division and the Office of Research and Library Services in program development, accounting and financial management, budget support, work orders, contracts, and agreements.

FEDERAL MANDATE

[23 CFR Part 420](#)

OBJECTIVES

- Practical Solutions Development.
- 21-23 Planning Budget (Program T in state transportation budget) and SPR Work program monitoring.
- 23-25 Planning Budget (Program T in state transportation budget) and SPR Work Program final approval.
- Staff communications and workforce development.

CONTACT

Name	Phone Number	Work Unit
Norene Pen	360-570-2369	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	•	\$0	\$0
State	\$2,070,300	\$0	\$0
Local	•	\$0	\$0
Total	\$2,070,300	\$0	\$0
FTE Count	6.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	MPDD plays an important role in advancing the three goals for Washington State Department of Transportation (WSDOT's) Strategic Plan. Under the Assistant Secretary direction, associated work plans are updated and implemented on a continuous basis.
2	June 2025	Address emergent Practical Solution initiatives and planning data needs that may be identified during the biennium.
3	June 2025	Program T Budget and SPR work program monitoring begins with the new biennium and is addressed periodically throughout the two-year period. Development of the budget and SPR work program for the 2023-2025 biennium will likely begin in Fall 2022 and will be completed at the close of State Fiscal Year 2023.

AREA 8: Management and Administration

AREA DESCRIPTION

Area 8 contains descriptions, mandates, objectives, revenue, and deliverables related to the following subareas:

Subarea 8.1: Program Management

Subarea 8.2: Program Administration & Communications

Subarea 8.3: Downtown Seattle Office Lease and Administrative Support

SUBAREA 8.2 - Program Administration & Communications

SUBAREA DESCRIPTION

The transportation system plays a vital role in the economic vitality and quality of life of Washington state's travelers. The State Planning and Research (SPR) work program is a core function of the Multimodal Planning and Data Division (MPDD), which aims to improve transportation in the state by developing and managing the SPR work program, administering the transportation planning, data, and research budget, managing budget work orders for various offices, coordinating with other offices, and providing administrative support. This part of the SPR focuses on the administrative functions, communications, community engagement, prioritizing unfunded needs, as well as promoting workforce development, and diversity, equity, and inclusion, responsibilities, and goals of the SPR work program.

This subarea of the work program supports the agency's strategic plan and advances its goals to be an employer of choice and to provide transportation solutions that enhance the quality of life and economic vitality in the state. The work program for this subarea is responsible for administering the transportation planning, data, and research budget (Program T), as well as managing multiple budget work orders for over twenty offices across the state. The Program Administration & Communications (PAC) manager leading this subarea is responsible for approving Budget Change Requests (BCR) submitted by SPR funds recipients. The program administration function supports the overall efforts of the Multimodal Planning & Data Division by providing administrative support, coordination, collaboration, and communications with the Capital Program Development and Management Office (CPDM) and other SPR funds recipients to address SPR Work Program and budget-related issues.

Work in this area supports the agency's Diversity, Equity, and Inclusion (DEI) plan and goals, through leading and guiding inclusive community engagement across the agency, the development of a federally compliant Public Involvement Plan, leading innovative research projects, and supporting belonging by leading communications efforts, facilitating planning meetings, leading workforce development and mentorship programs, leading process improvement activities using Lean Six Sigma discipline, and other activities. The program also supports planning communications, including serving as liaison with the Communications Division, web work, document and graphic support, messaging, and other related communication tasks.

The work program's goals for this subarea include a continuation and enhancement of previous work to prioritize training, guidance, tools, and data needs and support decision making. A consistent and searchable repository for planning studies is also part of the goals to track and share information and resources.

Deliverables include developing shared platforms to allow multiple different customers to access, edit, filter, search and view the list of unfunded needs and planning studies.

This work supports the agency's strategic plan goal of Workforce Development, builds the strength and resilience of the workforce, and ensures that planners have a shared set of skills. The program also develops new staff, creates a modern workforce, and advances the agency goal to support our workforce and to be an employer of choice. This work will continue and improve upon the work from the previous biennium related to the Planning & Data Training Academy and the mentorship program.

FEDERAL MANDATES

[23 CFR Part 420](#)

[23 CFR 450.208](#)

[23 CFR 450.210](#)

OBJECTIVES

- Develop the State Planning and Research (SPR) biennial work program.
- Prepare federally required SPR Annual Report.
- Administer SPR funding and transportation planning, data, and research budget (Program T)
- Manage multiple budget work orders for over twenty offices across the state.
- Prioritize unfunded needs and support decision making.
- Approve Budget Change Requests (BCR) submitted by SPR funds recipients.
- Coordinate, collaborate, and communicate with the Capital Program Development and Management Office (CPDM) and other SPR funds recipients to address budget-related issues.
- Provide administrative support to the Multimodal Planning & Data Division
- Create a consistent and searchable repository for planning studies to track and share information and resources.
- Develop shared platforms to allow multiple different customers to access, edit, filter, search, and view the list of unfunded needs and planning studies.
- Support the agency's strategic plan goal of Workforce Development related to planning and data disciplines.
- Advance the agency goal to be an employer of choice.
- Lead and guide inclusive community engagement across the state.
- Develop a Community Engagement Plan to support the agency's Diversity, Equity, and Inclusion (DEI) goal.
- Support belonging through communications and facilitating planning meetings and other methods.
- Serve as liaison with the Communications Division, web work, document and graphic support, messaging, and other related communication tasks to support planning communications.

- Develop and implement a community outreach, education, and technical assistance program for overburdened communities and their community partners to develop community-centered carbon reduction strategies.

CONTACT

Name	Phone Number	Work Unit
Faris Al-Memar	360-705-7956	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	•	\$0	\$0
State	\$5,176,800	\$0	\$0
Local	•	\$0	\$0
Total	\$5,176,800	\$0	\$0
FTE Count	8.30	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	August 2023	Collaborate with Capital Program Development and Management/Program Analysis and Management team to identify and assign work orders to all Program T. This includes on-going coordination regarding any changes to existing work orders or adding new ones throughout the biennium.
2	August 2024 August 2025	Coordinate, prepare, and submit the 2023-25 SPR Annual Reports to Federal Highway Administration/Federal Transit Administration (FHWA/FTA). Submission dates are determined by FHWA.

Number	Estimated Delivery	Deliverable Description
3	July 2025	Track the SPR work program budget regularly and report to FHWA/FTA annually on status of work activities. Tracking the budget and addressing any issues that may arise during the biennium is done on an ongoing basis and in close coordination with Capital Program Development and Management/Program Analysis and Management team. Reporting to FHWA/FTA takes place throughout the biennium through regularly scheduled meetings as well as SPR Annual Reports.
4	June 2025	Manage budget change requests and work with over twenty offices across the state to resolve budget issues related to over/under spending.
5	June 2025	Organize, schedule, program, develop agendas and lead, in coordination with MPDD's managers, monthly safety and strategic plan division meetings.
6	June 2025	Coordinate with Program Analysis and Management (PAMS) regarding Program T budget status including comparison of planned versus actual spending. This takes place on an ongoing meeting through regularly scheduled monthly meetings as well as other communications as issues arise.
7	June 2025	Coordinate, meet, and provide quarterly updates to FHWA regarding progress on SPR deliverables as well as sharing information about other planning, data, and research activities and topics.
8	June 2025	Coordinate and collaborate with twenty offices across the state to prepare the 2025-27 SPR Work Program and submit to FHWA/FTA for approval.
9	June 2025	Support Multimodal Planning & Data Division (MPDD) meetings, gatherings and events including a weekly division huddle, a monthly diversity, equity, and inclusion (DEI) implementation team, monthly community of practice meetings, an annual conference and an annual all-staff recognition event.
10	June 2025	Coordinate with WSDOT's Central Budget Office regarding Program T budget and budget decision packages. This takes place throughout the biennium following the State's budget development process and timeline.

Number	Estimated Delivery	Deliverable Description
11	June 2025	Manage planning, communications, and administrative staff in support of MPDD’s activities across the state.
12	July 2024	Develop a preliminary, simple Excel worksheet that lists basic information from past and current planning studies. Expand the preliminary list into a shared platform for planning information such as planning study inventory and recommendations. This includes coordinating with the WSDOT Library, Information Technology, and Planning and Data Managers to evaluate options, review past and current plans and subarea studies, and compiling and sharing a data/information repository. This may also include developing a system application and training.
13	September 2024	Evaluate, improve, and optimize the existing process for prioritization, selection, and funding of tools, data, training, and guidance with a focus on speed, efficiency, and removing waste in time and other resources. Develop a shared platform for viewing, updating, and prioritizing unfunded needs. Meet with potential users of the shared platform to identify remaining needs and adding new unfunded needs. Demonstrate use of the new system with potential users and provide training as necessary.
14	June 2025	Support Planning Communications including website development, content management, surveys, graphics, design, messaging, and document accessibility. Coordinate, develop and maintain MPDD’s strategic plan, table of organization, and career path folio. Serve as primary liaison with Headquarters (HQ) and Region Graphic and Communications staff.
15	May 2025	Implement Agency Diversity, Equity, and Inclusion (DEI) Plan in support of the DEI Strategic Plan Goal Area. Under the executive sponsorship of the Assistant Director, organize and lead monthly division DEI Implementation meetings.
16	June 2025	Support Community Engagement efforts including updating and implementing the Community Engagement Plan, participating in agency HEAL Act and Interagency working groups, updating FHWA, and developing and sharing community engagement training and resources.

Number	Estimated Delivery	Deliverable Description
17	June 2025	Organize, develop/prepare content, lead, conduct, and facilitate at least twenty-four monthly training sessions as part of the Transportation Multimodal Planning & Data Academy. This training should be consistent with the 2023-25 SPR work program. Instructions will be conducted by subject matter experts as well as Program Administration & Communications training staff. These sessions will focus on instructing WSDOT's staff and partners on WSDOT's transportation planning, data, and research activities, programs, policies, procedures, practices, products, and services. The primary audience for these sessions includes planning and data specialists but everyone else is welcome to attend.
18	July 2023	Organize, facilitate, evaluate, and implement the planning and data mentorship program.
19	June 2024 June 2025	Develop and implement a community outreach, education, and technical assistance program for overburdened communities and their community partners to develop community-centered carbon reduction strategies to make meaningful impacts in a community, and to provide assistance in gaining access to available funding to implement these strategies, where applicable. These reports dates are requested by the Legislature.
20	October 2024	Support agency Title VI compliance including developing a tracking tool for Title VI, American Disabilities Act (ADA), and Environment Justice (EJ) "touch points" such as documents translated or web accessibility and providing a report for the agency's annual Title VI Report.
21	June 2025	In collaboration with WSDOT's Research office and other groups, lead the technical and policy aspects of research projects related to planning.

AREA 8: Management and Administration

AREA DESCRIPTION

Area 8 contains descriptions, mandates, objectives, revenue, and deliverables related to the following subareas:

Subarea 8.1: Program Management

Subarea 8.2: Program Administration

Subarea 8.3: Downtown Seattle Office Lease and Administrative Support

SUBAREA 8.3 - Downtown Seattle Office Lease and Administrative Support

SUBAREA DESCRIPTION

This subarea pays for a share of expenses associated with leasing office space in Seattle. The space will be shared by Multimodal Planning & Data Division (MPDD), Rail, Freight and Ports, Urban Mobility Access (UMA), and other Washington State Department of Transportation (WSDOT) offices. Additionally, this subarea covers the costs associated with providing administrative support to the above offices.

FEDERAL MANDATES

[23 CFR Part 420](#)

OBJECTIVES

- This subarea pays for a share of expenses associated with leasing office space in Seattle. The space will be shared by MPDD, Rail, Freight and Ports, Urban Mobility Access (UMA), and other WSDOT offices. Additionally, this subarea covers the costs associated with providing administrative support to the above offices.

CONTACT

Name	Phone Number	Work Unit
Norene Pen	360-570-2369	Multimodal Planning & Data Division

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	•	\$0	\$0
State	\$211,200	\$0	\$0
Local	•	\$0	\$0
Total	\$211,200	\$0	\$0
FTE Count	0.00	0.00	0.00

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	On-time lease payments.
2	June 2025	Provide ongoing administrative support.

PART 2: RESEARCH

DESCRIPTION

Washington State Department of Transportation's (WSDOT's) Research and Library Services (RLS) is now part of the Transportation Safety and Systems Analysis Division (TSSA) at WSDOT. The TSSA mission is to "advance WSDOT's strategic objectives through rigorous analysis, quality information, and effective collaboration."

Research & Library Services (RLS) develops and manages innovative, specialized research studies to produce data to help inform strategic decisions, adopt new smart technologies, and create better products and work practices. Library Services provides accurate, credible information about transportation and related topics for agency employees, researchers and the public from the library's print and digital collections. Additionally, the Library belongs to a global network of partner libraries, which extends access to other specialized and technical sources requested by agency.

OBJECTIVES

- Develop ideas, fund, and manage research projects that provide innovative and practical solutions to help advance WSDOT's practices and policies.
- Identify and connect with experts to perform research that yields a return on investment of implementable ideas, products, and best practices.
- Acquire, organize, make accessible and steward current and historical library resources that support the work of agency staff and contractors.
- Create and curate specialized digital and print collections that address customer information needs and support research and technology transfer.
- Publicize research findings via our Webinar Wednesday series featuring subject matter experts, which is open to WSDOT employees, local agency staff and others.
- Answer reference and research queries and perform literature searches that provide decision makers with critical information and help researchers to determine the state of the practice as they develop research proposals.
- Coordinate agency participation in national research and library programs including Transportation Pooled Fund studies.
- Disseminate final research reports and topical and timely news alerts to hundreds of subscribers within and beyond our agency.
- Represent WSDOT in partnerships with Federal Highways, the American Association of State Highway & Transportation Officials, the Transportation Research Board, University Transportation Centers, universities and colleges, and others to fund and conduct research in areas of common interest.
- RLS staff solicit and document feedback that provides clarification, transparency, accountability, and supports the linkage between planning and programming for community engagement.

Research Connections to Federal Planning Factors and Statewide Transportation System Goals

Federal Planning Factors

- Support the economic vitality of the United States, the states, non-metropolitan areas, metropolitan areas, 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 accessibility and mobility of people and freight.
- Provide FHWA webinars.

- 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, throughout the State, for people and freight.
- Promote efficient system management and operation.
- Emphasize the preservation of the existing transportation system.

Strategic Plan Values

- Safety

SUMMARY REVENUES

Revenue Source	Baseline	Year 1	Year 2
Federal	\$10,475,200	\$0	\$0
State	\$1,215,600	\$0	\$0
Local	\$400,000	\$0	\$0
Total	\$12,090,800	\$0	\$0
FTE Count	13.00	0.00	0.00

PART 2 RESEARCH AREAS

PART DESCRIPTION

Part 2 contains descriptions, mandates, objectives, revenue, and deliverables related to the following areas:

- Area 1A: Program and Research Management
- Area 1B: Library Services
- Area 2: Research Projects
- Area 3: Strategic Highway Research Program (SHRP2), Every Day Counts (EDC), State Transportation Innovation Council (STC), and Accelerated Innovation Deployment
- Area 4A: Transportation Pooled Fund (TPF) Projects
- Area 4B: Transportation Pooled Fund (TPF) Details
- Area 5: National Research Programs

SUBAREA 1A - Program & Research Management

SUBAREA DESCRIPTION & OBJECTIVES

Research project selection for our State Planning & Research (SPR) program will begin in the spring of 2021. Projects designated for funding can begin after July 1, 2023, once the new Transportation Budget for 2021-23 is approved by the Governor.

Applied Research – This research addresses the department’s high priority research needs and typically uses a consultant or university to perform research in conjunction with a Washington State Department of Transportation (WSDOT) Subject Matter Expert (SME) and/or Technical Advisory Committee. The maximum project amount will be \$200,000 and the total set aside is \$1,200,000 for this category.

Innovation – this category is our innovative category. This category explores more creative approaches, opportunistic or emergent research ideas and innovations that address department needs. These ideas may have a higher risk but promise a significant return on investment or would bring about transformational or systemic change, if successfully deployed. The total set aside is \$600,000 for the Fiscal Year (FY) 2023-25.

Quick Response (QR) Research – this category addresses high priority, opportunistic, or emergent research needs as they arise outside of the normal research selection schedule. The maximum project amount is \$50,000 and \$700,000 will be available in 2023-25.

Other fund sources can supplement the SPR funds to match the scope of a project. For example, a project request in the Quick Response category asks for \$50,000 and has secured \$15,000 from another source so the total project is now \$65,000 when you combine the two funding sources.

FEDERAL MANDATES

[23 CFR Part 420, Subpart B](#)

[23 CFR 450-208](#)

CONTACT

Name	Phone Number	Work Unit
Anne Freeman	360-705-7945	Transportation Safety and Systems Analysis Division/ Research and Library Services

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Increase resources for research, library, and technology/knowledge transfer activities by exploring National Cooperative Highway Research Program, Accelerated Innovation Deployment, Everyday Counts, Washington State Transportation Innovation Council (NCHRP, AID, EDC, and WASTIC) and other funding opportunities.
2	June 2025	Efficiently execute with full compliance all agreements, contracts, task orders and other administrative requirements in the conduct of research.

Number	Estimated Delivery	Deliverable Description
3	June 2025	Administer research funding for ongoing and new SPR projects. Evaluate project requests for QR funding and assess match fund requests from university transportation centers.
4	June 2025	Continue support for client-sponsored research through contracting, study design and knowledge transfer activities.
5	June 2025	Participate in peer exchanges with other states to broaden range of options for modernizing research program activities.
6	June 2025	Participate in the Washington State Transportation Innovation Council (WASTIC) to seek ideas and innovative solutions to explore and share with other jurisdictions.
7	June 2025	Continue to develop and deploy technology and knowledge transfer activities to ensure implementation of research results and accessibility of information by diverse users.
8	June 2025	Develop and implement a research communication program that targets audiences using diverse methods, including internet, webinars, training, events, electronic documents, and print media.
9	June 2025	Continue to review and update WSDOT Research Manual Procedures as needed.
10	June 2025	Begin pre-planning for the mandatory (every) 5 years Peer Exchange this biennium (2023-2025); Next Peer Exchange will need to be programmed for 2026.
11	June 2025	Participate in Federal Highway Administration, American Association of State Highway and Transportation (FHWA, AASHTO) Research Advisory Board activities (Including Value of Research Task Force Co-Chairperson and Region 4 Chairperson) and the Innovation Community of Practice.
12	June 2025	Assist WSDOT's with the Strategic Plan refresh.
13	June 2025	Assist WSDOT's Transportation Safety and Systems Analysis Division with the agency's Enterprise Risk Management Plan.
14	June 2025	Participate in Transportation Research Board (TRB) Research, Innovation & Implementation Management Committee (AJE35).

PART 2: RESEARCH

PART DESCRIPTION

Part 2 contains descriptions, mandates, objectives, revenue, and deliverables related to the following areas:

- Area 1A: Program and Research Management
- Area 1B: Library Services
- Area 2: Research Projects
- Area 3: Strategic Highway Research Program (SHRP2), Every Day Counts (EDC), State Transportation Innovation Council (STC), and Accelerated Innovation Deployment
- Area 4A: Transportation Pooled Fund (TPF) Projects
- Area 4B: Transportation Pooled Fund (TPF) Details
- Area 5: National Research Programs

SUBAREA 1B - Library Services

SUBAREA DESCRIPTION & OBJECTIVES

Library Services support Washington State Department of Transportations (WSDOT's) workforce by disseminating information related to the many disciplines involved in operating and maintaining our state transportation system. Library Services directly supports the Research Program in many ways, such as: Partnering to host Webinar Wednesdays to publicize research results, working with Research Managers to publish research reports, and by conducting literature searches required as part of research project proposals submitted for funding.

The Library's Five-Year Strategic Plan was implemented in 2018 and guides efforts to deliver exemplary service and relevant information resources. In 2021, the mid-point of our Strategic Plan, we made revisions to the plan to reflect how library operations have adapted to new conditions during the pandemic. In 2023, the Strategic Plan will be updated with goals and priorities to continue to work toward delivering library services at the highest level possible in a hybrid work environment.

FEDERAL MANDATES

[23 CFR Part 420, Subpart B](#)

[23 CFR 450.208](#)

CONTACT

Name	Phone Number	Work Unit
Anne Freeman	360-705-7945	Transportation Safety and Systems Analysis Division/ Research and Library Services

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	Efficiently execute with full compliance all contracts and other administrative requirements supporting the delivery of library services.
2	June 2025	Establish a quarterly schedule of meetings this biennium for all agency librarians to share information and ideas on how to collaborate more fully to improve library services and dissemination of information throughout the agency.
3	June 2025	Per the Library Strategic Plan, develop a library training program that targets audiences using diverse methods, including intranet/internet articles, live and recorded webinars, in-person training, and other means to increase employees' awareness of library resources and how to access them, including effective online search techniques.
4	June 2025	Per Library Strategic Plan focus area, support agency initiatives around knowledge and information management: Partner with agency's Knowledge Strategist and participate in cross-agency teams working to increase organization of and access to internal data and information sources.
5	June 2025	Participate in peer exchanges with other states, and other forums at the national level, as feasible, to learn of options for modernizing library services, innovative ways to increase collaboration with researchers and how to help develop more effective knowledge and technology transfer within our agency.
6	June 2025	Continue dissemination of research results, including distribution of WSDOT research reports that are accessible to diverse users.
7	June 2025	Collaborate with the WSDOT Technology Transfer Manager to produce Webinar Wednesdays, a bimonthly webinar series highlighting successful research projects.

PART 2: RESEARCH

PART DESCRIPTION

Part 2 contains descriptions, mandates, objectives, revenue, and deliverables related to the following areas:

- Area 1A: Program and Research Management
- Area 1B: Library Services
- Area 2: Research Projects
- Area 3: Strategic Highway Research Program (SHRP2), Every Day Counts (EDC), State Transportation Innovation Council (STC), and Accelerated Innovation Deployment
- Area 4A: Transportation Pooled Fund (TPF) Projects
- Area 4B: Transportation Pooled Fund (TPF) Details
- Area 5: National Research Programs

SUBAREA 2 - Research Projects

SUBAREA DESCRIPTION & OBJECTIVES

Research project selection for our State Planning & Research (SPR) program will begin in the spring of 2023. Projects designated for funding can begin after July 1, 2023, once the new Transportation Budget for 2023-25 is approved by the Governor.

Applied Research – This research addresses the department’s high priority research needs and typically uses a consultant or university to perform research in conjunction with a WSDOT Subject Matter Expert (SME) and/or Technical Advisory Committee. The maximum project amount will be \$200,000 and the total set aside is \$1,200,000 for this category.

Innovation – this category explores more creative approaches, opportunistic or emergent research ideas and innovations that address department needs. These ideas may have a higher risk but promise a significant return on investment or would bring about transformational or systemic change, if successfully deployed. Projects could include developing new guidance, new methods, standards/specifications and/or deploying new technology. The total set aside is \$600,000 for the Fiscal Year (FY) 2023-25.

Quick Response (QR) Research – this category addresses high priority, opportunistic, or emergent research needs as they arise outside of the normal research selection schedule. The maximum project amount is \$50,000 and \$700,000 will be available in 2023-25.

Other fund sources can supplement the SPR funds so a project can be larger. For example, a project request in the Quick Response category asks for \$50,000 and has secured \$15,000 from another source so the total project is now \$65,000 when you combine the two funding sources.

Other fund sources can supplement the SPR funds so a project can be larger to match the scope of a project. For example, a project request in the Quick Response category asks for \$50,000 and has secured \$15,000 from another source so the total project is now \$65,000 when you combine the two funding sources.

FEDERAL MANDATES

[23 CFR Part 420, Subpart B](#)

[23 CFR 450-208](#)

CONTACT

Name	Phone Number	Work Unit
Anne Freeman	360-705-7945	Transportation Safety and Systems Analysis Division/ Research and Library Services

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	October 2023	<p>Assessing Information Needs for Multimodal System Analysis & Evaluation \$250,000</p> <p>The objective of the research is to assess the current information and information decision-making tools owned by WSDOT to determine what multimodal information is available and what information needs to be collected to support performance-based decisions for multimodal facilities from planning through operations.</p>
2	July 2023	<p>Real-Time Truck Parking Information Integration, Visualization and Prediction \$112,000 (\$55K SPR - B Funds + \$ 57K Traffic Office Funds)</p> <p>The goal of the research is to provide real-time truck parking information and predicted short-term truck parking space availabilities to truck drivers via web service as well as a mobile application. The parking availability will be predicted by using comprehensive historical trucking parking space data. To assess the truck parking detection accuracy, extra parking detection roadway sticker or other devices will be installed near the tested parking slots.</p>
3	July 2023	<p>WSDOT Training Development: Creating an Inclusive and Dynamic Framework for Assessing, Training, and Tracking \$186,058 (also using funds from Environmental Services Office)</p> <p>This project is a collaborative approach between the University of Maryland, subcontractors, WSDOT staff, and other universities (to be identified). The project includes development and iterative review by both trainers across WSDOT and subject matter experts in the areas of Fish Passage and Traffic Operations. Using a multidisciplinary approach and engagement, the objective of this research is to innovatively develop the following: Phase I – General Agency-Wide Training Guidance; Phase II – Pilot Agency-Wide Training Guidance in Two Subject Areas; Phase III – Integrating Technical Training into the Agency for Lasting Benefits.</p>
4	September 2023	<p>Enhancing the Stability of Simulated Streambeds in Stream Simulation Culverts using Natural Organic Matter to promote Fish Passage \$199,212</p> <p>This research project aims to provide additional guidance on the construction of water crossings (WCs) to promote fish passage. Present Washington Department of Fish and Wildlife (WDFW) and other guidance on the construction of the channel is limited to the use of coarse bands of granular material to stabilize the channel within the WC and this excludes a wide range of natural material that may also be able to provide stabilization. Laboratory experiments will be conducted in a large flume to determine how best to incorporate natural material like logs and root mats into WC design to increase resilience and reduce costs of both installation and maintenance.</p>

Number	Estimated Delivery	Deliverable Description
5	June 2024	<p>Safety of Long Girders During Handling and Transportation: Lateral Stability and Cracking \$153,000</p> <ul style="list-style-type: none"> Develop an analysis method for girder lateral stability that accounts for torsional deformations, lateral deflection, vertical deflection, and rigid body roll, and to use this tool to evaluate the broad spectrum of problems associated with lateral stability. Investigate the role of cracking in reducing the girder stiffness, and therefore worsening the instability condition.
6	September 2023	<p>The Olympic Cougar Project \$3,200</p> <p>The Olympic Cougar Project is led by Mark El broch of Panthera, a global cat conservation organization, and Kim Sager-Fradkin of the Lower Elwha Klallam Tribe. Other members include the Jamestown S’Klallam Tribe, Makah Tribe, Port Gamble S’Klallam Tribe, Quinault Indian Nation, Skokomish Indian Tribe, and WSDOT. We are requesting \$3,200 to purchase 15 Browning wildlife cameras and associated equipment, such as security enclosures and locks, to continue this research.</p>
7	June 2025	<p>Transportation Systems Management and Operations (TSMO) Multimodal Learning Lab \$50,000</p> <p>This project is a collaborative effort between Active Transportation, Freight, Urban Mobility, and Transportation Operations to support the development of learning materials for WSDOT regional multimodal learning labs. Specifically, the funding will support the development of a strategic work plan that guides these trainings including the development of engaging learning materials for the virtual environment, investigating existing regional practices and processes, and identifying specific hands-on materials to support multimodal-TSMO problem solving for each of the WSDOT regions.</p>
8	December 2023	<p>Guidance & Methods for Transitioning Written Reports to Digital Interactive Publications \$50,000</p> <p>This quick response project will identify the methods, best practices, and guidance for developing interactive and engaging online reports and visualizations through three primary areas: 1) Guidance to develop and write reports for interactive online spaces; 2) Guidance to ensure Section 508 compliance for accessibility for dashboards and interactive online spaces; 3) Guidance to curate a digital archive for public record and disclosure.</p>
9	December 2023	<p>Equity in Planning \$100,000 \$128,968</p> <p>A paper that outlines strategies for incorporating equity into WSDOT transportation planning recommendations. A summary of collaboratively developed transportation related “leading indicators”. Performance measurements or maturity model for these indicators. A methodology document, an excel database, a transparent, buildable tool built in WSDOT Geographic Information Systems (GIS) platform, and GIS maps relative to corridors in environmental justice communities.</p>

Number	Estimated Delivery	Deliverable Description
10	March 2024	<p>Computer Vision for Automated Traffic Sign Detection & Data Inventory \$100,000</p> <p>The research aims to propose a Machine Learning (ML) based computer vision approach to realize cost-effective traffic sign detection using State Route Web Tool and Google Street and to build a pipeline for automated traffic sign data collection and classification. The research will also build a sample data inventory for traffic signs extracted from the open imagery along with the associated information.</p>
11	June 2025	<p>Evaluation of Closed Crossing Tactile Indicators \$50,789</p> <p>The research will utilize the current WSDOT proof of concept tactile surface treatment pilot location to develop a set of guidelines that can be used to determine the frequency of the application, recommend the type of materials that should be used. Another desirable objective will be to establish a method for determining the maximum service life for different types of material markings placed on different types of pavement surfaces.</p>
12	November 2023	<p>Development of a rapid, field deployable SHERLOCK assay for Chinook Salmon \$44,937</p> <p>University of California, Davis will provide WSDOT a protocol for performing SHERLOCK on an Axxin portable fluorescence reader with suggestions for optimizing the assay to be fully field deployable. We will also provide a report describing the field DNA extraction protocols we test and their potential for further optimization for eDNA extraction.</p>
13	December 2023	<p>WSDOT Smart and Cooperative Truck Parking Monitoring and Calibration System Empowered by Machine Learning \$100,000</p> <p>The primary goal of this research is to create a truck parking monitoring and calibration system empowered by machine learning, for the in/out truck parking counting system.</p>

Number	Estimated Delivery	Deliverable Description
14	June 2025	<p>Knowledge Management \$388,800</p> <ul style="list-style-type: none"> ● Develop a plan for the Practical Solutions Accelerated Innovation Deployment (AID) project to support continued evolution/deployment. Product: An improvement roadmap and development plan. ● Develop a knowledge management information database to disseminate mentoring and succession integration. Product: A network infrastructure platform to the analyze, capture and disseminate information. ● Clarify roles for multimodal decisions throughout the Practical Solutions lifecycle. Product: A decision framework including responsibilities. ● Establish and conduct quantitative research which helps WSDOT understand the threats and opportunities that exist towards achieving the agency’s strategic goals. Product: Governors Annual Enterprise Risk management report. ● Conduct research and develop a white paper on decision frameworks and contextual uses. Product: Recommendations for policy and procedure related to decision-making. ● Within available resources, continue development of the manual modernization project to help facilitate findability and use of information. Product: Continued refinement of the manual pilot site. ● Establish and staff a data governance group to support business objectives and data integration. Product: Policy guidance, a forum for developing practices, and improved quality of information for analysis and decision-making. ● Develop knowledge domains to improve the governance of data and information used to support decision-making. Pilot on a selected business domain. Product: Recommended actions to align and streamline practices, and update data and information needed to support decisions. ● Conduct research and develop a white paper on using a system thinking approach to support organizational management and development and pilot implementation of the practice. Product: Outreach material and case study to guide further development. ● Capture institutional knowledge and develop an action plan on research infrastructure to identify and retain transportation employee expertise. Product: Development of policies and procedures through quantitative research methodology.

Number	Estimated Delivery	Deliverable Description
15	July 2023	<p>Equity Analysis in Tolling \$200,000</p> <p>This project is intended to provide additional insight into the equity of WSDOT's toll facilities. The outcomes from this project will serve as the basis for evaluating use of the facility, and the implications of that use on the equity of toll facilities. The project is designed to (1) provide WSDOT with a better understanding of the current use of the department's toll facilities; (2) examine how the combination of household income and tolling effect the use of state roadways, (3) provide an understanding of how benefits and costs associated with toll facilities are currently being distributed; and 4) provide a baseline of use against which changes in those attributes can be measured against changing economic conditions (e.g., COVID related changes in overall traffic levels) or policy.</p>
16	March 2024	<p>Automated Traffic Sign Recognition Using Computer Vision and Deep Learning \$100,000</p> <p>The primary goal of this research is creating a sample traffic data inventory in Washington (WA), from both freeways and local streets, and developing a pipeline of automated traffic sign data collection and identification based on open street images as data sources and vision-based deep learning identification methods. The raw traffic sign data comes from public street images, e.g., Google Street and State Route Web Tool.</p>
17	December 2023	<p>Estimating Bicyclist & Pedestrian Volumes \$90,000</p> <p>Building upon the methods developed in the previous study by Portland State University and University of Texas (PSU and UTA), this study has two main objectives. First, this study will develop a statewide model to estimate bicycle volumes for Washington using observed counts (permanent and short duration) and Strava data. The research team will also attempt to use bike share data (if available) and Streetlight data. Second, the research team will apply the previously developed pooled model from the National Institute of Technology (NITC) study to derive bicycle volume estimates and compare against those available from the statewide model.</p>
18	June 2025	<p>Applying the Safe System Approach in Decision-Making \$200,000</p> <p>This research project is anticipated to refine the decision-making processes and produce tools/guidance that will enable WSDOT to reduce fatal and serious injury crashes. The Safe System approach addresses the safety of all road users, including those who walk, bike, drive, and travel by other modes.</p>
19	June 2025	<p>Identification of the Optimal Approach to Maintain Complete Statewide Sidewalk Data \$200,000</p> <p>This research will organize different overlapping data research efforts and identify a feasible approach to streamline agency activities while producing needed data. Desk research and interviews will systematically identify options, to be reviewed and considered by staff assigned to the project, other WSDOT staff stakeholders, and an advisory committee including stakeholders outside WSDOT.</p>

Number	Estimated Delivery	Deliverable Description
20	June 2025	<p>Improving Mobility for Disadvantaged Communities through Innovative Transit Approaches \$200,000</p> <p>Improving transportation equity is one of the greatest challenges facing WSDOT. Driving is essential for many Washingtonians, but a car is unaffordable for many of them, mobility and accessibility in certain communities is extremely low. The results of this research will provide transit agencies with a method for estimating costs of expanding service in comparison to utilizing on-demand mobility service(s).</p>
21	June 2025	<p>Development of Rapid, Cement-Based Repair Materials for Washington Concrete Pavement Panels \$200,000</p> <p>WSDOT faces significant challenges when needing to perform repairs & maintenance of concrete pavement panels. The focus of this proposed research is to evaluate potential approaches and to provide recommendations on the most efficient, economical, and durable repair materials and methodologies.</p>
22	June 2025	<p>Transportation Infrastructure Sustainability and Carbon Reduction \$200,000</p> <p>To build more sustainable transportation infrastructure, WSDOT needs to inventory greenhouse gas (GHG) emissions from its constructed infrastructure, develop a plan to reduce those emissions, and implement that plan to achieve real emissions reduction. This project will develop a materials and construction method to implement sustainability and carbon reduction for WSDOT in transportation infrastructure construction.</p>
23	June 2025	<p>Cost-effective Traffic & Roadway Data Collection using Edge-Based Comprehensive Sensing Systems \$200,000</p> <p>Quality data is critical for transportation infrastructure planning, system operations and performance measurement, safety, maintenance, analysis, and informed decisions. Unbalanced data coverage may lead to biased decisions and thus result in inequity in transportation. WSDOT needs an innovative solution that is cost-effective, meets WSDOT accuracy requirements, and easy to deploy.</p>
24	June 2025	<p>Analysis of Lane Departure Crashes leveraging Advanced Driver Assistive Systems (ADAS) Machine Sensing Data \$100,000</p> <p>The research will provide a more systematic and thorough analysis of lane departure crashes. The result will help to identify vulnerable spots in current roadway systems and prioritize safety improvements to reduce lane departure risks.</p>
25	June 2025	<p>Developing a Sustainable and High-Early Strength Concrete for Rapid Bridge Deck Overlay Preservation \$100,000</p> <p>This project will investigate the use of an alternative and innovative high-early strength cement for concrete bridge overlays. This research aims to produce a final product/specification that will ultimately bring a systematic change to how bridge deck overlay can be successfully implemented across the state of Washington.</p>

Number	Estimated Delivery	Deliverable Description
26	June 2025	<p>Log stability with root wads to reduce design costs and enhance biological benefits in fish passage projects \$100,000</p> <p>The placement of large wood is required for all fish passage and stream restoration projects. WSDOT needs to revise, augment, or replace Rafferty (2018) to better capture the physical process that controls the movement of large woody material (LWM) with rootwads.</p>
27	June 2025	<p>WITNESS: Washington Integrated Transportation Networks Evaluation System & Security \$100,000</p> <p>Using machine learning and artificial intelligence to evaluate the data quality and reliability of 3rd-party crowdsourced data in support of WSDOT's Virtual Coordination Center (VCC) for situational awareness and TSMO decision making.</p>
28	June 2025	<p>Fiber Reinforced Polymer (FRP) Retrofit of Bridge Columns and Footings \$100,000</p> <p>WSDOT currently uses steel jackets for retrofit of seismically deficient bridge columns and does not have a standardized retrofit technique for the seismically deficient footings. This research will result in a set of design guidelines that WSDOT may use to implement FRP retrofit of seismically deficient bridge columns and footings.</p>
29	June 2025	<p>Improve Scour Prediction Methodology for Fish Passage \$100,000</p> <p>By better understanding the scour susceptibility of Intermediate Geomaterials (IGMs), WSDOT will be able to more accurately assess scour risk for the design of structure foundations and walls. Currently, WSDOT makes conservative assumptions due to uncertainty around scour, which ultimately leads to higher project costs. The research will use theoretical and experimental procedures to evaluate the susceptibility of erosion in a variety of IGMs. The research will use this information to estimate scour for some WSDOT project examples. The results will provide guidance to designers on how to estimate scour in IGMs.</p>

CLIENT SPONSORED RESEARCH (CSR)

Some WSDOT Programs, Divisions, and Project Offices conduct research and experimental activities in addition to research funded by the SPR program. These projects are administered by the Research Office upon request, are referred to as CSR projects, and can be funded by various federal, state, or local funding sources.

Number	Estimated Delivery	Deliverable Description
30	November 2023	<p>I-90 Snoqualmie Pass East Low-Mobility Wildlife Monitoring \$1,086,221</p> <p>This is a long-term research project with WSDOT's South Central Regional Office and Central Washington University that is doing pre, during and post monitoring of fish, amphibians, and small mammals through new crossing structures (large culverts & bridges) that are being created as part of the large I-90 Snoqualmie Pass construction project. WSDOT Research & Library Services is assisting with the contracting of the project for South Central Region.</p>

Number	Estimated Delivery	Deliverable Description
31	December 2023	<p>Deployment of the Washington State Virtual Environment for Multimodal Integrated Corridor Management \$4,421,361</p> <p>This 3-year project is funding the development and deployment of a Virtual Coordination Center (VCC) for transportation incident management issues faced by the Seattle-area. The project will develop the VCC capabilities, a concept of operations and a virtual collaborative working environment to support the concept of operations. It is funded by the Federal Highway Administration (FHWA) Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) grant in addition to matching funds from WSDOT Transportation Operations.</p>
32	June 2025	<p>WSDOT Federal Motor Carrier Safety Administration (FMCSA)-Truck Parking Information and Management System (TPIMS) \$232,000</p> <p>To help commercial drivers plan their trips and maximize the use of available parking, WSDOT, in partnership with the University of Washington (UW) STAR Lab, will develop and install a self-learning and optimizing TPIMS.</p>

PART 2: RESEARCH

PART DESCRIPTION

Part 2 contains descriptions, mandates, objectives, revenue, and deliverables related to the following areas:

Area 1A: Program and Research Management

Area 1B: Library Services

Area 2: Research Projects

Area 3: Strategic Highway Research Program (SHRP2), Every Day Counts (EDC), State Transportation Innovation Council (STC), and Accelerated Innovation Deployment

Area 4A: Transportation Pooled Fund (TPF) Projects

Area 4B: Transportation Pooled Fund (TPF) Details

Area 5: National Research Programs

SUBAREA 3 – SHRP2, EDC, State Transportation

SUBAREA DESCRIPTION & OBJECTIVES

Strategic Highway Research Program

The second Strategic Highway Research Program (SHRP2) was created to find strategic solutions to three national transportation challenges: improving highway safety, reducing congestion, and improving methods for renewing roads and bridges. A national partnership of The Federal Highway Administration (FHWA), the American Association of State Highway and Transportation Officials (AASHTO), and the Transportation Research Board (TRB) carried out research focused in four areas--safety, renewal, reliability, and capacity.

Under SHRP2, 145 research projects were completed, producing 130 products and 132 research reports. With the completion of the research portion of SHRP 2, the most current products and information can be found on FHWA and AASHTO websites, for the use and implementation by transportation organizations across the country.

Every Day Counts

In 2009, the FHWA launched Every Day Counts (EDC) in cooperation with the American Association of State Highway and Transportation Officials (AASHTO) to speed up the delivery of highway projects and to address the challenges presented by limited budgets. EDC is a state-based model for identifying and rapidly deploying proven but underutilized innovations to shorten the project delivery process, enhance roadway safety, reduce congestion, and improve environmental sustainability.

Proven innovations and enhanced business processes promoted through EDC facilitate greater efficiency at the state and local levels, saving time and resources that can be used to deliver more projects for the same money. By advancing 21st century solutions, the highway community is making Every Day Count to ensure our roads and bridges are built better, faster, and smarter.

There is no funding attached to this program—the biennial conference provides a forum through which to channel to demonstrate the top 10 or so innovations selected from a national pool and encourage states adopt and implement these to their benefit.

State Transportation Innovation Council (STIC) Incentive and Demonstration Project Program

FHWA's State Transportation Innovation Council Incentive and Demonstration Project Program provides resources to help support this state-based initiative. A STIC brings public and private transportation stakeholders together to evaluate innovations and spearhead deployment in their state. This puts each state's transportation community in the driver's seat when it comes to selecting innovations that best fit their program needs, and then putting those innovations into practice quickly.

The STIC Incentive Program offers federal funding of up to \$100,000 per state, per federal fiscal year to support or offset some of the costs of standardizing innovative practices in a state transportation agency or other public-sector STIC stakeholder. STICs consider innovations from a variety of sources, including but not limited to FHWA's Every Day Counts initiative, AASHTO's Innovation Initiative, and SHRP2, to deploy proven technologies and practices.

Accelerated Innovation Deployment

The AID Demonstration Program provides funding to accelerate the implementation and adoption of proven innovative practices and technologies in highway transportation projects. The award amount may be up to the full cost of the innovation in the project, to a maximum of \$1 million. AID Demonstration funds are available at an 80 percent federal share, which require a minimum 20 percent cost share.

FEDERAL MANDATES

No federal mandates

CONTACT

Name	Phone Number	Work Unit
Anne Freeman	360-705-7945	Transportation Safety and Systems Analysis Division/ Research and Library Services

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	December 2023	<p>L36 - Regional Operations Forum Internal Transportation Systems Management & Operations (TSMO) Workforce/Development Training Program \$200,00 (Total project amount is \$300K - \$200K from Strategic Highway Research Program (SHRP2) and \$100K from Traffic Office)</p> <p>Transportation Systems Management & Operations (TSMO) seeks to operate the existing transportation system as safely and efficiently as possible, many times maintaining or even regaining previous levels of capacity and improving safety performance levels. Implementation of TSMO focuses on cost-effective, near-term solutions that are multimodal, cross jurisdictional, an applicable on all roadway types.</p>

PROPOSED LIBRARY & RESEARCH ACTIVITIES -
Current SHRP2 Projects

Number	Estimated Delivery	Deliverable Description
2	September 2023	<p>Integrating New Active Transportation Network Analytical Tools and Data into the Multimodal Decision-Making Process \$59,602 (Also using about \$18,000 of in-kind match through in-house labor)</p> <p>Project will develop several innovative analytical methodologies and update data approaches with respect to active transportation, American Disabilities Act (ADA) accessibility and other elements of the system. These efforts will provide the basis for a standard approach to decision-making that supports safety, mobility, and accessibility for an integrated, multimodal transportation system.</p>

PROPOSED LIBRARY & RESEARCH ACTIVITIES -
Current State Transportation Innovation Council (STIC) Incentive and Demonstration Projects
(Projects will be added as they become available)

PROPOSED LIBRARY & RESEARCH ACTIVITIES -
Current Accelerated Innovation Deployment project

PROPOSED LIBRARY & RESEARCH ACTIVITIES -
Participate in and provide support to the Washington STIC to seek ideas and innovative solutions to explore and share with other jurisdictions. Serve as point of contact among FHWA, WSDOT and other STIC members. Publicize opportunities offered by the STIC Incentive Funding and Demonstration Projects Program, coordinate participation and summarize results.

Number	Estimated Delivery	Deliverable Description
3	September 2023	<p>An Innovative Internet of Things (IoT) Technology for Comprehensive Traffic Sensing and V2X Applications \$41,202</p> <p>Project will install and implement Mobile Units for Sensing Traffic along four selected roadways with high crash risks, including segments with horizontal and/or vertical curves, locations with frequent snow or ice coverage, for data collection, condition assessment, and V2X applications to monitor traffic and roadway surface and environmental conditions, and communicate with traffic operations center as well as broadcast useful information to road users when needed.</p>

PROPOSED LIBRARY & RESEARCH ACTIVITIES -

Serve as WSDOT point of contact to coordinate participation in FHWA's Every Day Counts (EDC) Program and summarize accomplishments. Continue to explore and publicize Current Accelerated Innovation Deployment (AID) demonstration project funding opportunities available to WSDOT staff that could help further agency innovations and strategic initiatives.

Future AID Projects (Projects will be added as they become available)

PROPOSED LIBRARY & RESEARCH ACTIVITIES -

Explore, publicize, and administer, as appropriate, Other Federal Allocations to support research

Number	Estimated Delivery	Deliverable Description
4	December 2023	<p>Puget Sound Region Case Study -Planned Continuation and Expansion of Phase II \$232,147</p> <p>Using SR-99 Tunnel Tolling Project as a real-world case study, this project seeks to demonstrate the value of emerging big data (more specifically, the app-based data) and its fusion with other existing data sources in answering important and time-sensitive planning and policy related questions. Four tasks are proposed, starting from data collection/access, in-depth analysis of data properties and potential issues and solution, to analysis of travel pattern changes from before to during and after the tunnel is open and tolled, and developing data quality metrics, and open-source tools and packages. Annual peer focus group discussions will be conducted to ensure the continued and close alignment between project goals and agency interests. A final report documenting all effort will also be submitted for review and approval.</p>

PART 2: RESEARCH

PART DESCRIPTION

Part 2 contains descriptions, mandates, objectives, revenue, and deliverables related to the following areas:

- Area 1A: Program and Research Management
- Area 1B: Library Services
- Area 2: Research Projects
- Area 3: Strategic Highway Research Program (SHRP2), Every Day Counts (EDC), State Transportation Innovation Council (STC), and Accelerated Innovation Deployment
- Area 4A: Transportation Pooled Fund (TPF) Projects
- Area 4B: Transportation Pooled Fund (TPF) Details
- Area 5: National Research Programs

SUBAREA 4A - Transportation Pooled Fund (TPF) Projects

SUBAREA DESCRIPTION & OBJECTIVES

The Transportation Pooled Fund program is administered by the Federal Highway Administration (FHWA) and allows federal, state, and local agencies and other organizations to combine resources to support transportation research studies.

It is a popular means for State Department of Transportation (DOT), FHWA, local agencies and other organizations program offices to leverage resources to support transportation research studies and achieve common research goals. WSDOT benefits from leading and participating in other State-led and FHWA-led pooled fund studies – pooling resources reduces marginal costs, avoids duplication of effort, and provides efficient use of taxpayer dollars.

FEDERAL MANDATES

No federal mandates

CONTACT

Name	Phone Number	Work Unit
Anne Freeman	360-705-7945	Transportation Safety and Systems Analysis Division/ Research and Library Services

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	December 2023	<p>Transportation Pooled Funds (TPF)-5(343), Roadside Safety Research for American Association of State Highway and Transportation Officials (AASHTO’s) Manual for Assessing Safety Hardware (MASH) Implementation</p> <p>The objective of the Roadside Safety Pooled Fund Program, led by WSDOT, is to provide a cooperative approach to conducting research on roadside safety hardware. Emphasis is placed on assisting state Department of Transportation (DOTs) with their implementation of MASH and addressing other roadside safety needs of common interest.</p>
2	December 2024	<p>TPF-5(386), Gravel-Bed River Assessment Tool for Improved Resiliency of Engineering Design</p> <p>This pilot will consist of three parts: 1. A technical workshop to define the framework, goals, and criteria for developing the guidance and case studies. 2. Data collection and case study development. 3. The guidance write-up and finalization.</p>

Number	Estimated Delivery	Deliverable Description
3	June 2025	<p>TPF-5(491), Super-Elastic Copper-Based and Iron-Based Shape Memory Alloys and Engineered Cementitious Composites for Extreme Events Resiliency</p> <p>The objective of this research project is to evaluate and test several innovative columns which have self-centering feature to provide minimum residual displacement after earthquake; improve column serviceability after earthquake by decreasing damage and spalling of concrete within column plastic hinge region; and provide cost comparison among columns having different engineered materials; and develop self-centering column design specifications. Particularly, in this proposed research, the low-cycle fatigue characteristics, corrosion resistance, machinability and coupling mechanisms with traditional steel rebar, and cost of CAM and Fe-SMA super-elastic alloy (SEA) bars will be studied.</p>
4	June 2025	<p>TPF-5(494), Western States Rural Transportation Consortium (WSRTC) Phase 2</p> <p>The purpose of the WSRTC is to promote innovative partnerships, technologies, and educational opportunities to facilitate and enhance safe, seamless rural travel throughout the western United States.</p> <p>The WSRTC also provides a collaborative mechanism to leverage research activities in a coordinated manner to respond to rural transportation issues among western states related to technology, operations, and safety.</p>
5	June 2025	<p>TPf-5(499), International Conference on Ecology & Transportation Pooled Fund</p> <p>Provide one (ICOET) Conference in 2023 for communication, technology transfer and information sharing among transportation professionals on ecology issues and transportation. The ICOET Conference for 2023 will be in Vermont cohosted by the Vermont Agency of Transportation and the Vermont Fish & Wildlife Department, with support from FHWA and organized by the Road Ecology Center at the UC Davis. There will also be a hybrid component to the conference that folks can attend virtually.</p> <p>Building on the 2021 International Conference on Ecology & Transportation (ICOET) Conference this 12th biennial conference in 2023 will:</p> <ul style="list-style-type: none"> ● Bring experts around the world to exchange knowledge & best practices on the interrelationship of ecology & transportation. ● The sharing of ideas through presentations, panel discussion, breaks, lunches, receptions, and field trips. ● Expand the shared knowledge and learn about the cutting edge of science on the topic of ecology and transportation.

Number	Estimated Delivery	Deliverable Description
6	June 2025	<p>TPF- 5(500), Long-Term Pavement Performance (LTPP) Forensic Investigations - Stage 2</p> <p>The objective of the proposed pooled fund study is to create a mechanism to allow for rapidly completing forensic evaluations of LTPP sections before going out of service. Test sections that are no longer active, but which have remained unchanged (i.e., no maintenance or rehabilitation has been applied), may also be considered for forensic evaluation. Possible reasons for carrying out the forensic evaluations include:</p> <ul style="list-style-type: none"> ● Determining reasons for poor pavement performance/premature failures. ● Understanding exceptional pavement performance and/or longevity. ● Validating pavement performance prediction (predicted vs actual). ● Collecting data to support development and/or calibration of pavement performance prediction models. ● Closing-out/conducting final investigations of experimental test sections. <p>Ultimately, however, the primary reason for carrying out the evaluations will be to determine if the data contained in the LTPP database adequately explains the performance of the test sections and why they performed as they did.</p>
7	June 2025	<p>(TPF) 5(501), Roadside Safety Pooled Fund Phase 3</p> <p>The objective of this Pooled Fund is to assist transportation agencies in achieving their Roadway Departure (RwD) related all state Strategic Highway Safety Plans (SHSPs) goals through development, evaluation and deployment of life-saving roadside safety devices and countermeasures in accordance with American Association of State Highway and Transportation Officials (AASHTO) and FHWA adopted standards such as the Manual for Assessing Safety Hardware (MASH). It will also support continuation of MASH implementation in roadside hardware categories that have lagged in achieving MASH compliance (special barrier applications, sign supports, work zone traffic control devices, luminaire poles, etc.) due to various design and performance challenges and other related factors. These activities will directly support and impact state efforts to achieve Target Zero by helping reduce the frequency and severity of roadway departure crashes.</p>

PART 2: RESEARCH

PART DESCRIPTION

Part 2 contains descriptions, mandates, objectives, revenue, and deliverables related to the following areas:

- Area 1A: Program and Research Management
- Area 1B: Library Services
- Area 2: Research Projects
- Area 3: Strategic Highway Research Program (SHRP2), Every Day Counts (EDC), State Transportation Innovation Council (STC), and Accelerated Innovation Deployment
- Area 4A: Transportation Pooled Fund (TPF) Projects
- Area 4B: Transportation Pooled Fund (TPF) Details
- Area 5: National Research Programs

SUBAREA 4B - Pooled Fund Details

SUBAREA DESCRIPTION & OBJECTIVES

The following are other state lead or Federal Highway Administration (FHWA) pooled funds that Washington State Department of Transportation (WSDOT) personnel are participating in. A full detail and reports of all the pooled funds can be found at www.pooledfund.org.

FEDERAL MANDATES

No federal mandates

CONTACT

Name	Phone Number	Work Unit
Anne Freeman	360-705-7945	Transportation Safety and Systems Analysis Division/ Research and Library Services

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	TPF-5(206) - Research Program to Support the Research, Development, and Deployment of System Operations Applications of Vehicle Infrastructure Integration (VII) Lead Agency: Virginia DOT
2	June 2025	TPF-5(255) - Highway Safety Manual Implementation Lead Agency: FHWA
3	June 2025	TPF-5(288) - Western Road Usage Charging Consortium Lead Agency: Oregon DOT
4	June 2025	TPF-5(299) - Improving the Quality of Pavement Surface Distress and Transverse Profile Data Collection and Analysis Lead Agency: FHWA
5	June 2025	TPF-5(307) - Validation of Tsunami Design Guidelines for Coastal Bridges Lead Agency: Oregon DOT
6	June 2025	TPF-5(313) - Technology Transfer Concrete Consortium (TTCC) Lead Agency: Iowa DOT
7	June 2025	TPF-5(315) - National Accessibility Evaluation Lead Agency: Minnesota DOT
8	June 2025	TPF-5(317) - Evaluation of Low-Cost Safety Improvements Lead Agency: FHWA

Number	Estimated Delivery	Deliverable Description
9	June 2025	TPF-5(322) - High Occupancy Vehicle (HOV)/ Managed Use Lane (MUL) Lead Agency: FHWA
10	December 2023	TPF-5(326) - Develop & Support Transportation Performance Management Capacity Development Needs for State DOTs Lead Agency: Rhode Island DOT
11	June 2025	TPF-5(372) - Building Information Modeling (BIM) for Bridges & Structures Lead Agency: Iowa DOT
12	June 2025	TPF-5(352) - Recycled Materials Resource Center - 4th Generation Lead Agency: Wisconsin DOT
13	June 2025	TPF-5(353) - Clear Roads Phase II Lead Agency: Minnesota DOT
14	June 2025	TPF-5(355) - Storm water Testing and Maintainability Center Lead Agency: Oregon DOT
15	June 2025	TPF-5(357) - Connecting the DOTs: Implementing ShakeCast Across Multiple State Departments of Transportation for Rapid Post-Earthquake Response Lead Agency: California DOT
16	June 2025	TPF-5(357) - Connecting the DOTs: Implementing ShakeCast Across Multiple State Departments of Transportation for Rapid Post-Earthquake Response Lead Agency: California DOT
17	June 2025	TPF-5(357) - Connecting the DOTs: Implementing ShakeCast Across Multiple State Departments of Transportation for Rapid Post-Earthquake Response Lead Agency: California DOT
18	June 2025	TPF-5(365) - National Hydraulic Engineering Conference Lead Agency: FHWA
19	June 2025	TPF-5(366) - Development of Structural Design Guide for Ultra High-Performance Concrete Lead Agency: Iowa DOT
20	June 2025	TPF-5(370) - Fostering Innovation in Pedestrian and Bicycle Transportation Pooled Fund Study Lead Agency: FHWA
21	June 2025	TPF-5(376) - Northwest Passage Phase 4 Lead Agency: Minnesota DOT
22	June 2025	TPF-5(380) - Autonomous Maintenance Technology (AMT) Lead Agency: Colorado DOT
23	June 2025	TPF-5(382) - Drivers Failing to Yield at Roundabouts Lead Agency: FHWA
24	June 2025	TPF-5(388) - Developing Implementation Strategies for Risk Based Inspection (RBI) Lead Agency: Missouri DOT

Number	Estimated Delivery	Deliverable Description
25	June 2025	TPF-5(394) - Western Maintenance Partnership – Phase 3 Lead Agency: Utah DOT
26	June 2025	TPF-5(399) - Improve Pavement Surface Distress & Transverse Profile Data Collection & Analysis – Phase 2 Lead Agency: FHWA
27	June 2025	TPF-5(431) - Applications of Enterprise GIS for Transportation, Guidance for a National Transportation Framework (AEGIST) Lead Agency: FHWA
28	June 2025	TPF-5(433) - Behavior of Reinforced & Unreinforced Lightweight Cellular Concrete for Retaining Walls Lead Agency: Utah DOT
29	June 2025	TPF-5(435) - Aurora Program (FY20-24) Lead Agency: Iowa DOT
30	June 2025	TPF-5(437) - Technology Transfer Concrete Consortium (FY20-24) Lead Agency: Iowa DOT
31	June 2025	TPF-5(440) - Urban Mobility Study Lead Agency: Texas DOT
32	June 2025	TPF-5(443) - Continuous Asphalt Mixture Compaction Assessment using Density Profiling System (DPS) Lead Agency: Minnesota DOT
33	June 2025	TPF-5(444) - Traffic Safety Culture (Phase 2) Lead Agency: Montana DOT
34	June 2025	TPF-5(444) - Traffic Safety Culture (Phase 2) Lead Agency: Montana DOT
35	June 2025	TPF-5(470) - Traffic Signal Change & Clearance Interval Pooled Fund Study Lead Agency: FHWA
36	June 2025	TPF-5(472) - 2021 Innovations in Freight Data Workshop Lead Agency: Iowa
37	June 2025	TPF-5(473) - TRB Core Program Services for a Highway RD&T Program - Federal Fiscal Year 2021/TRB (State DOTs) Fiscal Year 2022 Lead Agency: FHWA
38	June 2025	TPF-5(476) - Western Alliance for Quality Transportation Construction (WAQTC) 2021-2025 Lead Agency: Utah DOT
39	June 2025	TPF-5(485) - Consequences-Based Analysis of Undrained Shear Behavior of Soils and Liquefaction Hazards, Phase I: Filling the Data Gaps Lead Agency: Utah DOT
40	June 2025	TPF5(487) - Transportation Management Center Phase 2 Lead Agency: FHWA
41	June 2025	TPF-5(489) - Safety Service Patrol

Number	Estimated Delivery	Deliverable Description
42	June 2025	TPF-5(491) - Super-Elastic Copper-Based & Iron-Based Shape Memory Alloys & Engineered Cementitious Composites for Extreme Events Resiliency
43	June 2025	TPF-5(497) - Transportation Avalanche Research Pool (TARP2.0) Lead Agency: Colorado DOT
44	June 2025	TPF-5(506) - North/West Passage Transportation Pooled Fund Study Phase 5 Lead Agency: Minnesota DOT

PART 2: RESEARCH

PART DESCRIPTION

Part 2 contains descriptions, mandates, objectives, revenue, and deliverables related to the following areas:

- Area 1A: Program and Research Management
- Area 1B: Library Services
- Area 2: Research Projects
- Area 3: Strategic Highway Research Program (SHRP2), Every Day Counts (EDC), State Transportation Innovation Council (STC), and Accelerated Innovation Deployment
- Area 4A: Transportation Pooled Fund (TPF) Projects
- Area 4B: Transportation Pooled Fund (TPF) Details
- Area 5: National Research Programs

SUBAREA 5 - National Research Programs

SUBAREA DESCRIPTION & OBJECTIVES

Washington State of Transportation (WSDOT) participates in the following nation research program: National Cooperative Highway Research Program (NCHRP). Administrated by the Transportation Research Board (TRB) and sponsored by the member departments (individual state departments of transportation) of the American Association of State Highway and Transportation Officials (AASHTO), in cooperation with the Federal Highway Administration (FHWA), NCHRP was created in 1962 as a means to conduct research in acute problem areas that affect highway planning, design, construction, operation, and maintenance nationwide. A full detail and reports of all the pooled funds can be found at www.pooledfund.org.

FEDERAL MANDATES

No federal mandates

CONTACT

Name	Phone Number	Work Unit
Anne Freeman	360-705-7945	Transportation Safety and Systems Analysis Division/ Research and Library Services

DELIVERABLES

Number	Estimated Delivery	Deliverable Description
1	June 2025	<p>TRB Core Program</p> <p>WSDOT invests in the TRB’s Core Program, which provides a forum for transportation professionals to identify, facilitate, and share research and information related to transportation. The contribution is based on distributing the cost of the approved budget to all sponsors. Each state Department of Transportation (DOT’s) share is prorated to the amount of State Planning & Research (SPR) funding received.</p> <p>WSDOT’s investment provides the framework for a significant amount of collaboration on transportation research. The Core Program supports the TRB standing committees, Transportation Research Information database, Research in Progress database, Research Needs Statements database, state DOT visits, and planning for the TRB annual and mid-year meetings.</p>
2	June 2025	Report on NCHRP problem statements/submittals and participate in panels and/or projects.

Appendix B: Revenue Summary

WORK AREAS	FUNDING				
	FTE	Federal	State	Local	Total
PART 1: PLANNING					
AREA 1: System Performance and Analysis					
Subarea 1.1: Performance and Accountability Analysis	9	\$2,126,240	\$531,560	•	\$2,657,800
Subarea 1.2: Travel Demand and Economic Modeling and Analysis	3.75	•	\$1,337,500	•	\$1,337,500
AREA 2: Transportation Data, Analysis, and Stewardship					
Subarea 2.1: Travel Data Collection, Processing, Analysis and Reporting	31.55	•	\$8,845,900	•	\$8,845,900
Subarea 2.2: Crash Data Collection, Analysis and Reporting	14	\$2,546,000	\$686,500	•	\$3,232,500
Subarea 2.3: Enterprise GIS Services and Roadway Data Collection, Analysis and Reporting	22.84	\$4,350,800	\$3,665,700	•	\$8,016,500
Subarea 2.4: Annual Federal Reporting of Vehicle and Financial Statistics	•	•	•	•	•
Subarea 2.5: Information Technology Development and Support	3	\$771,440	\$192,860	•	\$964,300
AREA 3: Statewide Multimodal Planning					
Subarea 3.1: Statewide Long-range Transportation Planning and Implementation	8	\$1,795,680	\$598,920	•	\$2,394,600
Subarea 3.2: Cooperative Automated Transportation (CAT) Program	1	\$310,000	\$77,500	•	\$387,500
Subarea 3.3: Active Transportation Planning and Policy Development	2	\$642,160	\$160,540	•	\$802,700
Subarea 3.4: Rail, Freight and Ports	4	\$1,011,440	\$252,860	•	\$1,264,300
Subarea 3.5: Washington State Ferries Transportation Planning	2	\$493,680	\$123,420	•	\$617,100
AREA 4: Metropolitan and Regional Planning					
Subarea 4.1: MPO/RTPO Program Stewardship and Coordination	5.25	\$1,162,480	\$290,620	•	\$1,453,100
Subarea 4.1: MPO/RTPO Program Stewardship & Coordination – Pass Through Funds		\$24,000,000	\$4,900,000	•	\$28,900,000
AREA 5: Local, Network and Corridor Planning					
Subarea 5.1: Land Use and Transportation Planning Integration	4	\$454,000	\$1,169,500	•	\$1,623,500
Subarea 5.2: Transportation Planning Studies	2	\$537,400	\$142,360	•	\$679,800
Subarea 5.3: WSDOT Regional Planning	47.2	\$6,290,440	\$16,702,360	•	\$22,992,800
AREA 6: Economic and Financial Planning					
Subarea 6.1: Financial Planning	•	•	•	•	•
Subarea 6.2: Economic Forecasting and Analysis	•	•	•	•	•
AREA 7: Prioritization and Programming					
Subarea 7.1: WSDOT's Local Programs Division	•	•	•	•	•
AREA 8: Management & Administration					
Subarea 8.1: Program Management	6	•	\$2,070,300	•	\$2,070,300
Subarea 8.2: Program Administration & Communications	8.3	•	\$5,176,800	•	\$5,176,800
Subarea 8.3: Downtown Seattle Office Lease & Administrative Support	•	•	\$211,200	•	\$211,200
PART 2: Research					
Subarea 1A: Program and Research Management	13	\$10,475,200	\$1,215,600	\$400,000	\$12,090,800
Subarea 1B: Library Services	13	\$10,475,200	\$1,215,600	\$400,000	\$12,090,800
Subarea 2: Research Projects	13	\$10,475,200	\$1,215,600	\$400,000	\$12,090,800
Subarea 3: SHRP2, EDC, State Transportation	13	\$10,475,200	\$1,215,600	\$400,000	\$12,090,800
Subarea 4A: Transportation Pooled Fund (TPF) Projects	13	\$10,475,200	\$1,215,600	\$400,000	\$12,090,800
Subarea 4B: Pooled Fund Details	13	\$10,475,200	\$1,215,600	\$400,000	\$12,090,800
Subarea 5: National Research Programs	13	\$10,475,200	\$1,215,600	\$400,000	\$12,090,800

Appendix C: Summary of Percentage Calculations

Citation

§ 420.107 What is the minimum required expenditure of State planning and research funds for research development and technology transfer? (a) A State DOT must expend no less than 25 percent of its annual SPR funds on RD&T activities relating to highway, public transportation, and intermodal transportation systems in accordance with the provisions of 23 U.S.C. 505(b), unless a State DOT certifies, and the FHWA accepts the State DOT's certification, that total expenditures by the State DOT during the fiscal year for transportation planning under 23 U.S.C. 134 and 135 will exceed 75 percent of the amount apportioned for the fiscal year.

Calculations

(We provided two ways to assess the minimum required investment for Research: one based on fed SPR only; the other based on Fed SPR plus 20% state match.)

Option 1: Federal SPR only	
\$22,491,800	Fed SPR
\$5,622,950	Minimum 25% for RD&T
\$10,475,200	Actual expenditure for RD&T

Option 2: Federal SPR plus 20% state match	
\$22,491,800	Fed SPR
\$4,498,360	20% match (state)
\$5,622,950	Minimum 25% for RD&T
\$10,475,200	Actual expenditure for RD&T

**Note: The state legislature provides state funding in excess of the required match for SPR. Those additional state dollars are included in the work program for the purpose of sharing information about WSDOT's planning activities.*

Appendix D: Acronyms

A

Accelerated Innovation Deployment	AID
Active Transportation Plan	ATP
Advanced Driver Assistive Systems	ADAS
Advanced Transportation and Congestion Management Technologies Deployment	ATCMTD
American Association of State Highway and Transportation Officials	AASHTO
American Disabilities Act	ADA
Autonomous Vehicle	AV

B

Budget Change Requests	BCR
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C

Capital Program Development and Management Office	CPDM
Census Transportation Planning Products	CTPP
Classified position description	CPD
Client Sponsored Research	CSR
Code of Federal Regulations	CFR
Collision Access Tool	CAT
Congestion Mitigation and Air Quality	CMAQ
Cooperative Automated Transportation	CAT

D

Department of Transportation	DOT
Diversity Advisory Group	DAG
Diversity, Equity, and Inclusion	DEI

Density Profiling System	DPS
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E

Eastern Region	ER
Electronic Data Transfer	EDT
Environment Justice	EJ
Every Day Counts	EDC
Executive Order	EO

F

Federal Highway Administration	FHWA
Federal Transit Administration	FTA
Fiber Reinforced Polymer	FRP
Freight and Goods Transportation System	FGTS

G

Geographic Information System	GIS
Gray Notebook	GNB
Greenhouse gas	GHG

H

Headquarters	HQ
Healthy Environment for All	HEAL
High Occupancy Vehicle	HOV
Highly Automated Systems Safety Center of Excellence	HASS
Highway Performance Monitoring System	HPMS
Highway System Plan	HSP

I

Infrastructure Investment and Jobs Act/Bipartisan Infrastructure Law	IJJA/BIL
Institute of Transportation Engineers	ITE
Intelligent Transportation System	ITS
International Conference on Ecology & Transportation	ICOET

J
K
L

Large woody material	LWN
Lewis & Clark Valley	LCV
Linear referencing system	LRS
Local Program	LP
Long-Term Pavement Performance	LTPP

M

Machine Learning	ML
Managed Use Lane	MUL
Management of Mobility	MOM
Manual for Assessing Safety Hardware	MASH
Metropolitan Planning Organization	MPO
Metropolitan Planning Organizations/Regional Transportation Planning Organization	MPO/RTPO
Mobility Dashboard	MMD
Model Inventory for Roadway Elements	MIRE
Mt Baker Area	MBA
Multi-agency	M3

Multimodal Mobility Dashboard	MMD
Multimodal Technical Forum	MMTF
Multimodal Mobility Report	MMR
Multimodal Planning and Data Division	MPDD
Multimodal Multidisciplinary	M2

N

National Cooperative Highway Research Program	NCHRP
National Highway Safety Administration	NHTSA
North Central Region	NCR
Northwest Region	NWR

O

Office of Information Technology	OIT
Office-of-Planning and Community Development	OPCD
Office of the Chief Information Officer	OCIO
Office of the State Treasurer	OST
Oregon Department of Transportation	ODOT

P

Palouse River and Coulee City	PCC
Pavement/Bridge Performance Targets	PM2
Performance Evaluations	PMP
Performance Targets	PM3
Planning and Environmental Linkages	PEL
Planning Level Cost Estimation	PLCE

Portland State	PSU
Program Administration & Communications	PAC
Program Analysis and Management Services	PAMS
Puget Sound Regional Council	PSRC

Q

Quad County Regional Transportation Planning Organization	QUADco
Quick Response	QR

R

Rail, Freight and Ports	RFP
Regional Economic Model, Inc.	REMI
Regional Transportation Planning Organizations	RTPO

S

Safety performance targets	PM1
South Central Region	SCR
Southwest Region	SWR
State Fiscal Year	SFY
State Route Viewer	SRV
State Planning & Research Work Program	SPR
Statewide Transportation Improvement Program	STIP
Strategic Highway Research Program	SHRP
Strategic Plan	SP

T

The Executive Information System	TEIS
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Transportation Asset Management Plan	TAMP
Transportation Avalanche Research Pool	TARP
Transportation Data, GIS, and Modeling Group	TDGMG
Transportation Infrastructure Finance and Innovation Act	TIFIA
Transportation Improvement Program	TIPS
Transportation Management Area	TMA
Transportation Performance Management	TPM
Transportation Pooled Fund	TPF
Transportation Research Board	TRB
Transportation Revenue Forecast Council	TRFC
Transportation Safety & Systems Analysis	TSSA
Transportation Systems Management and Operations	TSMO
Truck Parking Information and Management System	TPIMS

U

Unified Planning Work Program	UPWP
University of Washington	UW
United State Department of Transportation	USDOT
University of Texas	UTA
Urban Mobility Access	UMA

V

Virtual Coordination Center	VCC
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W

Water crossings	WC
Washington Department of Fish and Wildlife	WDFW

Washington State Department of Transportation	WSDOT
Washington State Ferries	WSF
Washington State Transportation Innovation Council	WSTIC
Western States Rural Transportation Consortium	WSRTC

X

Y

Yakima Valley Council of Governments	YVCOG
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