

Regional Transportation Plan Implementation

Regional Project Evaluation Committee | January 27, 2023



Puget Sound Regional Council

Today's Briefing

- Work to date and next steps on:
 - 2030 Climate Implementation Strategy
 - Safety
 - RTP Dashboard



2030 GHG Analysis and Climate Implementation Strategy

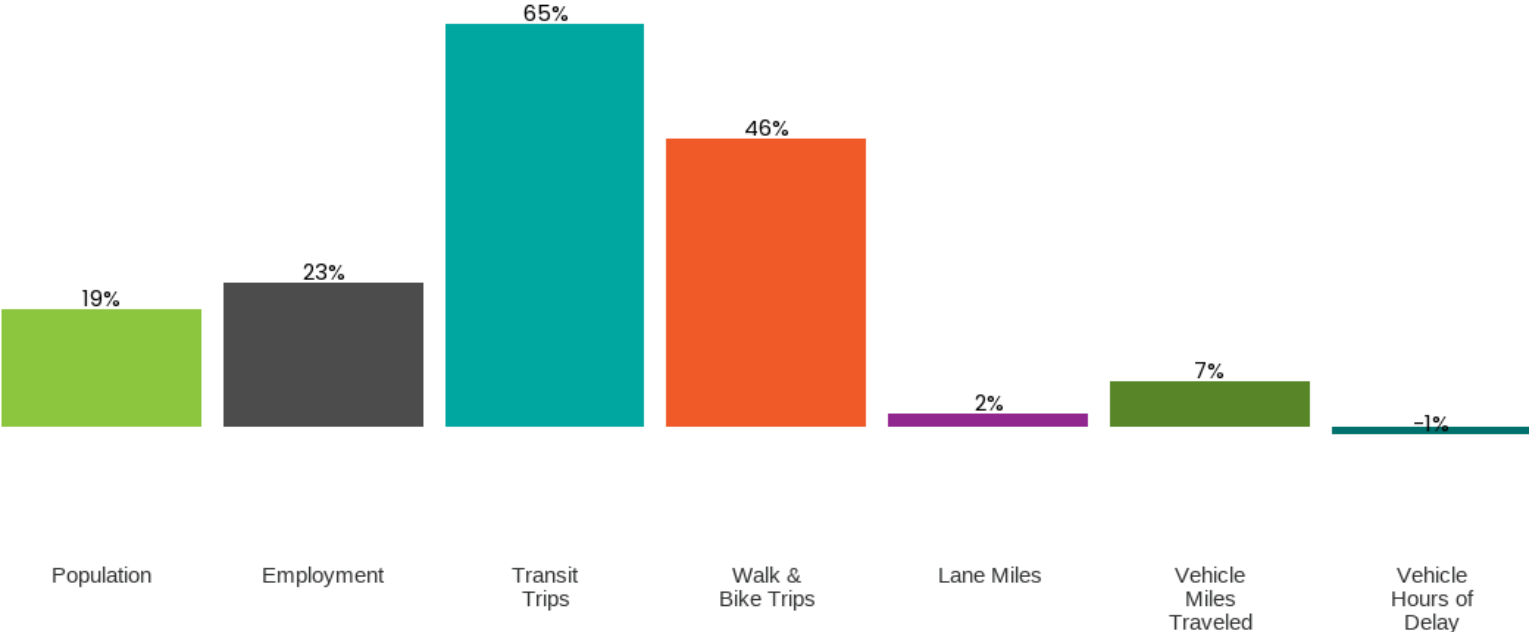
As directed by the adopted Regional Transportation Plan:

- Develop a 2030 transportation network and conduct a GHG analysis
- Identify the gap to 2030 goal (on-road transportation only)
- Identify strategies and an implementation and monitoring plan towards meeting goal
- Consider in future project selection processes



The Plan is focused on transportation options

Percent Change between Base Year and 2030 Plan



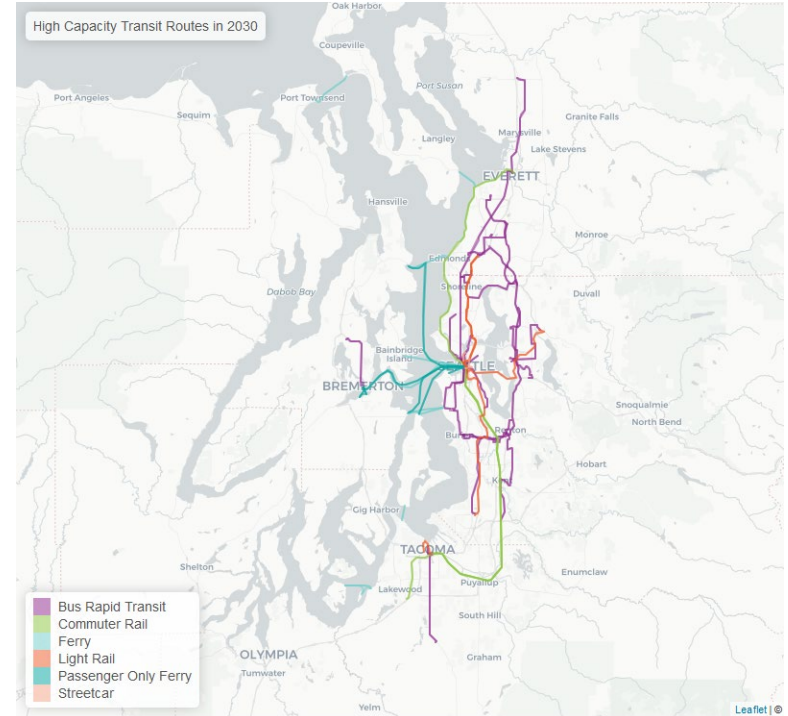
Source: PSRC SoundCast Activity Based Model, Fall 2022 for King, Kitsap, Pierce and Snohomish counties.



2030 High-Capacity Transit Network

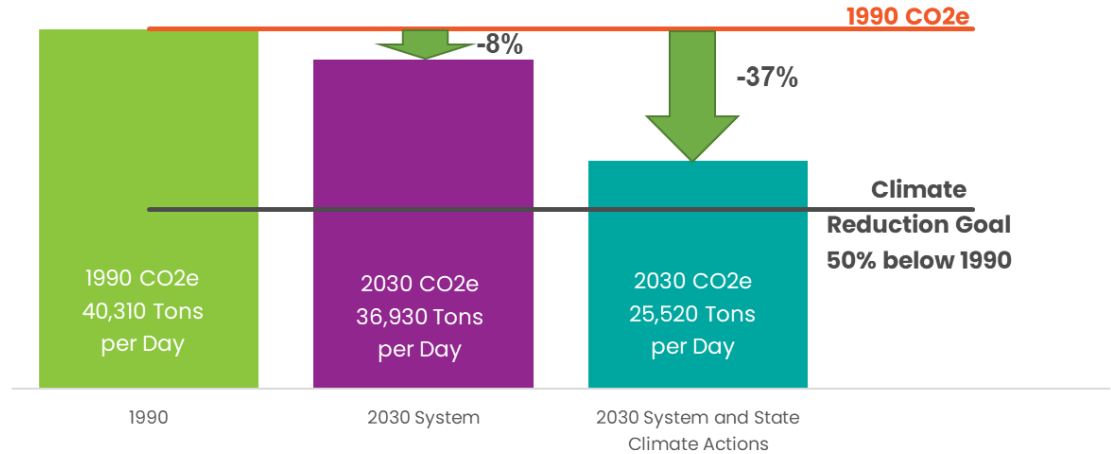
By 2030, expanded High-Capacity Transit options would operate in all four counties

- 21 BRT routes are planned to be in operation by 2030 with routes operated in each county
- 7 passenger-only ferry routes are planned to be in operation by 2030 connecting Bremerton, Port Orchard, Kingston, Vashon Island and West Seattle with Downtown Seattle
- 50 light rail stations spanning 79 miles connecting Federal Way, Redmond and Lynnwood in addition to Downtown Tacoma



2030 GHG Gap Analysis

- The 2030 system reflects VISION 2050, the RTP and the region's vehicle fleet under current federal fuel economy standards
- Further gains are seen from the latest adopted state actions – clean fuels, zero emission vehicles and the Climate Commitment Act



The region needs to reduce GHG an additional 13% to meet climate goals



Sensitivity Tests



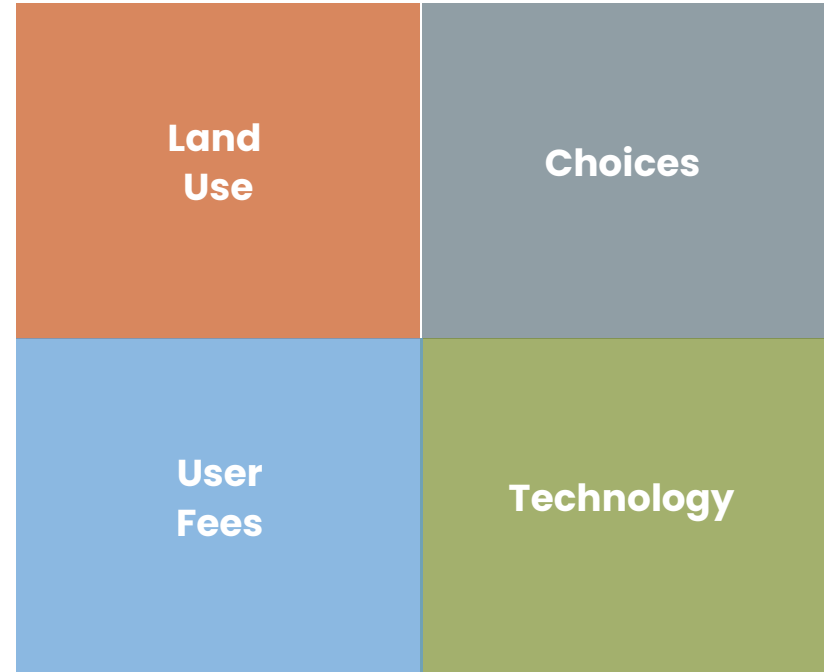
Four-Part Greenhouse Gas Strategy

Land Use: VISION 2050 regional growth strategy

Choices: Expanded and integrated regional transit network, active transportation and other multimodal investments

User Fees: State facility tolls, transition to road usage charge in later years

Technology: Shift to zero emission vehicles, Clean Fuels Standard, etc.



Sensitivity Tests

User Fees

- Tested different rates of a **Road Usage Charge (RUC)**, deviating from the assumed rates in the RTP of \$0.10/mile Peak and \$0.05/mile Off-Peak
- Changes in emissions from the plan between +4% to -10%

Choices

- Tested increasing transit access, frequencies, and accelerating network changes
- Given when growth will occur and where transit is already expanding by 2030, minimal impacts to emissions from the plan



Sensitivity Tests

Choices

- Tested work from home levels at 2021 levels of 30%
- Strong emission reduction potential of up to 10%
- Recognize that working from Home is not available for all markets and locations and lowers transit ridership

Choices

- Tested the elimination of roadway capacity projects
- No change to emissions; reduces VMT slightly but increases delay
- Projects support transit and freight movement as well as congested areas, and impact performance of the system



Sensitivity Tests

Technology

- Tested an increase from the base to 100% of new vehicle sales by 2030 being **Zero Emission Vehicles (ZEV)**
- Current state actions are forecasted to result in ZEVs being approximately 65% of all new sales by 2030
- Approximate additional emission reductions up to 7%



Hybrid Scenario

User
Fees

Choices

Technology

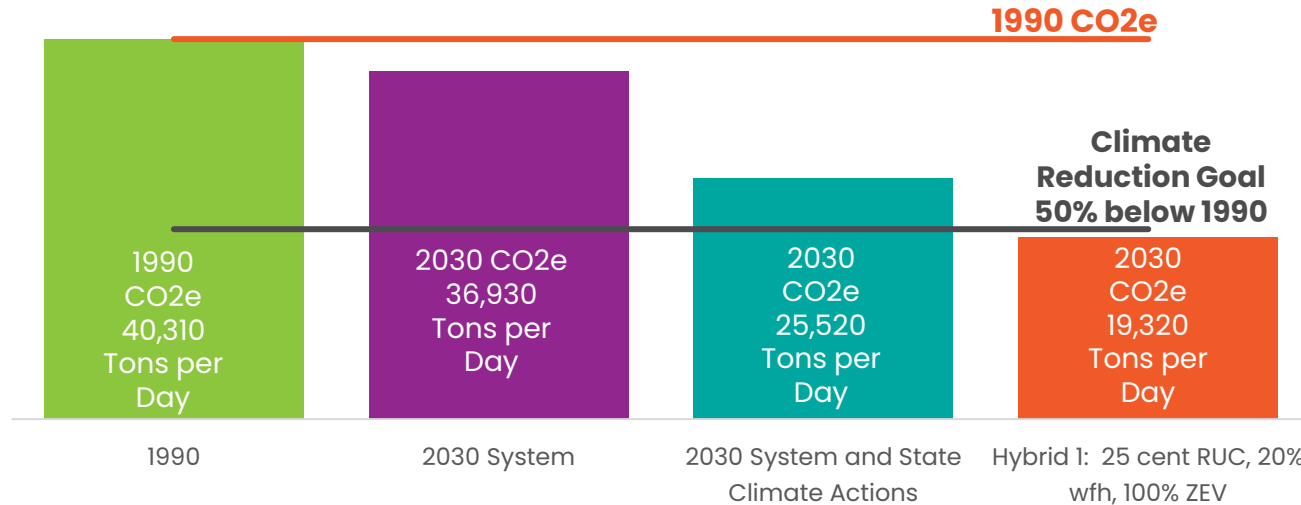
First hybrid scenario -- looked at the three most promising levers from the sensitivity testing:

- RUC – new test at midpoint of sensitivity tests -- \$.25 per mile
- Work from home – new test at midpoint of observed levels -- 20%
- Increase in ZEV sales – *same as sensitivity test*



Hybrid Scenario

The combination of the 2030 RTP, VISION 2050, state actions and these three sensitivity levers have the capacity to achieve the 2030 climate goal of 50% below 1990 levels



Continued commitment to implementation of each element is critically important in order to achieve the results



Next Steps

From board and committee feedback to date, additional hybrid scenarios to pursue:

- *Current RTP levels of RUC in combination with additional levers*
 - *Include increased transit access / frequency sensitivities*
 - *Consider more aggressive ZEV turnover*
 - *Potentially accelerated growth strategy targets*

Questions / feedback on the hybrid scenarios or other sensitivity tests for 2030?





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Safety Work Program Updates



Reminder: Safety Grant Application

SS4A Action Plan Grant Application: 9/15/22

- “State of Safety” regional report
- Geospatial analysis of available safety data
- Inventory of current safety policies and plans to understand regional gaps
- A robust, inclusive regional public engagement program
- Program of recommended strategies focusing on a Safe Systems Approach
- PSRC technical support to develop additional local Action Plans

Consolidated with Burien, Everett, Kent, Pierce County, Redmond, and Tukwila applications 11/22/22

Grant award announcement expected ~~end of January~~ *early February*



Regional Safety Convening

Tentative date – ~~February / March~~ June 2023

- Coordinating timing between SS4A grant and work to develop a Regional Safety Plan
 - Will support board scoping discussions
- Purpose and outcomes = bringing together a diverse set of stakeholders to discuss transportation safety issues, including “level setting” and problem identification
- Proposed attendees = PSRC member organizations, community groups and members of the public
 - in-person event, 150-200 attendees, downtown Seattle venue



Regional Safety Convening

Proposed agenda for a one-day event:

- Plenary speaker – potentially USDOT representative discussing Safe Systems Approach
- Opening panel – consisting of other MPOs with lessons learned, National Safety Council and a community voice
- Afternoon tracks: Roadway / Modal Conflicts; Nonmotorized; Transit
 - Examples from around the country – what's being done, challenges, different locations and contexts
 - Monitoring and successes
 - Technology / technical innovations



RTP Performance Dashboard



Draft Version of Dashboard is live

Pages contain data, text and links for several metrics, but we are looking for feedback for continual improvements

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Overview



RTP Performance Dashboard

Planning for 2050

Regional Transportation Plan

Projects and Approval

Coordinated Mobility Plan

Data, Research and Policy Briefs

Transportation System Visualization Tool

Connect With Us

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 Email

2022-2050

REGIONAL TRANSPORTATION PLAN

The Regional Transportation Plan (RTP) is the long-range transportation plan for the central Puget Sound region. The RTP is adopted every four years, and is designed to implement the region's growth plan, VISION 2050. The RTP meets all state and federal requirements and is based on the latest data, adopted land use assumptions, and technical tools.

The plan was developed over the last two years with extensive engagement with board members, technical committees, member jurisdictions, and the public. The plan implements the policies and goals in VISION 2050, outlining investments the region is making in transit, rail, ferry, streets and highways, freight, bicycle and pedestrian facilities, and other systems to ensure the safe and efficient movement of people and goods.

On April 28, 2022, the PSRC Executive Board unanimously recommended adoption of the Regional Transportation Plan for action by the General Assembly. The General Assembly adopted the plan on May 26, 2022.

<https://psrcwa.shinyapps.io/rtp-dashboard/>



Status of Performance Metrics

Topic Area	Measure	Data Developed	Dashboard Page
Climate	Zero Emission Vehicle Registrations	Yes	Yes
	Vehicle Miles Traveled	Yes	Yes
Growth	Population	Yes	Yes
	Housing Units	Yes	No
	Jobs	Yes	No
Safety	Fatal Collisions	Yes	Yes
	Serious Injury Collisions	Yes	No
Alternative Modes	Mode Share to Work	Yes	No
	Walking	Yes	No
	Biking	Yes	No
	Transit	Yes	No
	Work from Home	Yes	No
Transit Performance	Transit Ridership	Yes	Yes
	Transit Service Hours	Yes	Yes
	Number of HCT Stations Open	Yes	No
	People living near HCT Stations	Yes	No
Travel time & Congestion	Percentage of Network congested	Yes	No
	Percentage of Freight Network congested	Yes	No
	People with Commutes greater than 1hr	Yes	No
	Highway and Transit Travel Time	No	No
Transportation Projects	Types of Project Receiving Funding	No	No
	Project Financial and Completion Data	No	No

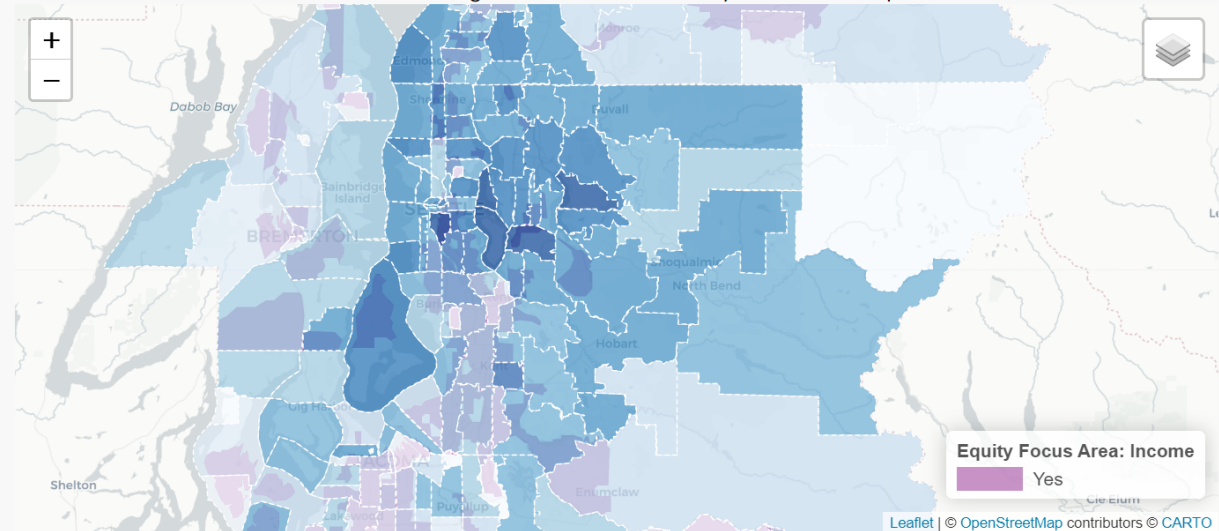


Variety of visuals

There are maps and charts of different types

New Vehicle Registrations by Zipcode

Electric vehicle registrations are all the across the Puget Sound Region but some of the highest levels of market penetration are in the Seattle, Bellevue and Redmond area. There are noticeable areas in Kitsap, Pierce and Snohomish counties that have lower ZEV registration levels and they tend to overlap with areas of lower incomes.



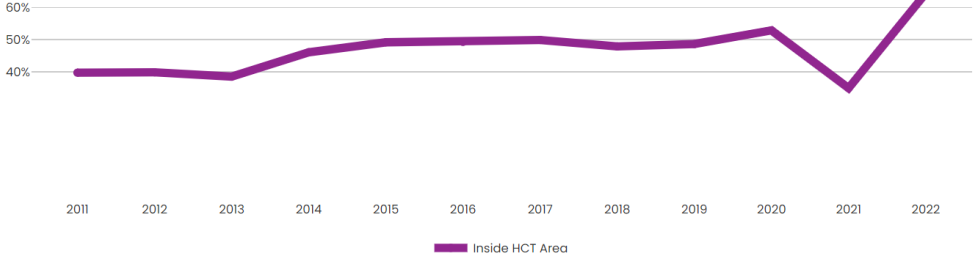
Comparisons to Plan outcomes

Comparisons to Plan outcomes are included in both text and chart types

Growth Near High Capacity Transit

The Regional Growth Strategy defines roles for different types of places in accommodating the region's population and employment growth, which inform countywide growth targets, local plans and regional plans. The Regional Growth Strategy assumes 65% of the region's population growth and 75% of the region's job growth will locate in regional growth centers and near high-capacity transit. The VISION 2050 Supplemental EIS studies the environmental outcomes of the Regional Growth Strategy. Learn more about [guidance to implement the Regional Growth Strategy \(PDF\)](#).

Share of Regional Population Growth near HCT: 2010 to 2022



Balance of “Input” vs “Outcome” metrics

Many of the metrics to date are “outcome” based:

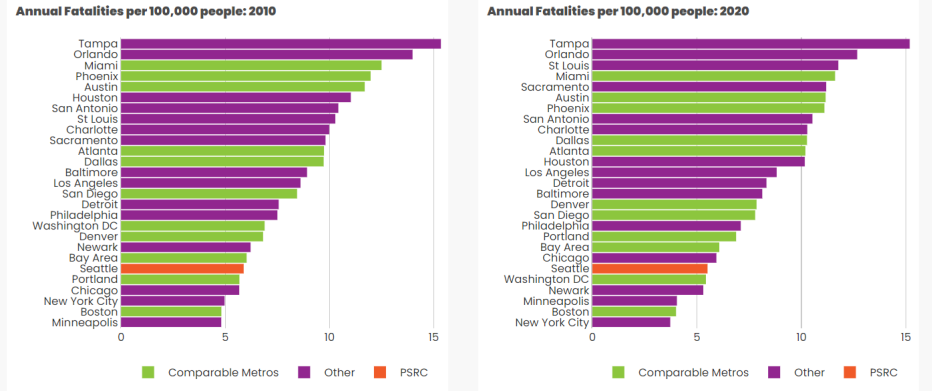
- VMT, Transit Ridership, Fatal Collisions

Some of the measures are “input” based:

- ZEV registrations, Transit Service hours

As the Dashboard moves forward, we need input to get more “input” based measures

Fatal Collisions by Metropolitan Region



Next Steps and Demo



- Continue build-out of site while incorporating comments
- Share Dashboard with boards and committees
- Continue to share site progress as it evolves

<https://psrcwa.shinyapps.io/rtp-dashboard/>



Thank you

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