

Working towards an Integrated Regional Transit Network

May 1, 2018



Puget Sound Regional Council

Central Puget Sound Region

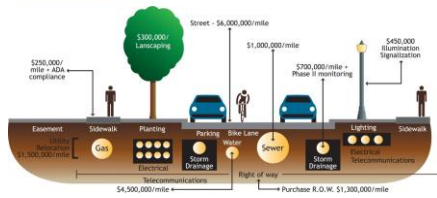


- 4.1 million people
- 2.3 million jobs
- 4 counties: King, Pierce, Snohomish, and Kitsap
- 82 cities and towns
- Urban and rural
- 6,300 square miles
- 1,000 square miles in urban growth areas



PSRC's Regional Transportation Plan

Typical City Infrastructure Costs Today
City streets are more than pavement.



Counties



Cities



Local Transit



Sound Transit



State Ferries



State Highways



Other Regional

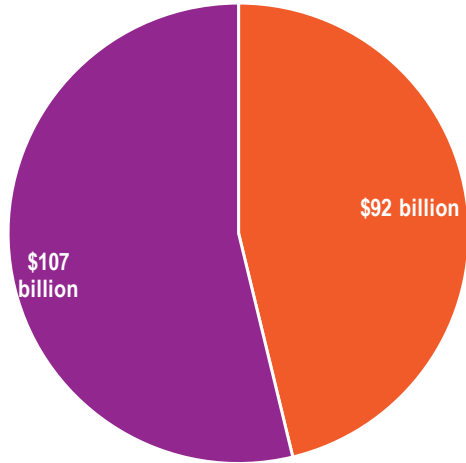




Why an Integrated Regional Transit Network?

Over half of Plan Investments are in Transit

Investments by Type

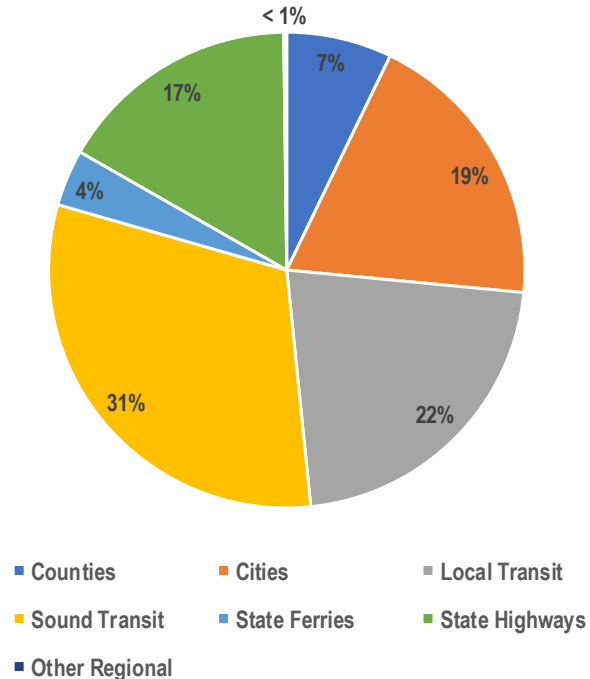


Maintenance,
Preservation
& Operations

System
Expansion

Over 54% of the Investments in the Plan are for Preservation and Maintenance of the System and 53% of all investments are in transit

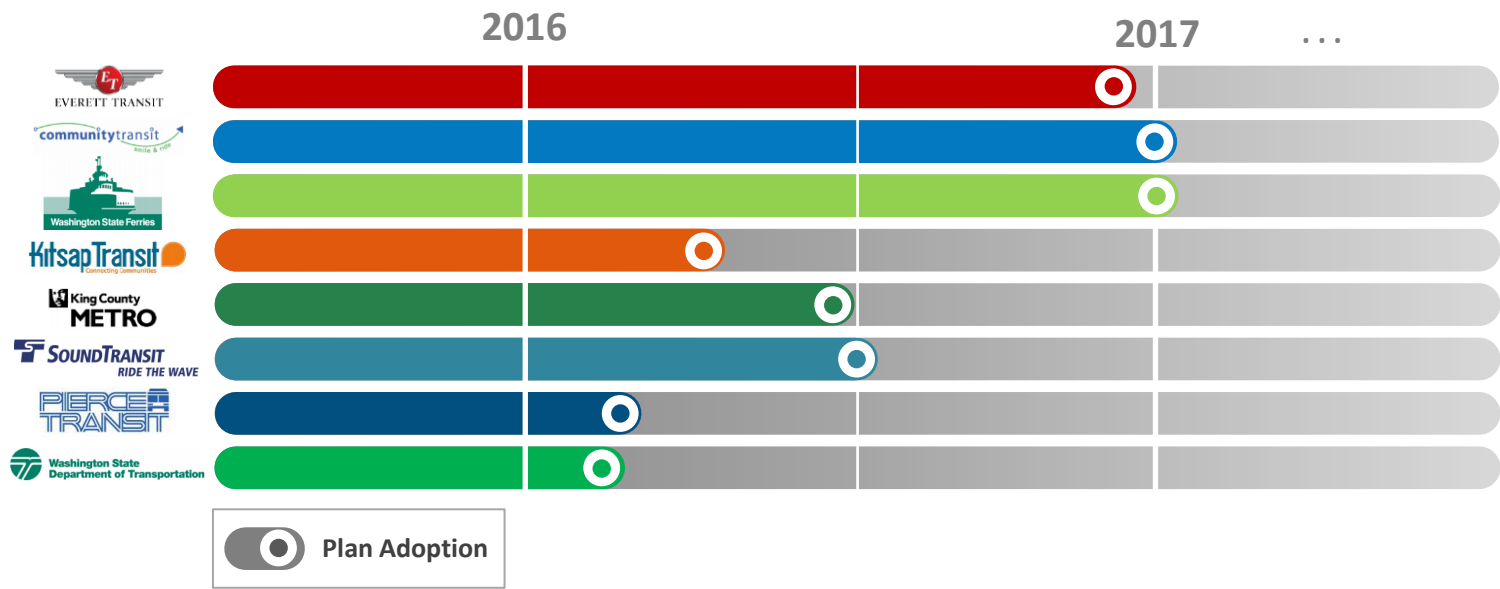
Investments by Program



Note: All Costs are expressed in constant 2018 \$'s



Many Transit Providers and all were Planning for the Future



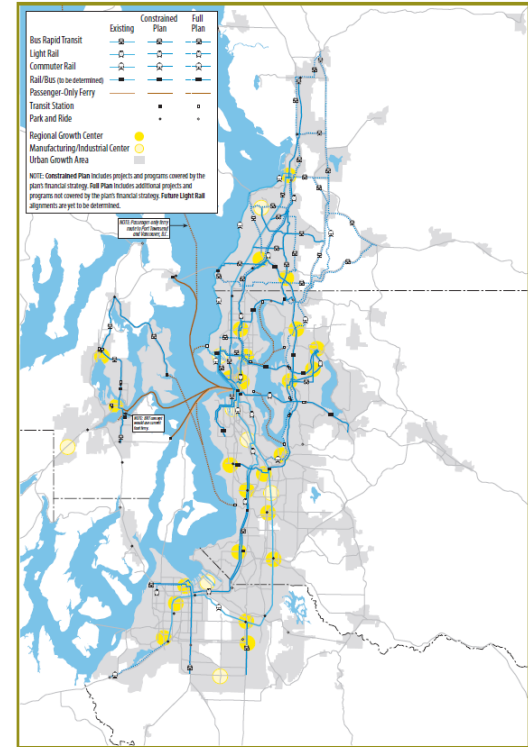
Current Plan didn't integrate the investments

Existing Plan:

- Included major light rail expansion
- Bus network increased service frequency on **existing** and did not integrate with the rail

Updated Regional Transportation Plan

- Incorporates ST3 & long range plans of all transit agencies
- Builds on experience of integrating bus with rail as light rail service is implemented





Integrating the Transit Network

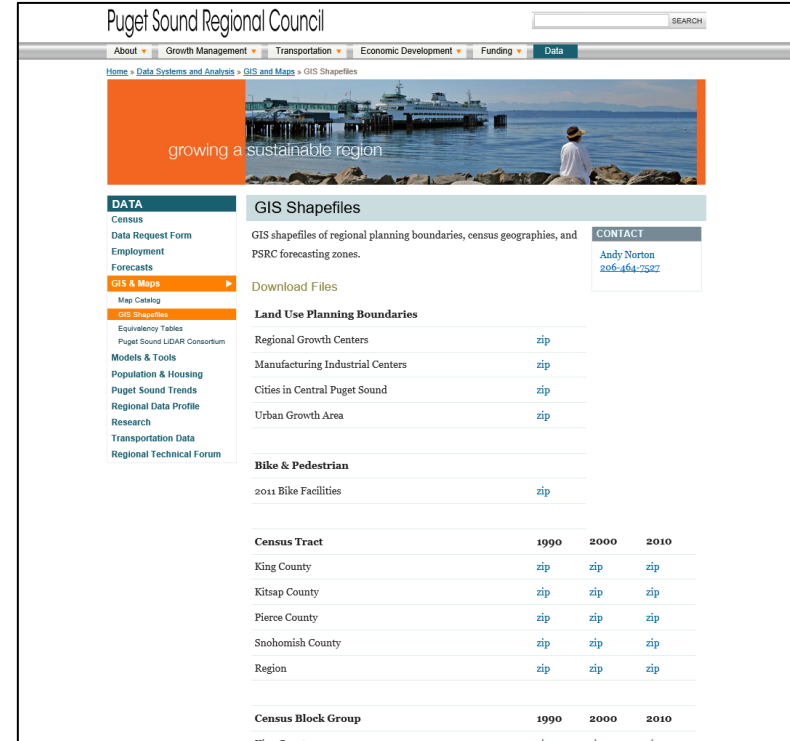
What were the initial barriers to integration?

Our agencies are diverse:

- We have small and large transit agencies with various skill sets
- Only half of our agencies has GIS software and staff who know how to use it.

We never highlighted what integration could allow us to do

- Past efforts of data visualization struggled due to data constraints and schedule issues.



The screenshot shows the Puget Sound Regional Council website. The header includes navigation links: About, Growth Management, Transportation, Economic Development, Funding, and Data. A search bar is located in the top right. Below the header, there is a banner image with the text "growing a sustainable region". The main content area is divided into several sections:

- DATA**: Includes links for Census, Data Request Form, Employment, Forecasts, GIS & Maps (highlighted), Map Catalog, GIS Shapefiles, Equivalency Tables, Puget Sound LIDAR Consortium, Models & Tools, Population & Housing, Puget Sound Trends, Regional Data Profile, Research, Transportation Data, and Regional Technical Forum.
- GIS Shapefiles**: Describes GIS shapefiles of regional planning boundaries, census geographies, and PSRC forecasting zones. Includes a "Download Files" link.
- Land Use Planning Boundaries**: A table listing various planning boundaries with download links.
- Bike & Pedestrian**: A table listing bike facilities with download links.
- Census Tract**: A table showing census data for various counties and the region for the years 1990, 2000, and 2010.
- Census Block Group**: A table showing census data for various counties and the region for the years 1990, 2000, and 2010.

A contact box on the right side of the page lists Andy Norton with the phone number 206-464-7527.



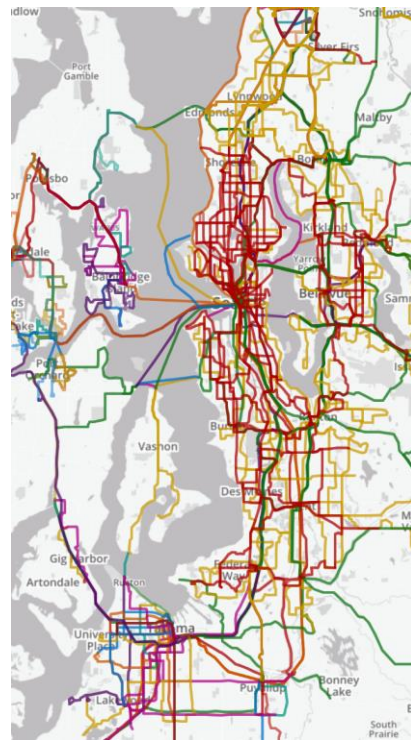
How did we accomplish the integration?

Everyone was involved:

- Every transit agency was part of the dialog on integration
- Technical and policy makers came together

Region purchased software for everyone

- Utilized a Regional Grant Opportunity
- Proprietary software removed the technical barrier for our smaller agencies



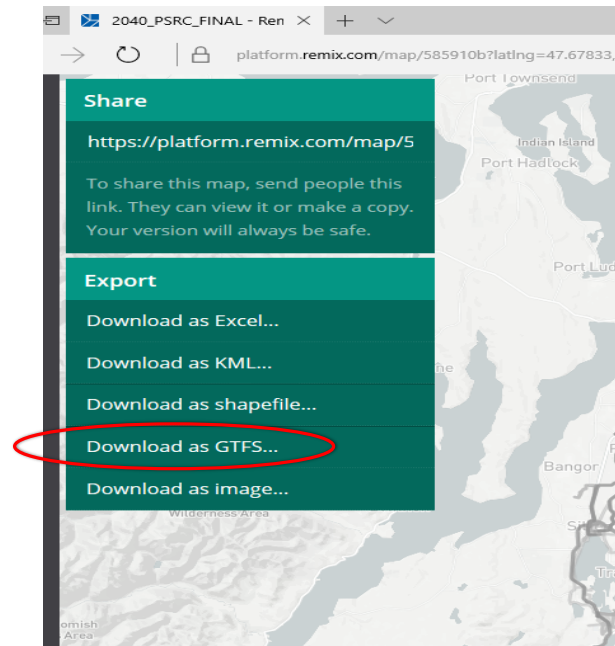
Tools used for Integration

Transit Agencies coded their networks concurrently with REMIX:

- REMIX lowered the technical barrier for our smaller agencies

PSRC staff used REMIX output to further the analysis

- gtfs outputs were used to create networks in PSRC's geodatabase
- Staff utilized ArcGIS tools to analyze the network and create visuals





Showcasing the Investments

Transit Projects: 2010 - 2015

Community Transit:

- Swift Blue Line

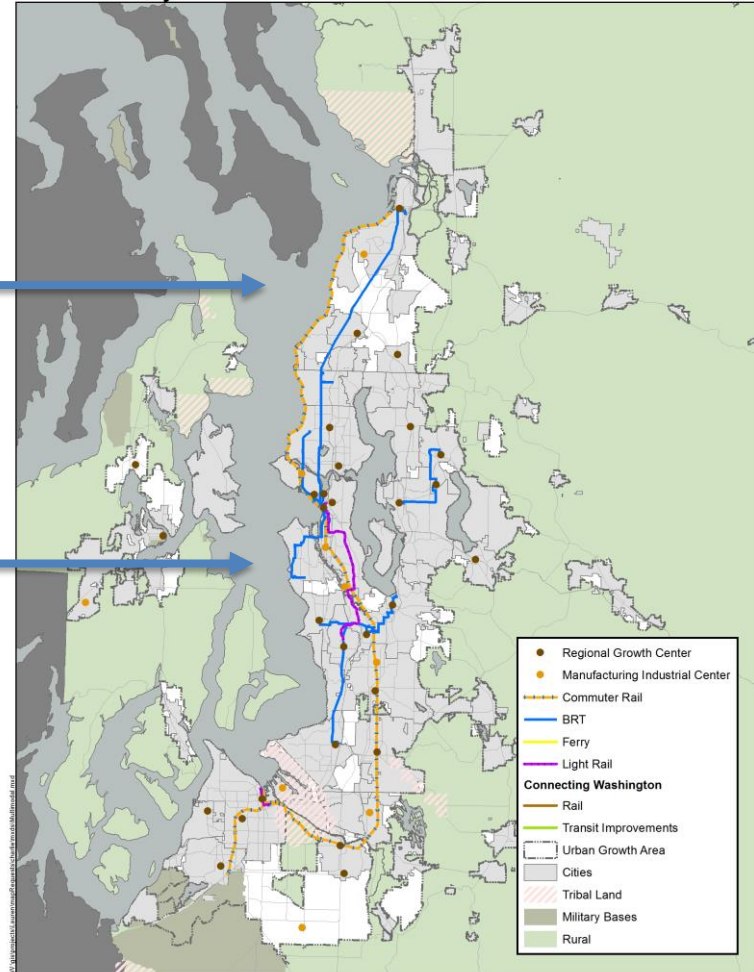
King County Metro:

- RapidRide Lines A-F

Sound Transit:

- Light Rail from SeaTac to Westlake Station

Transit Projects 2010 - 2015



Transit Projects: By 2025

Community Transit:

- Swift Green & Orange lines

King County Metro:

- RapidRide Burien – Delridge

Kitsap Transit:

- Bremerton, Kingston and Southworth
Passenger Only Ferry service

Pierce Transit:

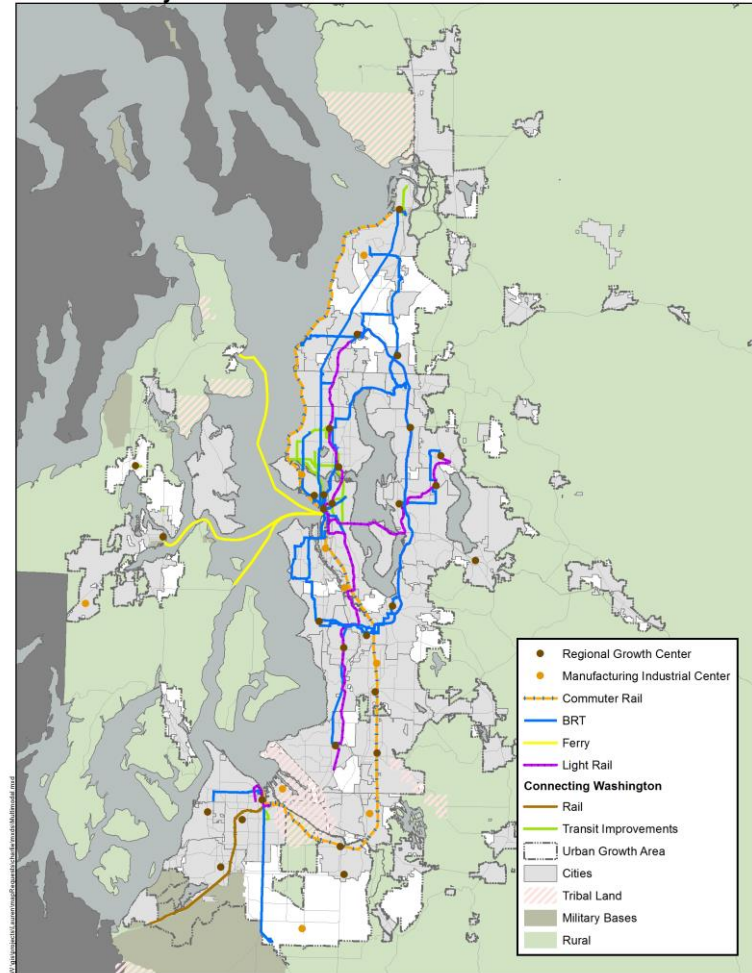
- Pacific Avenue BRT

Sound Transit:

- Light Rail extended to Federal Way, Lynnwood and Redmond
- I-405 and SR 522 BRT



Transit Projects 2025

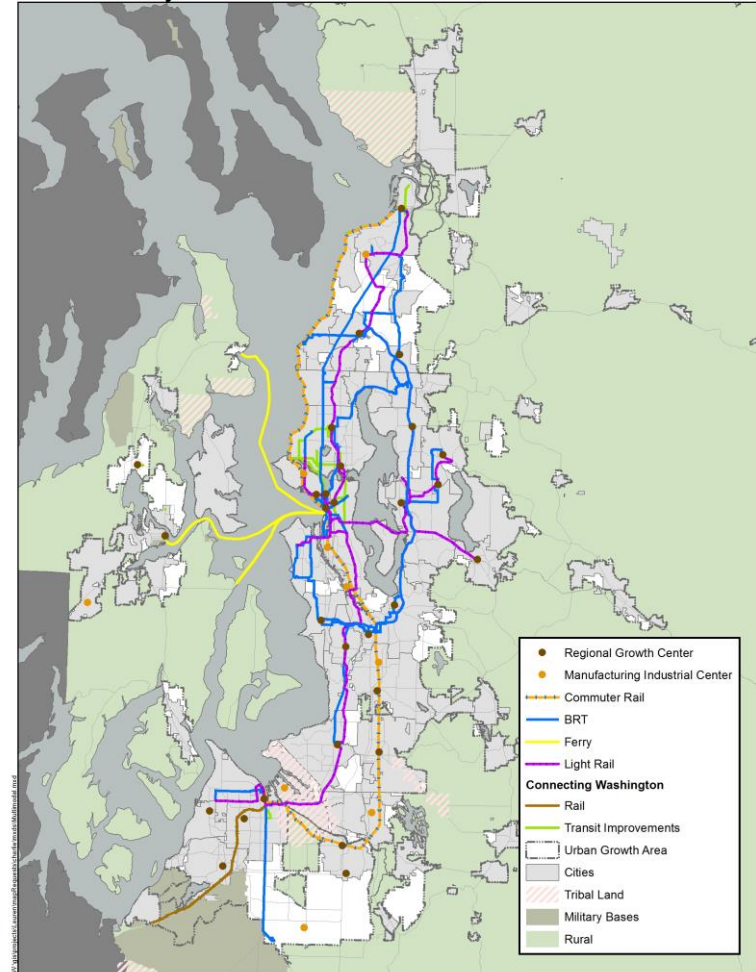


Transit Projects: By 2040

Sound Transit:

- Light Rail extended to Tacoma, Everett, Issaquah, West Seattle and Ballard

Transit Projects 2040



Transit Project Benefits

With Transit investments funded or built since 2010:

- 65% of the jobs in the region are within ½ mile of a funded high capacity transit station
- 27 of 29 Regional Growth Centers are served directly by High Capacity Transit stations
- 7 of 9 Manufacturing and Industrial Centers are served directly by High Capacity Transit Stations



Corridor	2015 Peak Reliable Travel Time by Car	2040 Peak Reliable Travel Time by Transit
Lynnwood to Seattle	58 minutes	28 minutes
Redmond to Bellevue	32 minutes	10 minutes
Federal Way to Seattle	52 minutes	42 minutes
Bremerton to Seattle	60 minutes	28 minutes
Kingston to Seattle	65 minutes	33 minutes

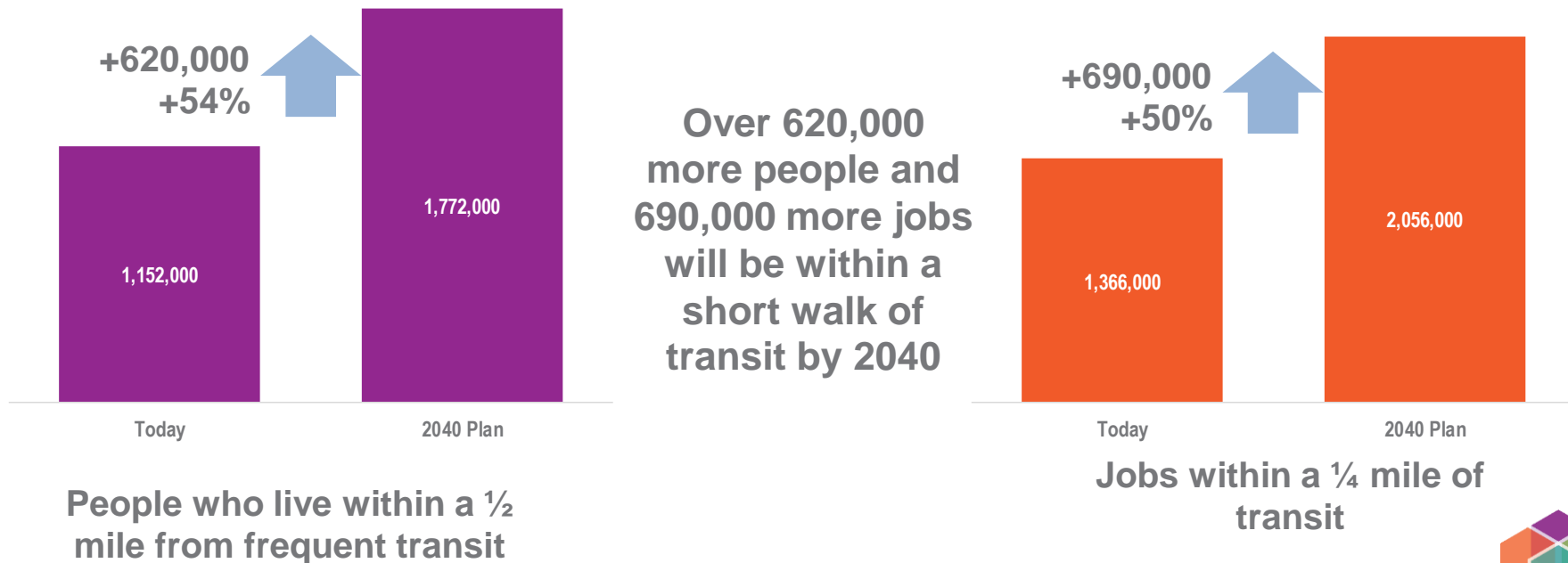
Source: WSDOT, Sound Transit, Kitsap Transit



Highlighting Plan Performance

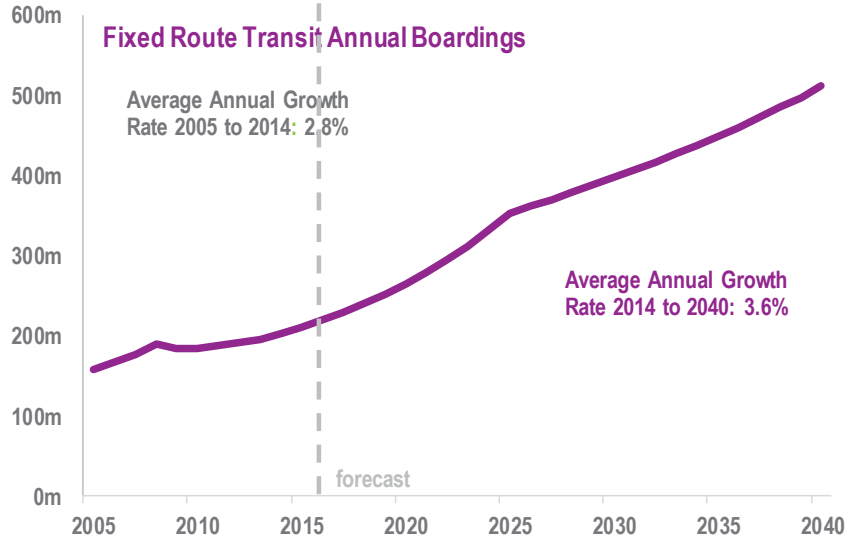
The Plan provides travel choices for people to get around

How many people have access to a bus or train that operates every 15 minutes or less?



Transit use is forecasted to grow with the Plan

How many boardings are occurring every year on the region's fixed route transit system?

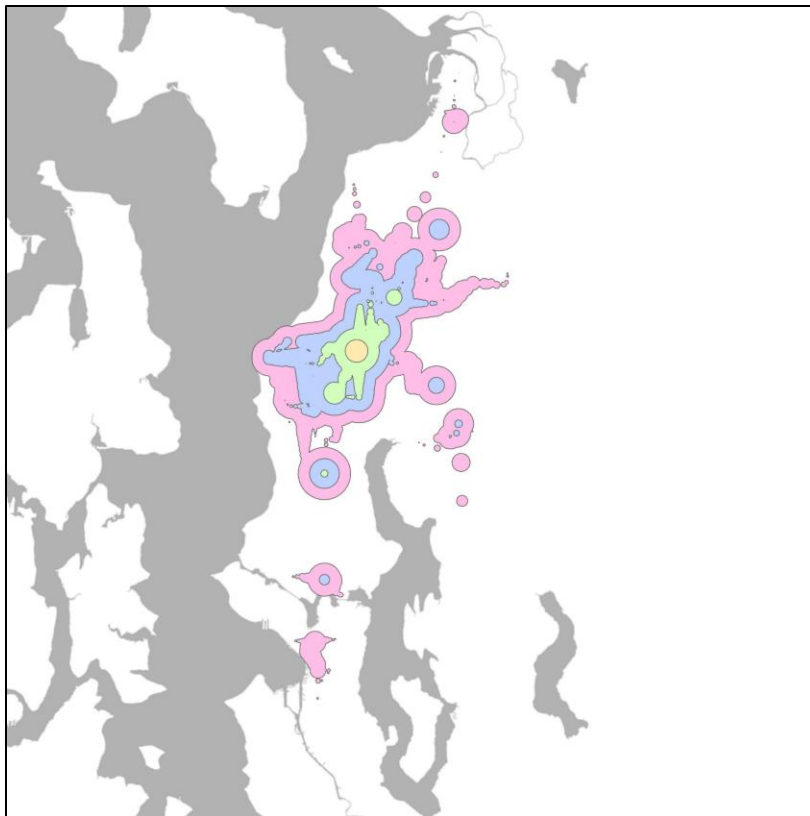


- About 215 million annual boardings occurred on the regional system in 2016
- By 2040, almost 510 million annual transit boardings are forecasted to occur



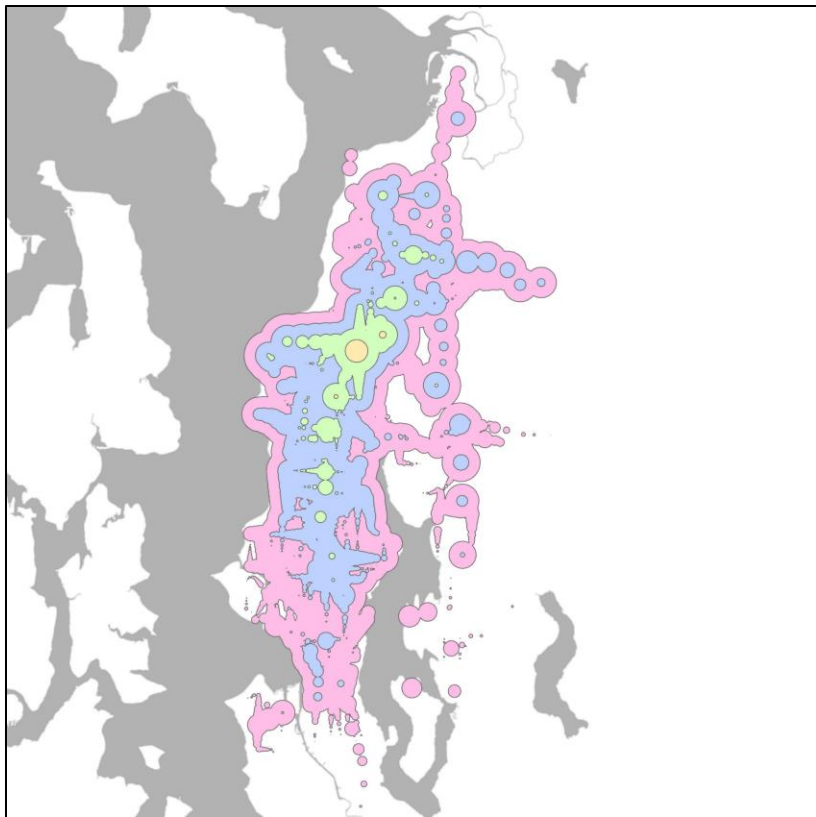
Accessibility to People and Jobs is improved significantly with the Plan

- Based on where people live and work in 2015 and the existing transit network, the total number of people and jobs a within 1hr via transit from the Lynnwood Transit Center at noon on a weekday is:
 - 560,000 people
 - 414,000 jobs



Accessibility to People and Jobs is improved significantly with the Plan

- Based on where people live and work in 2040 and the Regional Transit Network, the total number of people, jobs and total activity units accessible within 1hr via transit from the Lynnwood Transit Center at noon on a weekday is:
 - 1,150,000 people (+593,000)
 - 814,000 jobs (+400,000)



Questions?

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