

# TRANSPORTATION MATTERS

## **MOVING WASHINGTON FORWARD**

ROGER MILLAR, SECRETARY OF TRANSPORTATION  
House Transportation Committee  
January 17, 2019

# Overview

- Transportation Matters
- WSDOT Overview
- Workforce Development
- Inclusion
- Practical Solutions
- The Next 10 Years



# Transportation Matters

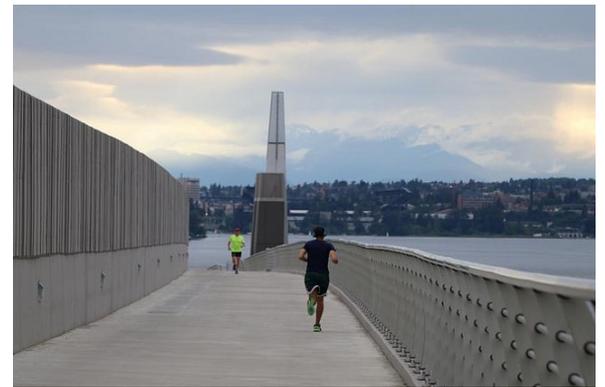
## Economy

- Washington is one of the most trade-centric states in the nation
  - Gross business income for freight-dependent industry is \$595 billion (2017)
  - 1 in 3 Washington jobs is directly or indirectly related to international trade
- Geography and commute patterns – our state's unique geography restricts our transportation corridors

# Transportation Matters

## Quality of life

- Climate Change
- Affordable housing
- Public health
- Access to nature, recreation



# Transportation Matters

## Social equity – access to opportunity

- Percentage of family income spent on transportation highest for the least well off\*
  - Upper third: 8.2%, Middle third: 11.2%, Lower third 15.7%\*\*
- Approximately 20% of Washingtonians don't hold a driver's license
- Transit investments provide access to opportunity
- More than 85% of people who use transit – walk or ride a bike at the beginning or end of their trip
- [Active transportation](#) (biking, walking, skateboards, etc.) serves as fundamental, low-cost transportation for people who can't afford a vehicle, can't or don't drive



\*Source: Pew Charitable Trusts, "[Household Expenditures and Income](#)" March 30, 2016

\*\* Data does not include use of public transportation or tolls

# Future Trends

- [Resilience](#)
- Alternative Energy
- Technology
- Governance/Financing





# WSDOT Overview

## Our Vision

Washington travelers have a safe, sustainable and integrated multimodal transportation system.

## Our Mission

We provide safe, reliable and cost-effective transportation options to improve communities and economic vitality for people and businesses.

## Our values

Safety, Engagement, Innovation, Integrity, Leadership and Sustainability

## Our Strategic Plan Goals

Inclusion, Practical Solutions and Workforce Development



# Overview of the state's connected, multimodal system

THE STATE'S TRANSPORTATION NETWORK IS A CONNECTED SYSTEM THAT MUST SERVE MANY MODES AND USERS



**18,712**  
Highway lane miles  
**307**  
HOV lane miles



**16**  
WSDOT-operated airports



**3,322**  
state-owned bridges



**125**  
miles dedicated bike lanes  
**400**  
miles of sidewalk within/adjacent to WSDOT right-of-way



**23**  
Ferries  
**24.5 million**  
passengers per year



**333**  
miles Amtrak Cascades



**32**  
Transit systems

**800,000**  
annual passengers

**298**  
miles WSDOT-owned shortline freight railroad

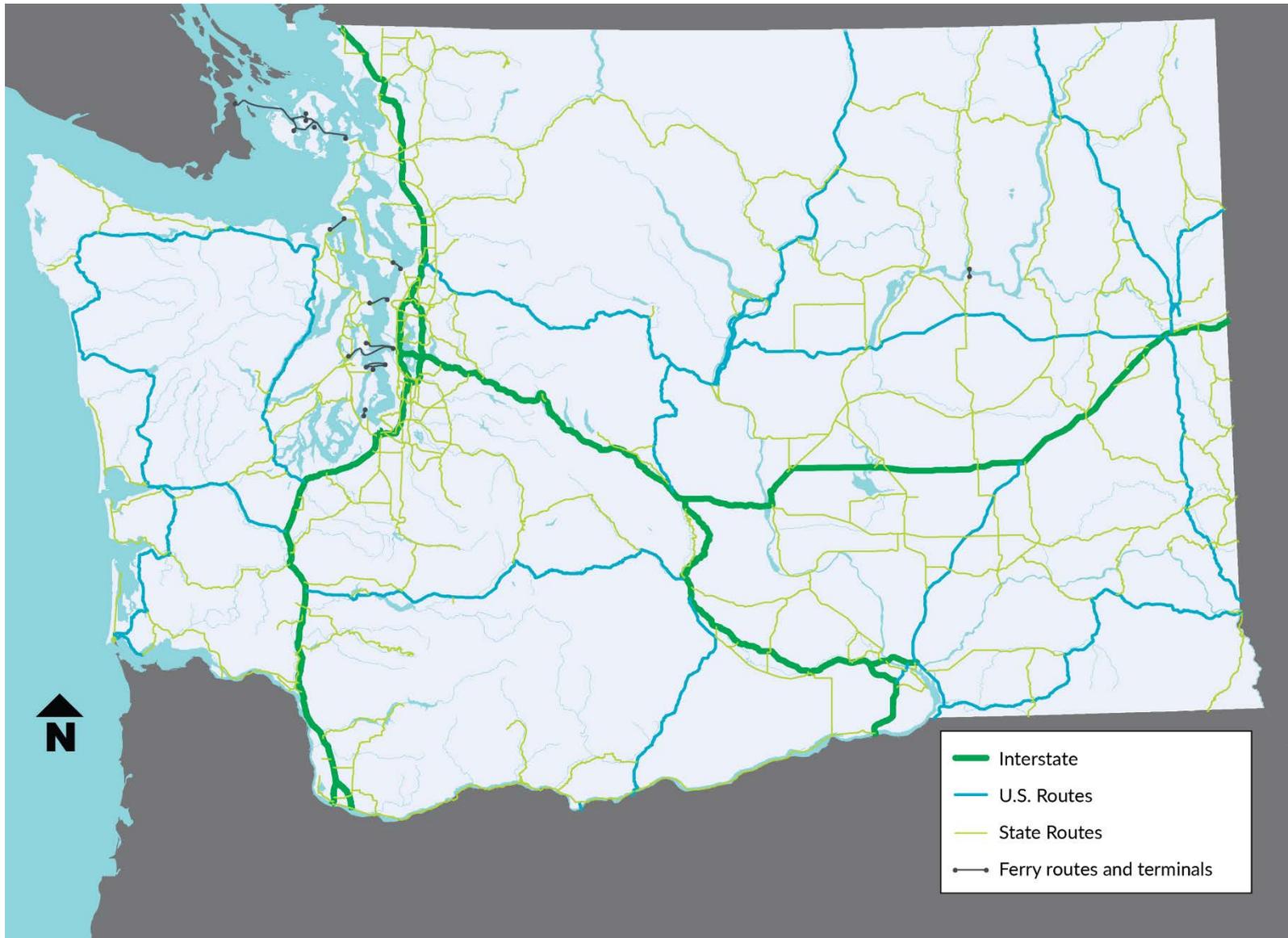
# Asset Management – All WSDOT

(Millions of dollars)	Replacement Value	10-year Average Spending	10-year Future Annual Avg. Spending	10-year Annual Additional Needs	10-year Budget, Plus Needs Annual Avg.
Highways	\$109,390	\$330	\$335	\$330	\$665
Multimodal (i.e. Aviation, Public Transportation, Rail)	\$600	\$15	\$20	\$90	\$110
Intra-Agency (i.e. IT, Facilities, Fleet, Real Estate)	\$66,480	\$55	\$70	\$55	\$125
Ferries	\$4,940	\$110	\$125	\$215	\$340
<b>TOTAL</b>	<b>\$181,410</b>	<b>\$510</b>	<b>\$550</b>	<b>\$690</b>	<b>\$1,240</b>

# Key areas of responsibility – WSDOT Regions



# Key areas of responsibility - Highway system



# Key areas of responsibility – Ferry Routes

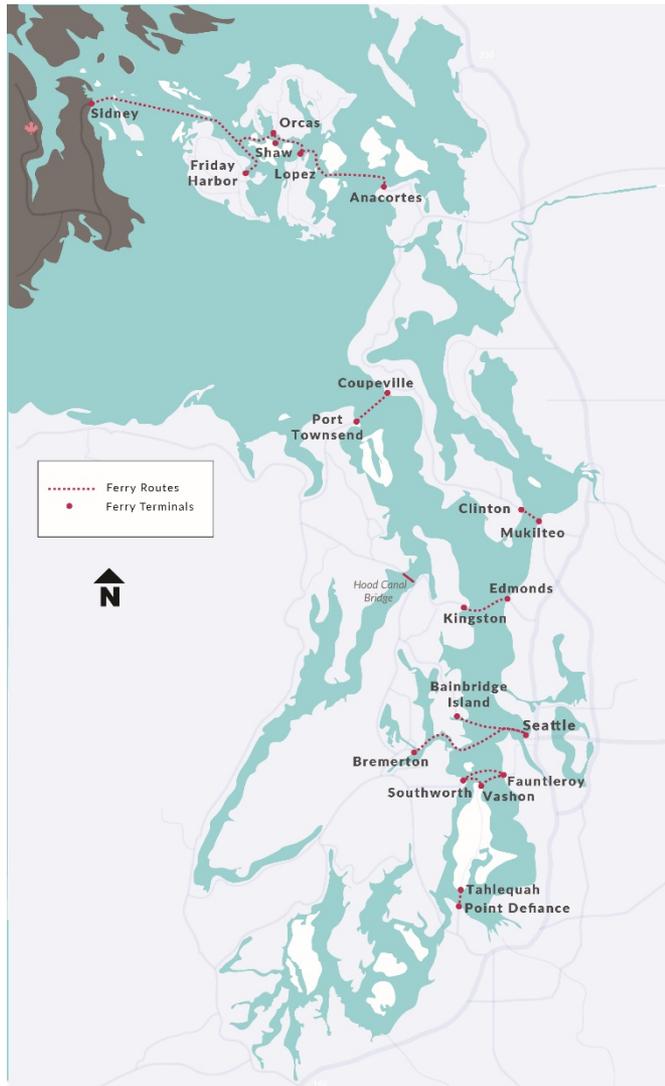
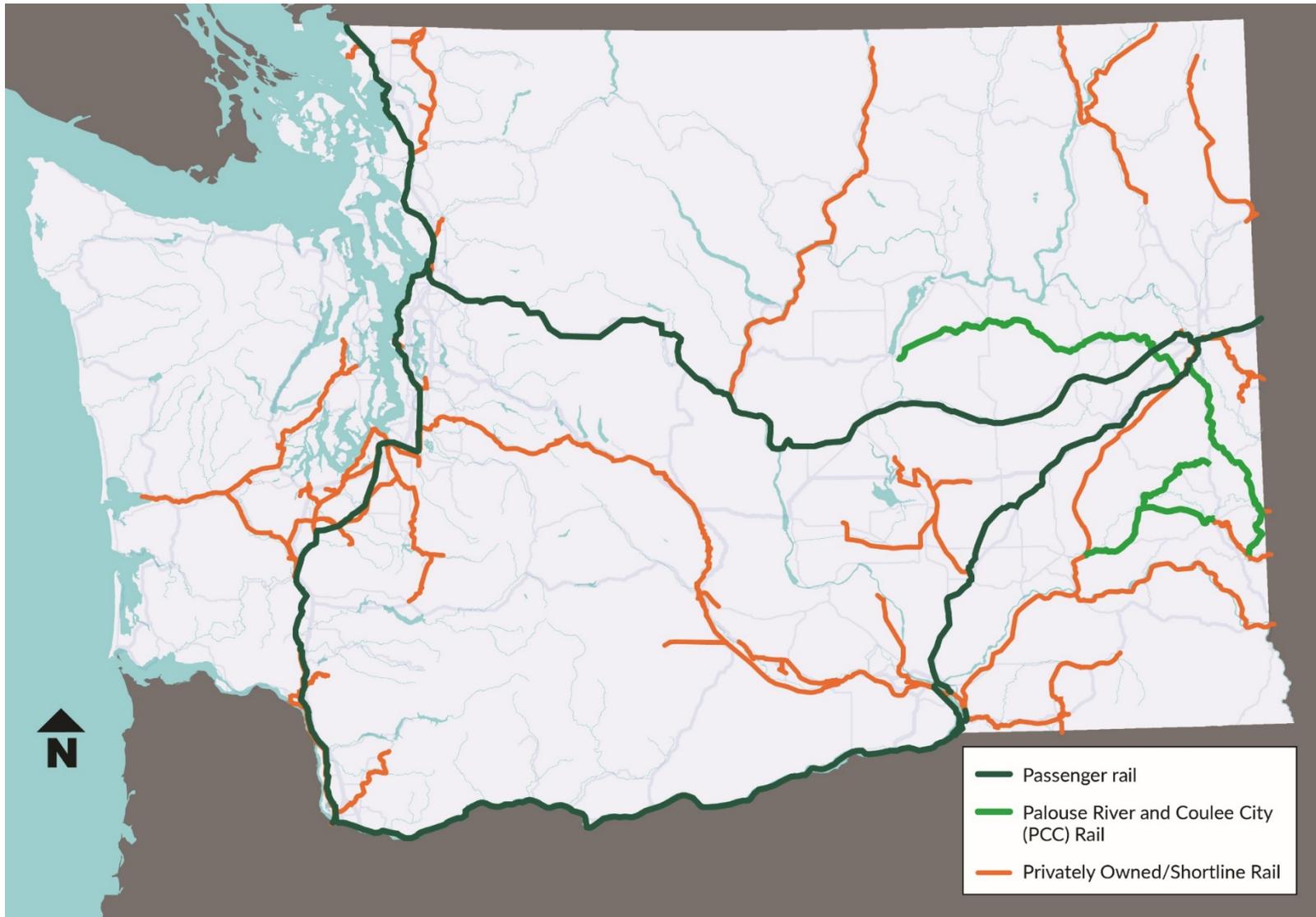
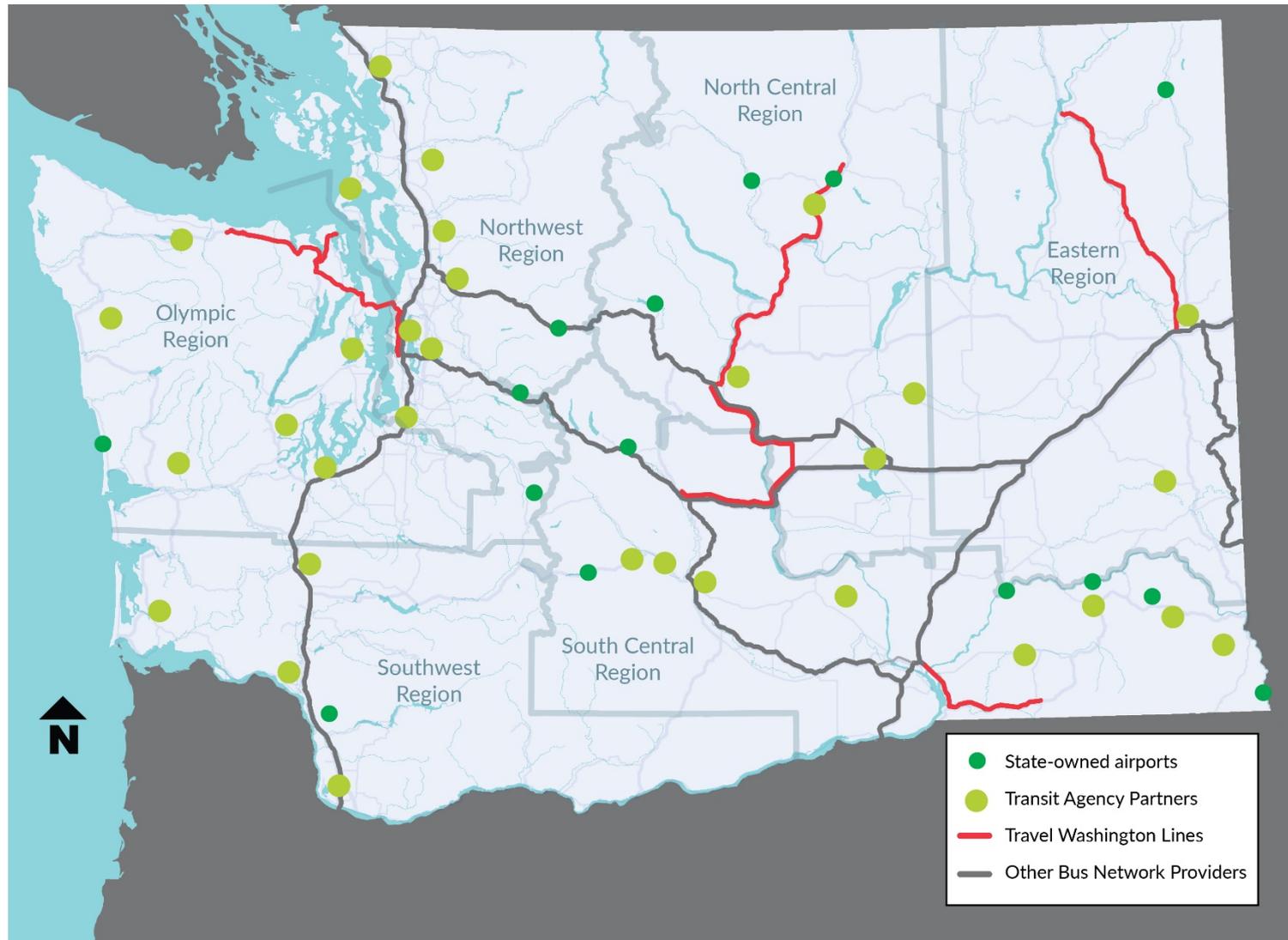


Photo credit: Alvin Kroon, [arkppp@gmail.com](mailto:arkppp@gmail.com)

# Key areas of responsibility – Rail lines/partners



# Key areas of responsibility – Transit and Aviation



# Key areas of responsibility – MPOs/RTPOs



# Workforce Development

## WSDOT Workforce

Total number of employees: 7,137

Eligible to retire within the next five years (does not include employees who might leave for better compensation):

- Maintenance 31% of 1,842 total
- Engineers 41% of 2,085 total
- Washington State Ferries –
  - Masters, Staff Masters 74% of 69 total
  - Licensed vessel engineers 50% of 108 total



# Workforce Development

## Compensation

- Evaluate our job classification system to maintain competitive compensation within government
- Advocate for increased compensation for job classifications meeting criteria in RCW 41.06

## Recruitment and Retention Strategies

- Employer of choice
- Work hours and environment
- [Infant at work](#)
- [Interns](#)
- Apprentices
- DOC initiative



# Inclusion

## Projects and programs

- Outreach and engagement
- Cultural competency

## Delivery

- WSDOT workforce
- Construction industry workforce
  - [Apprenticeship program](#)
  - [Pre-Apprenticeship Support Services](#) (PASS)
- DBE Community
  - [Road map](#)
  - [Mentor protégé](#)



## Results

- More than 200 WSDOT employees completed Community Engagement Training
  - 280 managers, supervisors trained for retaining, hiring diverse workforce
- Projects completed in 2018 achieved 18.6% apprenticeship utilization rate, above the required 15%
  - For the 703,708 apprenticeship hours worked: 28% minority male, 12% white female, 4% minority female
- 86 companies, 30 mentors participating in Mentor-protégé program
- PASS program funding:
  - \$1.5 M in 2017-19 biennium
  - Governor's budget added \$500,000 to the program in 2019-21

# Practical Solutions

## PROGRAM DELIVERY

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### NICKEL AND TPA

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**380** PROJECTS  
COMPLETED

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**91%** ON OR  
UNDER BUDGET | **87%**  
ON TIME

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VALUE OF INVESTMENT  
**\$9.7 BILLION**

### CONNECTING WASHINGTON

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**15** PROJECTS  
COMPLETED

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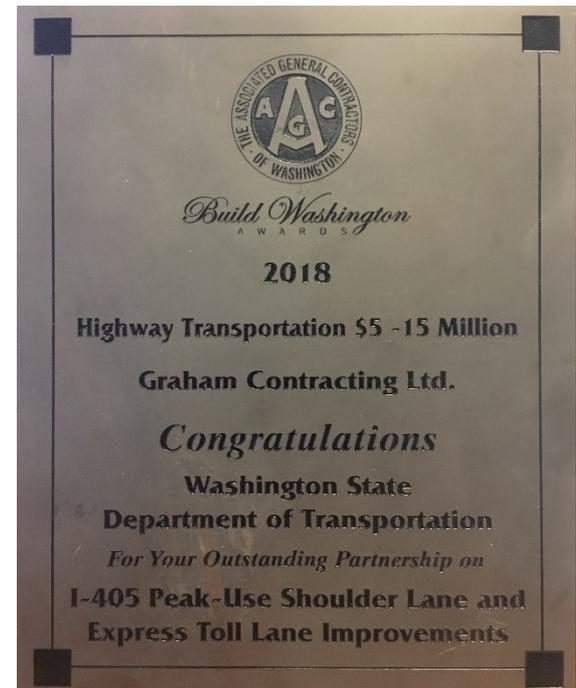
**100%** ON OR  
UNDER BUDGET | **89%**  
ON TIME

# WSDOT Awards in 2018

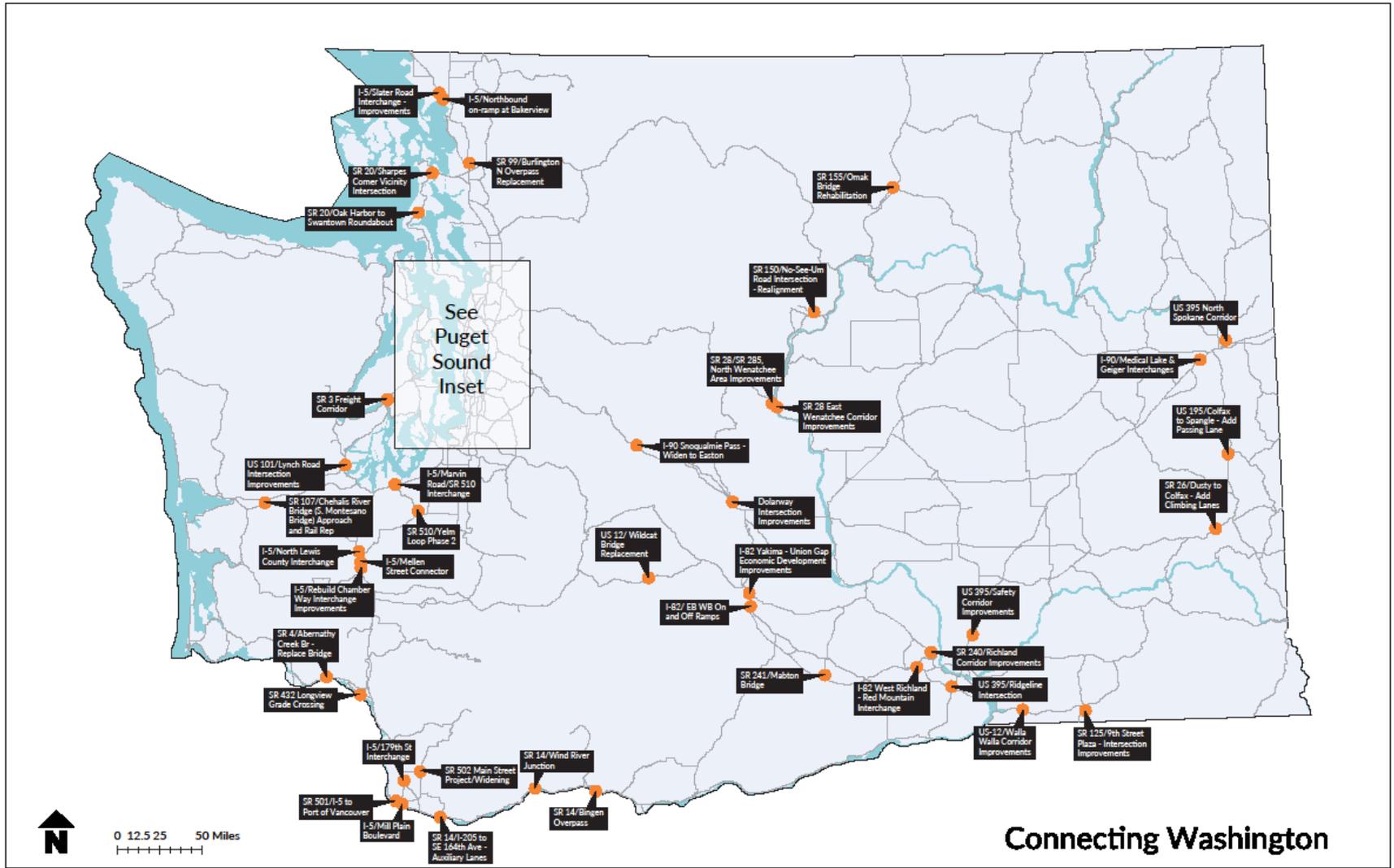
- **American Association of Motor Vehicle Administrators**
  - *Excellence in Government Partnership: US 12 Low Road Intersection Reconfiguration*
- **American Council of Engineering Companies of Washington**
  - *Silver Award: Tacoma Amtrak Cascades Station*
- **American Public Works Association**
  - *2018 Project of the Year - \$25M to \$75M category: I-5 NW LaCenter Road Interchange*
- **American Society of Civil Engineers**
  - *Outstanding Civil Engineering Achievement, Merit Award: SR 520 Program*
- **Associated General Contractors**
  - *Partnership for Excellence in Contract Administration – Eastern Wash. less than \$3M: US 97 Blewett Pass Culvert Replacements*
  - *Partnership for Excellence in Contract Administration – Eastern Wash \$3M - \$10M: US 395 Deer Park*
  - *Partnership for Excellence in Contract Administration – Eastern Wash. Greater than \$10M: I-90, Snowshed to Keechelus Dam, Phase 1C – Replace Snowshed*
  - *Partnership for Excellence in Contract Administration – Western Wash. Less than \$3M: US 101 D St. to Waster Street Paving and ADA*
  - *Partnership for Excellence in Contract Administration – Western Wash. \$3M - \$10M: SR 518 EB Off-ramp to Des Moines Memorial Drive*
  - *Partnership for Excellence in Contract Administration – Western Wash. Greater than \$10M: I-5 NB S 260<sup>th</sup> St to Duwamish River Bridge*
  - *Partnership for Excellence in Contract Administration Statewide Design-Build Less than \$30M: US 12 Wildcat Creek Bridge Replacement*
  - *Partnership for Excellence in Contract Administration Statewide Design-Build Greater than \$30M: I-5 NB MLK Way to NE Ravenna Bridge*
- **Conference of Minority Transportation Officials (COMTO)**
  - *Industry Leader Award*
- **International Federation of Civil Engineers**
  - *Outstanding Civil Engineering Achievement Merit Award: SR 520 Program*
- **International Road Federation**
  - *Award of Merit: SR 520 Program*

# WSDOT Awards in 2018 (continued)

- **MarCom Awards (Association of Marketing and Communication Professionals)**
  - *Platinum Award*: “No Distractions” Work Zone Safety video
- **National Association of Minority Contractors**
  - *Agency Champion Award*
- **Pre-Cast/Prestressed Concrete Institute**
  - *Robert J. Lyman Award*: Alaskan Way Viaduct Replacement Program
- **Public Relations Society of America**
  - *Totem Award*: “Stay Back from the Tracks” campaign
- **Tabor 100**
  - *Crystal Eagle Award*: Office of Equal Opportunity Director Earl Key
- **TransComm (AASHTO Transportation Communication)**
  - *Graphic Design – Display; Social Media – Best Use of Social Media in a Campaign; Website/Technology*
- **Washington Asphalt Paving Association**
  - *Carl Minor Award - Best Overall WSDOT Paving Project; 1<sup>st</sup> Place Paving Project - West*: SR 20 & SR 525 Bob Galbreath Rd. to Holbrook Rd
  - *1<sup>st</sup> Place Paving Project – East; Smoothness Award – East*: US 2 Deer Rd to Colbert Corridor
  - *Smoothness Award – West; and Merit Award*: I-5 NB So. 260<sup>th</sup> to Duwamish River Bridge
  - *Merit Awards*: SR 150, SR 270, SR 304
- **Washington Aggregate & Concrete Association**
  - *Excellence in Concrete Construction*: I-5 Mill Plain to NE 18th
- **Woodwork**
  - *Wood Design Excellence*: Tacoma Amtrak Cascades Station



# Connecting Washington



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# Connecting Washington Investments

## Multimodal - \$1.3 billion, includes:

- Regional Mobility Grant program – supports local efforts to improve transit mobility - \$200 million
- Transit-related grant projects – park and ride lots, transit facilities, new buses - \$111 million
- Rural Mobility Grant program – public transportation improvements in small cities and rural areas - \$110 million
- Commute Trip Reduction program – sustains a tax credit to businesses with employer-based commuter programs - \$41 million

## Active Transportation

- Safe Routes to School Grants – projects intended to increase walking and biking to school - \$56 million
- Pedestrian and Safety Grants – projects that support statewide local agencies' efforts to improve conditions for people who walk or ride bicycle - \$75 million



# State of Good Repair

## Maintenance and preservation needs

- Big assets/liabilities
  - Interstate/major highway bridges and pavement
  - Washington State Ferries vessels and docks
  - Amtrak Cascades
  - Palouse River and Coulee City (PCC) Rail System



Fire suppression pipe on Ship Canal bridge in Seattle.

# State of Good Repair

## Programmatic responses

- [Pavement](#)
- [Structures](#)
- Drainage systems
- [Intelligent Transportation Systems \(ITS\)](#)
- [Unstable Slopes](#)
- Facilities
- [Fleet](#)



# State of Good Repair

## Right-of-way management

- [Vegetation](#)
- [Trash](#)
- Encampments
- [Rest areas](#)



# Safety



## Target Zero

- Distracted driving
- Impaired driving

## Programs

- Infrastructure investment
- Incident response
- Positive Train Control
- Electronic enforcement
- Active Transportation

# TSMO within WSDOT

## Transportation Systems Management & Operations (TSMO)

*Managing safety and capacity as an asset*

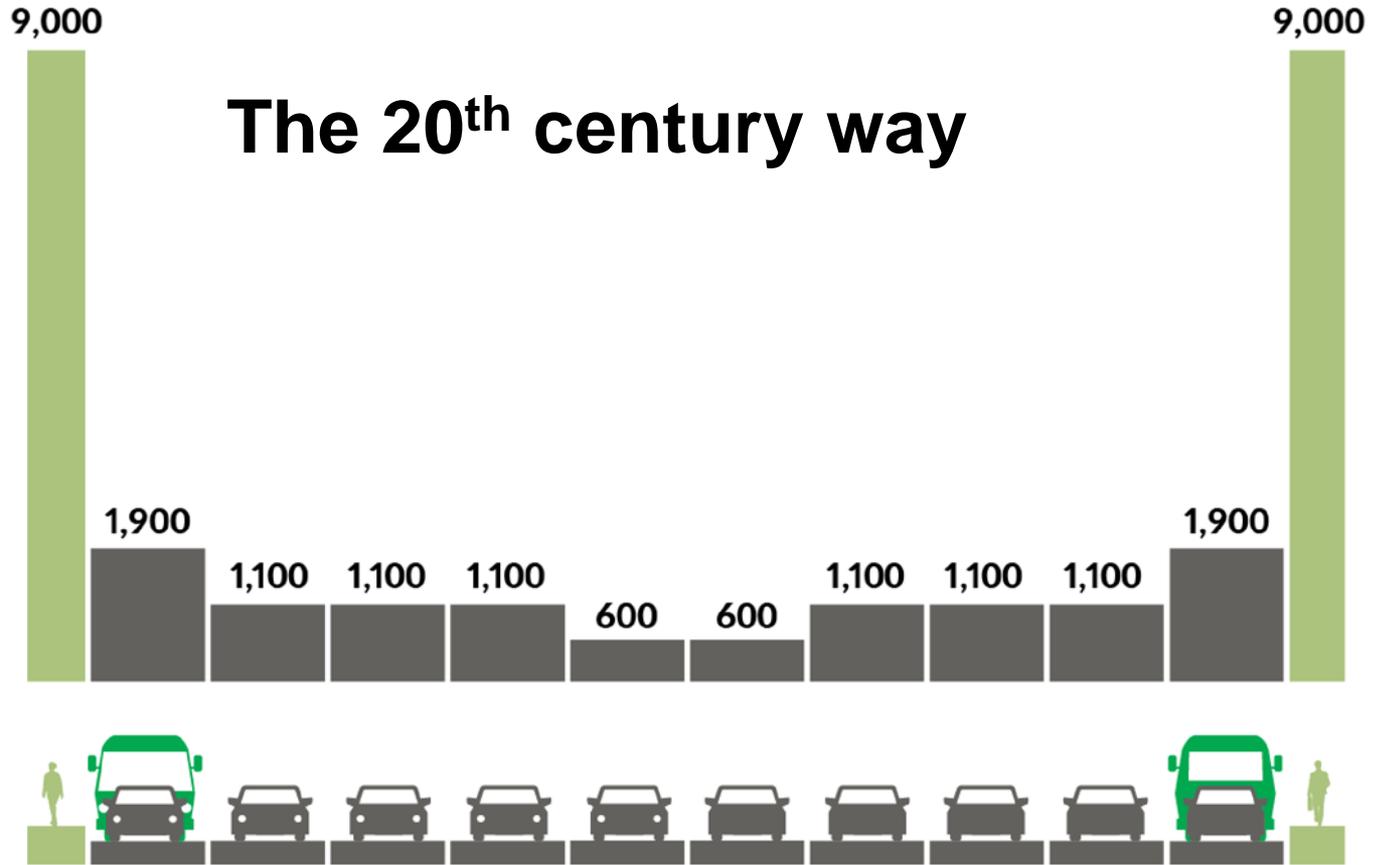


# Do our old standards meet today's demands?

  
**How many people  
can this street  
serve per hour?**

Up to  
**29,600**

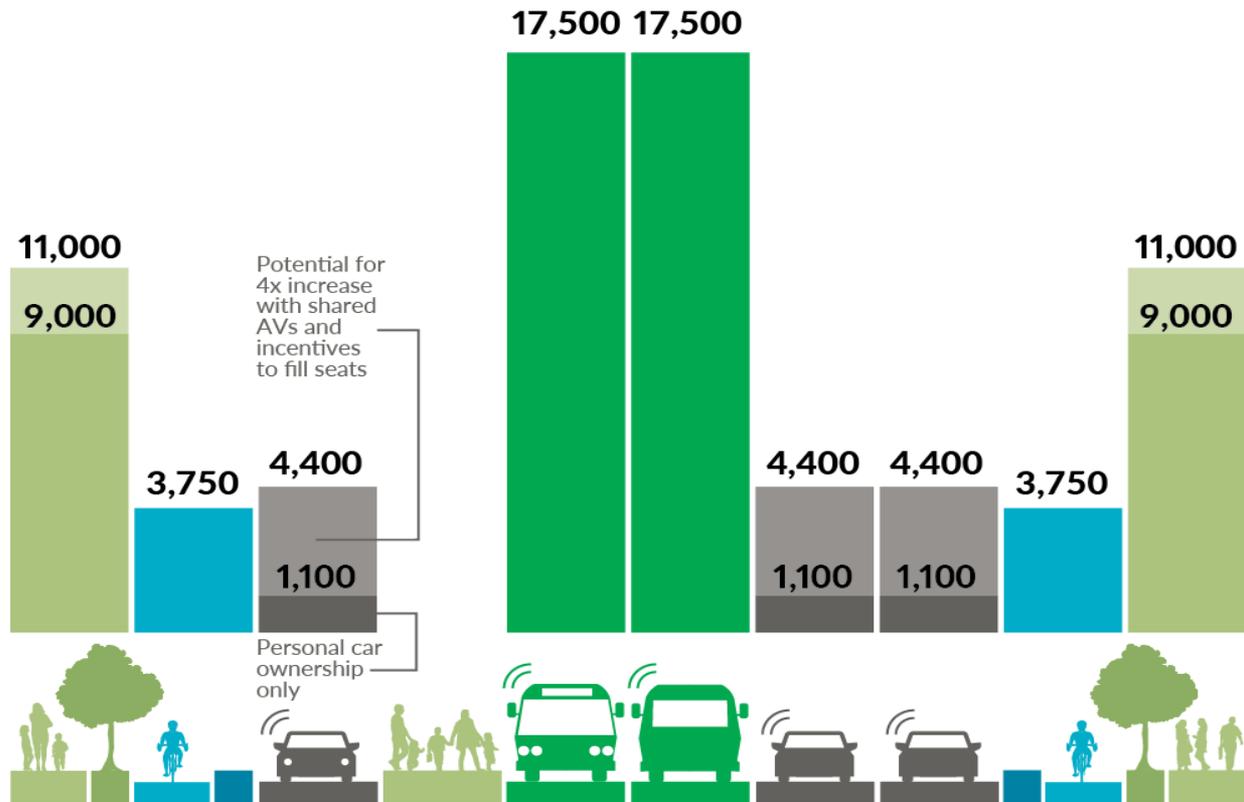
Source: NACTO Transit Street Design Guide



# A new way to look at our transportation system

If we manage the asphalt and concrete, we can move more people

  
**How many people  
can this street  
serve per hour?**  
  
Up to  
**77,000**  
Source: NACTO Transit Street Design Guide

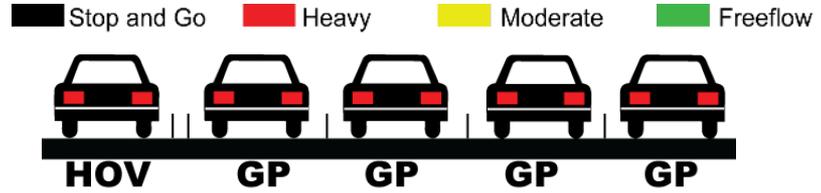




# I-5 and I-405 peak hour performance comparison

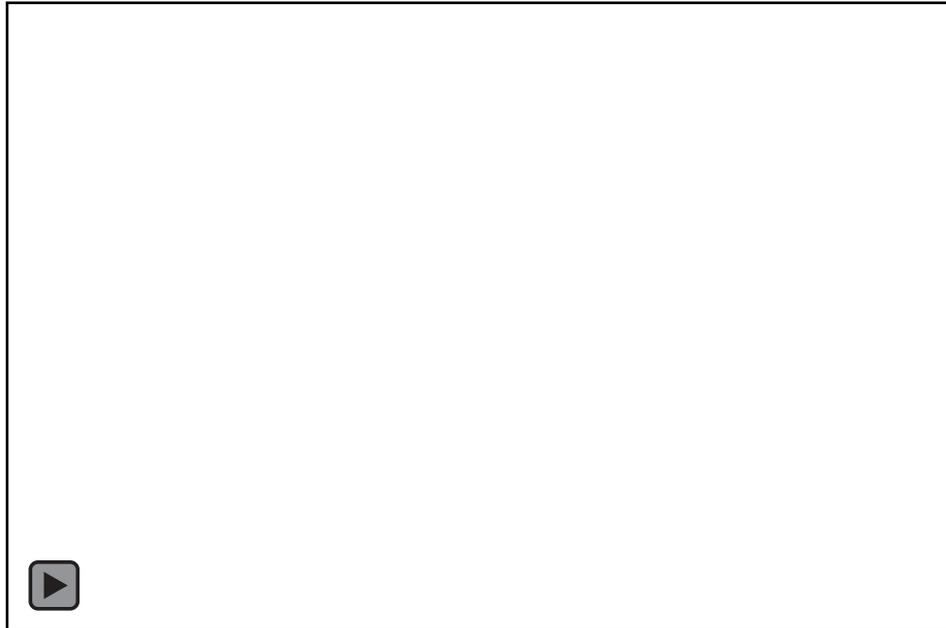
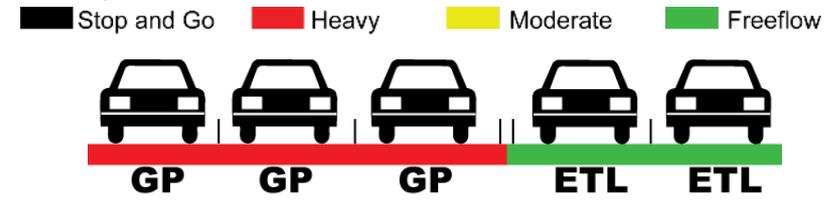
## I-5 (Northbound at NE 130th St)

Daily Volume: 105,000



## I-405 (Northbound at NE 85th St)

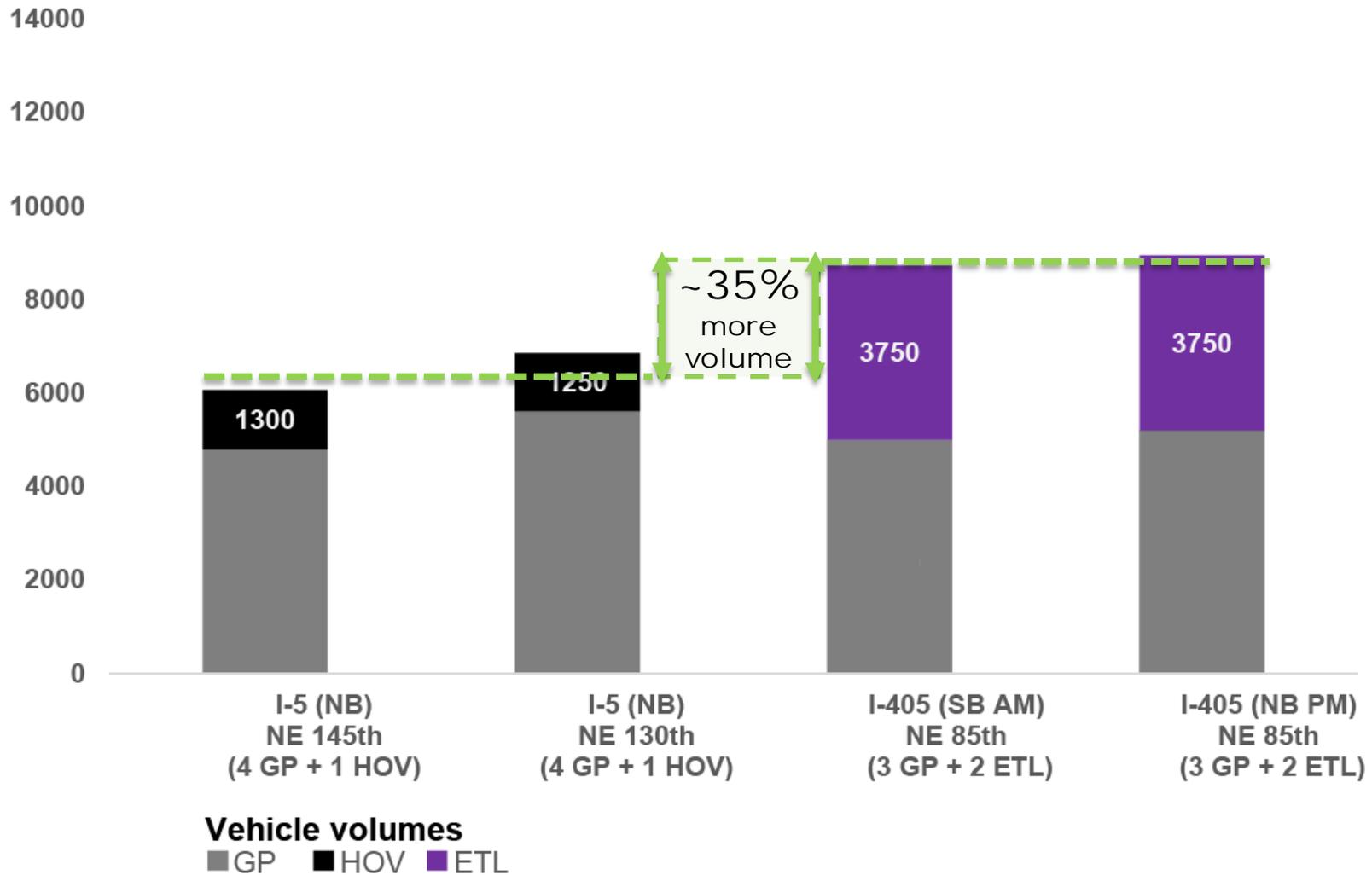
Daily Volume: 107,000



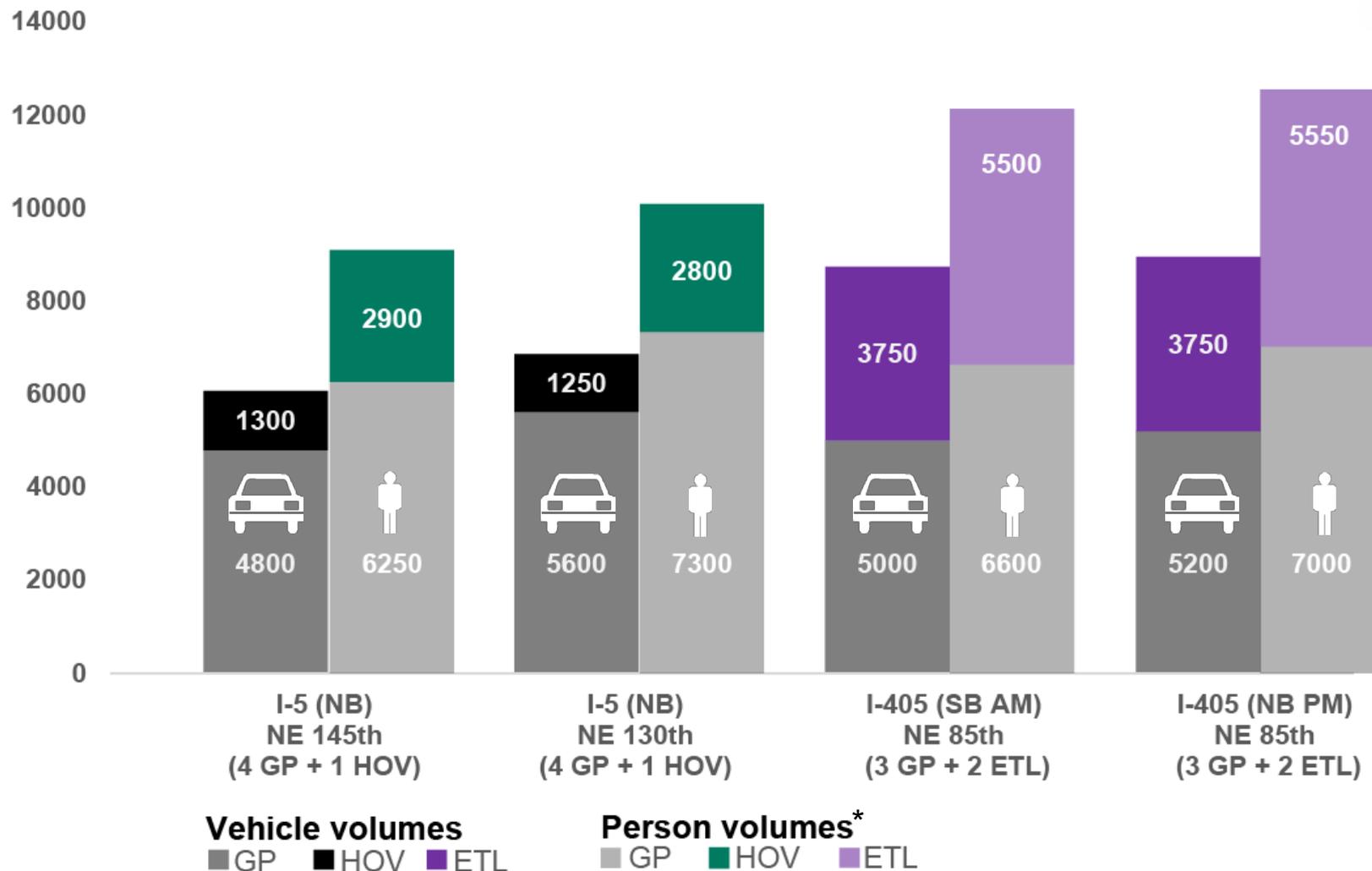
Tuesday, July 12, 2017 4:50 p.m.

Tuesday, July 25, 2017 4:30 p.m.

# I-405 section with dual express toll lanes moves more vehicles than five-lane I-5 sections with similar daily traffic volumes



# Comparison of volumes moved in five-lane sections of I-405 and I-5 with similar daily traffic



\*I-5 person estimates based on TRAC occupancy data (2012). I-405 person estimates based on occupancy sampling (2017). Transit ridership not included in person estimates.

# Transportation System Management and Operations

## Current investments

- [Transportation Management Centers](#) (TMCs)
- [Ramp meters](#)
- [Express Toll Lane](#) / [High Occupancy Toll](#) (HOT)
- [High Occupancy Vehicle](#) (HOV)
- [Active Traffic Management](#)
- [Traffic Cameras](#)
- Variable Message Signs (VMS)
- [WSF Reservation System](#)

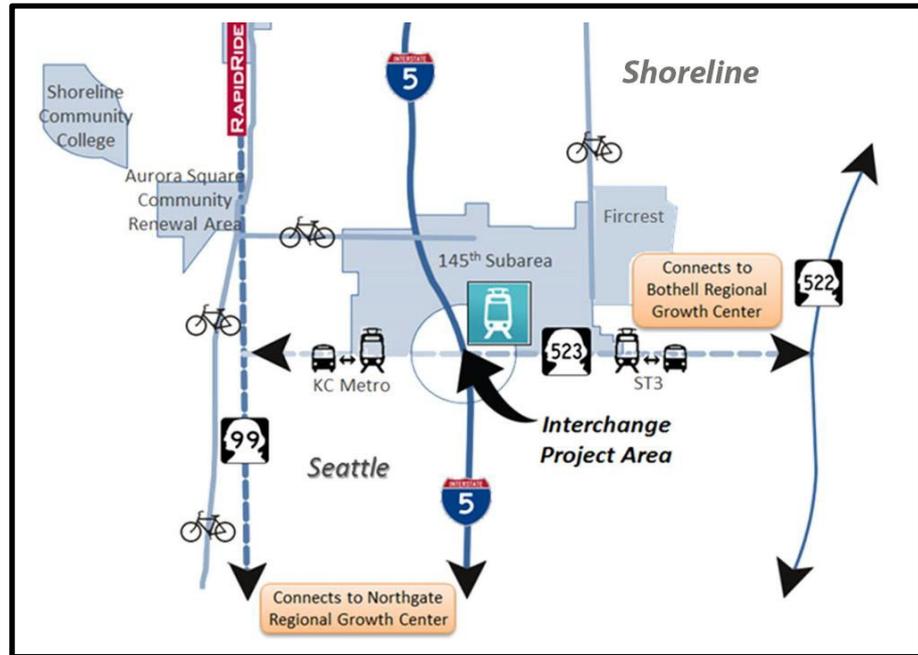
## Proposed Investments

- Safety and System Operations
- Cooperative Automated Transportation



# Transportation Demand Management

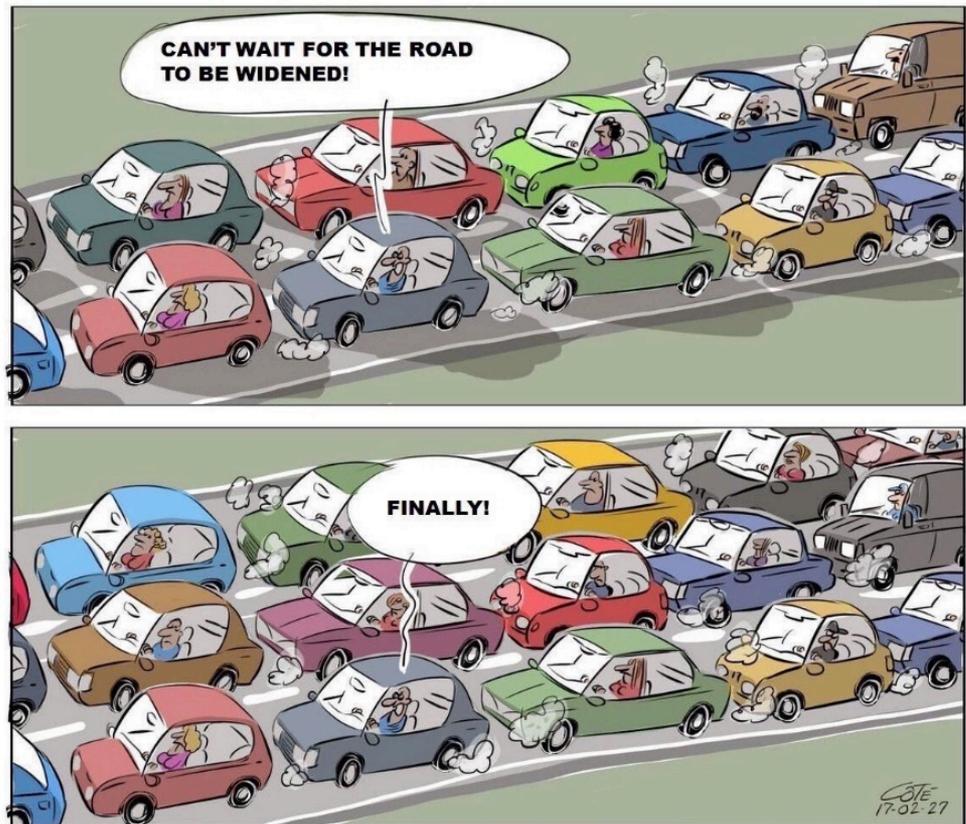
- [Commute Trip Reduction](#)
- [Mode Shift](#)
- Off system investment
- Land Use



# Capacity

## Smart capacity investment – Highway examples

- [North Spokane Corridor](#)
- [Puget Sound Gateway](#)



# Capacity

## Washington State Ferries

- Need to increase fleet size to maintain reliable service, allow for maintenance and repair of existing vessels
- Demand is increasing:
  - Ridership expected to grow more than 30% – from 24.5 million riders in 2017 to approximately 32.5 million in 2040
  - Walk on passenger ridership expected to increase by 45%, vehicle ridership by 21%



# Capacity



## Amtrak Cascades

- One year since derailment near DuPont
- Will return to Point Defiance Bypass in 2019, following release of NTSB recommendations
  - Outreach to communities started, more planned
  - Four daily round trips planned to start
  - Grow service to six round trips daily

## **Ultra-High Speed Ground Transportation Study**

- Business Case Analysis
  - Looking at high-speed connections between Portland and Vancouver, BC, with possible travel times of about an hour between each city
  - Study to be completed July 2019: looks at alignments, station stops, potential ridership, costs, financing options, governance
- Next steps

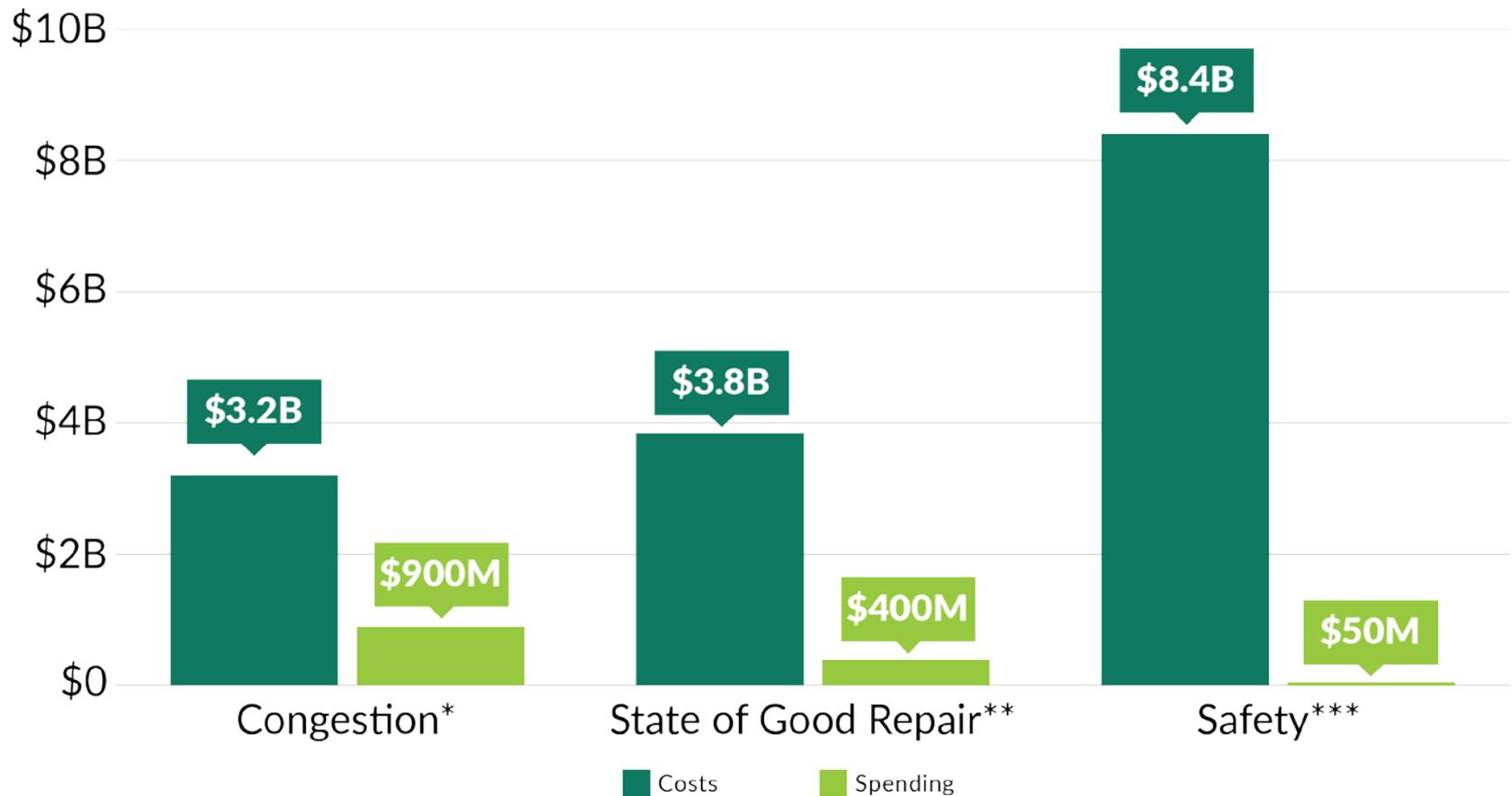
# Capacity

## Active Transportation

- Washington travelers walked or biked an estimated 1.16 billion miles in 2017
- 2017 Annual Bicyclist & Pedestrian Count tallied 560,768 active transportation users
- At 53 permanent counters around the state:
  - 1.3 million trips counted in 2017
  - 20 more permanent counters planned for 2019
- More than 300,000 people crossed Lake Washington via SR 520 Trail in 2018
- Record number of *Pedestrian and Bicycle Program* and *Safe Routes to School* grant requests received in 2018:
  - 255 applications totaling \$187.4 million
  - Anticipate \$41 million available in 2019-21 from all funding sources, including federal and state
- Factoring active transportation into projects and program earlier in the process for cost-effective connections



# Cost to Washington's economy



\* Congestion cost source: Texas Transportation Institute's 2015 Urban Mobility Scorecard; based on value of travel delay and excess fuel consumption for the area from Everett to Tacoma.

\*\* State of Good Repair source: ASCE 2017 Infrastructure Report Card; estimated at \$656 for every Washington driver

\*\*\* Safety source: Based on 2013 National Highway Traffic Safety Administration values for preventing fatal and serious injuries. Economic cost components include: medical care, emergency services, market productivity, household productivity, legal costs, insurance administrative costs, workplace costs, property damage and congestion.



# The Next 10 Years

## Easter Parades in New York City

Year 1900: One Motor Vehicle

Year 1913: One Horse & Carriage





# Response to Future Trends

## Resilience

- \$3.1 billion [fish passage](#) obligation
- \$6.9 billion system preservation need
  - Highways and bridges
  - Ferries
  - Train sets
  - Facilities and equipment
- \$1.5 billion [bridge retrofit](#) need
- \$1 billion safety and system operation program
- Significant projects
  - [I-5 Columbia River Bridge](#)
  - [US 2 Trestle](#)
  - [SR 18](#)
  - [Complete I-405/SR-167 Master Plan](#)
  - [I-5 System Partnership](#)
- None of this is funded

# Response to Future Trends

## Alternative energy

- [EV charging stations](#)
- [Ferry conversion, new vessels](#)
- [Fleet conversion](#)
- [Clean transit](#) – 278 electric buses in Washington
  - WSDOT working with local partners to obtain federal grants to replace diesel with alternative fuel vehicles
- [E-bikes](#), E-scooters

## Technology

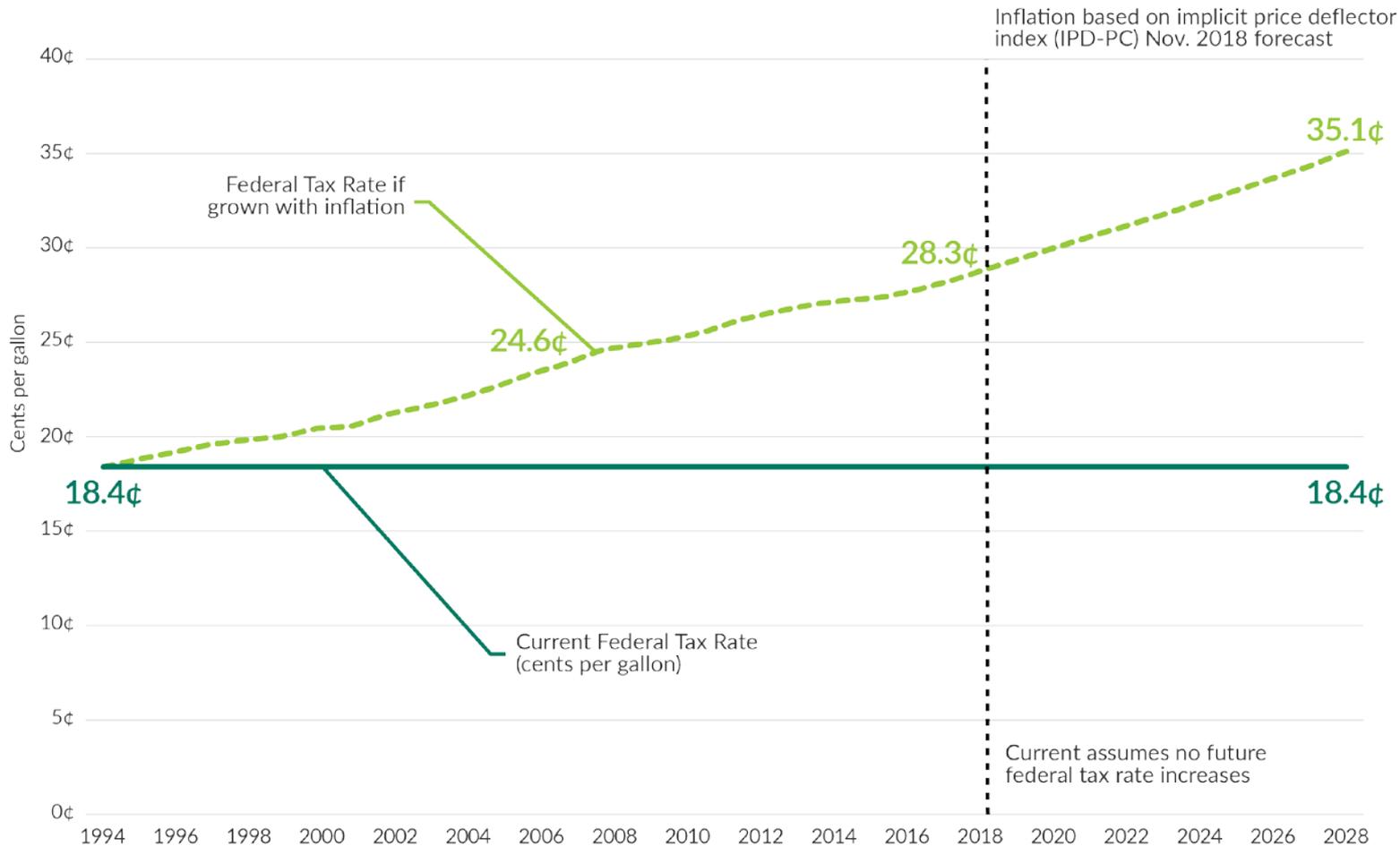
- [Cooperative Automated Transportation](#)
- Mobility on Demand
- Transportation System Management and Operations



# Response to Future Trends

## Governance/Financing

### Federal Tax Rate if Grown with Inflation since FY 1994 (Cents per gallon)







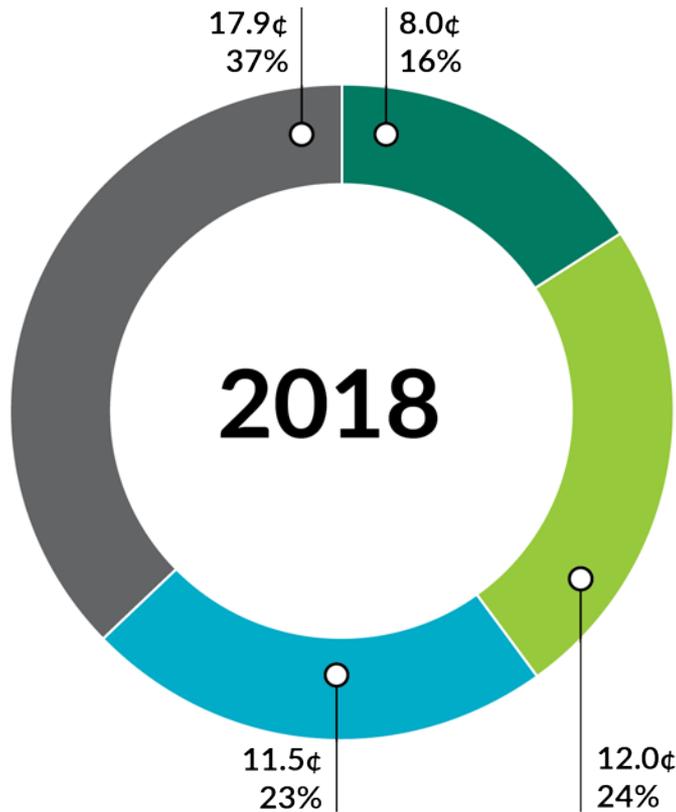
## Response to Future Trends

### Future of the funding

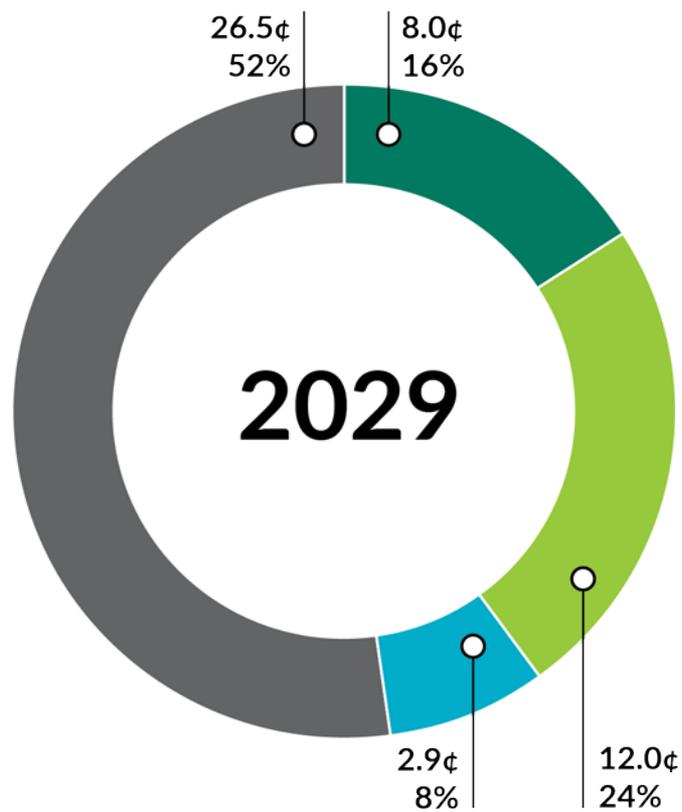
- [Road User Charge](#)
- [Congestion pricing](#)
- [Tolling](#)
- Other?

# Available Funding

Where Does the 49.4¢ State Gas Tax Go?



Where Will the 49.4¢ State Gas Tax Go?

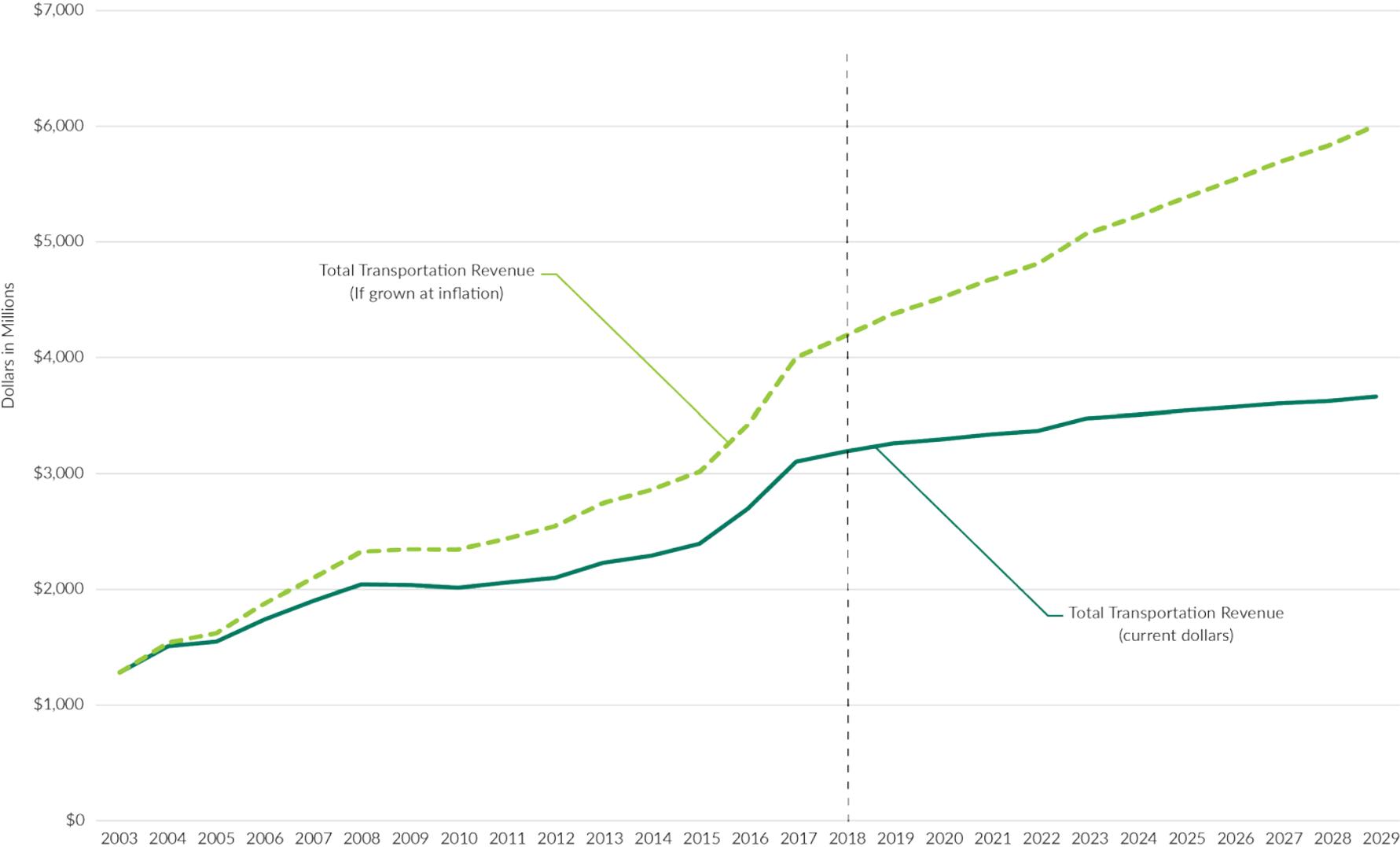


- WSDOT\*
- Cities & Counties (Local Government)
- Legislatively Directed Investments\*\*
- Debt Service\*\*

\* Includes operations, maintenance, preservation and safety improvements.

\*\* Includes funding for projects specified in the 2003 Nickel, 2005 Transportation Partnership, and 2015 Connecting Washington acts, as well as funding to pay off bonds funded by pre-2003 fuel tax.

# Total Transportation Revenues - Current and Grown at Inflation (\$millions)



Source: Transportation Revenue Forecast Council, June 2018 quarterly forecast

# Practical Solutions – Aligning our investments with our values

## Integrated Multimodal Investment Strategy

- 20-year strategy developed over next five years
- Ensure legislative policy goals shape investment decisions through a transparent performance framework, aligned with regional and local partners
- Improve project quality and most effective use of limited funds
- Provide priority basis and long-term vision for the state transportation system serving people, goods, and services



# Practical Solutions – Aligning our investments with our values

## Metropolitan Planning Organization /Regional Transportation Planning Organization (MPO/RTPO) partnership for strategy development

- Greater consistency between state and regional plans
- Shared priorities for investment
- Clear, consistent, repeatable processes for state input into regional plans
- Share data and plans for state facilities with local significance
- Other partners
  - Federal agencies
  - Tribal governments
  - Other state agencies
  - Business community
  - Labor community
  - Freight community
  - Development community
  - Environmental community
  - Other interests: Accessibility, walking, bicycling and more





Questions?

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Secretary of Transportation

Washington State Department of Transportation

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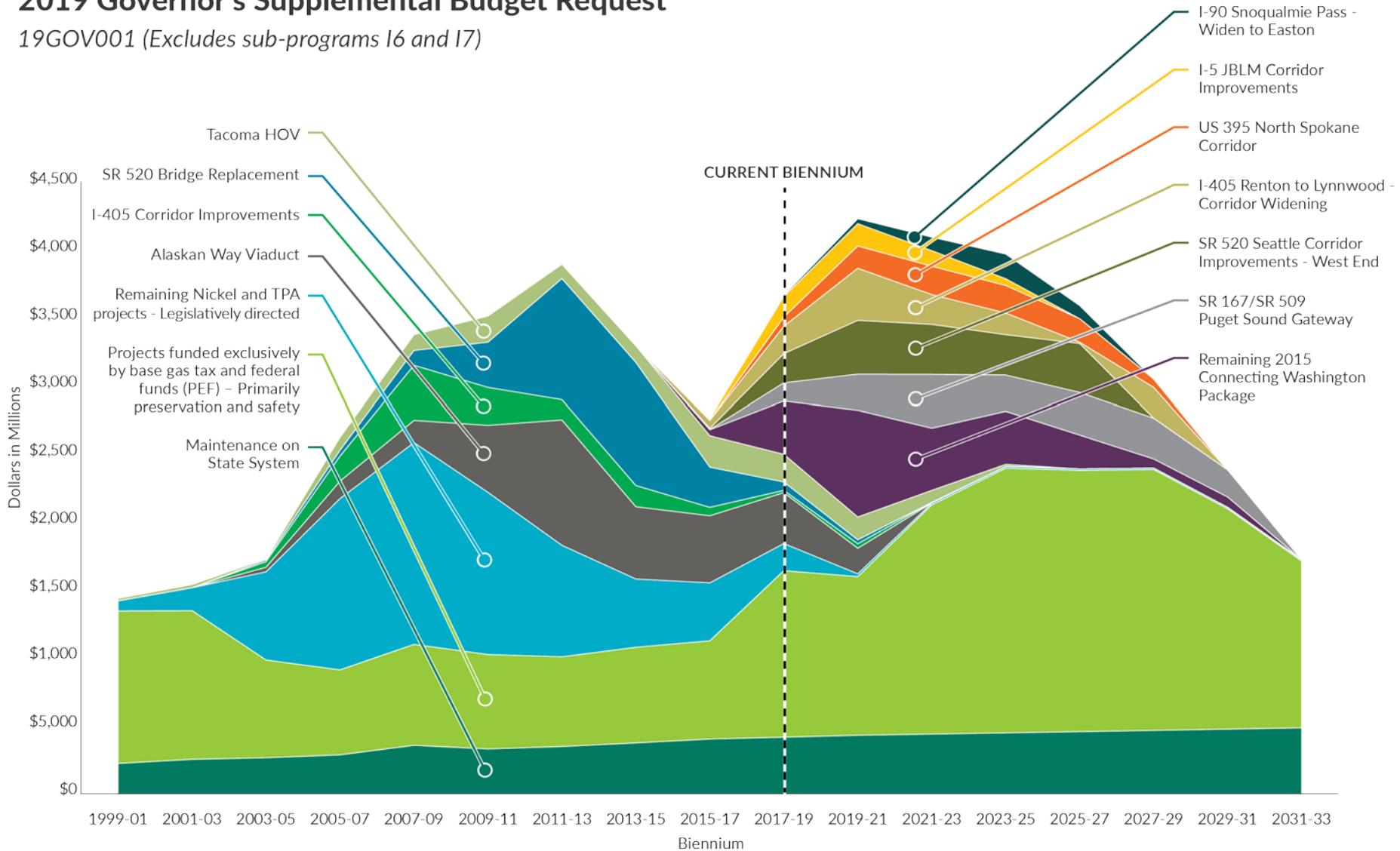
# Appendices

- WSDOT Maintenance and Highway Construction Program – “Cascades” chart
- “Solving Congestion”
- Highlights – 2018 accomplishments
- WSDOT Aviation Division

# WSDOT Highway Maintenance and Construction Programs with Revenue Packages

## 2019 Governor's Supplemental Budget Request

19GOV001 (Excludes sub-programs I6 and I7)

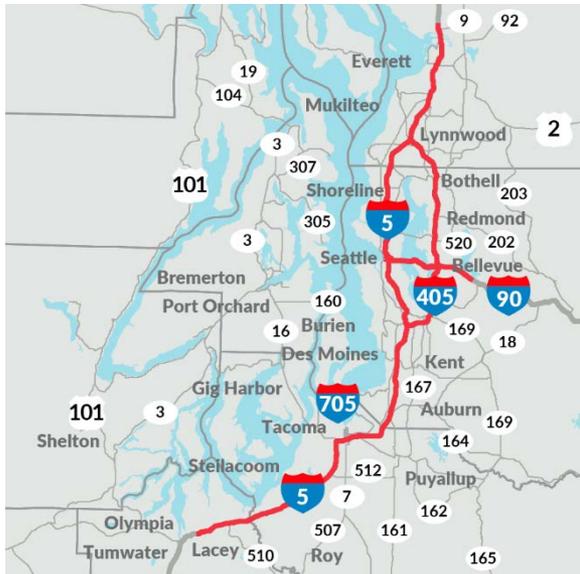


# “Solving” Congestion

If we could add enough lanes to build our way out of congestion — what would that look like?

Total additional interstate miles needed to drive posted speed limit at all times:

- 451 lane miles at an estimated cost of \$115 billion
- Depending on timing and percent bonded, would require a \$2.20 to \$2.50 gas tax increase



## Greater Puget Sound area

- (Olympia to Marysville/Seattle to Issaquah)
- 385 new lane miles
  - Maximum of four additional lanes in each direction in select locations within the Central Puget Sound



## Vancouver area

- 38 new lane miles



## Spokane area

- 28 new lane miles



## “Solving” Congestion Assumptions

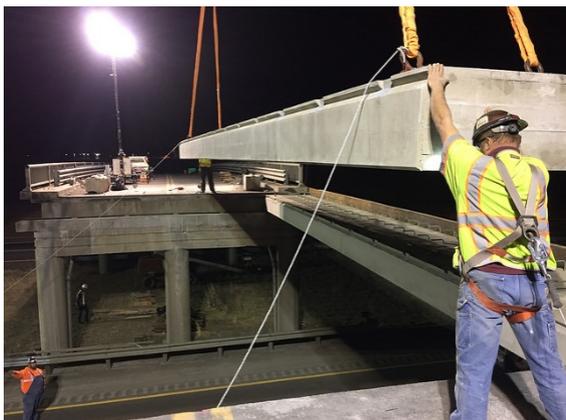
### High-level analysis for the interstate system:

- Assumes no induced demand
- No growth in demand
- Does not address increased capacity needed for unrestricted travel on non-interstate connections (other state routes or local roads)
- May not address costs or timing of full environmental impacts
- No additional transit or alternative modal options
- Current year costs

# 2018 Highlights of Accomplishments

## Eastern Region – Headquartered in Spokane

- Completed repairs on the Danekas Road bridge over Interstate 90 in Ritzville, one week ahead of schedule
  - Bridge damaged by over height load
- Built three new roundabouts on US 395 at Deer Park
- Continuing public engagement for North Spokane Corridor – seeking input to identify public places along corridor and Children of the Sun trail



## North Central Region – Headquartered in Wenatchee

- US 97 Blewett Pass culverts
  - Replaced two undersized culverts prone to clogging and roadway washouts
  - Replaced a culvert on Swauk Creek that was a barrier to fish
- SR 26 Bridge deck replacement near Othello
  - Key route to WSU closed for nine weeks to replace rapidly deteriorating bridge deck



# 2018 Highlights of Accomplishments

## Northwest Region – Headquartered in Seattle

- Replaced concrete panels and 37 expansion joints on northbound I-5 from MLK to Ravenna in Seattle as part of [#Revive I-5](#)
- Installed a 60 foot buried bridge on SR 92 at the Little Pilchuck Creek near Lake Stevens, opening up 30 miles of habitat for fish
- Built new roundabouts on SR 20 at Sharpes Corner and the SR 20 Spur in Anacortes, including a bike and pedestrian trail



## Olympic Region – Headquartered in Tumwater

- Down to final two of 17 [Tacoma/Pierce County HOV Program](#) projects:
  - Built new northbound bridge over Puyallup River, widened I-5 for HOV, rebuilt McKinley Ave. bridge and replaced concrete
  - Final project, Southbound HOV starts in February 2019
- Started work on JBLM I-5 congestion relief; opened new auxillary lane northbound



# 2018 Highlights of Accomplishments

## South Central Region – Headquartered in Yakima

- [I-90 Snoqualmie Pass East](#)
  - Finishing Hyak to Keechelus Dam and Keechelus Dam to Stampede Pass projects: widened I-90 from 4 to 6 lanes, rebuilt and added new bridges, improved habitat connections
- Replaced 82-year-old Wildcat Creek Bridge on US 12 near Naches



## Southwest Region – Headquartered in Vancouver

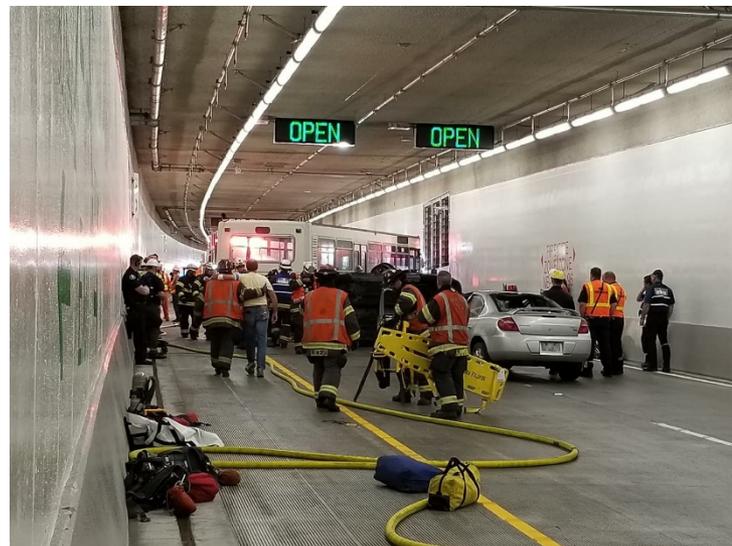
- [I-5 Chamber Way bridge](#) – replaced the damaged 1958 bridge with a wider, taller overpass; improves access for people who walk and bike
- I-5 resurfaced from E. Fork Lewis River bridge to Kelso
- Improved safety on SR 500 at intersections with NE Falk/NE 42nd Ave. and NE 54th Ave/NE Stapleton



# 2018 Highlights of Accomplishments

## Alaskan Way Viaduct Replacement program

- Completed tunnel roadway and extensive testing of 90 tunnel systems
- Finished weather-sensitive paving work needed for tunnel opening
- Conducted SR 99 tunnel full-scale exercise, involving 23 agencies and partners, to prepare for tunnel emergency response
- Awarded contract to Kiewit Infrastructure West to remove the viaduct after tunnel opens
  - Moved Alaskan Way out from below the viaduct, expanded street to two lanes each direction, created 250 new parking spots



# 2018 Highlights of Accomplishments

## SR 520 Corridor

- Selected design-build contractor for next phase of reconstruction: Montlake Project
  - Includes West Approach Bridge, Montlake Boulevard interchange and lid, “land bridge” over SR 520 for people who walk and bike
- Counted more than 284,000 people crossing Lake Washington on the SR 520 Trail (as of November 2018)
- Completed the 22-acre wetland restoration project at Union Bay Natural Area



## Interstate 405 / SR 167 Direct Connector

- Building a new flyover ramp, connecting the SR 167 HOT lane to the HOV lanes on I-405 in Renton
  - Installed a new culvert under SR 167 to improve fish passage through the area
  - Project is at 90 percent completion



# 2018 Highlights of Accomplishments

## Washington State Ferries

- Began construction to replace the seismically vulnerable Colman Dock
  - Moved entrance for all vehicles south to neighboring pier
  - Began demo on part of terminal and replacing dock for new terminal building
- Poured foundation for new [Mukilteo Multimodal Terminal](#) building
- Welcomed new M/V Suquamish to the fleet



## Passenger Rail

- Completed final testing of positive train control (PTC) on the entire Amtrak Cascades corridor in Washington
- All three elements of PTC are operational:
  - Onboard equipment on trains
  - Wayside equipment along tracks
  - Back-office computer system administered by BNSF
- PTC system activated on Amtrak Cascades corridor fall 2018



# WSDOT Aviation Division

- Major areas of responsibility for Aviation Division:
  - Advancement of Aeronautics
  - Aircraft Registration
  - Airport Aid Grants Program
  - Airport Land Use Planning and Support
  - Aviation Emergency Services
  - Aviation System Planning
  - Management of WA State Airports (16)
  - Addressing Emerging Aviation Issues (Unmanned/Autonomous Aircraft Systems, Urban Air Mobility, Electric Aircraft)
- Registered aircraft in Washington state – 6,596 (2018)
- 134 public use airports
  - Airport-related activities contributes \$51 billion in total annual economic impact (source: 2012 Aviation Economic Impact Study, 2019 update study underway)
- 16 WSDOT operated airports

