

# State of Good Repair

## WSDOT Maintenance Operations

*Serving the Citizens of Washington...24-7-365*

Pasco Bakotich, Director, Maintenance Operations  
Dave McCormick, NW Region, ARA for Maintenance  
Dan Floyd, SC Region, ARA for Operations & Maintenance  
Greg Selstead, Asst. State Maintenance Engineer

Joint Transportation Committee  
June 26, 2018

Roger Millar, Secretary of Transportation  
Keith Metcalf, Deputy Secretary of Transportation

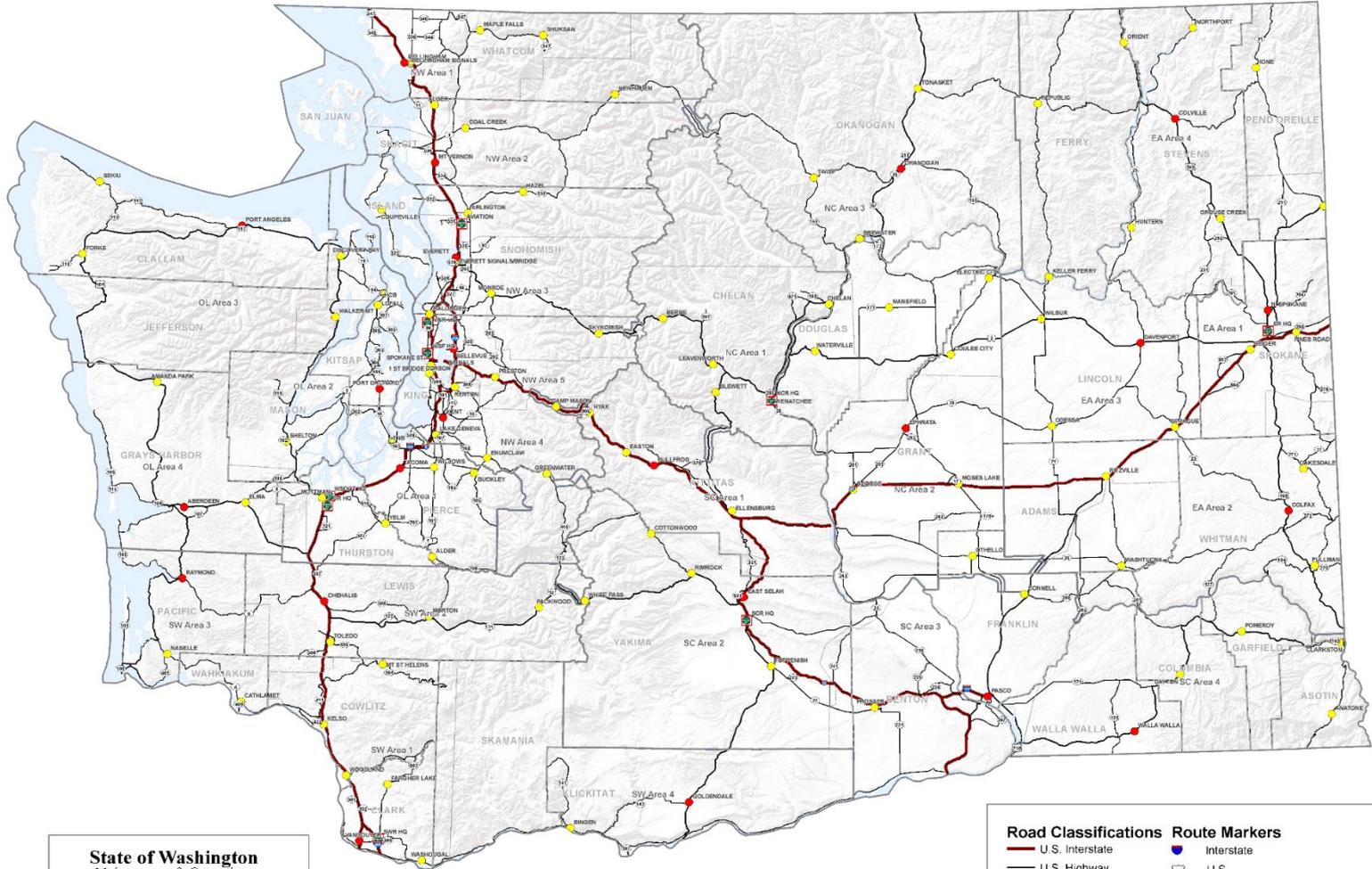
# Overview

- Who we are?
- What we do?
- Why it's important?
- The challenges we face



# State Maintenance Operations

- 24 Maintenance Areas
- 87 Maintenance Sections
- 982 Buildings
- 1,850 FTEs for Maintenance, Facilities, Transportation Equipment Fund



**State of Washington**  
**Maintenance & Operations**  
 Facilities and Highways  
 Prepared in cooperation with CGIS, Facilities,  
 Traffic Operations and Maintenance Staff  
 for the use of WSDOT.

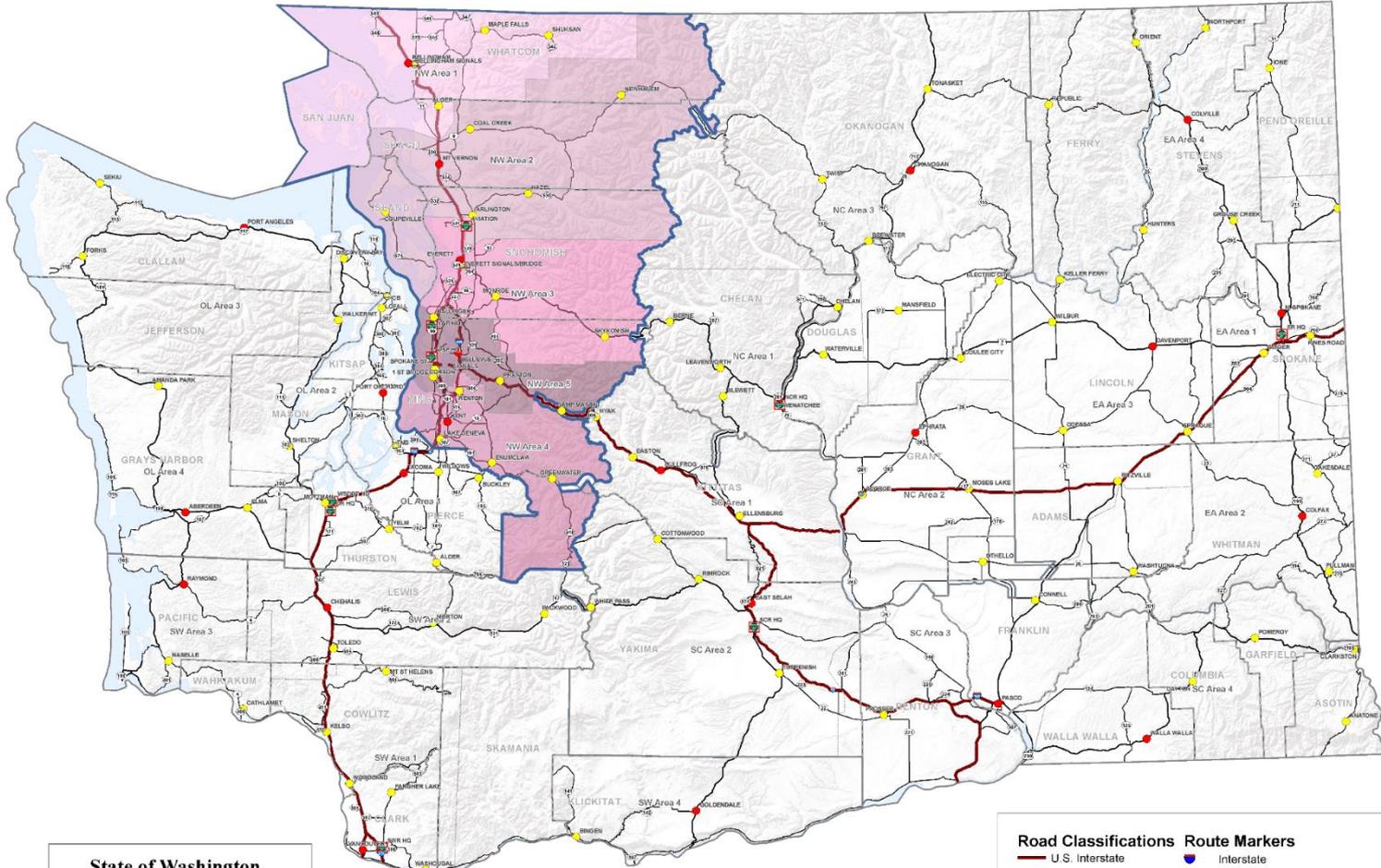
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0 6 10 20 30 Miles  
 0 10 20 40 60 Kilometers

<b>Road Classifications</b>	<b>Route Markers</b>
U.S. Interstate	Interstate
U.S. Highway	U.S.
State Route	State Route
<b>Boundaries</b>	<b>WSDOT Facilities</b>
County	Regional Headquarters
WSDOT Regions	Area Maintenance Facilities
Coast/Lakes	Speciality Crews (Signals/Bridge/Signs)
	Section Maintenance Sites

# Northwest Region

- 5 Road Maintenance Areas
- 5 Region-Wide Areas
- 7 Year-Round Night Crews
- 3 Intra-Regional Passes
- 4 Cross-Cascade Routes



**State of Washington  
Maintenance & Operations  
Facilities and Highways**

*Prepared in cooperation with U.S.R. Facilities  
Traffic Operations and Maintenance Staff  
for the use of WSDOT.*

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0 5 10 20 30 Miles  
0 10 20 40 60 Kilometers

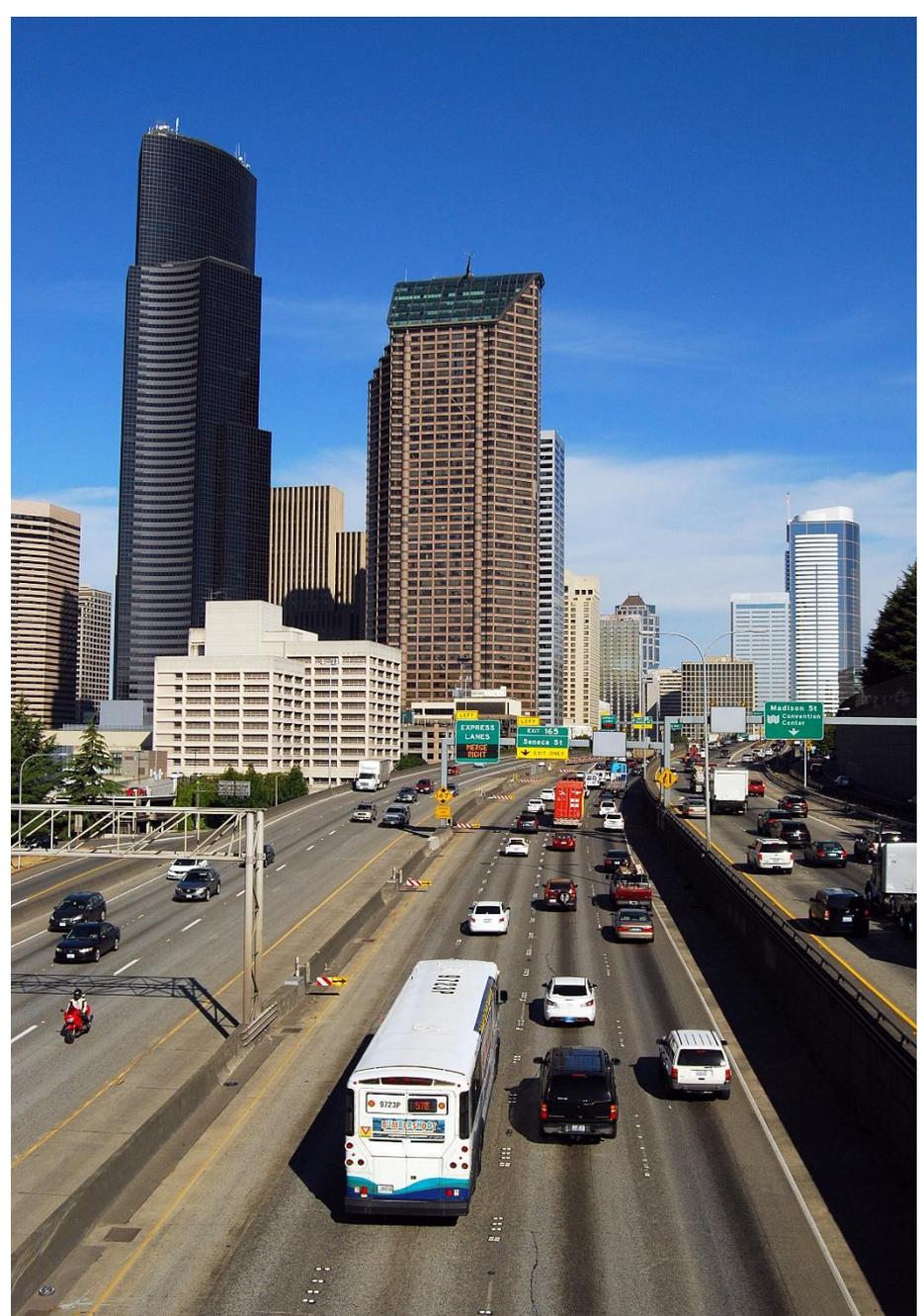
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# NORTHWEST REGION

## Operations & Maintenance Overview

### Number of employees – 526 48% of NWR workforce

- Maintenance Core Workforce - 480
  - Current Staffing Vacancies - 46
- 
- Total Allotted FTEs - 526
- 
- ❖ 2017-19 Maintenance and Operations (M)  
Budget \$130 million
    - ❖ TEF
    - ❖ Facilities
    - ❖ Inventory & Purchasing
    - ❖ Traffic Management Center
    - ❖ Emergency & Disaster Response



# Bridge Maintenance



- 1,300 Structures
- 3 Floating Structures
- 6 Movable Spans
- 24,000,000 sq. ft. of bridge deck



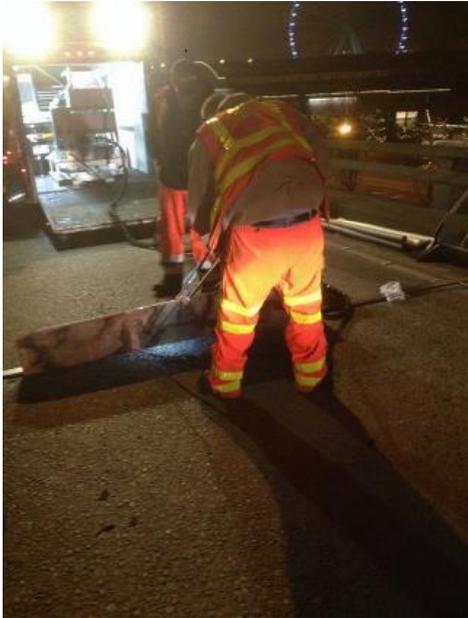
# Special Structure Maintenance



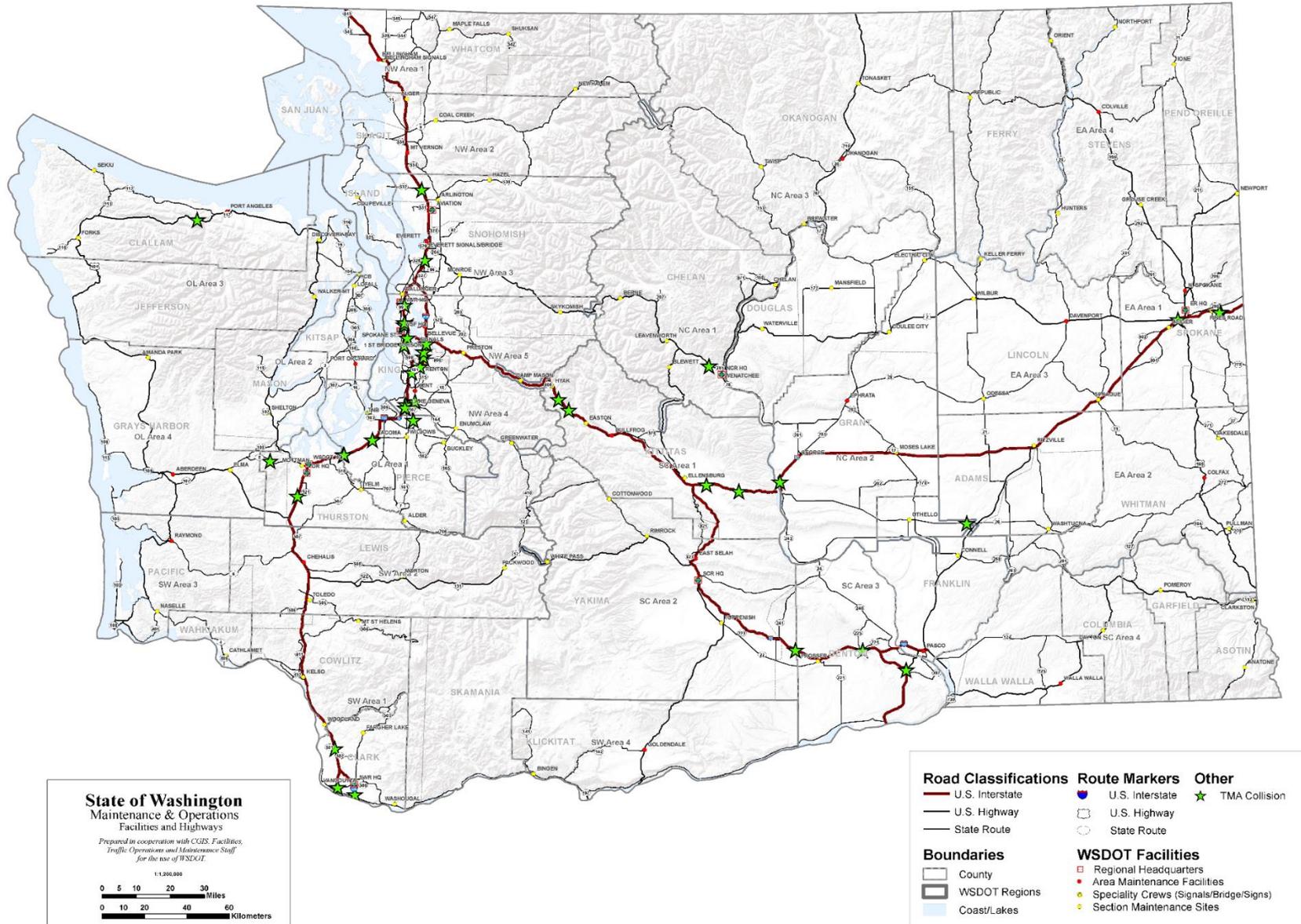
- 1,500 structures in NW Region
- 2/3<sup>rd</sup> of state inventory



# Employee Development



# 42 Truck-Mounted Attenuator (TMA) Collisions in 2016-2018



Total of 42 Truck-Mounted Attenuator collisions in 2016-2018. One collision location in Northwest Region is unknown.



# Pavement Maintenance



# Regional Facilities



# Emergency/Disaster Maintenance & Operations

Closure of State Route 530 near Oso  
FROM UNIFIED COMMAND



SR 20  
avalanche



I-5 crash



SR 542  
emergency  
bank repair

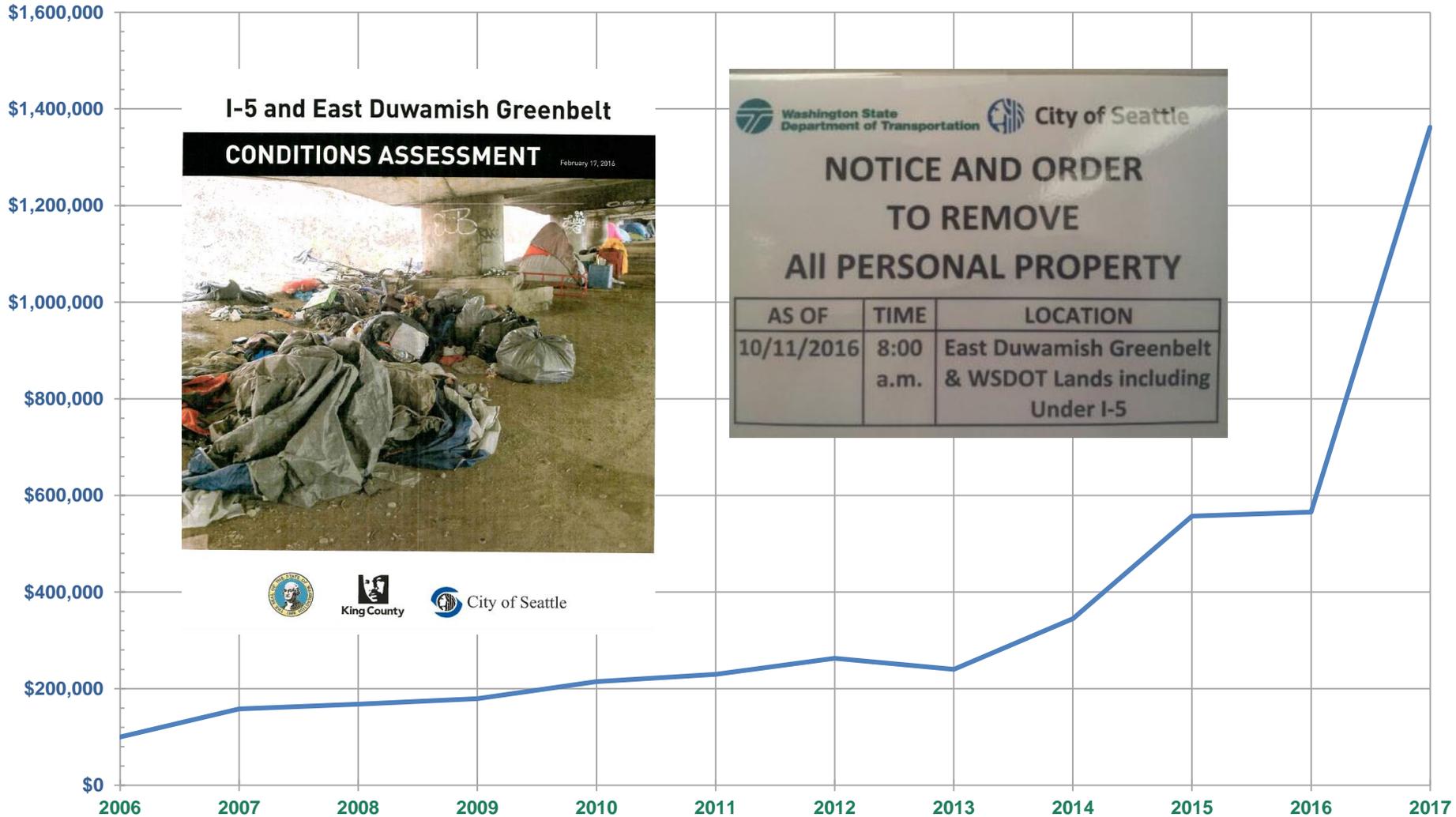
# Environmental Stewardship



# Not Just a Mile of Pavement

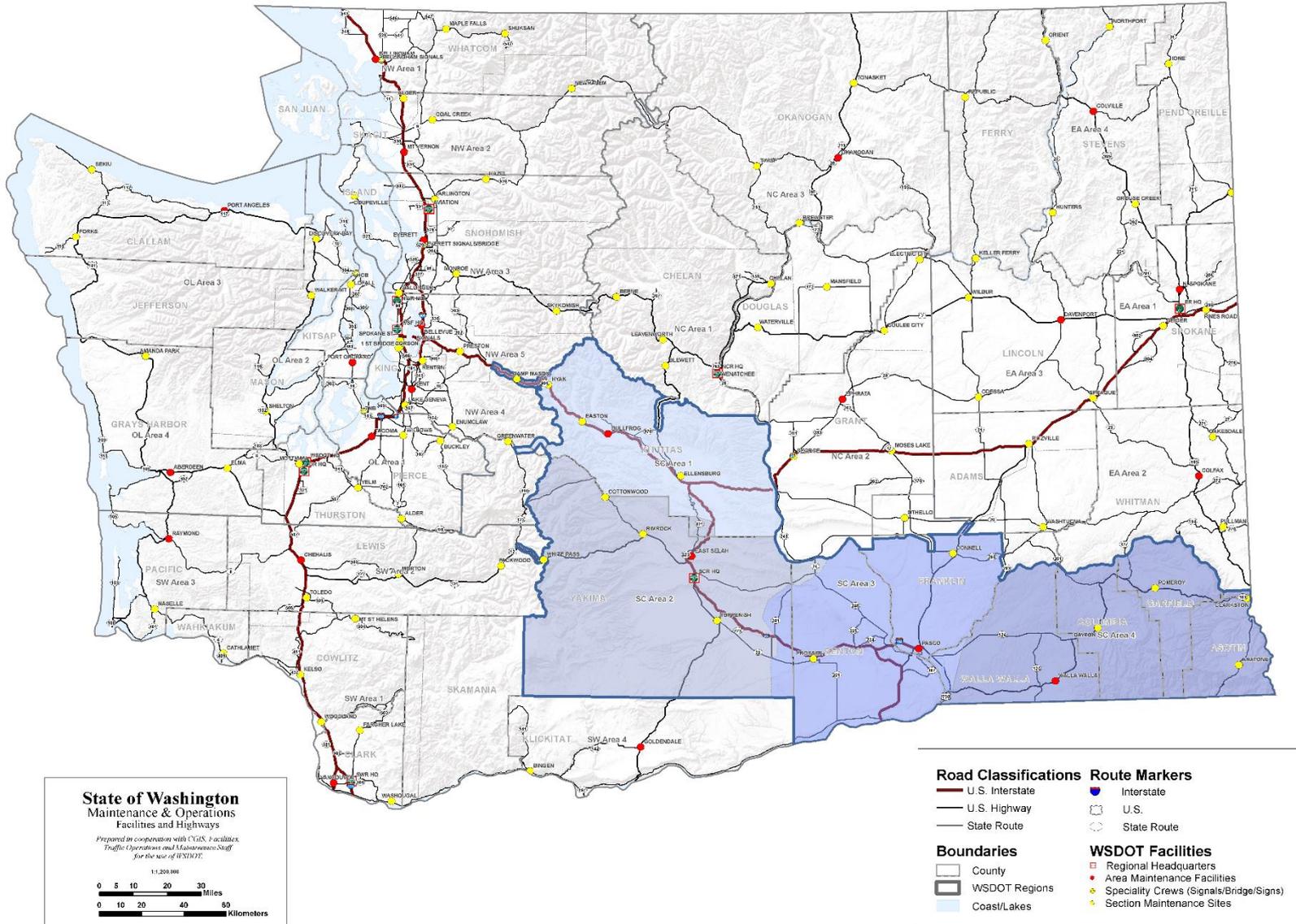


# Working in a Tough Environment



# SOUTH CENTRAL REGION

- 4 Mountain Passes
- 4 Maintenance Areas
- 1 Region Wide Crew
- Region Office in Union Gap



# SOUTH CENTRAL REGION

## Operations & Maintenance Overview

**Number of employees – 305**  
**65% of SCR workforce**

- Maintenance Core Workforce - 248
  - Maintenance, winter increase - 57
  - 
  - Total Maintenance Employees - 305
- 
- ❖ 2017-19 Maintenance and Operations (M) Budget \$67.6 million
    - ❖ Traffic Operations Capital
    - ❖ TEF
    - ❖ Facilities
    - ❖ State Sign Shop
    - ❖ Snoqualmie IRT & IRT Lites
    - ❖ Inventory & Purchasing
    - ❖ Traffic Management Center
    - ❖ Eastside (NCR, SCR, ER) RPM, Bridge Washing & Bridge Repair Crew
    - ❖ Emergency & Disaster Response



# I-90 Snoqualmie Pass Storm



# I-90 Sleet and Ice Build-Up

- Ice build up was 1.5 to 2 inches thick
- Last occurrence was 12 years ago



# Mountain Pass Challenges

Chain up problems persist



WSP Enforcement pilot 2017-2018



# Danger Tree Removal I-90 Snoqualmie Pass



# I-90 Snoqualmie Pass Pavement & Patching Failing



I-90 concrete panel replacement; comes with traffic issues

# US 12 White Pass Rock Slides



# US 12 Wildcat Creek Bridge White Pass



# SR 410 Chinook Pass Seasonal Opening

Goal is to open for Memorial Day; usually closes in November

Closed Nov. 7, 2017

Reopened June 2, 2018

19 feet of snow at summit

Opening and closing Chinook and Cayuse passes requires coordination between WSDOT, NPS and the Washington State Patrol.

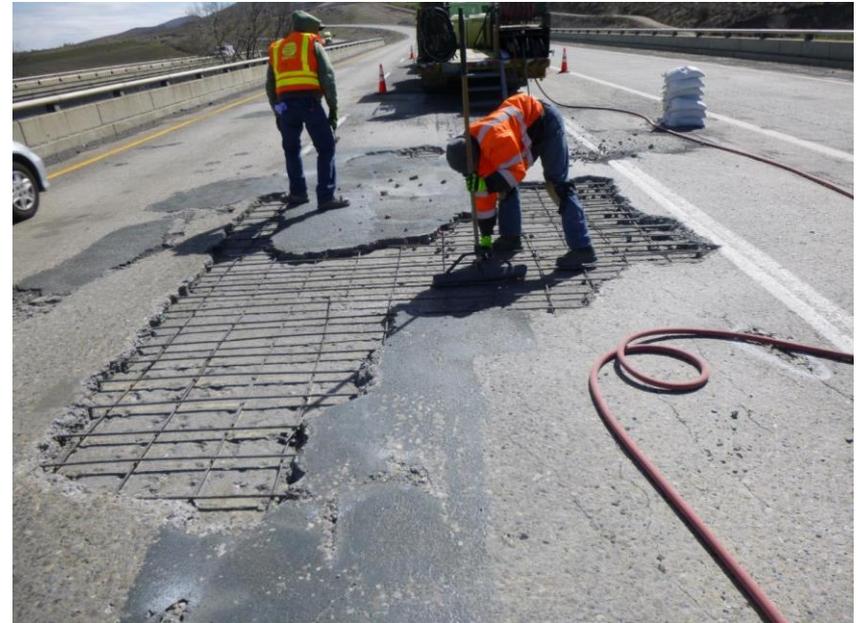


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I-82 Umatilla Columbia River Bridge  
Presently under contract

# Bridge Work



I-82 Sunnyside Canal Bridge

# I-90 Vantage Fire



Sign damage



4000' of guardrail damage

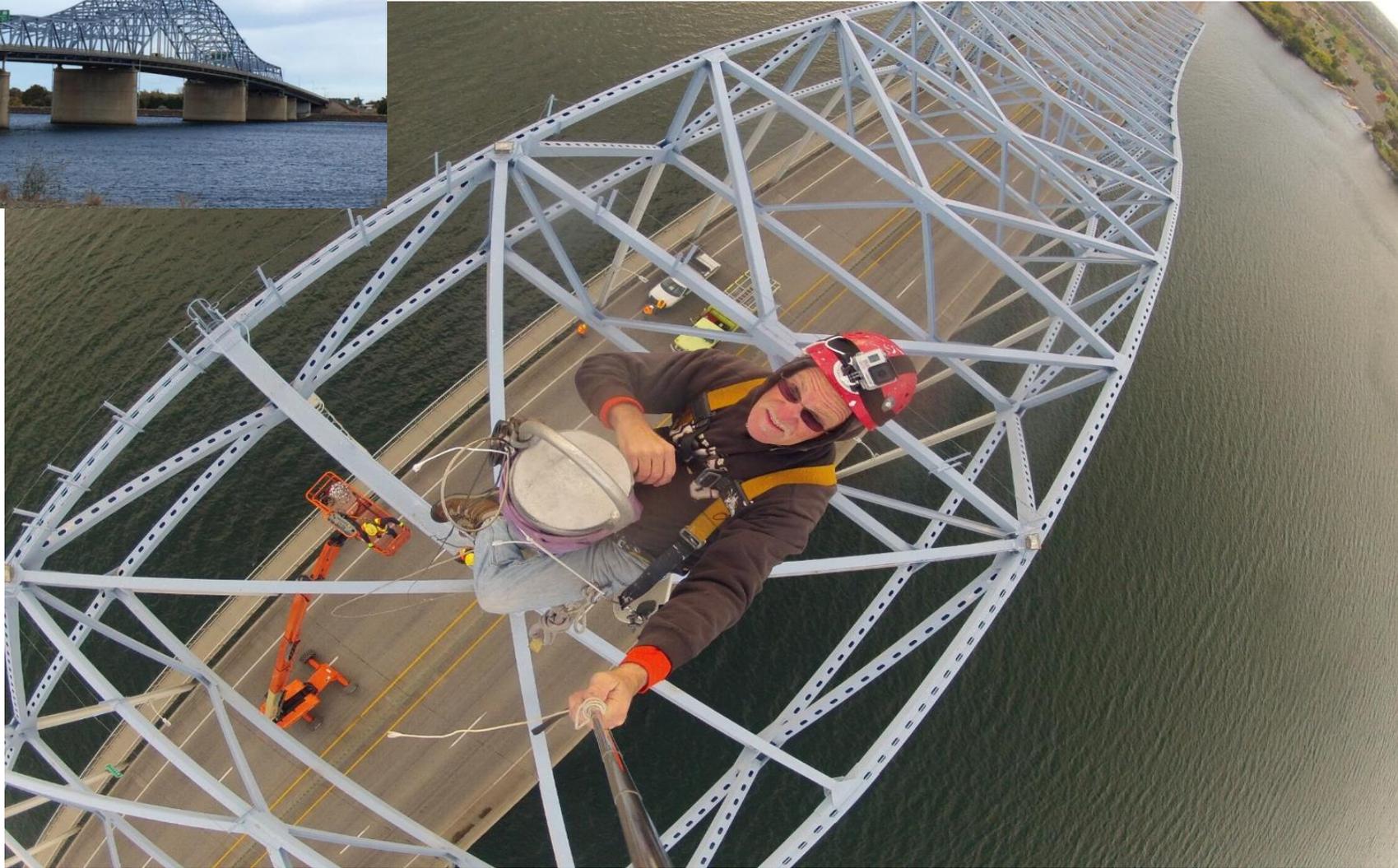
# SR 24 Silver Dollar Fire



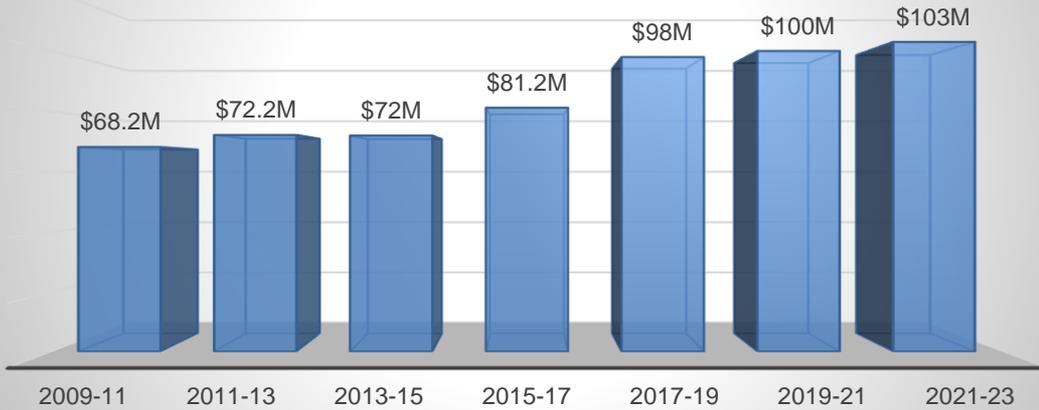
# Rattlesnake Ridge I-82 Union Gap



# US 395 Blue Bridge Flag Pole Maintenance



## Maintenance Backlog



# Growing Backlog Challenges



# Maintenance Technicians

Job Class	Headcount as of June 2018	Employee Count Estimated Eligible for Retirement Target Year 2023 (Full or Reduced Benefits)	Retirement % Projections	Actual Turnover (Retirements, Resignations & Separations) from 2015-2018	% of Actual Turnover from 2015-2018
Maintenance Technician 2	559	127	23%	229	41%
Maintenance Technician 3	97	40	41%	36	37%
Maintenance Lead Technician	183	92	50%	49	27%
Maintenance Supervisor	72	52	72%	14	19%
Maintenance Leadership	78	61	78%	20	26%

The data provided is an estimate of those who appear to be eligible to retire with a full or reduced benefit in target year 2023 based on the plan criteria.

Only the Dept. of Retirement Systems truly knows the number of service credits an employee has earned. The data provided here is an estimate based on the employee's anniversary date (the date representing the accumulation of total state employment time) and their age during the target year.

# Equipment Technicians

Job Class	Headcount as of June 2018	Employee Count Estimated Eligible for Retirement Target Year 2023 (Full or Reduced Benefits)	Retirement % Projections	Actual Turnover (Retirements, Resignations & Separations) from 2015-2018	% of Actual Turnover from 2015-2018
Equipment Technician 2	16	1	6%	6	38%
Equipment Technician 3	98	16	16%	49	50%
Equipment Technician Lead	44	17	39%	10	22%
Equipment Technician Supervisor	16	11	69%	2	13%

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# 2018 Fallen Worker Memorial



# Questions/Comments?

For more information:

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