



WHAT IS THE TRANSIT CAPITAL NEEDS ASSESSMENT?

- Initiated by the State of Washington Joint Transportation Committee
- Intended to inform the policy discussion on transit capital needs and funding



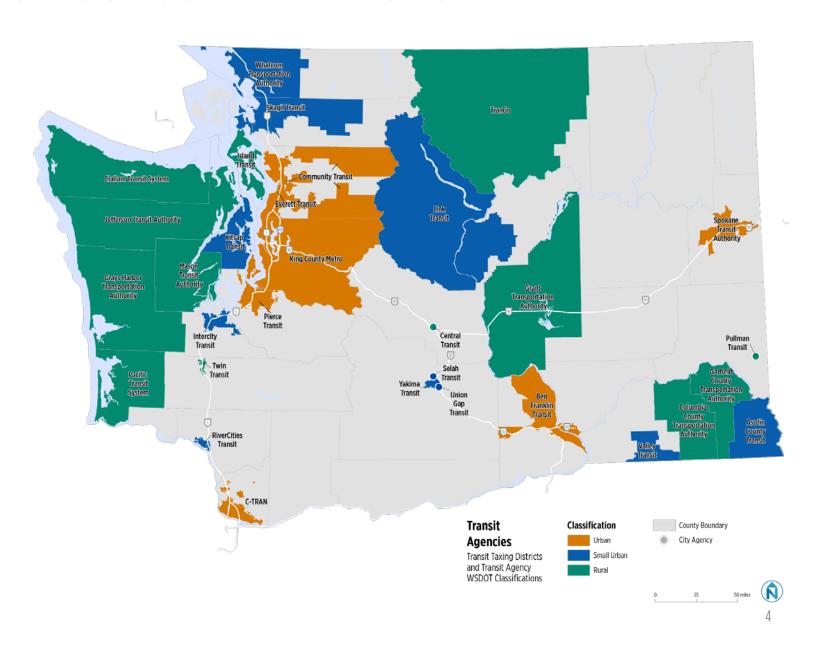
Project Proviso includes:

- 1. An inventory of each agency's vehicle fleet
- 2. An inventory of each agency's facilities, including the state of repair
- 3. The replacement and expansion needs of each agency's vehicle fleet, as well as the associated costs, over the next 10 years
- 4. The replacement and expansion needs for each agency's facilities
- 5. The source of funding planned to cover the cost of the bus and facilities replacement and expansion needs
- 6. The amount of service that could be provided with the local funds currently required for each agency's total capital needs

WHAT DOES THIS ASSESSMENT INCLUDE?

31 transit agencies

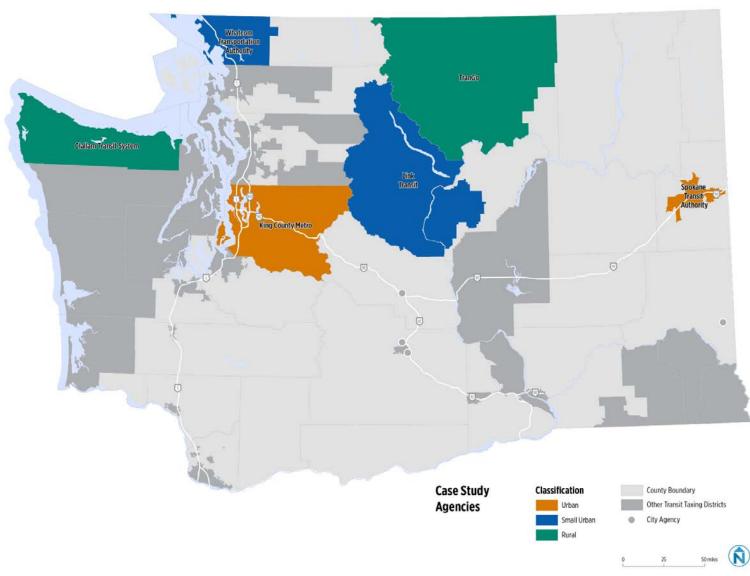
- Specifically excludes
 Sound Transit, Ferries,
 Tribal Transportation,
 and non-profit
 transportation
- Projections for replacement and expansion needs over the next 10 years
 - **2**019-2028



WHAT DOES THIS ASSESSMENT INCLUDE?

Case studies of six
 agencies that
 represent a variety of
 broader agency
 characteristics within
 the state

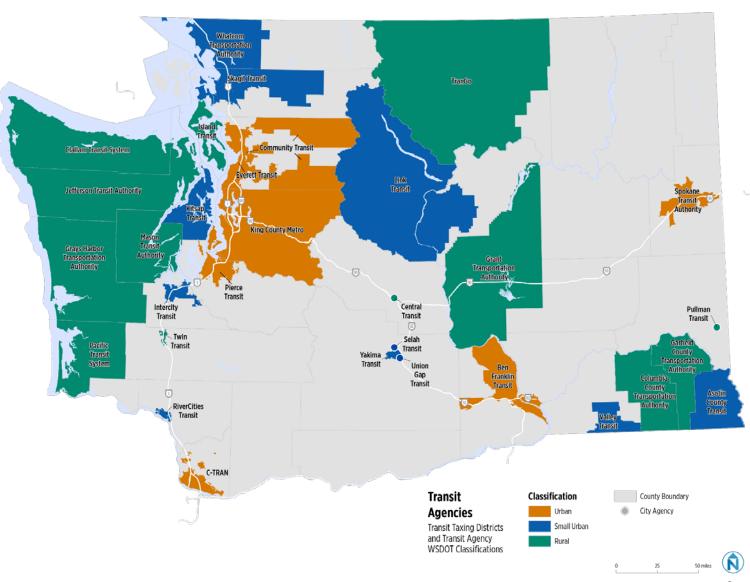
 Identification and analysis of potential revenue sources to meet capital needs



WASHINGTON'S TRANSIT NETWORK

WSDOT classifications:

- Urban Service population more than 200,000. Often serving a central city and a loosely-settled urban fringe
- Small Urban Service population from 50,000 to 200,000. Often serving small cities and broader urbanized areas.
- Rural Service population less than 50,000. Typically outside of a designated urbanized area
- King County Metro is separated into its own category in this report



TERMS AND DEFINITIONS



■ ULB – Useful Life Benchmark

The age and level of usage at which an asset is expected to be replaced



Percent Remaining Useful Life

Measure used to better understand asset age and predict impending capital needs

■ SGR – State of Good Repair

- Condition ranking for facilities between 1 (poor) and 5 (excellent). Assets rated 3, or better, considered to be in a State of Good Repair
- For vehicles indicates general state of wear and tear and safe versus unsafe
- SGR ≠ ULB asset past ULB costs more to maintain SGR



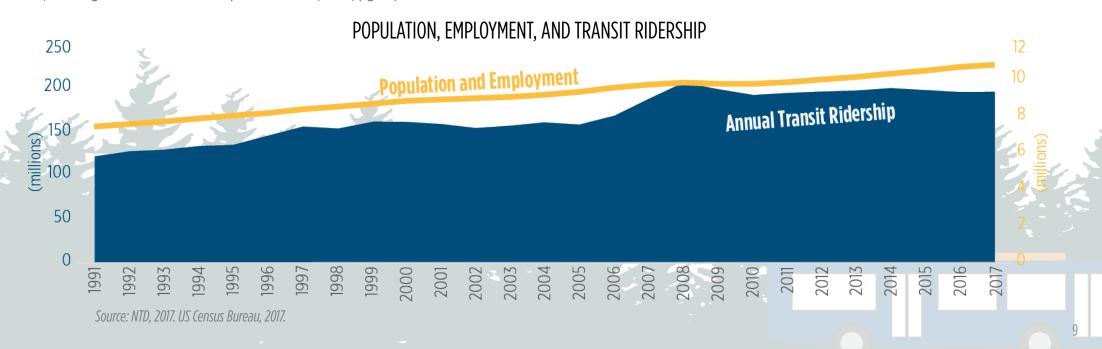


STATE'S ROLE IN TRANSIT

Public Transportation Challenges Identified by WSDOT:

- "The demand for access to jobs, schools, services, and community is growing, but public transportation providers' ability to meet this demand has never been more constrained"
- "Congestion is hurting our economy and quality of life, and we must find ways to move more people with even greater efficiency"
- "Traditional methods for funding transportation are increasingly unsustainable"
- "Emerging technologies and business models are redefining how people communicate, work, and conduct trade"

(Washington State Public Transportation Plan, 2016, pg. 14)



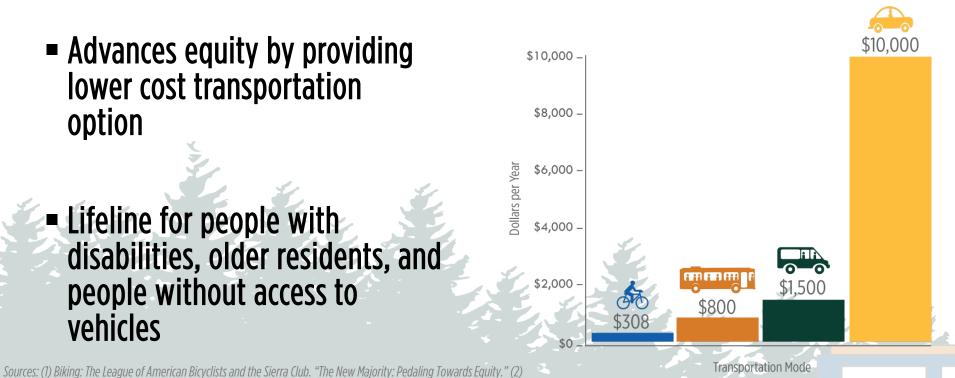
THE BENEFITS OF TRANSIT

Transit improves efficient use of roadway capacity and reduces emissions

Advances equity by providing lower cost transportation option

Lifeline for people with disabilities, older residents, and people without access to vehicles

ANNUAL PERSONAL COST COMPARISON BY MODE



ROAD CAPACITY BY MODE

MOVING CARS



28.4 People

MOVING TRANSIT



225 PEOPLE

MOVING PEOPLE



1,000 PEOPLE

Transit: Based on an average of annual transit pass costs in five metropolitan areas (Salem-Keizer, Bend, Portland, Eugene-Springfield, and Roque Valley. (3) Driving: American Automobile Association. "Your Driving Costs." 2013 (4) Evaluating Transportation Land Use Impacts," Victoria Transport Policy Institute (2014). (5) National Household Travel Survey Summary of

Travel Trends (2009).



KEY FINDINGS





- Fleet and Facilities Replacement \$2.10 billion
- Service Restoration \$3.97 billion
- Planned Expansion \$5.98 billion
- 14.6 million additional passenger trips
- 11% increase in service, equivalent to 37 high-frequency bus routes
- Assumes 100% of local capital funding is reallocated to service provision
- New dedicated transit taxes
- Transit share of new revenue package



FUNDING SOURCES include:

KEY FINDINGS



Funding for transit is primarily from

LOCAL SALES TAX



 Funding is not evenly distributed geographically; there are Status Quo funding gaps for Small Urban and Rural agencies



\$503 MILLION

in vehicle value is overdue for replacement

 Deferred capital investments due to the Great Recession have produced a backlog of 2,090 vehicles currently beyond useful life



 Capacity constraints in maintenance and operations facilities limit the ability to expand fleet size and provide additional service



SERVICE EXPANSION

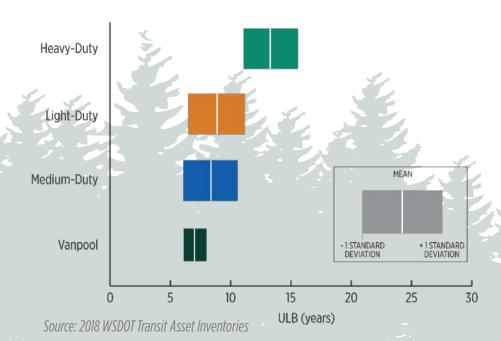
is limited by capacity constraints and unreliable funding sources



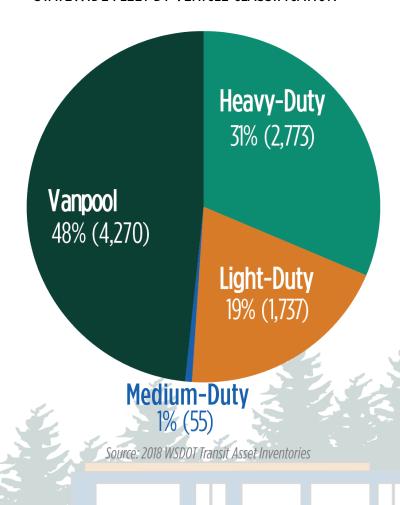
FLEET INVENTORY

- Nearly 9,000 transit vehicles statewide
- Allowing agencies to set their own Useful Life Benchmarks ensures they are responsive to local context

USEFUL LIFE BENCHMARK AGE BY VEHICLE TYPE



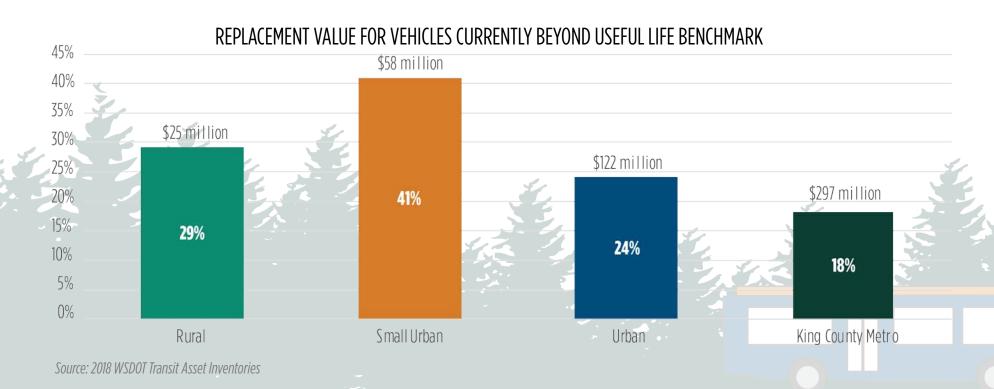
STATEWIDE FLEET BY VEHICLE CLASSIFICATION



AGING FLEET AND REPLACEMENT BACKLOG

- Deferred capital investments have created a replacement backlog
 - **2,090** vehicles currently beyond Useful Life Benchmark
 - Replacement cost of \$503 million
- Average Percent of Remaining Useful Life is 34%
 - Best practice is 45 to 55% Remaining Useful Life





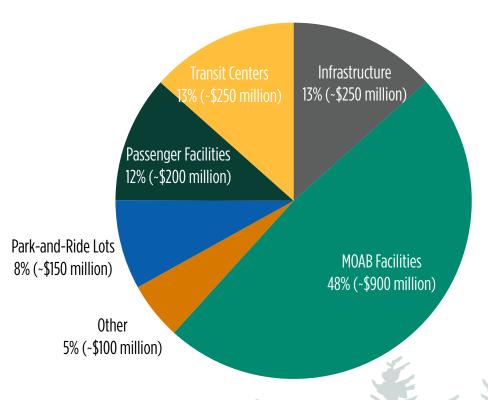
FACILITIES INVENTORY

- Statewide facilities have a value of \$1.85 billion
- Facilities are generally in an "adequate" or better State of Good Repair
 - As vehicles and facilities age, they are more expensive to maintain in SGR
 - Tradeoff between full replacement and maintenance costs

FACILITY CONDITION RATING

Rating	Percent of Statewide Facilities with Rating
5.0 – Excellent	16%
4.0 – Good	28%
3.0 – Adequate	28%
2.0 – Marginal	6%
1.0 – Poor	1%

STATEWIDE FACILITY REPLACEMENT VALUE BY TYPE



Source: 2018 WSDOT Transit Asset Inventories

RIDERSHIP AND SERVICE

- In 2017, agencies provided:
 - Over 193 million rides
 - **26 rides annually** for every person in the state
 - 9.5 million hours of service
- Some agencies are just now catching up to service levels provided before the Great Recession
- Agencies could provide nearly 15 million more rides if they could reallocate existing local funding spent on capital to providing service

REVENUE HOUR COMPARISON





20 ADDITIONAL RIDERS



BASED ON 2017 STATEWIDE TRIPS PER REVENUE HOUR

19,000

REVENUE HOURS





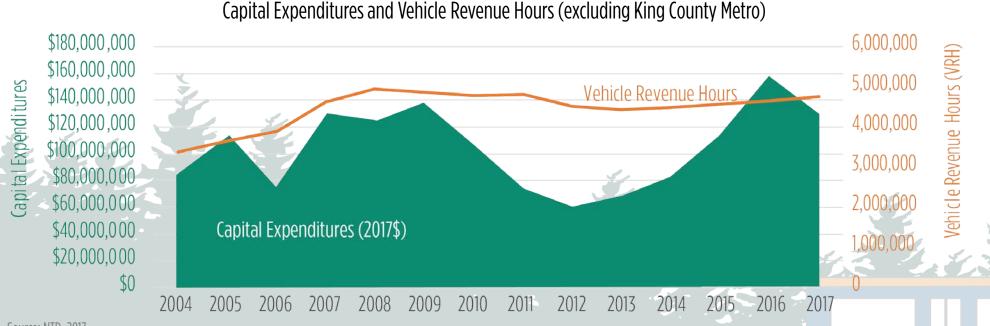




OPERATING EVERY 10 MINUTES FROM 7:00 A.M. TO 7:00 P.M. FOR ONE YEAR

MANAGEMENT IN THE FACE OF ADVERSITY

- Transit agencies scaled back capital expenditures to maintain service levels due to Great Recession funding declines
- Resulted in lingering unmet capital needs
- Also delayed needed expansions to meet growing population and employment demands

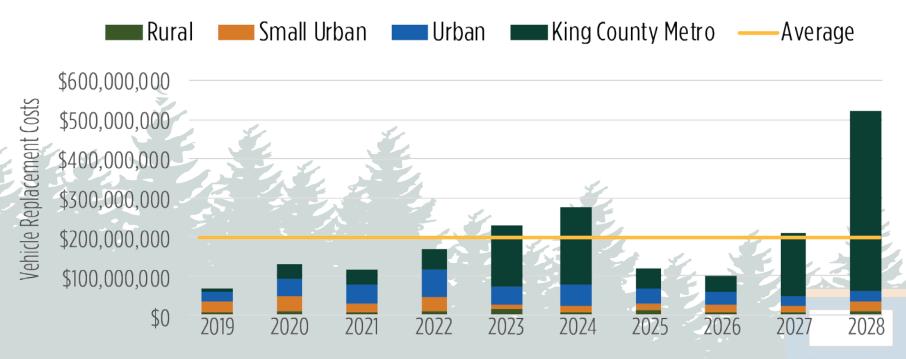


Source: NTD. 2017.

FLEET REPLACEMENT NEEDS

- Fleet replacement costs average about \$200 million annually
 - Replacement Need is Continuous
 - Vehicles scheduled for replacement will continue to age and surpass their ULB
 - Meanwhile, agencies budget to replace vehicles currently beyond ULB
 - Result is higher maintenance costs to maintain older vehicles in SGR

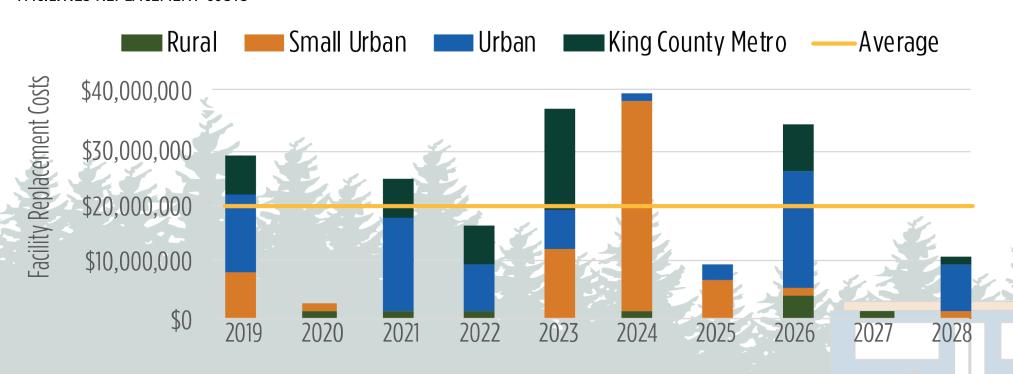
FLEET REPLACEMENT COSTS



FACILITIES REPLACEMENT NEEDS

- Facilities Replacement costs average about \$20 million annually
 - Facilities expenditures are less consistent year-to-year
 - Calculation is only for replacement and does not include preservation costs classified as "capital" and necessary to extend useful life or maintain SGR

FACILITIES REPLACEMENT COSTS

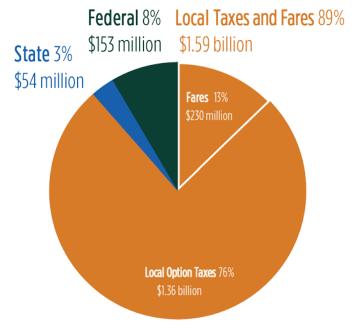


LOCAL TAXING AUTHORITY

- Local funding sources comprise 89% of total transit funding in the state
 - Fares account for 13%
 - Local tax revenues are 76%

- Statewide, local sales taxes are generating 80% of their statutorily enabled limit
 - \$278 million in remaining annual capacity, not evenly distributed across agency types, and only available when voter authorized

TOTAL TRANSIT FUNDING BY SOURCE (OPERATIONS AND CAPITAL)



Source: WSDOT Summary of Public Transportation Reports, 2014-2017.

LOCAL TRANSIT REVENUE AND REMAINING AUTHORIZED CAPACITY (IN MILLIONS OF DOLLARS)

	Agency	2017 Revenues	Remaining Capacity	Percent of Capacity Used 100%		
	King County Metro	\$579 million	\$0			
	Urban	\$377 million	\$137 million	73%		
,	Small Urban	\$141 million	\$102 million	58%		
	Rural	\$45 million	\$39 million	53%		
	Statewide	\$1.4 billion	\$278 million	80%		

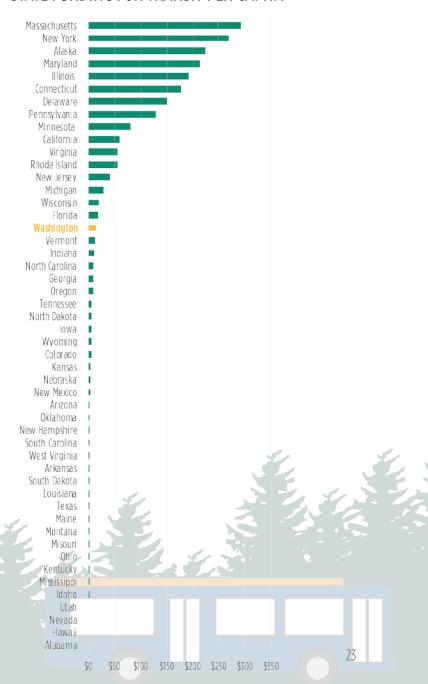
Source: Washington State Department of Revenue, ECONorthwest calculations 201

STATE FUNDING FOR TRANSIT

- State funding accounts for 3% of total transit funding in Washington
- Washington ranks 17th in state funding per capita
 - \$14.07 per capita in Washington
 - National average is \$42.11 per capita

Source: AASHTO 2019 Survey of State Funding for Public Transportation — Final Report Data is based on survey responses by State DOTs and may include regional transit agencies, ferries, rail, and non-capital funding

STATE FUNDING FOR TRANSIT PER CAPITA



CASE STUDIES & SITE VISITS: COMMON ISSUES

- Regardless of agency size, there are unmet capital needs
- Impacts of Great Recession and deferred capital investments are still being felt
- Capacity constraints in facilities limit expansion
- Agencies are cautious of relying too heavily on volatile funding mechanisms













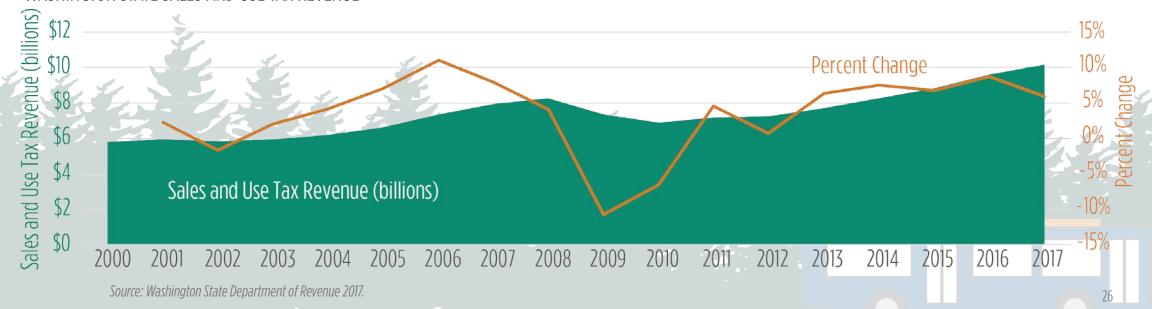


FUNDING CHALLENGES

- Local sales taxes:
 - High reliance on sales tax funding
 - Economic fluctuations create reliability concerns
 - Agencies cautious about service expansion in absence of reliable funding
- Distribution of funding is not uniform
 - Challenge for systems with smaller tax bases, like Small Urban and Rural agencies

- Changes in federal discretionary programs and elimination of earmarks have been a challenge
- Sustainable, reliable funding is key for longterm service investments

WASHINGTON STATE SALES AND USE TAX REVENUE



STATUS QUO FUNDING

- Anticipated local, state, and federal revenues dedicated to capital funding over the next 10 years -\$3.379 billion
 - Assumes stable funding and no economic downturn
 - Does not separate funding dedicated to capital expansion/service expansion
 - Voter-approved expansions
 - Funding initiatives approved for capital expansion, service expansion, or specific projects
 - Overestimates available revenues for replacement
 - Sufficient resources for estimated status quo, but no "extra" dollars

Projected Status Quo Funding (2019-2028)

Agency Classification	Projected Status Quo Capital Funding				
King County Metro	\$2,011				
Urban	\$1,011				
Small Urban	\$259				
Rural	\$97				
Statewide	\$3,379				

In millions of 2017 dollars

Example agencies with voter-approved funding initiatives













TEN-YEAR CAPITAL FUNDING NEEDS

- Anticipated funding appears sufficient to meet replacement needs for King County Metro and Urban agencies*
- Replacement funding gap exists for specific agency classifications:
 - Small Urban \$13 million gap
 - Rural \$5 million gap
 - Does not account for all capital needs in rural systems due to non-profit agency contracting

*Assumes stable federal funding and local sales tax revenue, no economic downturn, and no service improvements to meet additional growth that has occurred over the last 10 years

Planned Expansion Funding Gap \$2.591 billion

Projected Status Quo Capital Funding \$3.379 billion

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Service Restoration Funding Gap \$593 million

Scenario 1
Estmated
Replacement Costs
\$2.104 billion

Scenario 2
Service Restoration and
Replacement Costs
\$3.972 billion

Scenario 3
Planned Expansion and
Replacement Costs
\$5.970 billion

TEN-YEAR CAPITAL FUNDING NEEDS

- Service Restoration funding gap \$593 million
 - Estimated capital needs for agencies to catch up to and maintain growth equivalent to state economic growth, does not include potential service costs
- Planned Expansion funding gap \$2.59 billion
 - Capital needs identified in agency development plans, does not include service expansion costs

Projected Status Quo Capital Funding \$3.379 billion

Planned Expansion Funding Gap \$2.591 billion

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Service Restoration Funding Gap \$593 million

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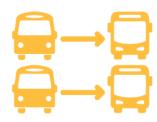
FUNDING OPPORTUNITIES

 Viable alternative funding sources include Legislative transportation package and new dedicated taxes, such as carbon fee and payroll tax

			CAPACITY				EFFICIENCY			FAIRNESS		
	REVENUE TOOL	LEGISLATIVE CONTEXT	STATUS QUO	REPLACE VEHICLES BEYOND ULB	SERVICE RESTORATION	PLANNED EXPANSION	TIMING	ADMIN. EASE	STABILITY	VERTICAL AND Horizontal Equity	GEOGRAPHIC EQUITY	ECONOMIC COMP.
	Sales and Use Tax	No Action Needed										
EXPAND LOCAL Sources Through Funding Tools	Household Excise Tax	Legislative Action Needed										
	Employee Excise Tax	Legislative Action Needed										
	Carbon Fee or Tax	Legislative Action Needed										
INCREASE STATE SOURCES THROUGH DEDICATED TAXES	For-Hire Trans. Tax	Legislative Action Needed										
	Payroll Tax	Legislative Action Needed										
INCREASE STATE SOURCES THROUGH ALLOCATED FUNDING	Fund Transit in Transportation Package	Legislative Action Needed										
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TEN-YEAR CAPITAL NEEDS KEY FINDINGS



- Statewide, existing funding sources appear to meet Replacement needs for Urban agencies and King County Metro
 - Funding gaps exist for Small Urban and Rural agencies



- Service Restoration and Planned Expansion have significant funding gaps transit agencies falling further behind statewide growth
- Rolling stock beyond ULB deficit detracts from expansion capability



 If economy digresses - high likelihood that replacement deficit will deepen and service will fall further behind population and employment growth

