

I-405 Express Toll Lanes

36 Month Update

Edward Barry, P.E. Toll Division Director
January 23, 2019

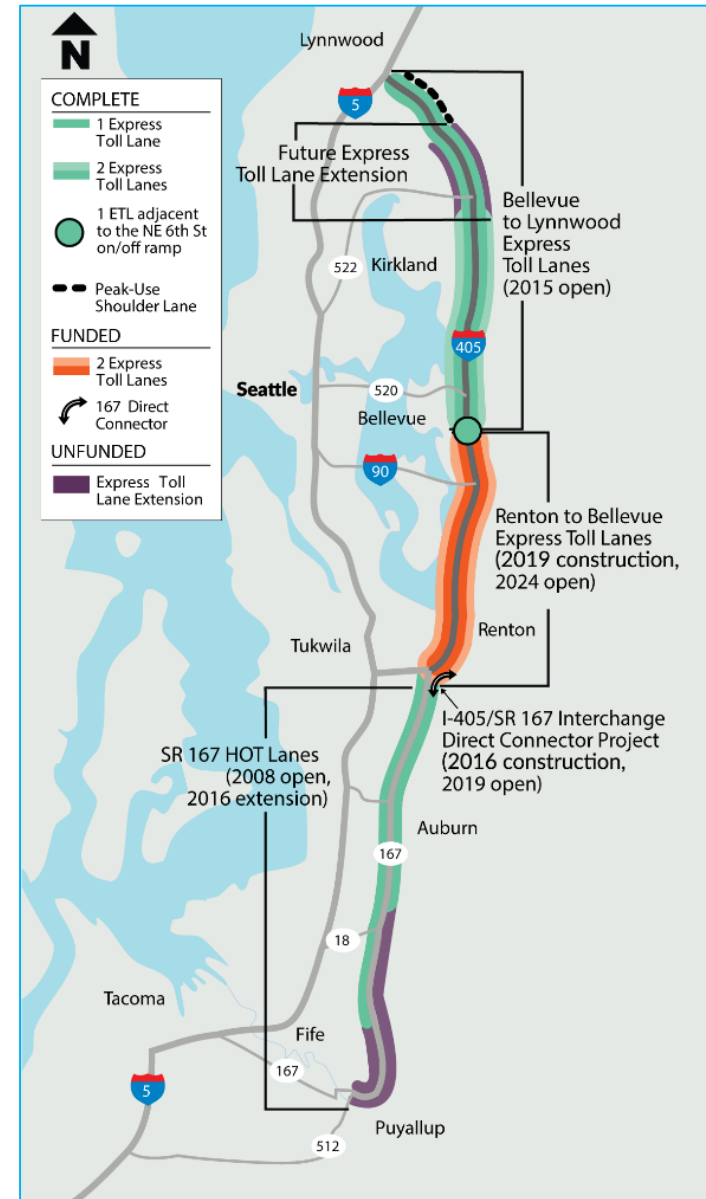
Completing the 40-mile corridor

Completed Toll System Projects

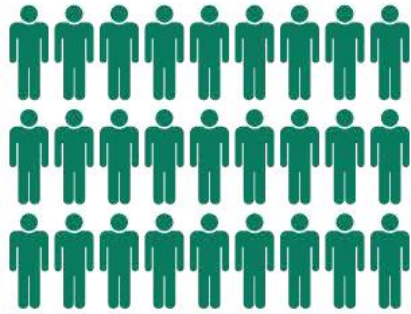
- ✓ I-405 Bellevue to Lynnwood Express Toll Lanes (2015)
- ✓ SR 167 High Occupancy Toll (HOT) Lanes (Extension 2016)

Future/Ongoing Toll System Projects

- ✓ I-405/SR 167 Interchange Direct Connector (2019)
- ❑ I-405 SR 522 to SR 527 Capacity Improvements
 - Legislature authorized \$20 million for preliminary engineering
 - \$20 million for right of way included in Governor's FY19-21 budget
 - Approximately \$450 million needed for construction
- ❑ I-405 Renton to Bellevue Widening & Express Toll Lanes
 - Construction to begin in 2019
 - Open to traffic in 2024



Population increase



52,000
new
residents



85,000
new drivers from
out of state



**Higher
traffic
volumes**

- As the population of the Puget Sound region grows, so does the number of vehicles on the road.
- On average, up to **23 percent** more vehicles move through the corridor during peak periods each weekday than before tolling began.

Performance update

Average corridor speeds

- From July to September 2018, the express toll lanes moved vehicles traveling the full length of the express toll lanes an average **16 mph** faster than the general purpose lanes during the southbound morning peak period, and **21 mph** faster during the northbound afternoon peak period.

Average corridor speeds, peak period, July-September 2018

	General Purpose	ETLs
Bellevue to Bothell	25 mph	52 mph
Bothell to Lynnwood	40 mph	54 mph
Lynnwood to Bothell	26 mph	42 mph
Bothell to Bellevue	42 mph	59 mph

Express toll lane speeds compared to general purpose lane speeds during Summer 2018



General purpose speed performance update

General Purpose Lanes

- Speeds are faster in each section since the express toll lanes opened, with the exception of the southbound single lane section. As shown in the table below, speeds in the northbound single lane section from Bothell to Lynnwood increased dramatically since the peak-use shoulder lane opened in 2017.

	Pre-Tolling	Summer 2016	Summer 2017	Summer 2018	Speed difference
Bellevue to Bothell	24 mph	28 mph	32 mph	25 mph	+1 mph
Bothell to Lynnwood	35 mph	27 mph	46 mph	40 mph	+5 mph
Lynnwood to Bothell	28 mph	26 mph	25 mph	26 mph	-2 mph
Bothell to Bellevue	36 mph	44 mph	43 mph	42 mph	+6 mph

I-5 and I-405 peak hour performance comparison

I-5 (Northbound at NE 130th St)

Daily Volume: 105,000

Stop and Go
 Heavy
 Moderate
 Freeflow



I-405 (Northbound at NE 85th St)

Daily Volume: 107,000

Stop and Go
 Heavy
 Moderate
 Freeflow

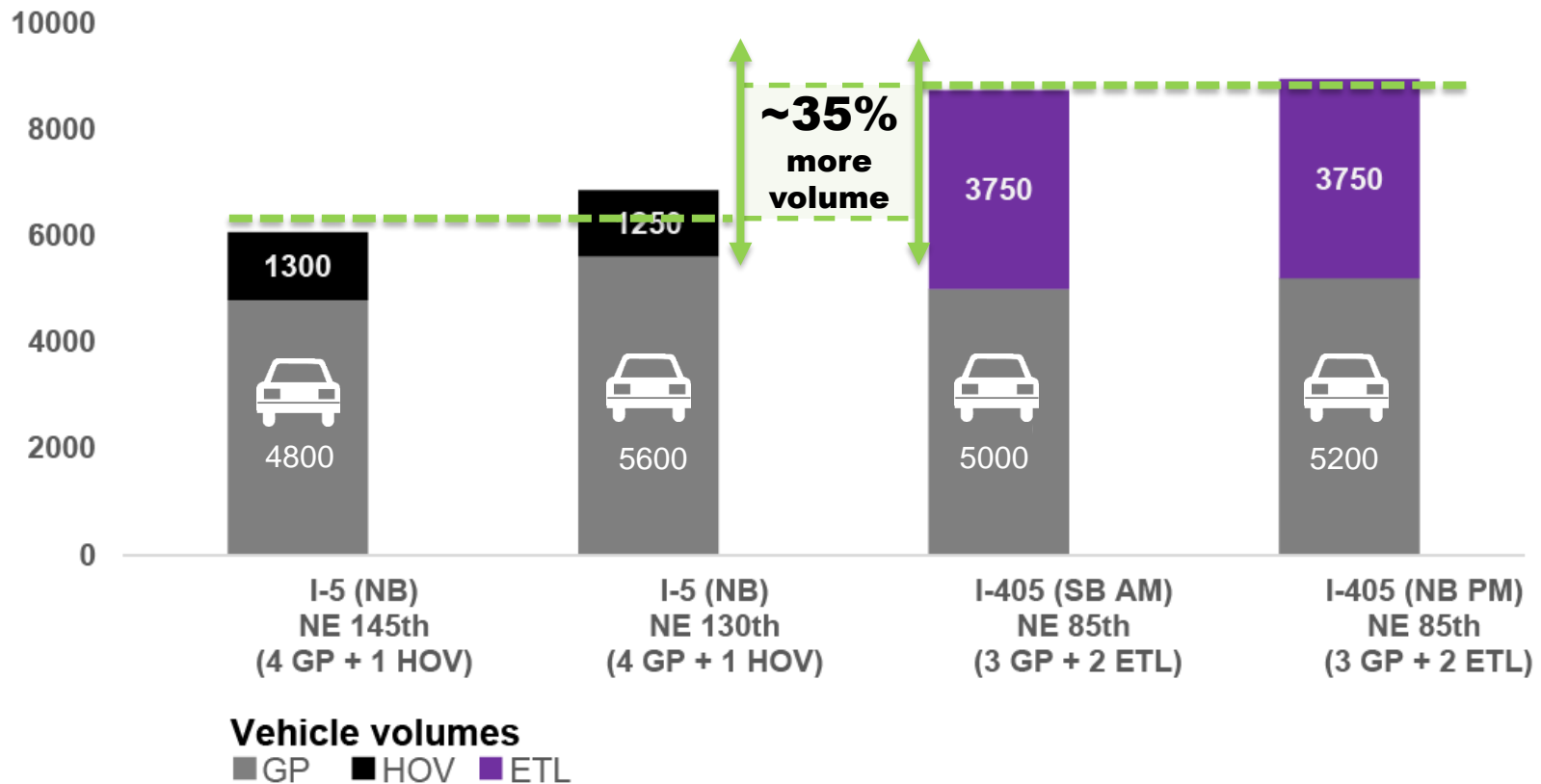


Tuesday, July 12, 2017 4:50 p.m.

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

Express toll lanes move more vehicles

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



Transit benefits

- Since the express toll lanes opened in Sept. 2015, transit ridership has increased by an average **five** percent on I-405.
- During the summer 2018 quarter, an average **7,700** people used transit routes on the express toll lanes every day.
- WSDOT works with King County Metro and Community Transit to monitor transit performance on the I-405 express toll lanes.

communitytransit



2% ↑
RIDERSHIP
INCREASE

TIME SAVINGS
UP TO
4 MINUTES*

King County
METRO



9% ↑
RIDERSHIP
INCREASE

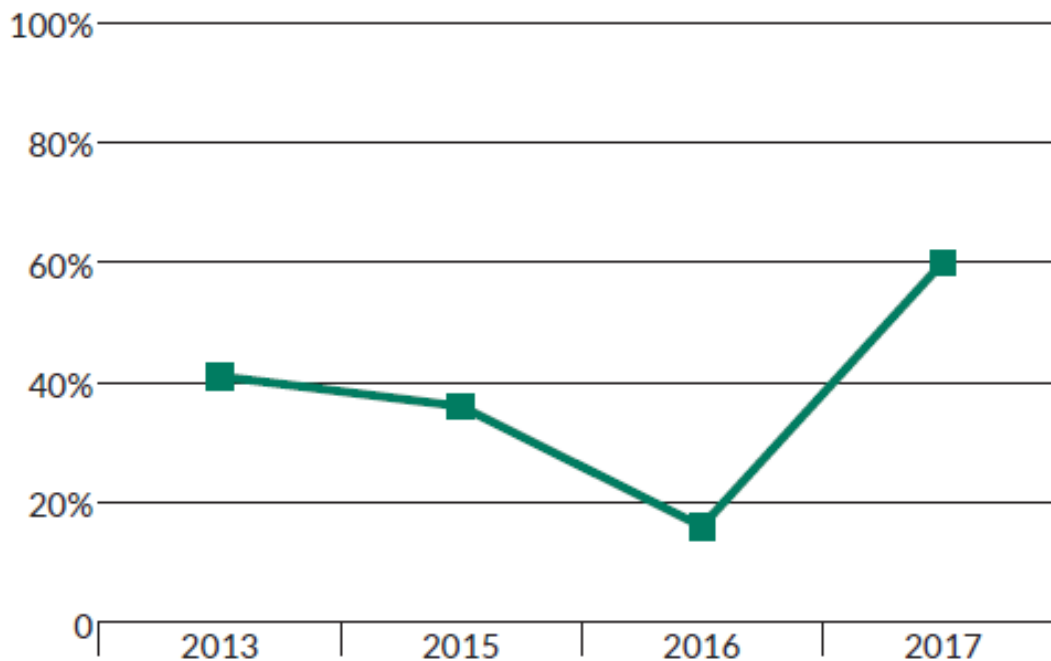
TIME SAVINGS
UP TO
11 MINUTES

*Route 424 that travels along I-405 between SR 520 and SR 522 is the only route to show a travel time increase, but reports travel times over a significantly shorter distance than the other routes.

Support increases over time

In summer 2017, in advance of the two-year anniversary of the I-405 express toll lanes opening, WSDOT conducted three surveys to determine how drivers feel about the lanes.

Support over time

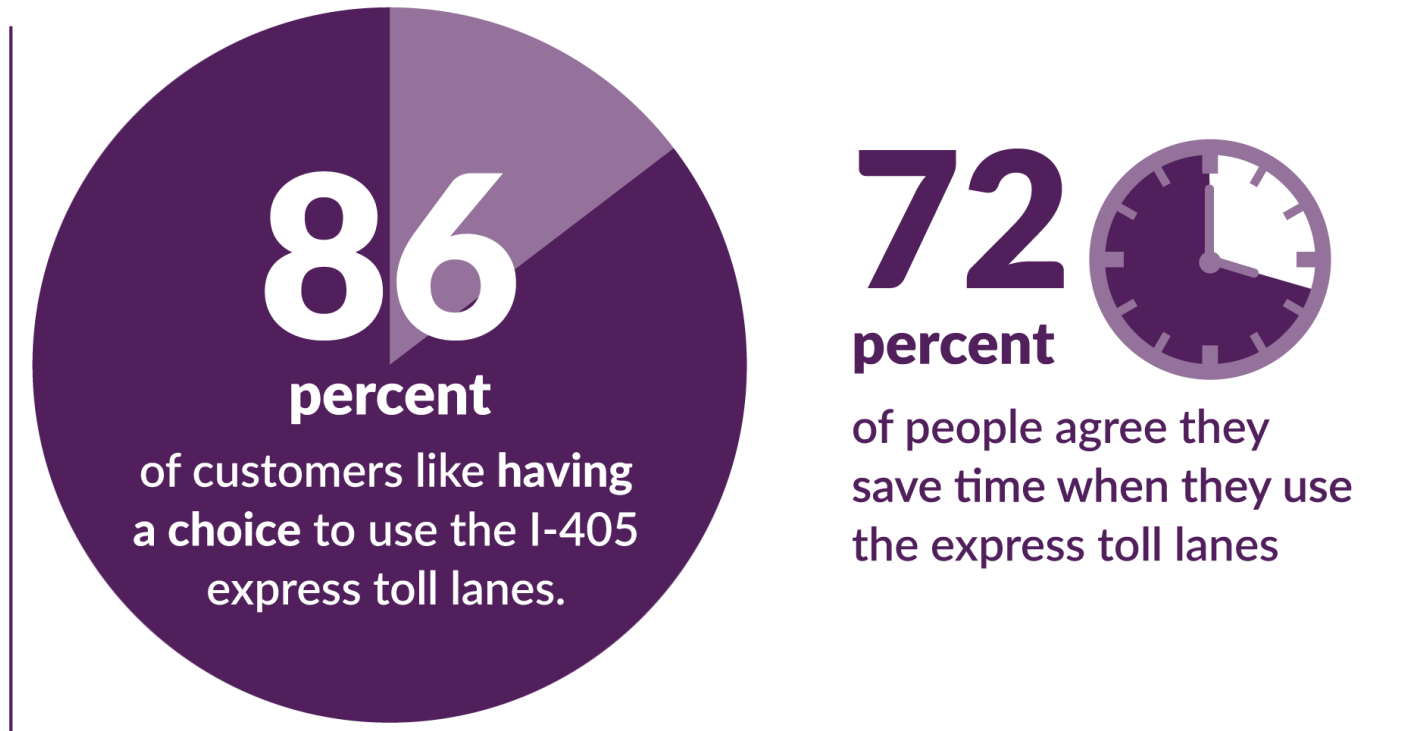


- We have seen public support increase since the express toll lanes opened in fall 2015.
- These surveys included people who do not use the express toll lanes or have *Good To Go!* account.

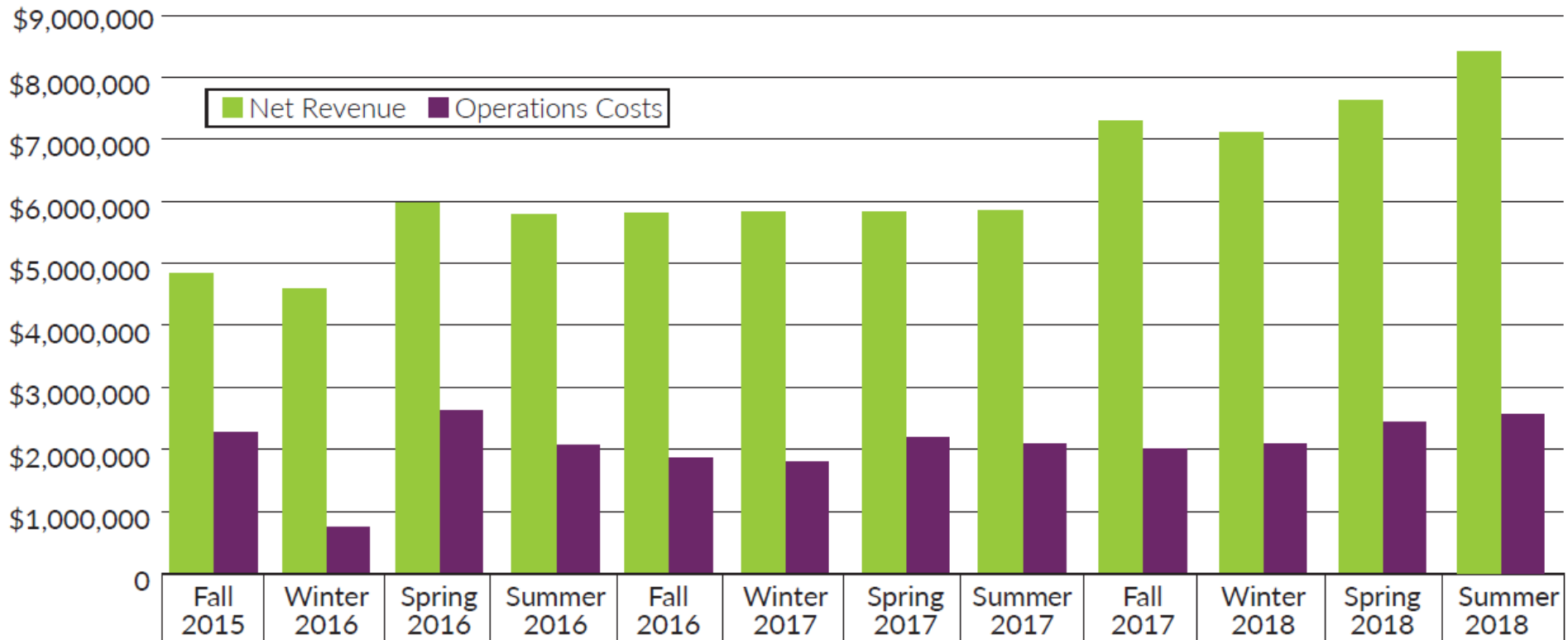
Customer sentiment

WSDOT conducted a September 2018 survey of nearly **775** *Good To Go!* customers who have used the I-405 express toll lanes.

Good To Go! customer survey



Toll revenue continues to increase



Operational improvements

WSDOT continues to manage ongoing operations to identify ways to improve performance, including adjustments to the toll rate algorithm and collaborating with the Washington State Patrol on enforcement.



Continually refining algorithm that generates toll rates to respond to demand and keep the lanes moving, with **50 algorithm adjustments** to date

Examples include:

- Helping improve performance at direct access ramps NE 128th St
- Managing heavy demand northbound in two lane section

Provide options for a shorter trip at a lower rate at direct access ramps



ENFORCING THE RULES ENSURES FAIRNESS

6,225 HOURS TOTAL ENFORCEMENT FROM JULY 2017 TO JULY 2018

4,345 TOTAL NUMBER OF CITATIONS
6,935 NUMBER OF CONTACTS

Questions?

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