



# COUNTERINTUITIVE STORIES from streetlight data

*ITS WA Annual Meeting 2018*

FEHR & PEERS

Christopher Grgich, PE, PTOE  
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FEHR & PEERS

# a tale of two projects



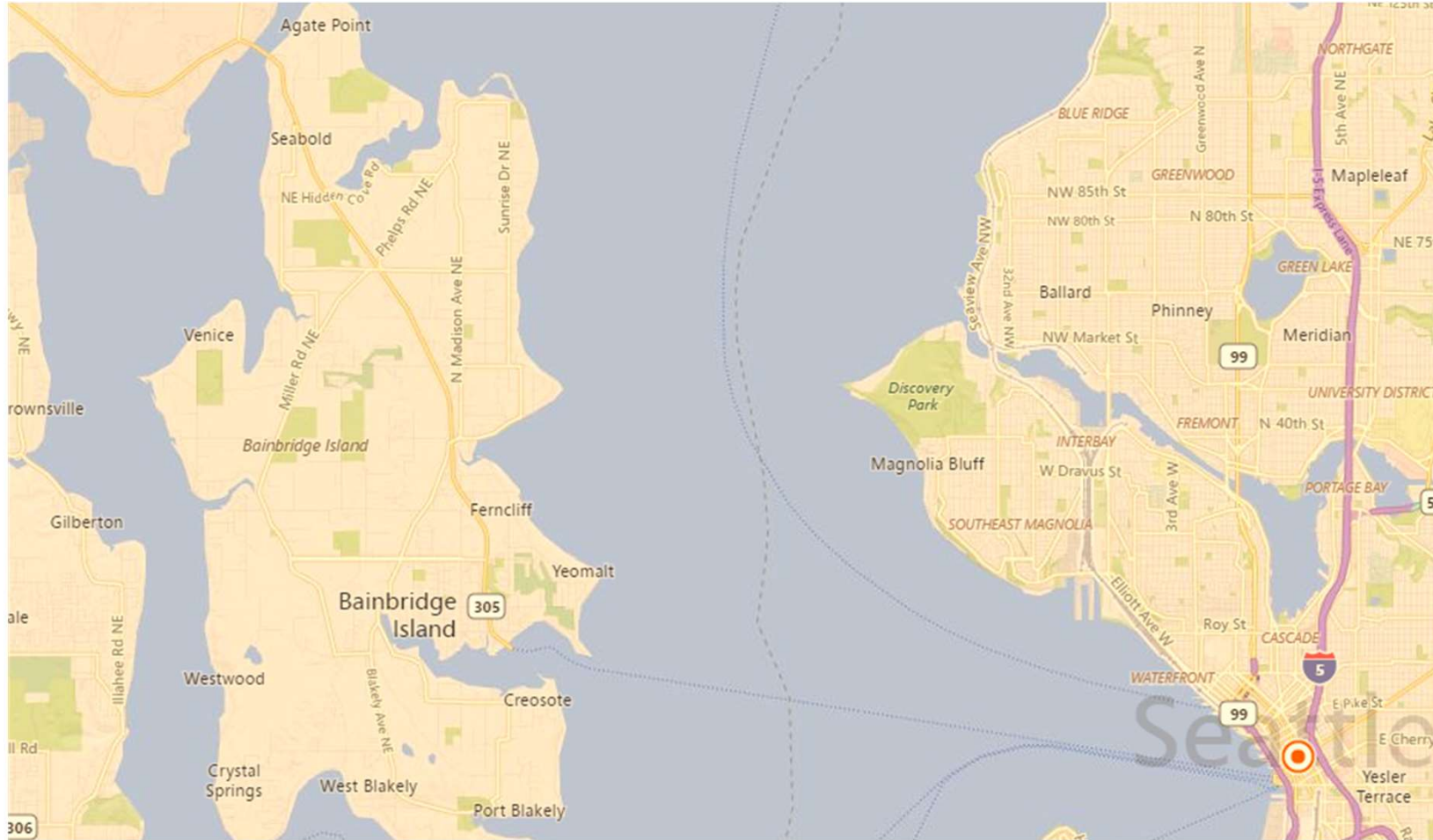
## SR 305 Corridor Needs



## Front Street/I-90 IJR



# SR 305 corridor needs



# SR 305 corridor needs



***The Ferry is causing all these problems!***

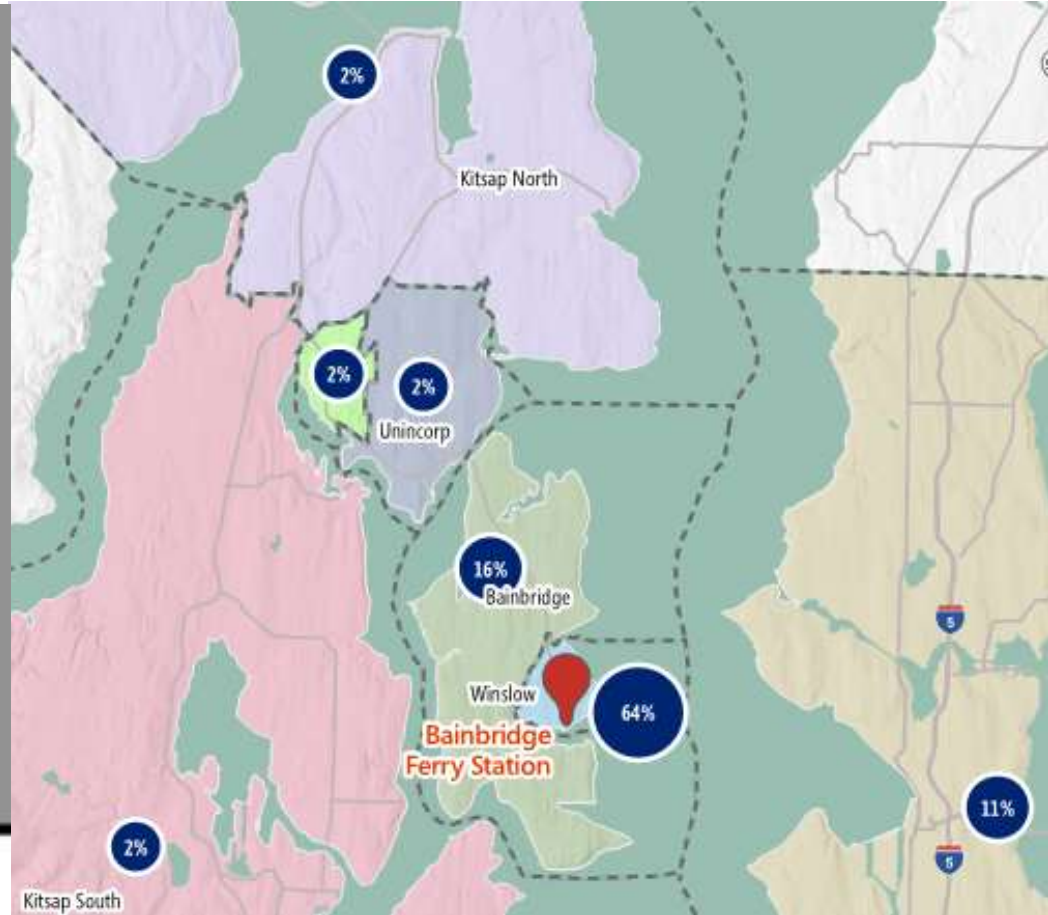
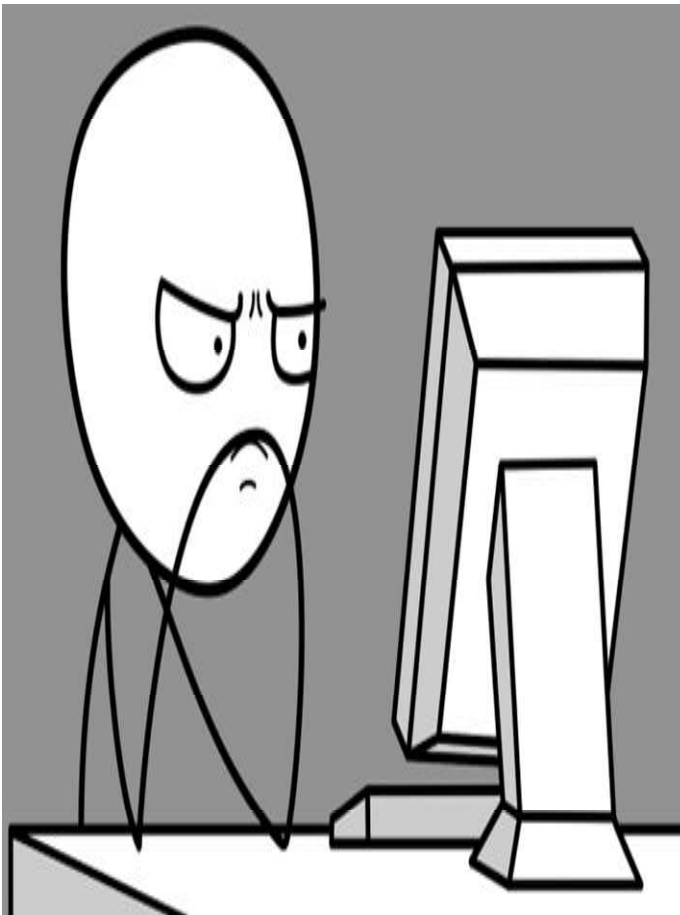


***Too much traffic is passing through Bainbridge Island!***

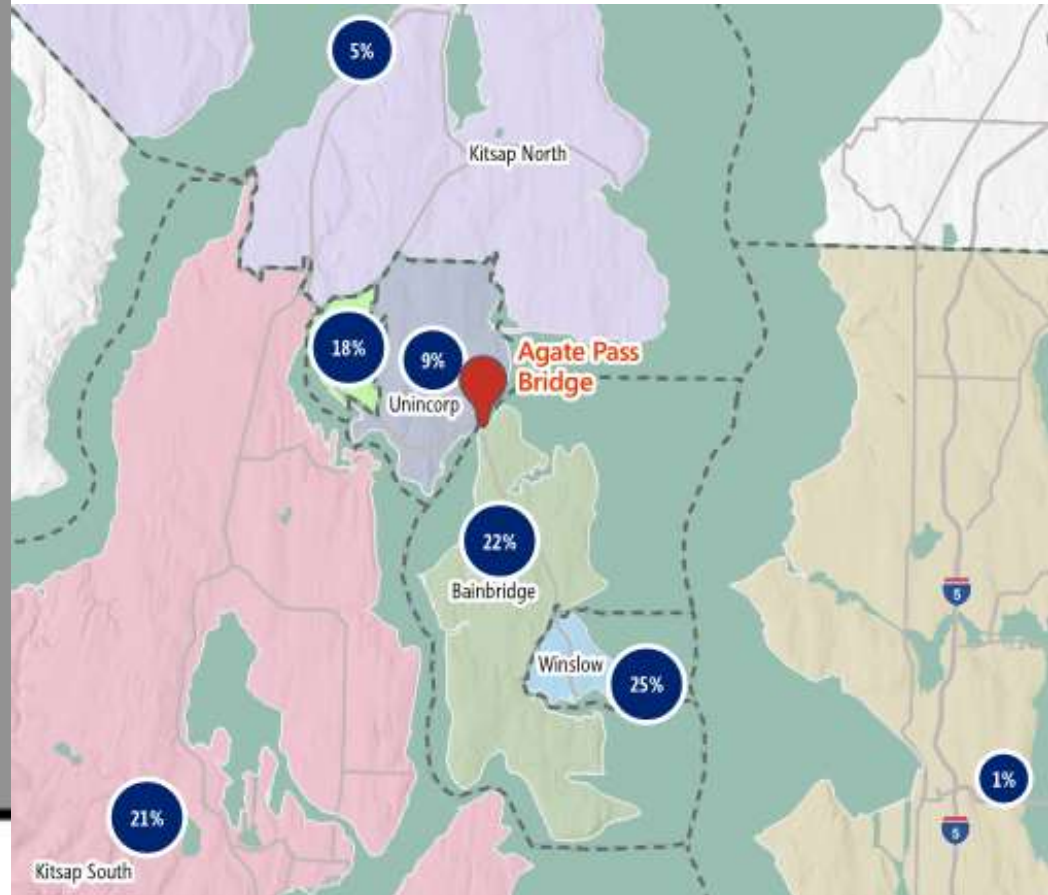
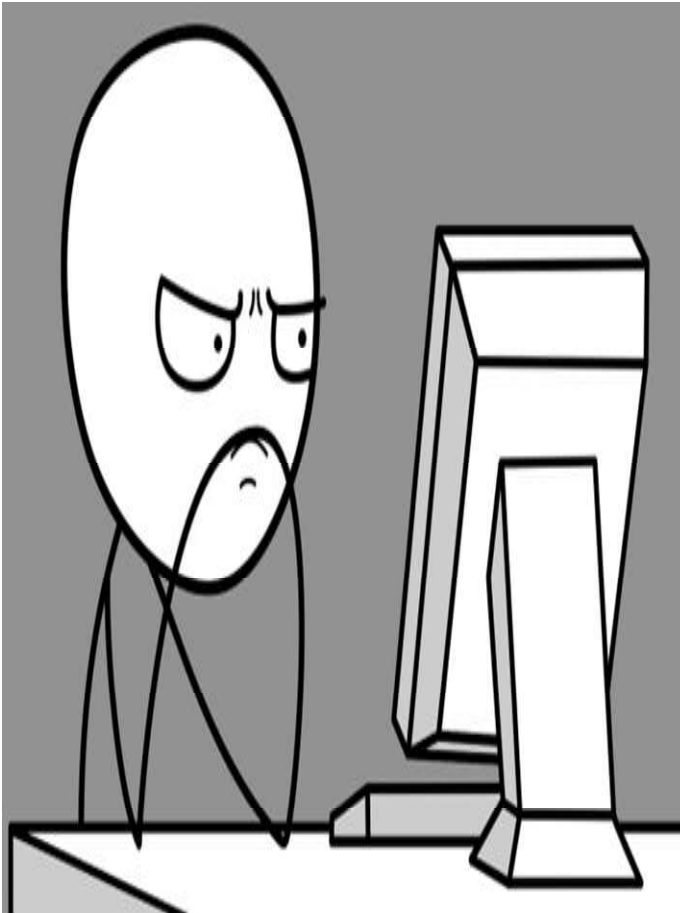


***We can't get on the road because of out of town traffic!***

# SR 305 corridor needs



# SR 305 corridor needs



# SR 305 corridor needs



***The problem isn't from ferry traffic.***

***Only 1% of the traffic at the Agate Pass Bridge comes from the ferry terminal.***

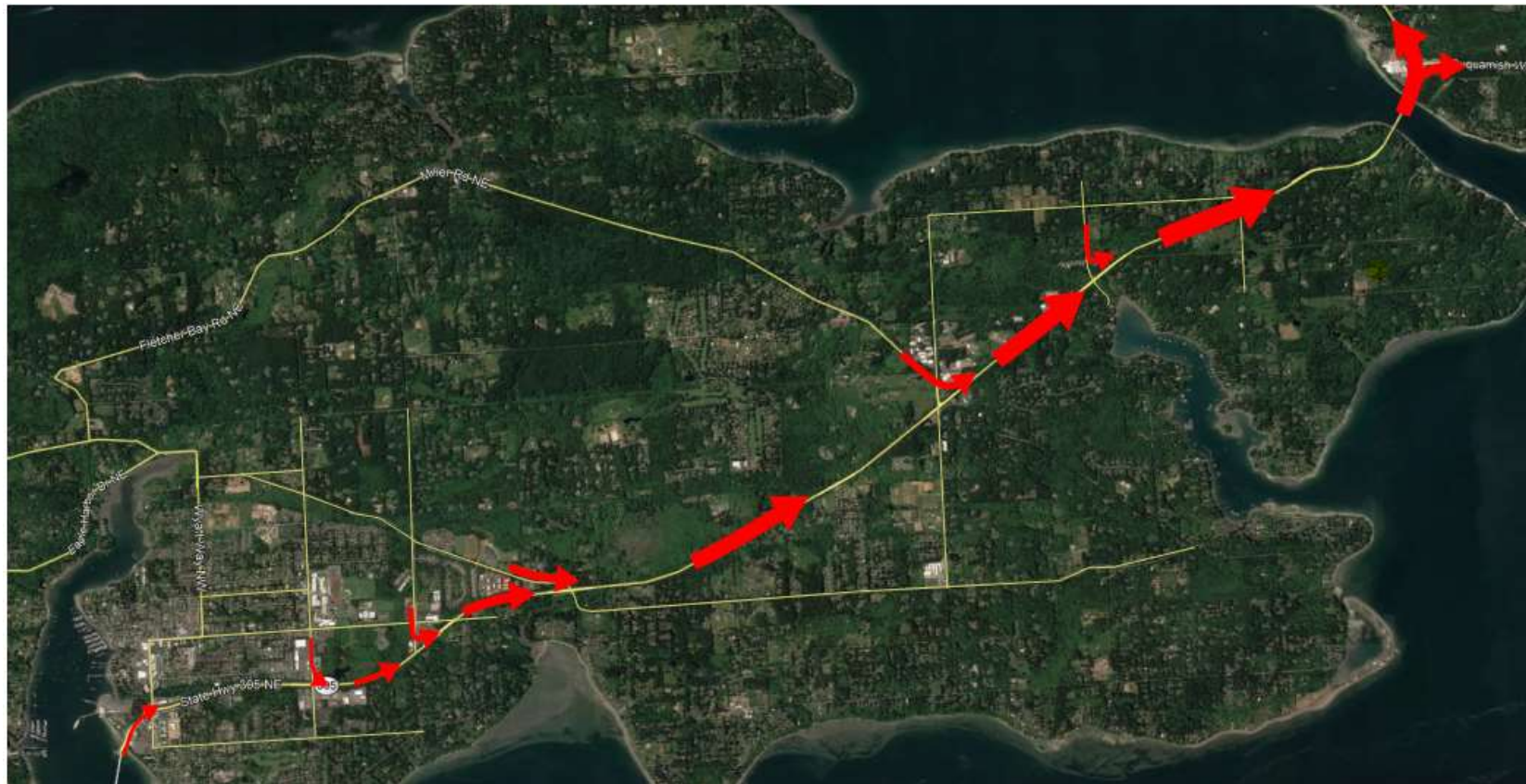
***Only 4% of the traffic at the terminal comes from north of Bainbridge Island.***

***"You'll be laughed out of Kitsap County!"***

# SR 305 corridor needs



## TURNING MOVEMENT COUNTS

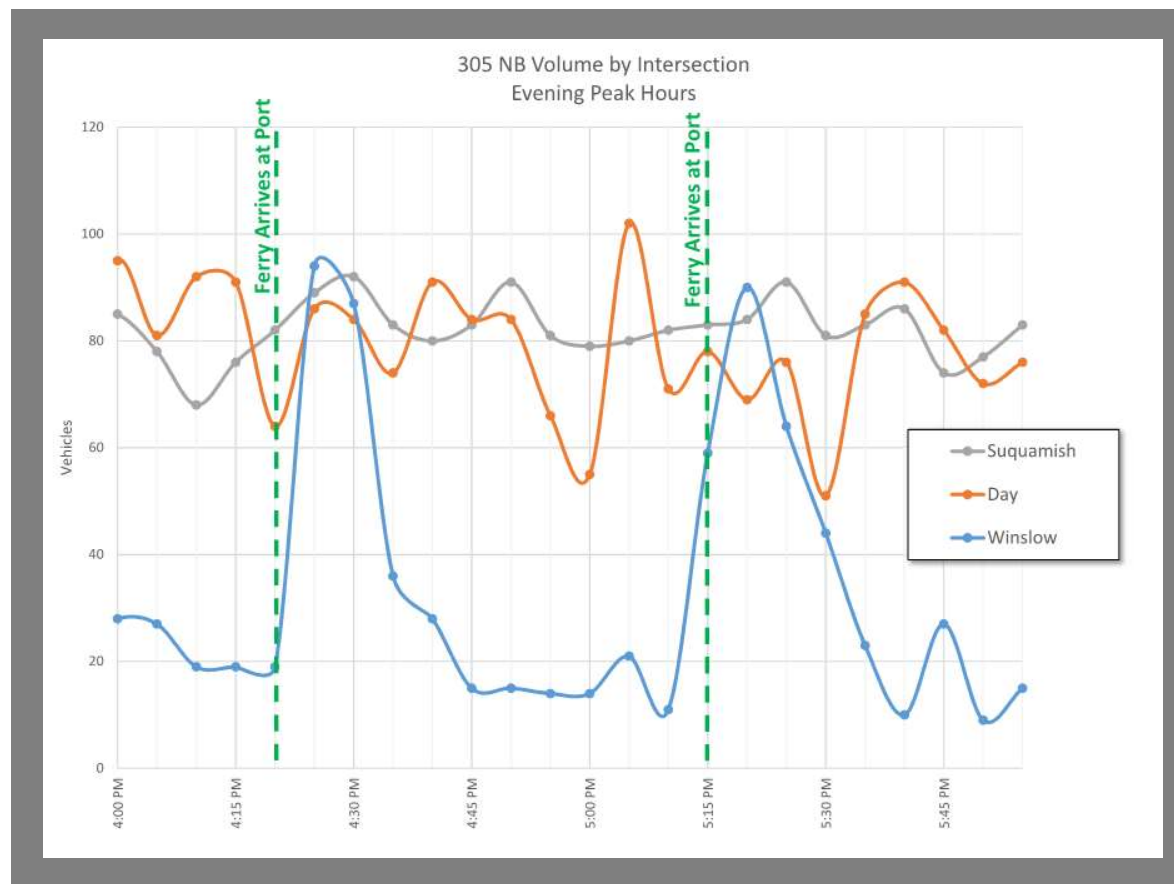




# SR 305 corridor needs



## 5 MINUTE VOLUME PROFILE



# SR 305. corridor needs



***SR 305 is serving the communities of Bainbridge Island, Suquamish, and Poulsbo.***

***Traffic builds on the Island as drivers funnel through the Agate Pass Bridge.***

***Ferry traffic contributes to the problem, but isn't the most significant cause.***

# Front Street/I-90 interchange justification



# Front Street/I-90 interchange justification



***Traffic is cutting through  
Front Street from I-90!***

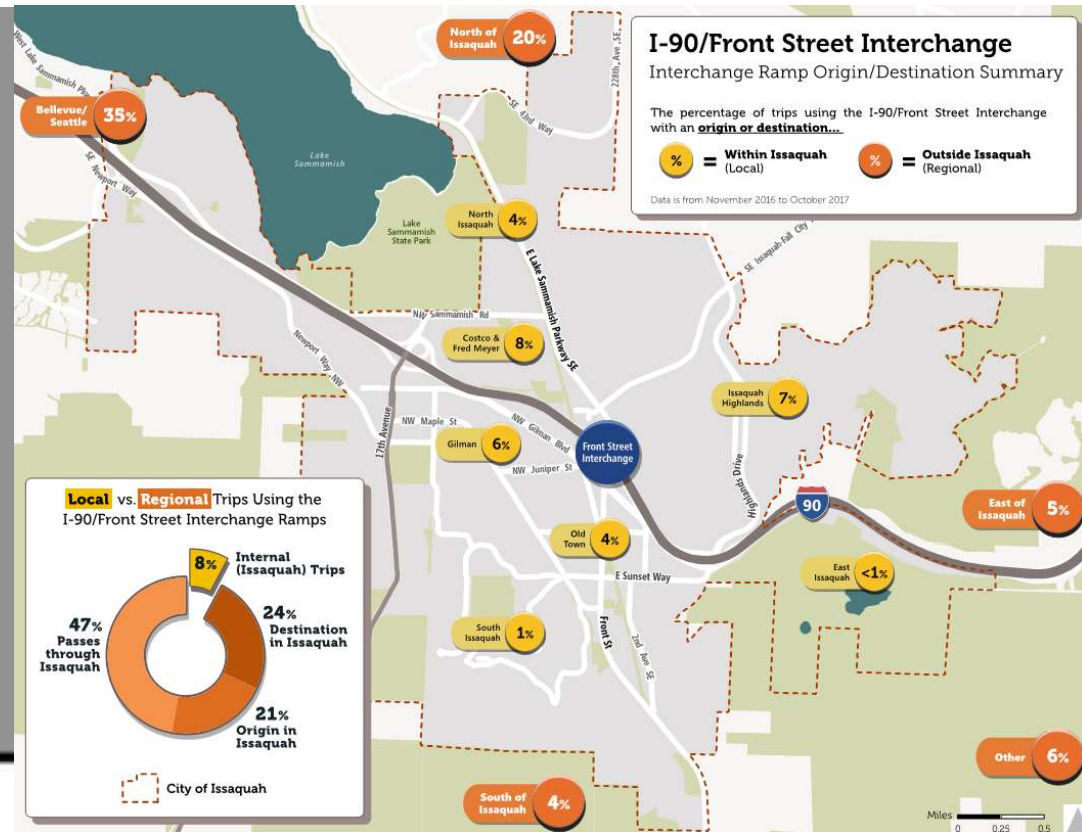
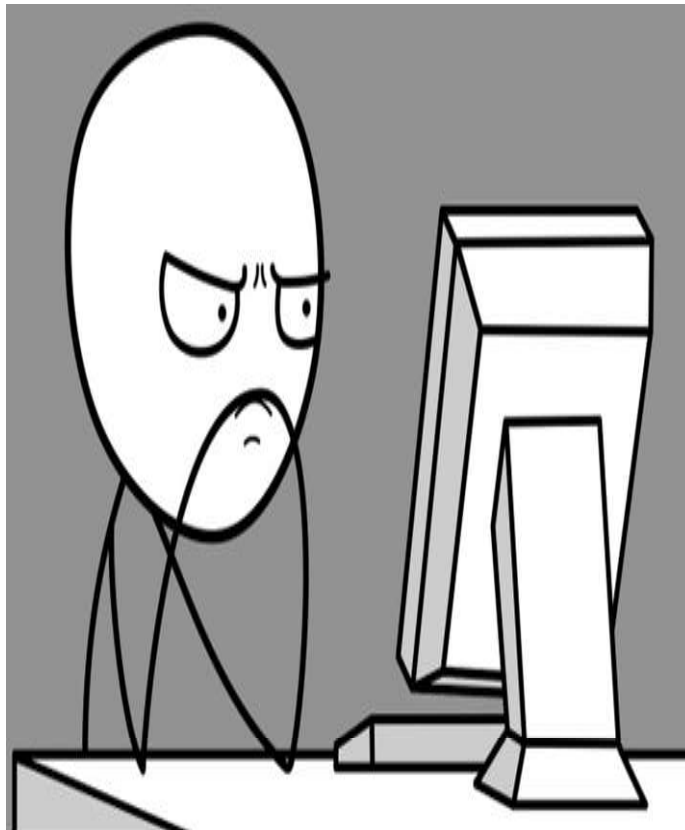


***Congestion in Old Town Issaquah  
is backing up the interchange!***

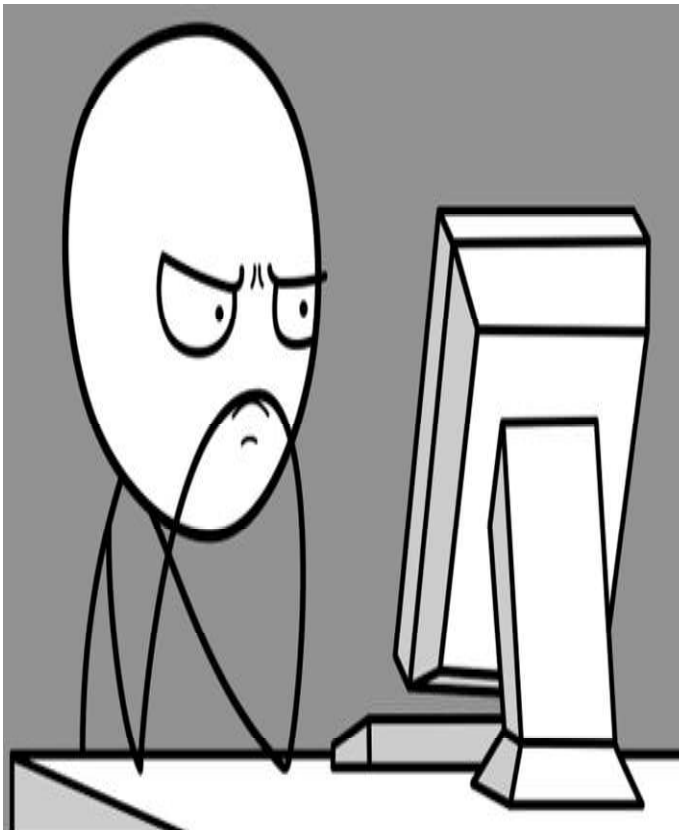


***Local traffic crossing I-90 is  
blocking the highway ramps!***

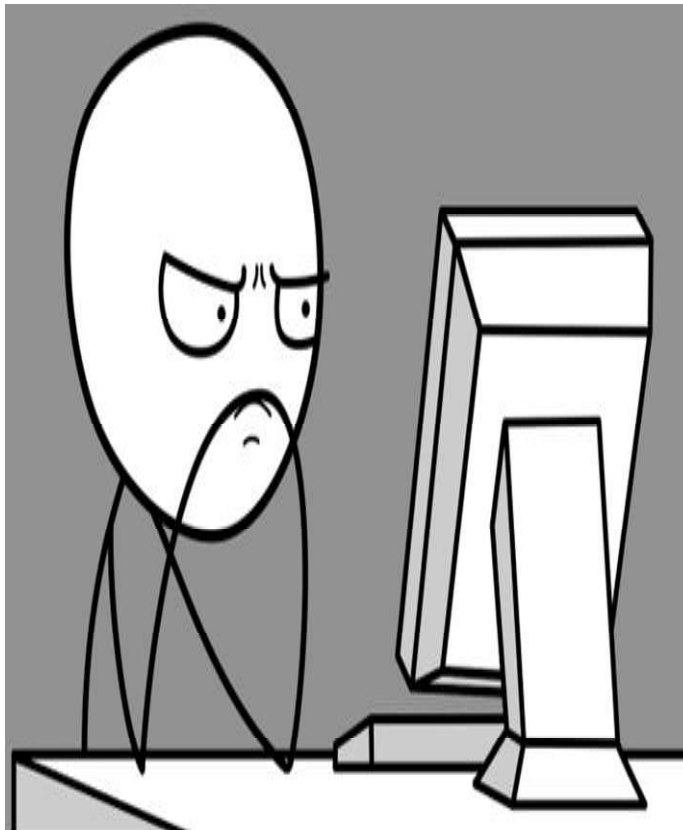
# Front Street/I-90 interchange justification



# Front Street/I-90 interchange justification



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# Front Street/I-90 interchange justification



***Traffic isn't backing up on the ramp from Front Street.***

***Most of the traffic from I-90 is heading north to areas outside of Issaquah.***

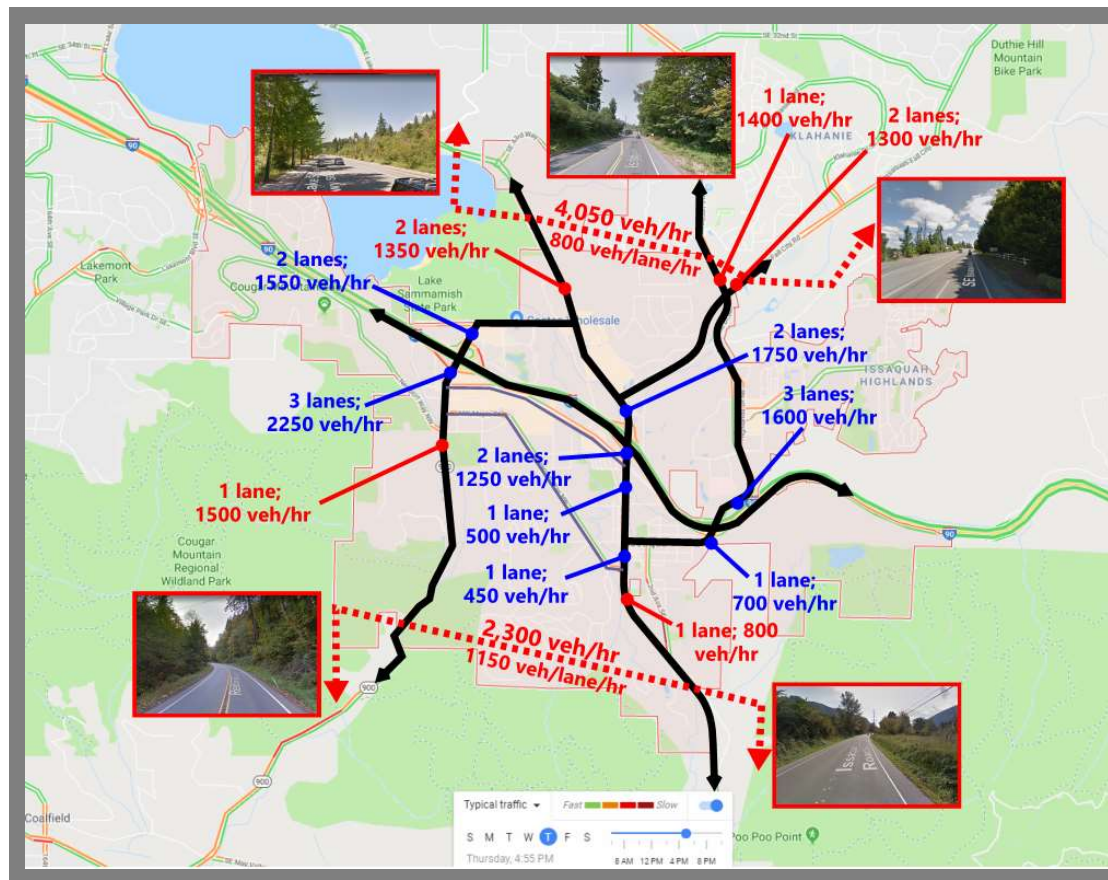
***Most of the traffic crossing I-90 at Front Street is local traffic.***



# Front Street/I-90 interchange justification



## VEHICLES PER LANE



# Front Street/I-90 interchange justification



## WSDOT TRAFFIC CAM



# Front Street/I-90 interchange justification



***Congestion at the Interchange is due to eastbound off-ramp demand going north.***

***Front Street and Issaquah-Hobart Road are congested, but it's a separate problem.***

***Removing the local traffic from the interchange won't fix the problems.***

***Most of the demand at the interchange is west-to-north, and will continue to grow.***

# theTake Away



*Streetlight Data isn't always going to tell the story you are expecting to hear.*

*Use traditional data streams to do a deeper dive and either confirm or dispute the Streetlight Data.*

*It's not the full story, but it can be useful when refining your purpose and need statement.*

# THANK YOU

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## SR 305 CORRIDOR NEEDS STUDY

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*Questions?*

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