

10/29/2020



### Agenda

- Service Overview
- Opportunities and Challenges with Highway Operations
- Transitioning to High-Capacity Transit
- Lessons Learned



# Service Overview

# System Overview



FAST, FREQUENT REGIONAL BUS SERVICE



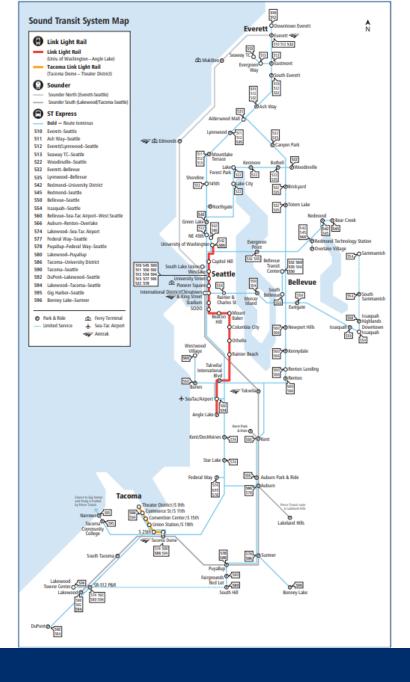
HIGH CAPACITY COMMUTER RAIL



FREQUENT, RELIABLE HIGH-CAPACITY LIGHT RAIL



LIGHT RAIL WITH MULTI-MODAL CONNECTIONS



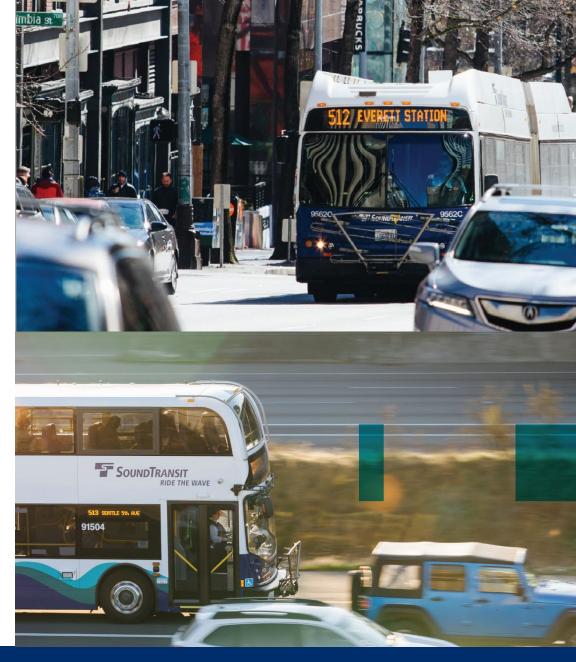
#### **Sound Transit Future Service**





### ST Express Overview

- 28 routes spanning 3 counties
  - Regional, Overlay, Connecting
- Fleet of 360 buses, including CNG, diesel, and diesel-electric hybrids
- 70k daily platform hours
- 61k daily riders





## ST Express Guiding Principles



 Provide regional express service and work with partners to provide local connections



Integrate with high-capacity transit and emulate future service



Connect regional populations and employment centers



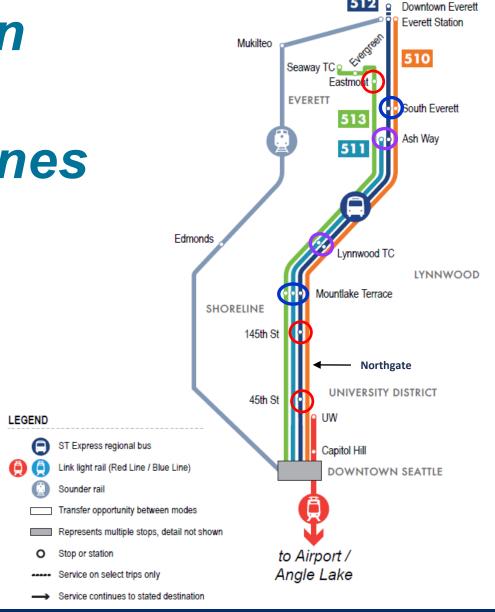
 Integrate with other modes to create an all-day, all-week network for customer convenience

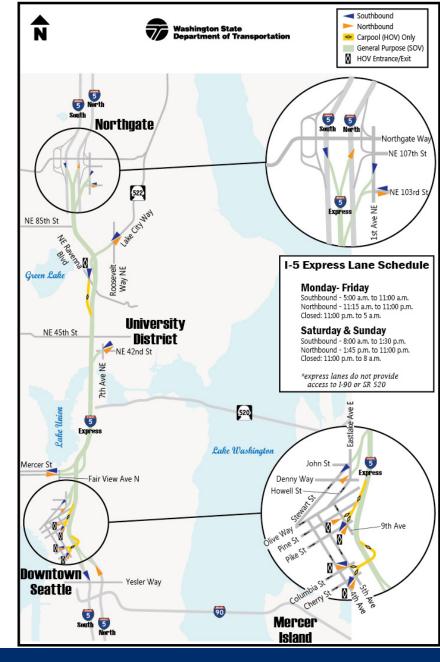


# Opportunities and Challenges with Highway Operations

# Operating in HOV and Express Lanes

- Flyer/Off-Ramp Stop
- Freeway-Adjacent TC
- In-Line Freeway Station







### Benefits and Tradeoffs

	In-Line Freeway Station	Freeway-Adjacent Transit Center	Flyer/Off-Ramp Stop
Benefits	Best use of HOV/express lanes for travel time and reliability	May leverage HOV/express lanes, shortest walk, easier transfers to local service	Most affordable to install, easiest to implement with existing infrastructure
Tradeoffs	Most expensive, difficult transfers to local service	Requires longest deviations	Slower, harder to maintain consistent stop patterns
	Source: TransitCenter	Source: Seattle Times	FREEWAY STATION  Montlake SR-220 & Montlake Blvd. E.  dimetrio  Griderio  Source: UW's The Daily

## In-Line Freeway Station Examples

**Eastgate** 



### Mountlake Terrace



# Leveraging Highway Projects, Transitioning to HCT

# WSDOT I-405/SR 167 Project

- 50-mile Express Toll Lane System
- Direct Access and Direct Connectors
- P&R + Transit Center Expansions
- Center-running BRT

40-mile system: Phase 1



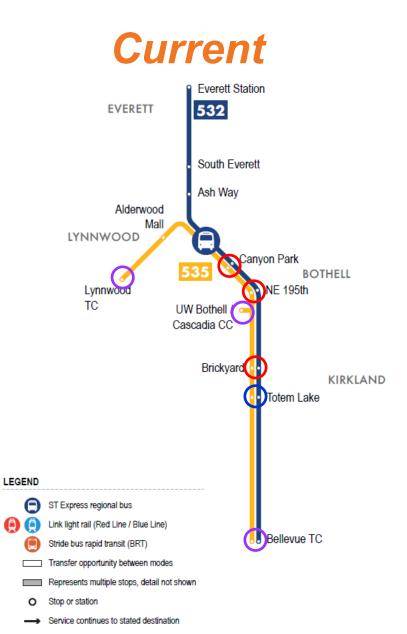
40-mile system: Phase 2



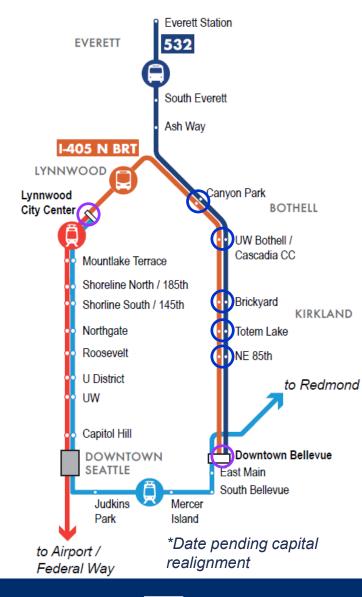


# S2: BRT on I-405 North

- Flyer/Off-Ramp Stop
- Freeway-Adjacent TC
- In-Line Freeway Station

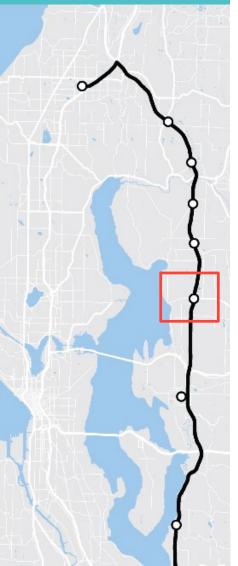


2025

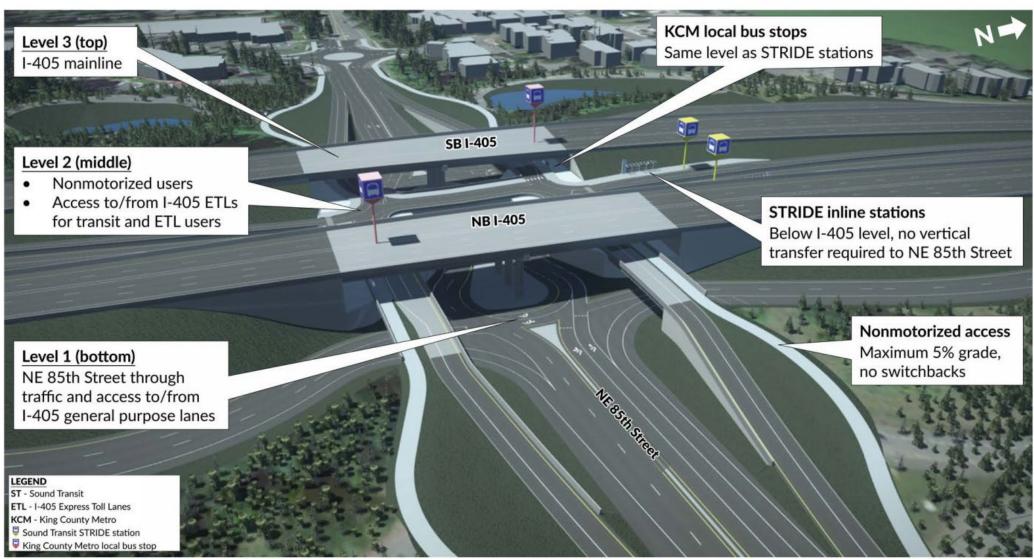




#### **BRT STATION**

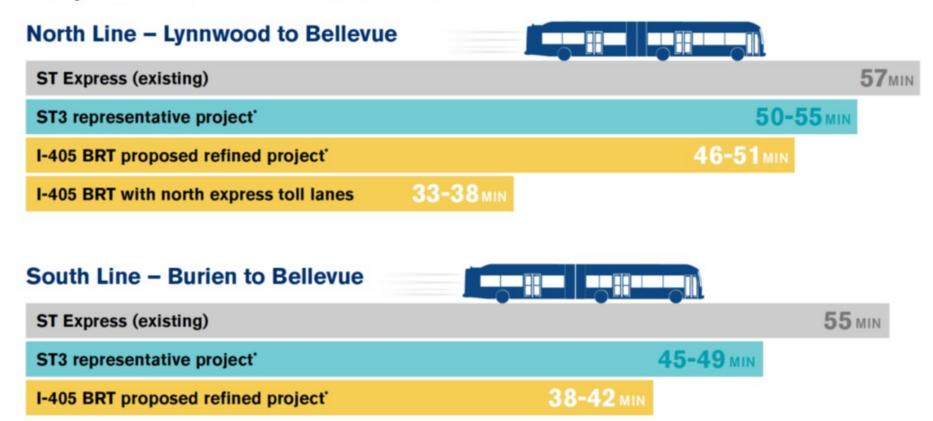


# NE 85th Street (Kirkland)



### I-405 BRT travel times

#### AM peak hour travel times to Bellevue



<sup>\*</sup>Preliminary travel time estimates for planning purposes, subject to change. Existing travel times are average times. Year 2025 estimates assume new express toll lanes are open between Renton to Bellevue. Updated information will be provided prior to beginning service.



# Lessons Learned

### Lessons Learned

- Make ongoing improvements with future projects and goals in mind
- Leverage partners, their projects, and political champions
- Don't make bike/ped and bus connections an afterthought
- Don't wait till it's perfect: build markets and support now



## Thank you.

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