



# Operations & Administration Committee: ST3 Draft System Plan

April 7, 2016

 **SOUNDTRANSIT**

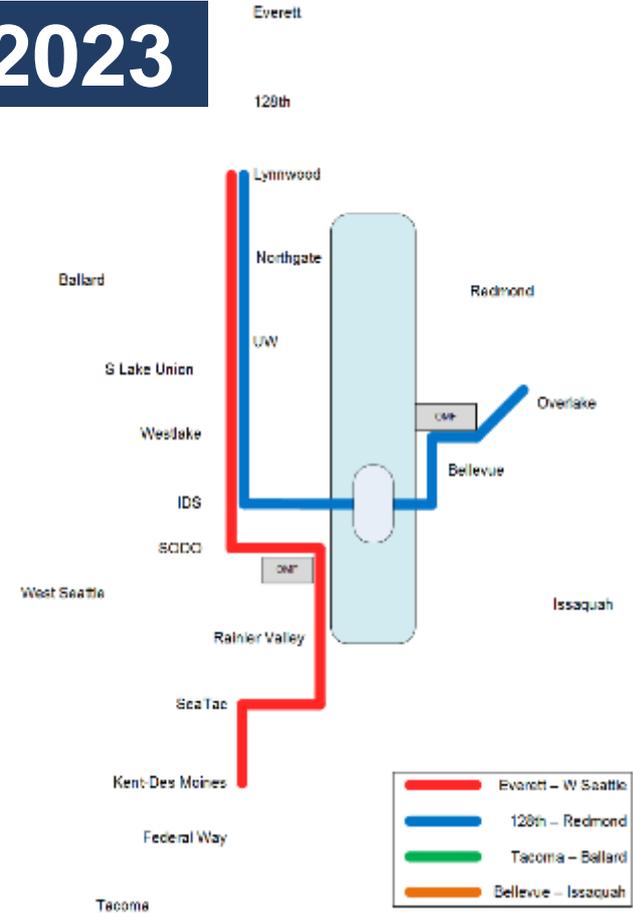
- Review service and Operation and Maintenance Facility (OMF) assumptions
  - Light rail
  - ST Express
  - BRT service
- Building on ST2:
  - Regional assets
- Next Steps

# LRT System Operations and OMF Assumptions

# ST2 LRT System Operations: 2023

## *Operation and Maintenance Facilities:*

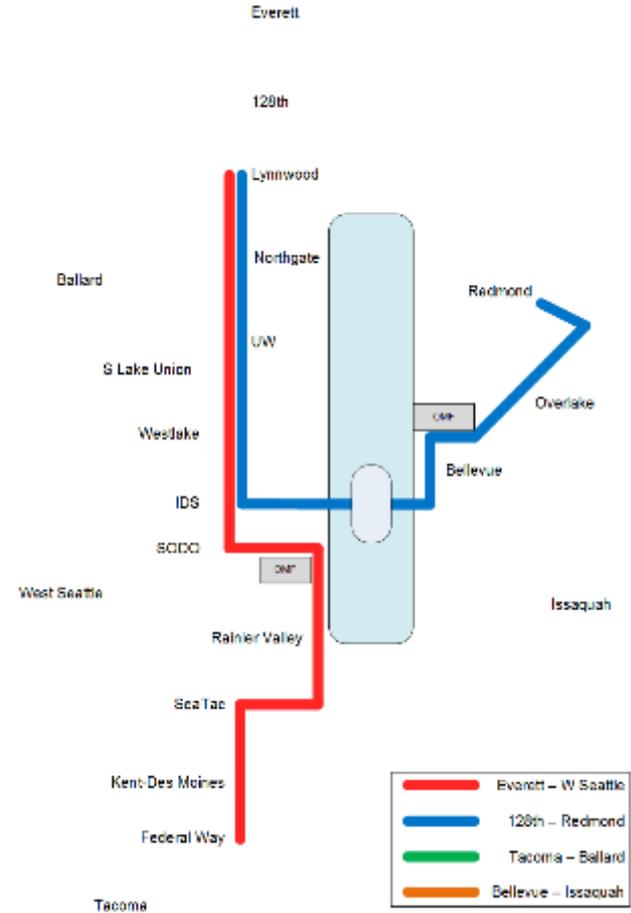
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)



# ST3 Draft System Plan: 2028

## *Operation and Maintenance Facilities:*

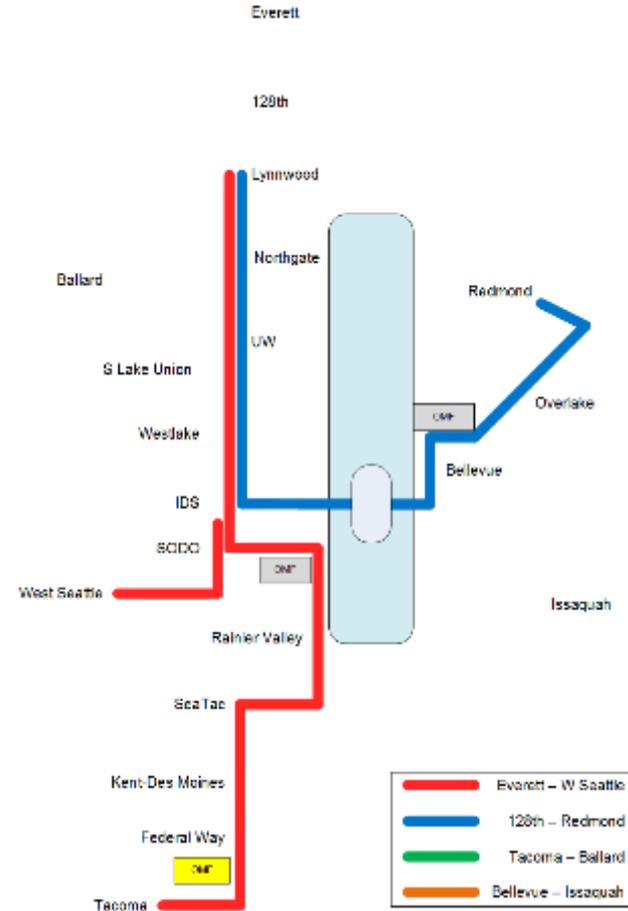
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)



# ST3 Draft System Plan: 2033

## *Operation and Maintenance Facilities:*

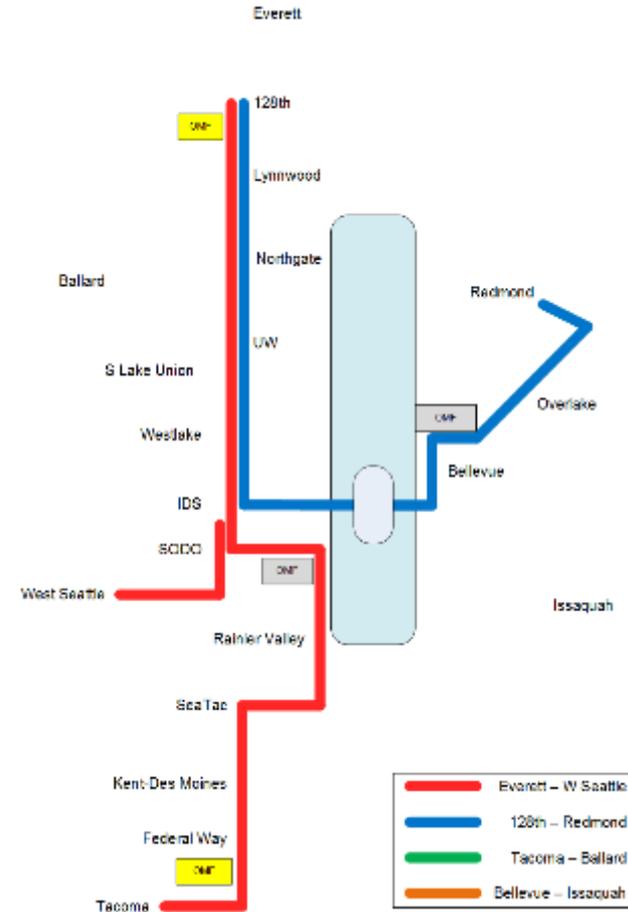
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)
- Connection to Forest Street to provide service for West Seattle
- New facility in the south (~ 152 vehicles)



# ST3 Draft System Plan: 2036

## *Operation and Maintenance Facilities:*

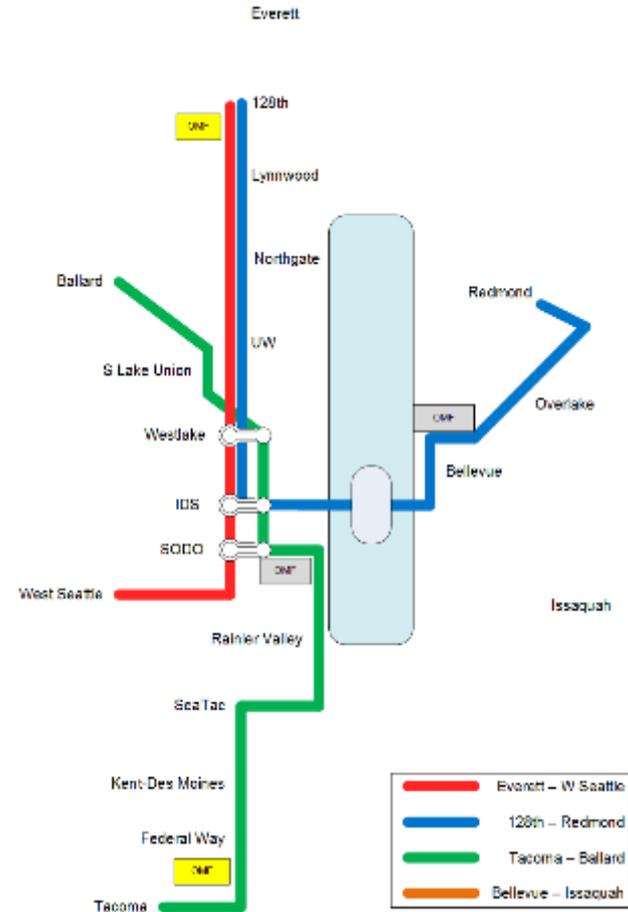
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)
- Connection to Forest Street to provide service for West Seattle
- New facility in the north (~108 vehicles)
- New facility in the south (~152 vehicles)



# ST3 Draft System Plan: 2038

## Operation and Maintenance Facilities:

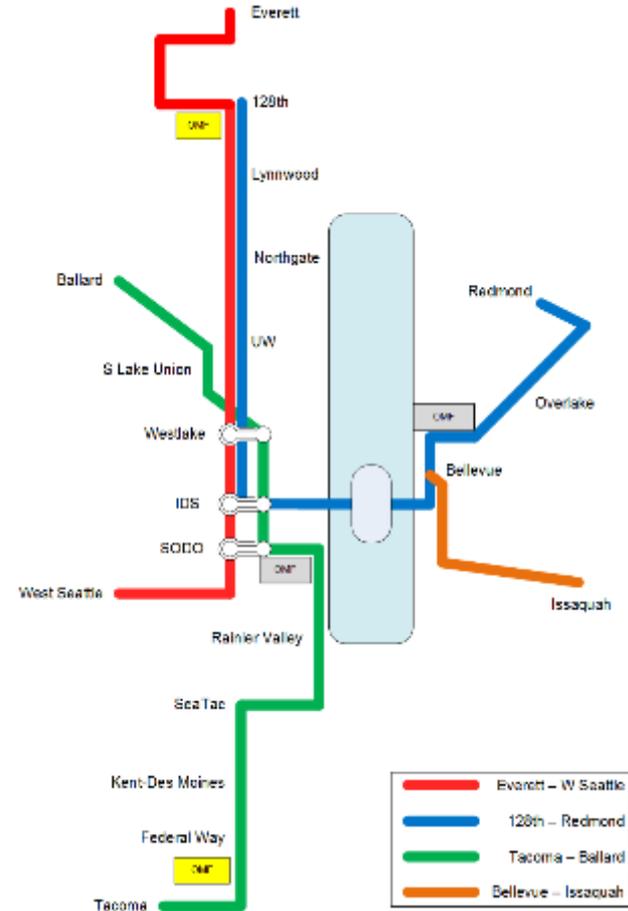
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)
- Connection to Forest Street to provide service for West Seattle
- New facility in the north (~108 vehicles)
- New facility in the south (~152 vehicles)



# ST3 Draft System Plan: 2041

## Operation and Maintenance Facilities:

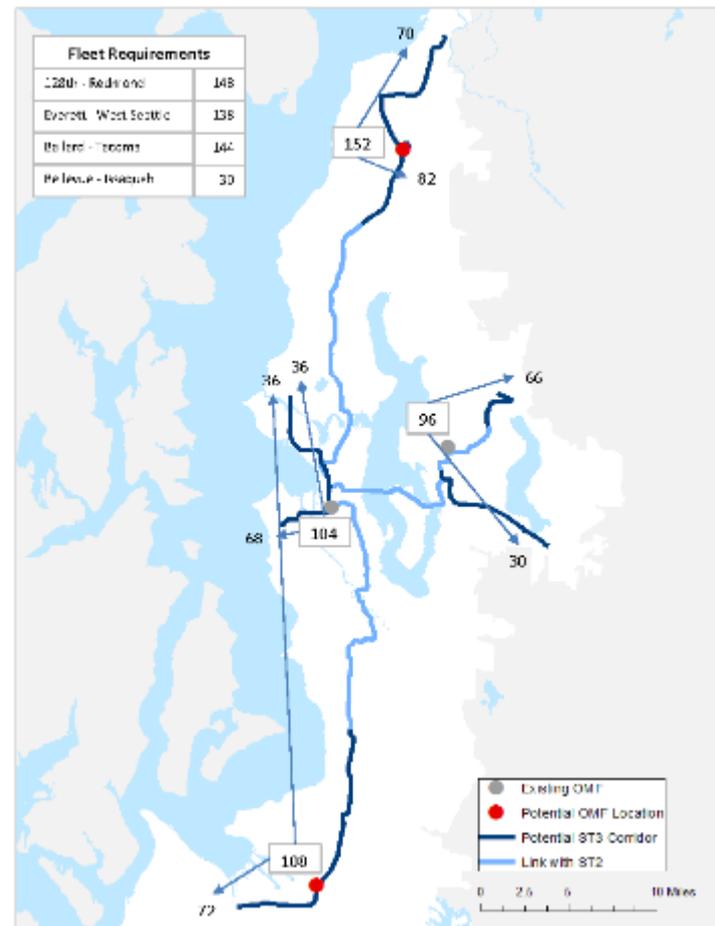
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)
- Connection to Forest Street to provide service for West Seattle
- New facility in the north (~108 vehicles)
- New facility in the south (~152 vehicles)



# ST3 Draft System Plan: Potential LRT Buildout

## *Operation and Maintenance Facilities:*

- ~460 total vehicles
- Four operation and maintenance facilities
- Serve regional LRT system



# ST Express/BRT System Operations and OMSF Assumptions



# ST Express in ST3 | Network Change

- Truncate ST Express service in corridors served by ST2 Link
- Link is the primary connection to Downtown Seattle
- ST Express provides connections to Link Stations at:
  - Lynnwood
  - Kent-Des Moines
  - Downtown Bellevue/South Bellevue
  - University of Washington



# ST Express in ST3 | Service Hours

## ***Approximately 600,000 annual platform hours***

- Corridor service maintained at existing levels
- Accounts for savings from I-405 and SR-522 BRT.

## ***Expansion of LRT service***

- ST Express annual platform hours will decrease over 25 year plan as light rail service increases
- Enables transit partners to repurpose their service hours to meet needs



## ***BRT Platform Hours:***

- BRT: I-405 and SR 522: ~ 200,000 annual platform hours

## ***Additional Fleet:***

- Approximately 50 total BRT buses to be operated and maintained

## ***Operation and Maintenance Facilities:***

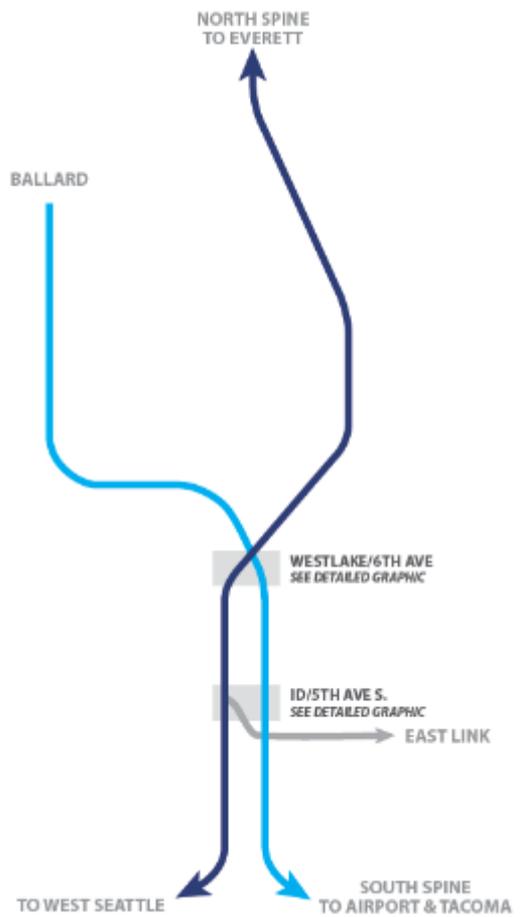
- Flexibility to meet bus maintenance needs during implementation of ST2 and ST3
- Two facilities identified to meet service needs
  - ST2 provides funding for one base
  - ST3 satellite facility sized for BRT services
  - Representative facilities identified at each end of the I-405 BRT corridor to support BRT and ST Express service
- Constructing a BRT bus base addresses ST future capacity needs
- Other transit partners are running out of capacity at transit bases
- ST3 Draft System Plan assumes continued reliance on partners for some ST Express service

- Proceed with assumptions as presented here
- Refine capital costs of OMFs based on representative locations
- Include representative locations within final ST3 Plan

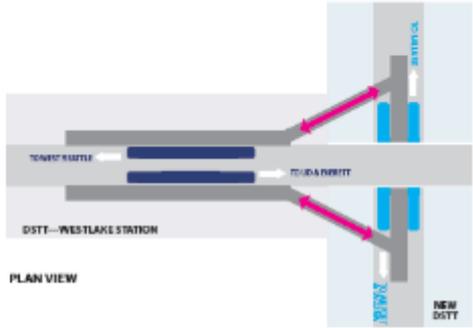
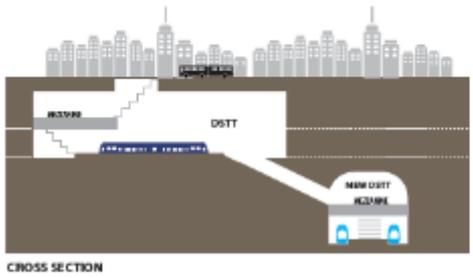


 **SOUND TRANSIT**

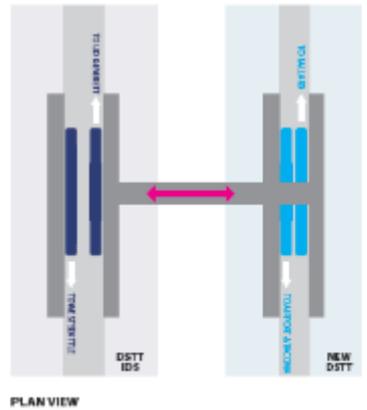
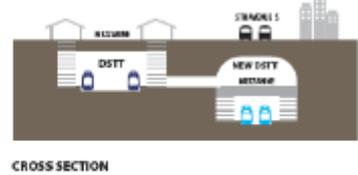
# Downtown Seattle Tunnel



## WESTLAKE/6TH AVE STATIONS



## ID/5TH AVE S. STATIONS



ILLUSTRATIONS NOT TO SCALE

# DRAFT ST3 System Plan: Light Rail



| Projects  | Draft Schedule |
|---|----------------|
| Redmond Technology Center to Downtown LRT   | 2028           |
| Kent/Des Moines to Federal Way LRT  | 2028           |
| Federal Way to Tacoma Dome LRT  | 2033           |
| West Seattle to Downtown Seattle LRT  | 2033           |
| Lynnwood to 128 <sup>th</sup> St. SW (Mariner) LRT  | 2036           |
| Infill Light Rail Station: Graham Street  | 2036           |
| Infill Light Rail Station: Boeing Access Road.  | 2036           |
| Ballard to Downtown Seattle LRT (with new downtown rail tunnel)   | 2038           |
| Tacoma Link Extension to Tacoma Community College   | 2041           |
| 128 <sup>th</sup> St. SW (Mariner) to Everett LRT via Southwest Everett Industrial Center and Evergreen Way | 2041           |
| Bellevue to Issaquah LRT  | 2041           |