



ST3 Expert Review Panel

February 9, 2016

Ridership Forecasting

 **SOUNDTRANSIT**

Overview

- Effects of new demographics
- Light rail capacity
- Origins – Destination studies
 - Lynnwood-to-Everett options
 - I-405 BRT options
- Cost effectiveness

Effects of New Demographics

- Land Use Vision version 1 (LUV.1)
 - 202,000 less jobs in 2040 than Land Use Targets
 - 89,000 less jobs in 2040 after subtracting Construction/Resource jobs
 - Fewer daily transit trips:
 - Ballard
 - U District
 - Central Seattle neighborhoods including Capitol Hill
 - Redmond
 - Renton
 - More daily transit trips:
 - Seattle CBD
 - Net reduction of 12,000 daily transit trips
 - (also includes change of assumption from highway tolls to mileage fees)

Light Rail Capacity

- Capacity per line
 - 10 trains per hour (6-minute headway)
 - 4 car trains
 - Comfortable peak capacity: 6,000 passengers per hour per direction
 - Standard peak capacity: 8,000 passengers per hour per direction
- Maximum passenger volume per line
 - West Seattle – Everett
 - Northbound north of U District
 - Redmond – 128th
 - Southbound in downtown tunnel
 - Ballard – Tacoma
 - Southbound in downtown tunnel through to Beacon Hill

Origin – Destination Studies

- **Lynnwood-to-Everett options**
 - Similar travel patterns for riders on all options
 - For Paine Field alignment
 - Reduction in project riders (- 20%) for North Everett
 - Small increase in project riders to south Everett from distant locations like Renton and Kent
- **I-405 BRT options**
 - Similar travel patterns for riders on both options
 - For Intensive Capital Investment option compared to Lower Capital
 - Increase in project riders (700) for Kirkland, especially for trips within Kirkland and to west Bellevue
 - Reduction in project riders passing through the Tukwila area
 - Bellevue – SeaTac
 - Renton – Seattle (via Link connection)

Cost Effectiveness

- Cost per rider
- Travel time comparisons
 - Highway travel times expected to get worse
 - Future transit travel times with ST3 are improved compared to existing
 - Future transit travel times with ST3 are better than or competitive with future highway travel times

The image features a dark grey horizontal banner across the center. On the left side of the banner is the Sound Transit logo, which consists of a stylized white 'S' and 'T' combined into a square shape. To the right of the logo, the words 'SOUNDTRANSIT' are written in a bold, white, sans-serif font. Below 'SOUNDTRANSIT', the slogan 'RIDE THE WAVE' is written in a smaller, white, sans-serif font. The background of the entire image is a close-up of a white and blue train car with large windows and a blue wave graphic on its side. The top half of the train is white with dark windows, and the bottom half is blue with white windows. A blue wave graphic is painted on the side of the train, transitioning from light blue to dark blue. The word 'SOUND' is partially visible in large white letters on the blue background at the bottom right.

SOUNDTRANSIT
RIDE THE WAVE