Staten Island West Shore Alternatives Analysis

Community Board Briefings

January, 2020
Agenda

- Introductions
- Study Overview
- Screening of Alternatives
- Short List of Alternatives
- Study Schedule
- Questions
STUDY OVERVIEW
Study Overview

- Perform credible and transparent evaluation of alternatives
- Identify reasonable alternatives
- Evaluate construction and operational feasibility
- Identify risks and opportunities
- Select a Preferred Alternative that can be incrementally implemented
Study Goals

1. Improve transit service for West Shore residents

2. Support sustainable economic growth

3. Identify improvements consistent with land use patterns

4. Provide cost-effective transit service improvements

5. Support and preserve recreational areas & natural environment
SCREENING OF ALTERNATIVES
Three Travel Corridors – 18 Route Options

West Shore Expressway

West Shore Expressway + Victory Boulevard

Korean War Veterans Parkway + Richmond Avenue
Initial Screening Factors and Results

3 Travel Corridors

- West Shore Expressway
- West Shore Expressway + Victory Boulevard
- Korean War Veterans Highway + Richmond Avenue

18 Route Options

Constrained right-of-way

Factor 1

- Complexity of two off-island crossings

Eliminated West Shore Expressway/Victory Boulevard travel corridor

Factor 2

- Eliminated routes with two-off-island crossings

Mode Screening

Route Options

- Heavy Rail Transit (HRT) eliminated for Richmond Avenue routes
- HRT and Light Rail Transit (LRT) eliminated for St. George and Verrazzano-Narrows Bridge routes
- Bus Rapid Transit (BRT) dropped for Verrazzano-Narrows Bridge routes
Two Travel Corridors – 6 Route Options

West Shore Expressway

Korean War Veterans Parkway + Richmond Avenue
Mode Screening Factors

• Supported by existing and planned land use

• Substantial longer-term transit improvements that can be incrementally implemented

• Complements North Shore BRT
Screening of the Revised Long List of Alternatives

2 Travel Corridors
- West Shore Expressway
- Korean War Veterans Highway + Richmond Avenue

6 Route Options

Mode Screening
- Eliminated HRT
- LRT not precluded

Corridor Screening
- Eliminated Metropark
- Eliminated Bayonne Bridge via West Shore Expressway
- Eliminated Goethals Bridge via Korean War Vet Pkwy

Results
- West Shore Expressway BRT: Tottenville to Newark Liberty International Airport and North Shore BRT
- Korean War Vet Pkwy + Richmond Ave BRT: Tottenville to Bayonne

Staten Island West Shore Alternatives Analysis
SHORT LIST
ALTERNATIVES
Bus Rapid Transit

- Improved Service
- Enhanced Stations
- Intelligent Transportation Systems (ITS)
- Dedicated Running Ways
- Off-Board Fare Collection / OMNY
- Stylized, Low-Floor Vehicles
- Special Branding

LA Metro Busway
CTfastrak

Viva Rapid Transit, Ontario
Crystal City Potomac Yard Transitway
West Shore Expressway: Tottenville to Newark Airport

Modified Alternative 1.3

- BRT in a dedicated right-of-way (ROW) in median of West Shore Expressway between SIR Arthur Kill and South Avenue Stations.

- Serves Newark Liberty International Airport and St. George Ferry Terminal:
  - Connects at South Avenue to North Shore BRT
  - Dedicated BRT ROW to Old Place/Western Avenue with continued service in mixed traffic across Goethals Bridge via NJ Turnpike to Newark Liberty International Airport (AirTrain P1 Parking Lot)
West Shore Expressway: Tottenville to Newark Airport

Modified Alternative 1.3

- Phased implementation
- Connects with North Shore BRT
- Serves Newark Liberty International Airport
- Connects to SIR
- Does not preclude LRT
- Does not require zoning changes
- Serves employment centers
Alternative 3.1

- BRT in a dedicated ROW in median of Korean War Veterans Parkway, Richmond Avenue, and Dr. Martin Luther King Jr. Expressway between SIR Arthur Kill and Elm Park Stations.

- BRT in mixed traffic across Bayonne Bridge to connect with Hudson Bergen Light Rail (HBLR) 8th Street Station in Bayonne, NJ.
Korean War Vet Pkwy + Richmond Ave: Tottenville to Bayonne

**Alternative 3.1**

- Phased implementation
- Connects to HBLR
- Connects to SIR
- Does not preclude LRT
- Does not require zoning changes
- Serves residential centers
Recommended Short List Alternatives

• No-Build Alternative

• Transportation Systems Management (TSM) Alternative

• West Shore Expressway: Tottenville to Newark Liberty Int’l Airport & North Shore BRT
  – Modified Alternative 1.3

• Korean War Vet Pkwy + Richmond Ave: Tottenville to Bayonne
  – Alternative 3.1
STUDY SCHEDULE
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- **Public Outreach Event**
- **Key Milestone Event**
QUESTIONS?