Agenda

1. Background
2. Bx6 Select Bus Service Results
3. Proposed Capital Improvements
4. Next Steps
Bx6 Select Bus Service

Launched on September 3, 2017
Implemented Improvements

Bus Lanes

Fare Machines

Boarding Islands

161st Street Bus Only Tunnel (eastbound)
Bx6 Select Bus Service
Results
After launch of SBS, buses moved 11% to 16% faster end-to-end.
Bus speeds spiked at height of pandemic but are trending back to pre-pandemic levels.
Bus Travel Times – 161st St

On 161st Street bus speeds have improved by 33% - 43% eastbound, but less so westbound.
Bus Reliability

Bus reliability has improved with fewer buses arriving late and less bus “bunching”.

Late Buses

<table>
<thead>
<tr>
<th></th>
<th>Eastbound</th>
<th>Westbound</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016 Bx6 Local</td>
<td>22.0%</td>
<td>19.9%</td>
</tr>
<tr>
<td>2017 Bx6 SBS</td>
<td>17.1%</td>
<td>13.8%</td>
</tr>
<tr>
<td>2018 Bx6 SBS</td>
<td>16.2%</td>
<td>17.8%</td>
</tr>
<tr>
<td>2019 Bx6 SBS</td>
<td></td>
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</tbody>
</table>

Peak Period Bus Bunching

<table>
<thead>
<tr>
<th></th>
<th>6-10 AM</th>
<th>3-7 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastbound</td>
<td>22.5%</td>
<td>6.3%</td>
</tr>
<tr>
<td>Westbound</td>
<td>21.9%</td>
<td>6.1%</td>
</tr>
</tbody>
</table>

*Late defined as arriving 5 minutes or more after scheduled arrival time
**Bunching defined as two or more buses heading in the same direction departing a stop within 90 seconds of each other

Source: NYCT Operations Planning
Bus ridership in both the Bronx and along the Bx6 route has been decreasing. However, ridership along the Bx6 corridor is declining at a slower rate than the borough average.

Source: NYCT Operations Planning
Vehicle Travel Times – 161st Street

On average, vehicle travel times increased by 3-5% eastbound and 6-8% westbound immediately after SBS launch.

Increases from 2018 to 2019 may be due to construction or other factors.

Source: INRIX RITIS, October Weekday Data by Year, 161st St from Jerome Ave to 163rd St/Elton Ave

Segment* Location

*Includes service road and mainline.
Proposed Improvements
Sustainability and Resiliency

DDC Application of “Envision” Framework

• Envision is designated for infrastructure similar in the way LEED (Leadership in Energy & Environmental Design from the U.S. Green Building Council) focuses on buildings

• Envision is a rating system providing guidance required to initiate a systematic change in planning, design and delivery of sustainable and resilient infrastructure

• Envision addresses a full range of sustainability: social, environmental, economic and resilience
Heat Vulnerability
Project is in Heat Vulnerability Index 1, 2, and 5

Mitigation / Design Strategies
- Maximize green cover with new trees and interconnected planting zones within areas of the project where there are proposed bus bulbs
- Upgrade an existing triangular median and planted area at Elton Av, Washington Av, and 163rd St
- Make sure existing trees will be preserved in place around the proposed road reconstruction work
161st Street Reconstruction

Full reconstruction of 161st St, River Ave to Park Ave

- Rebuild from road base, curb to curb
- Use DOT standard materials for improved maintenance

Poor roadway condition to be repaired
Capital Improvement Elements

- Pedestrian Islands
- Curb Extensions
- Bus Pads
- Bus Bulbs
E 161st St Bus Tunnel

Add Westbound Bus Tunnel to Complement Eastbound Bus Tunnel

Existing Eastbound Bus Tunnel
(Yankee Stadium to Morris Av)

Proposed Westbound Bus Tunnel
(Morris Av to Yankee Stadium)
E 161st St Bus Tunnel
Add Westbound Bus Tunnel to Compliment Eastbound Bus Tunnel

- Signal timing adjustments to add green time to east/west movements and improve coordination
- New configuration will eliminate merging and create consistent design
E 161<sup>st</sup> St & River Av
Existing
E 161st St & River Av
Proposed
E 161st St & River Av

Proposed

- Add concrete extensions
- Add pedestrian refuges
- Add westbound bus only lanes
- Add concrete extensions
E 161st St & River Av
Proposed

- Remove existing wall / expand planted areas
- Add benches, shelter, leaning bars, and other furniture to create inviting public space on median
E 161<sup>st</sup> St & Sheridan Av

Existing

161<sup>st</sup> St Underpass

Bronx Family Court

Bronx Criminal Court

161<sup>st</sup> St

Twin Donut
E 161st St & Sheridan Av

Proposed

161st St Underpass
E 161st St & Sheridan Av

Proposed

- Convert westbound tunnel to bus only
- Add curb extension
- Add curb extensions
- Add pedestrian refuges
E 161st St & Sherman Av

Existing
E 161st St & Sherman Av

Proposed
E 161st St & Sherman Av
Proposed

- Add curb extensions
- Extend westbound bus lane
E 161st St & Melrose Av

Proposed
E 161st St & Melrose Av

Proposed

- Add bus bulb
- Normalize westbound lane configuration

- Bx6 SBS
- Bx6 / Bx13

- 161st St
- BP gas station
- 2020 Deli Convenience
- Krazy Dollar

- Add bus bulb
Proposed Improvements: 163rd Street
E 163rd St & Elton Av
Proposed

Bx6 / Bx13

163rd St

Boricua Village

Bronx Commons

Washington Av

Elton Av
E 163rd St & Elton Av
Proposed

- Paint bus lane
- Expand/reconfigure island
- Build out painted space
- Re-align traffic lanes
163rd St & Prospect Av

Proposed

- Bx6 SBS
- Bx6 local
- Bx6 SBS / local
- Sherman Wines & Liquors
- Amor Bakery
- Maria Food African Market
- Beauty Salon

[Map of 163rd St & Prospect Av with proposed bus routes and nearby businesses]
163rd St & Prospect Av

Proposed

- Bx6 SBS
- Bx6 local
- add bus bulb
- add curb extensions
- add bus bulb
Next Steps

- **Spring 2022**: Present to Additional Community Boards
  - 5/2: Manhattan CB 12 Transportation Committee
  - 5/5: Manhattan CB 9 Transportation Committee
  - 5/10: Manhattan CB 10 Transportation Committee
  - 5/11: Bronx CB 2 Economic Development Committee
  - 5/12: Bronx CB 4 Municipal Services Committee
  - 5/16: Bronx CB 3 Housing, Land Use, Economic Development Committee

- **Winter/Spring 2023**: Finalize Design

- **Summer/Fall 2023**: Procurement

- **Winter/Spring 2024**: Construction Start
Thank You!

Questions?