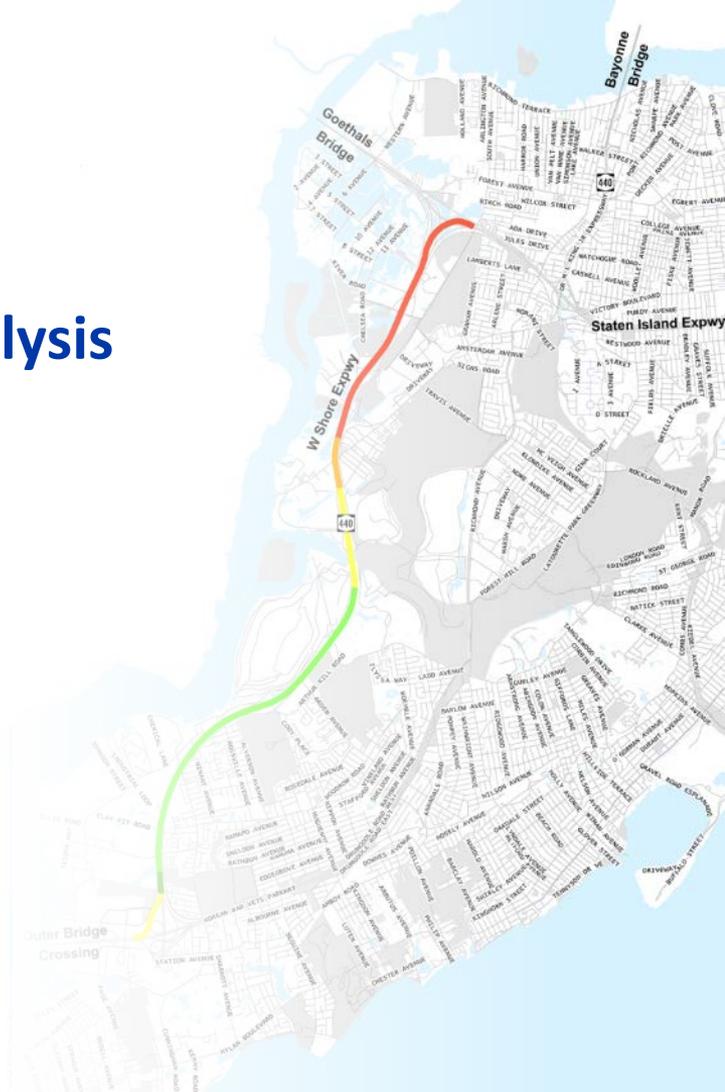




Staten Island West Shore Alternatives Analysis

Public Open House

September 25, 2019

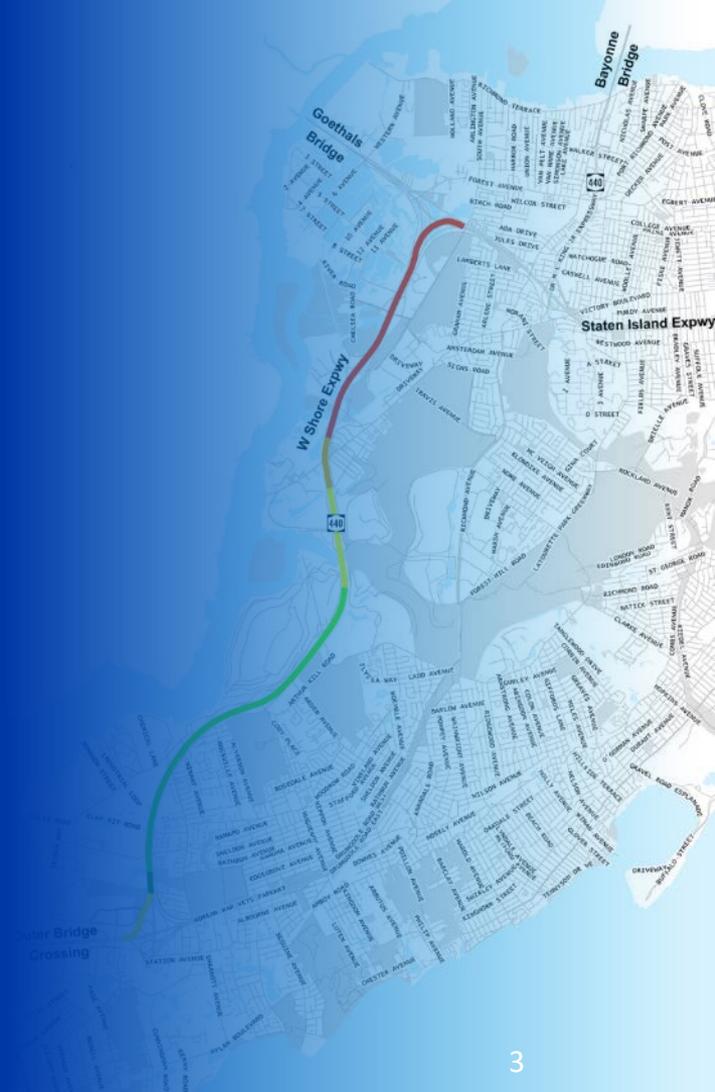


Agenda

- Introductions and Overview
 - Study Team
 - Study Process
- West Shore Transit Needs
- Alternatives Considered
 - Study Goals
 - Long List
- Community Engagement
- Next Steps



INTRODUCTIONS & OVERVIEW



Study Team

- MTA NYCT
 - Eric Bohn, Project Manager
 - David Leyzerovsky, Deputy PM
 - Melissa Farley, Government/Community Relations
- AECOM Team
 - Ruby Siegel, Project Manager
 - Joe Sperrazza, Deputy PM
 - Maura Fitzpatrick, Outreach Coordinator

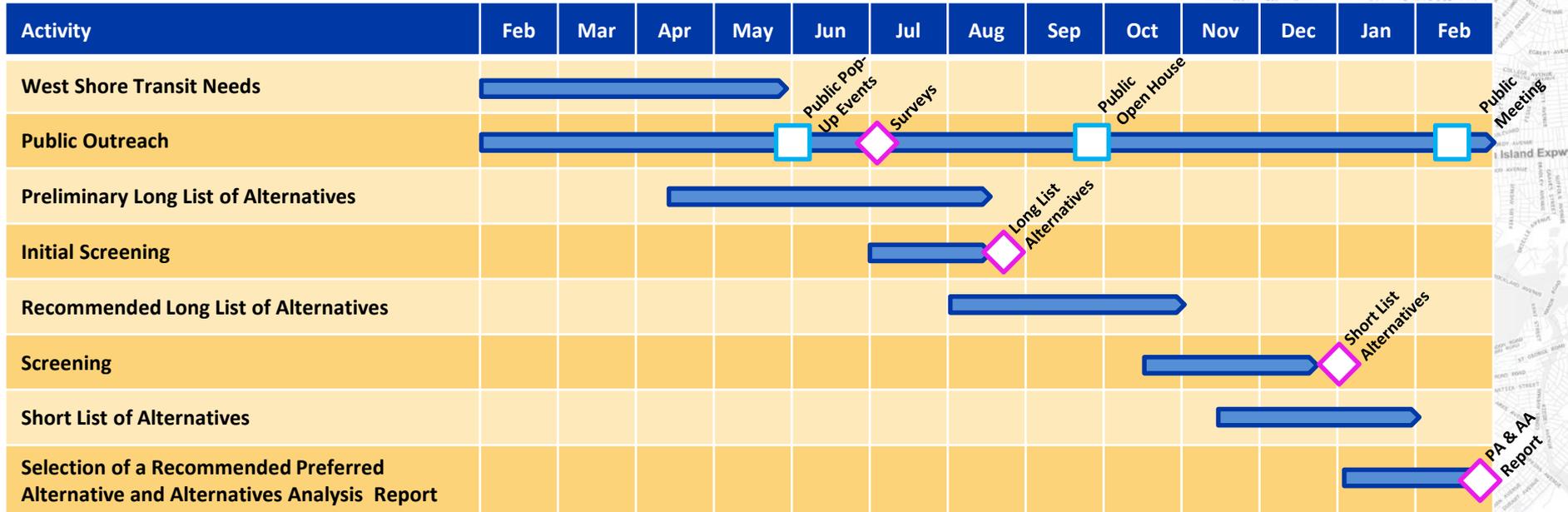


Study Process

- Build on prior studies
- Perform credible and transparent evaluation of alternatives
- Conduct extensive customer surveys to understand transit needs
 - 3,600 bus intercept surveys
 - 700 Employer/University on-line surveys
- Brief West Shore elected officials
- Engage with SIEDC and other stakeholders and interested public
- Recommend near and longer-term Preferred Alternative(s)



Study Status



 Public Outreach Event

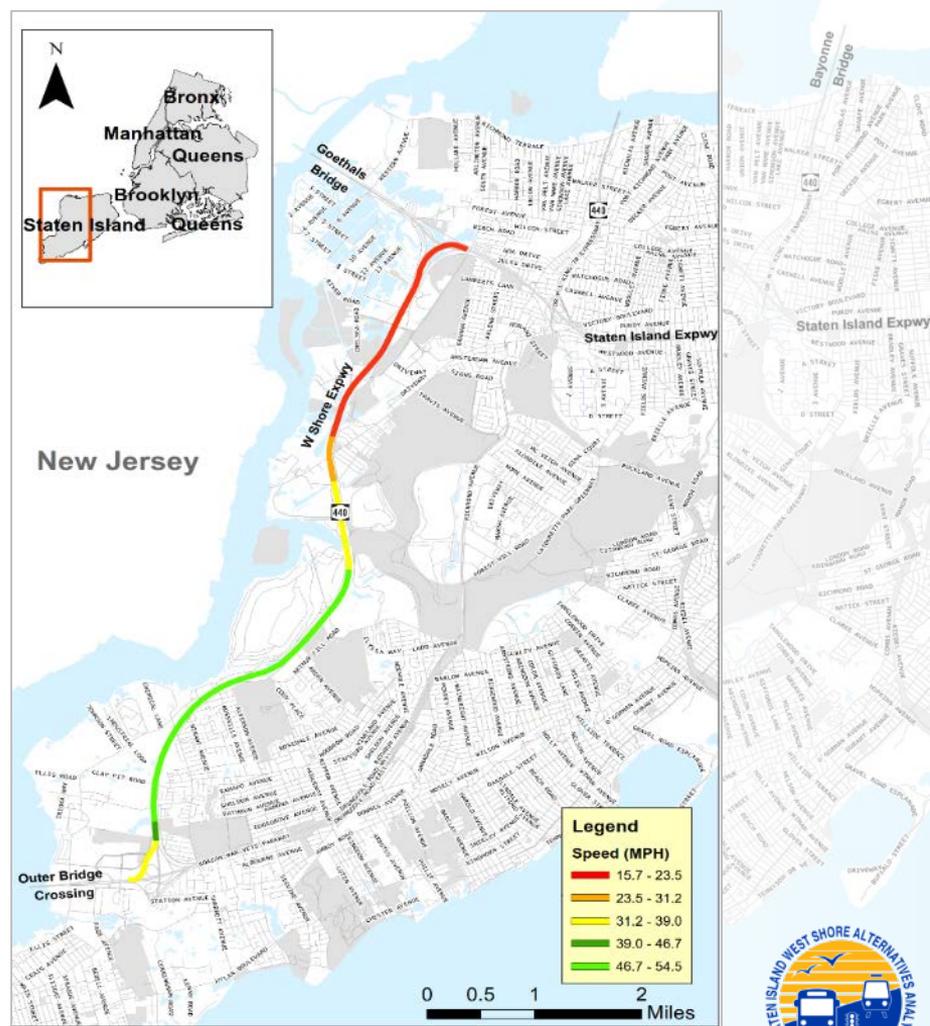
 Key Milestone Event

WEST SHORE TRANSIT NEEDS



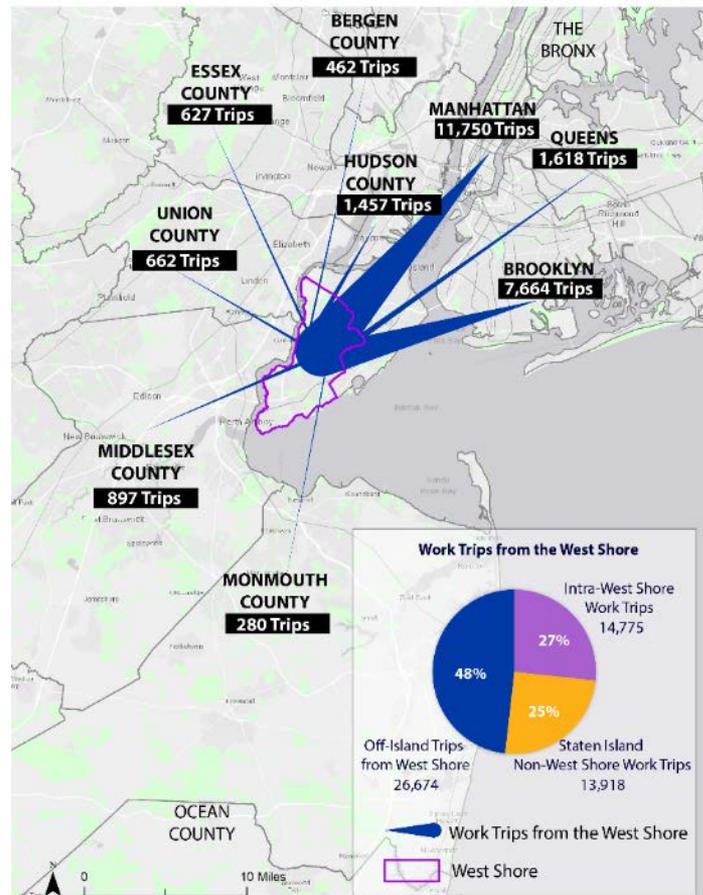
More Efficient and Reliable Commutes for West Shore Residents

- Most West Shore residents commute to work by auto on congested roadways
- Bus commuters similarly travel on congested roadways



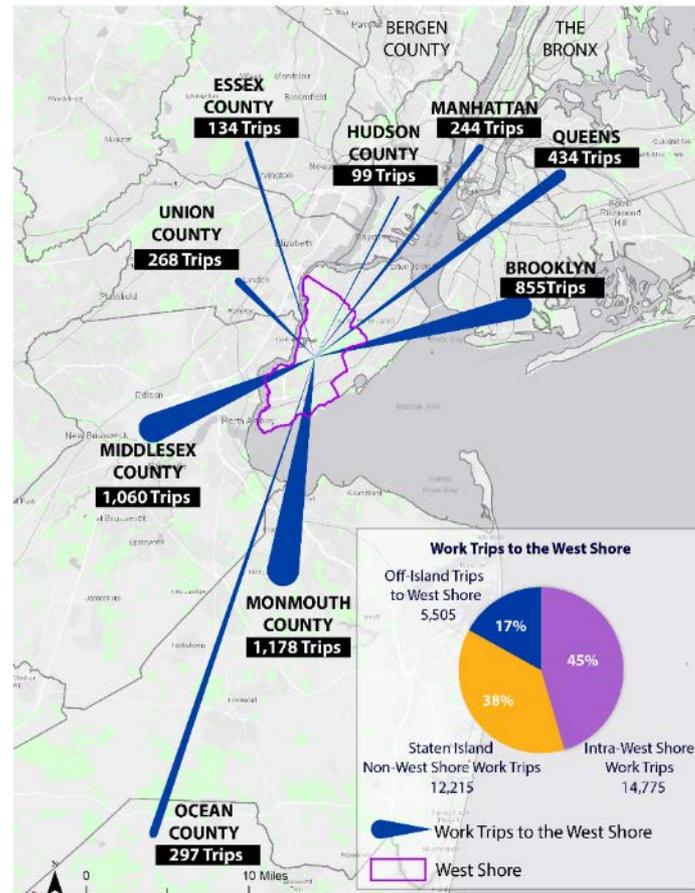
More Efficient and Reliable Commutes for West Shore Residents

- Over half of the work trips are within Staten Island
- Work Trips from West Shore:
 - 27% Intra-West Shore
 - 25% Staten Island Non-West Shore
 - 48% Off-island from West Shore



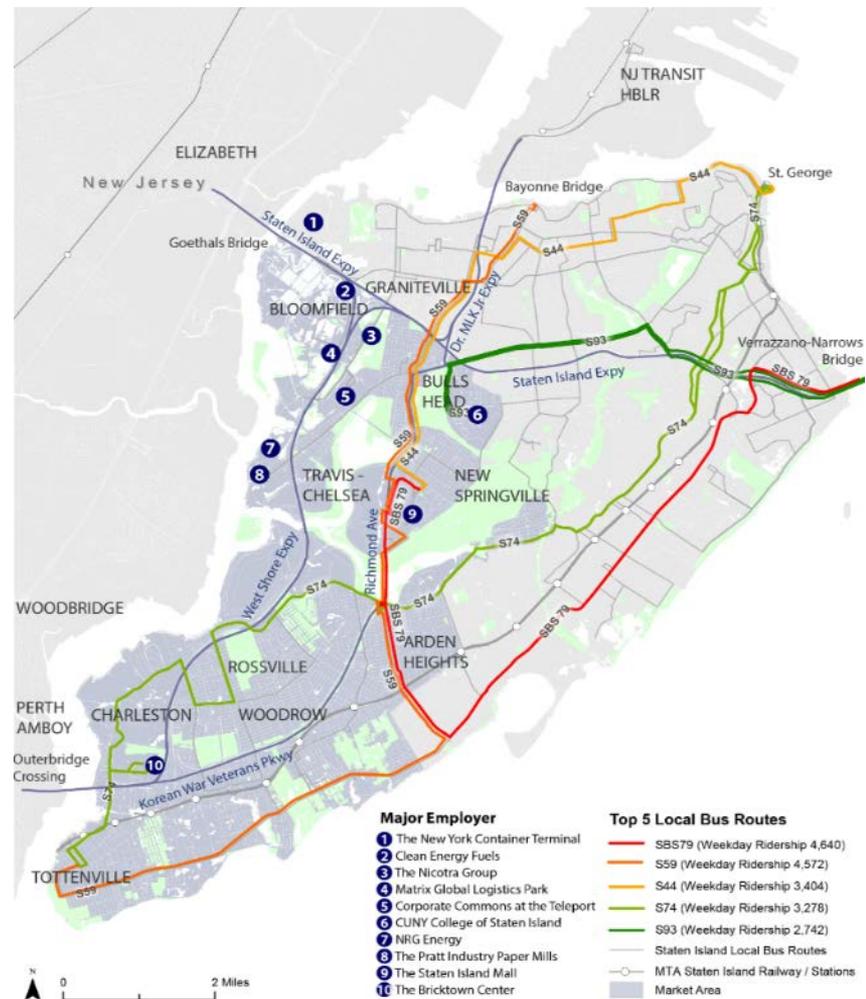
Better Transit Connections to Jobs in the West Shore

- Limited bus network connectivity to West Shore employment centers for West Shore residents as well as intra-Staten Island or off-island residents
- Work Trips to West Shore:
 - 45% Intra-West Shore
 - 38% Staten Island Non-West Shore
 - 17% Off-island to West Shore

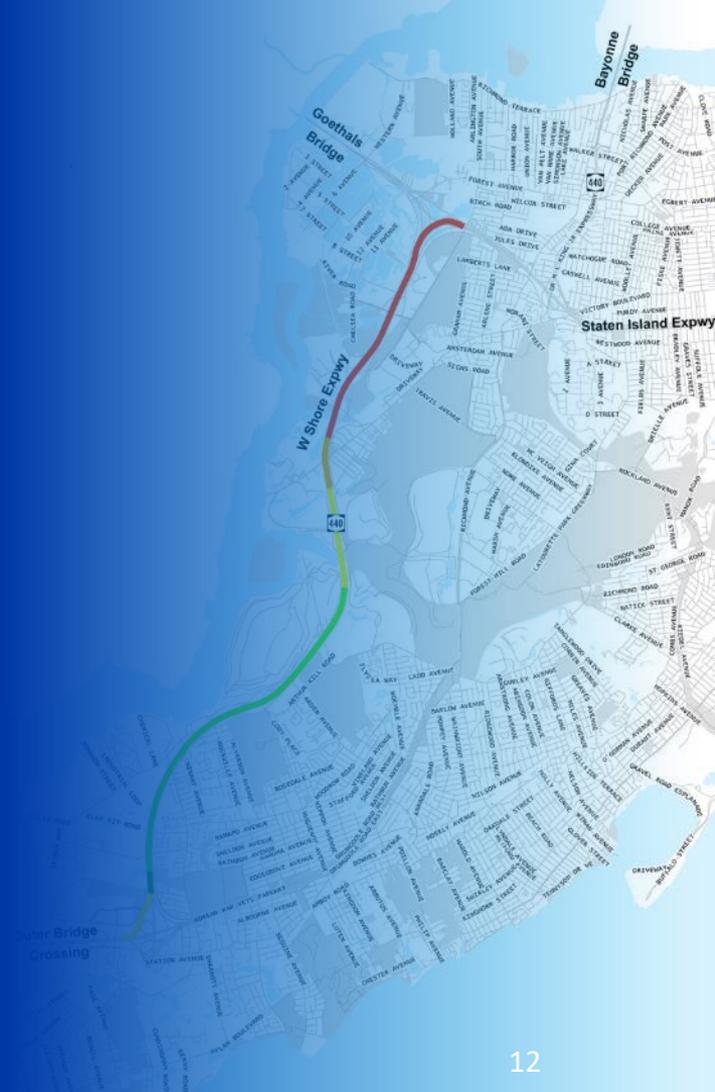


Improve Transit Connections to Support West Shore Employment Growth

- Provide transit options to employment clusters
- Improve east-west connectivity to/within the West Shore



ALTERNATIVES CONSIDERED



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

Corridors Considered

- Three north-south Corridors considered, each with multiple options:
 - West Shore Expressway
 - West Shore Expressway + Victory Boulevard
 - Korean War Veterans Parkway + Richmond Ave

Modes Considered

Heavy Rail Transit (HRT)

- High capacity
- Exclusive right-of-way
- Ex: Staten Island Railway

Bus Rapid Transit (BRT)

- Dedicated busways
- Intersection priorities
- Ex: CTfastrak

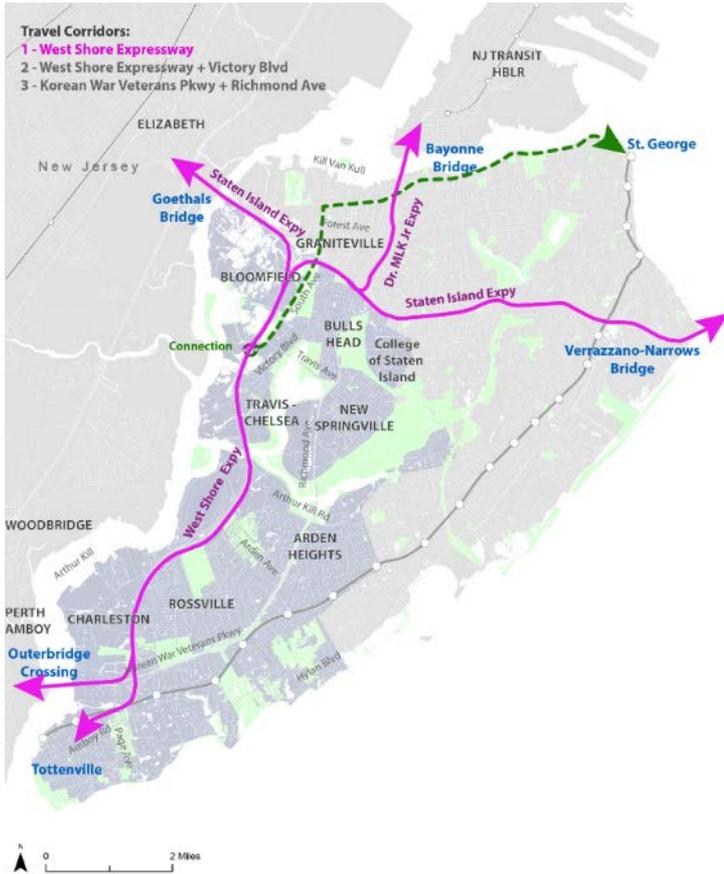
Light Rail Transit (LRT)

- Short trains
- Exclusive or shared rights-of-way
- Ex: Hudson-Bergen Light Rail

Select Bus Service (SBS)

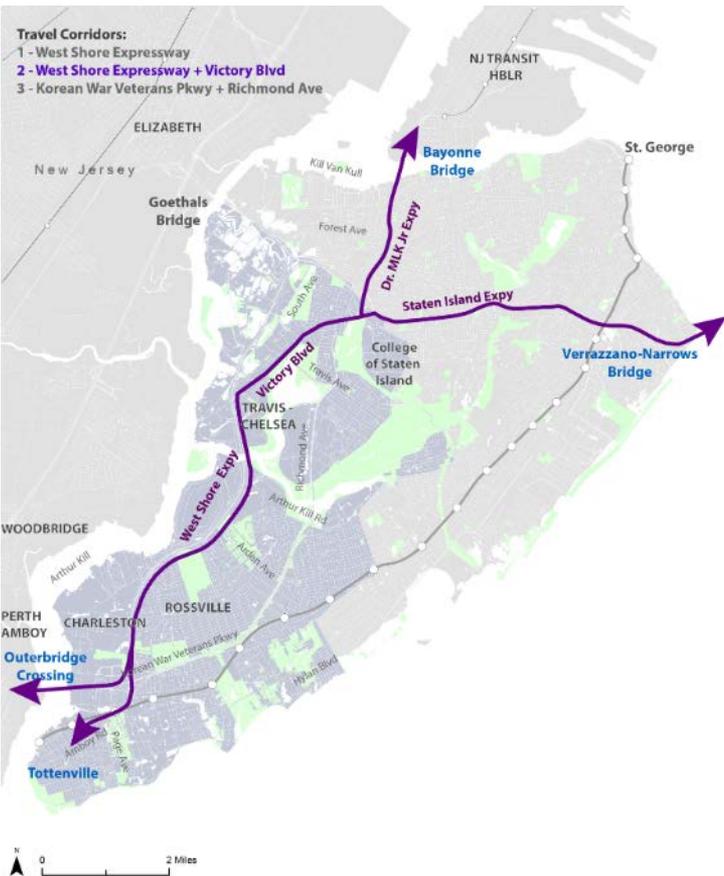
- NYC-based
- Enforced bus lanes
- Ex: M15 SBS

West Shore Expressway



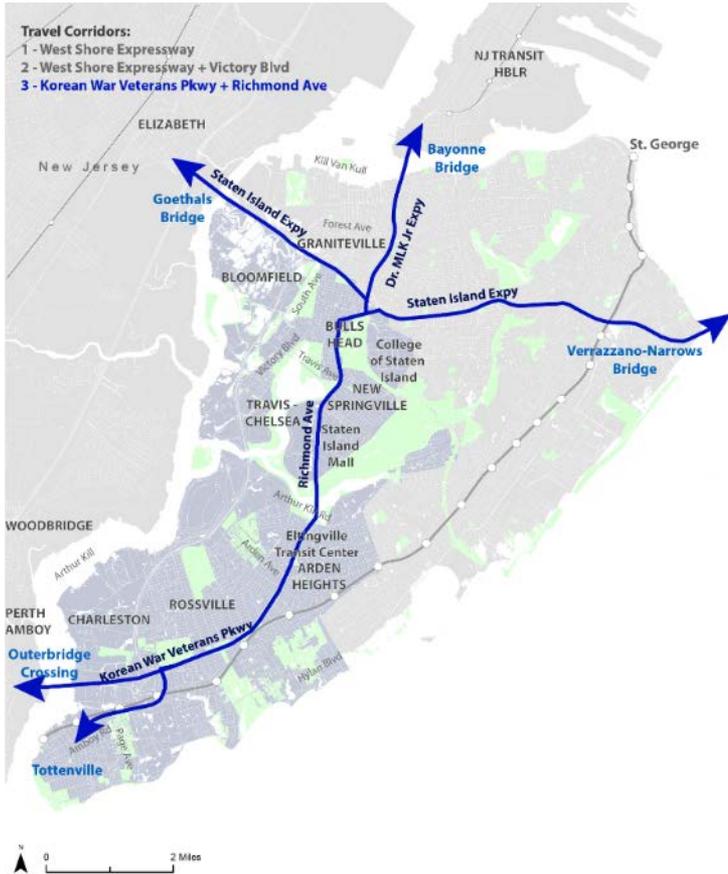
Option	Description
1.1	8 th Street HBLR (NJ) via Bayonne Bridge to Tottenville
1.2	8 th Street HBLR (NJ) via Bayonne Bridge to Metropark, NJ via Outerbridge Crossing
1.3	Elizabeth, NJ via Goethals Bridge to Tottenville
1.4	Elizabeth, NJ via Goethals Bridge to Metropark, NJ via Outerbridge Crossing
1.5	Manhattan via Verrazzano-Narrows Bridge to Tottenville
1.6	Manhattan via Verrazzano-Narrows Bridge to Metropark, NJ via Outerbridge Crossing
1.7	St. George (connection via North Shore BRT) to Tottenville
1.8	St. George (connection via North Shore BRT) to Metropark, NJ via Outerbridge Crossing

West Shore Expressway + Victory Boulevard



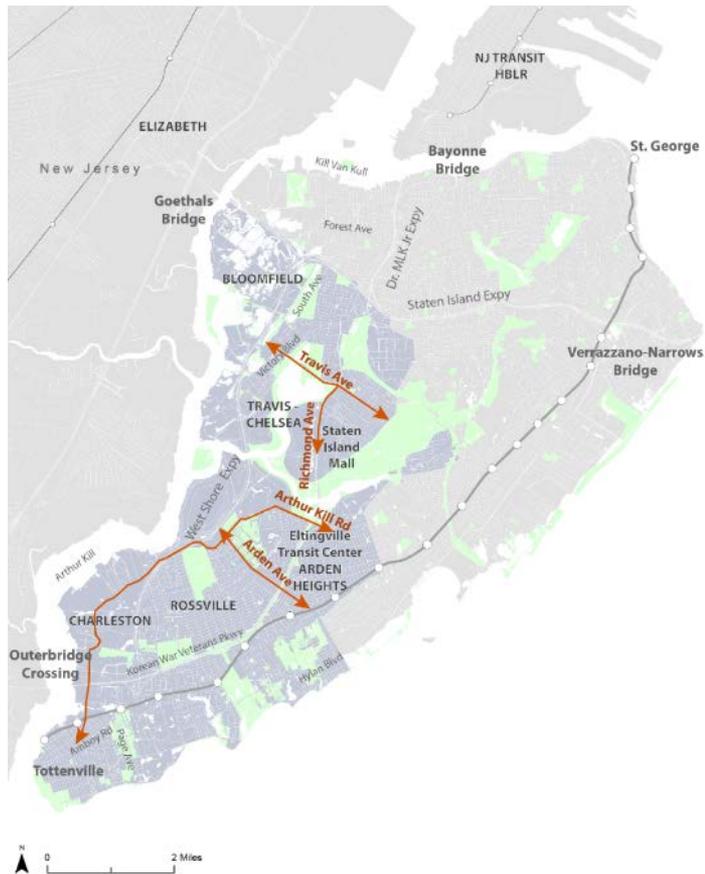
Option	Description
2.1	8 th Street HBLR (NJ) via Bayonne Bridge to Tottenville
2.2	8 th Street HBLR (NJ) via Bayonne Bridge to Metropark, NJ via Outerbridge Crossing
2.3	Manhattan via Verrazzano-Narrows Bridge to Tottenville
2.4	Manhattan via Verrazzano-Narrows Bridge to Metropark, NJ via Outerbridge Crossing

Korean War Veterans Parkway + Richmond Avenue

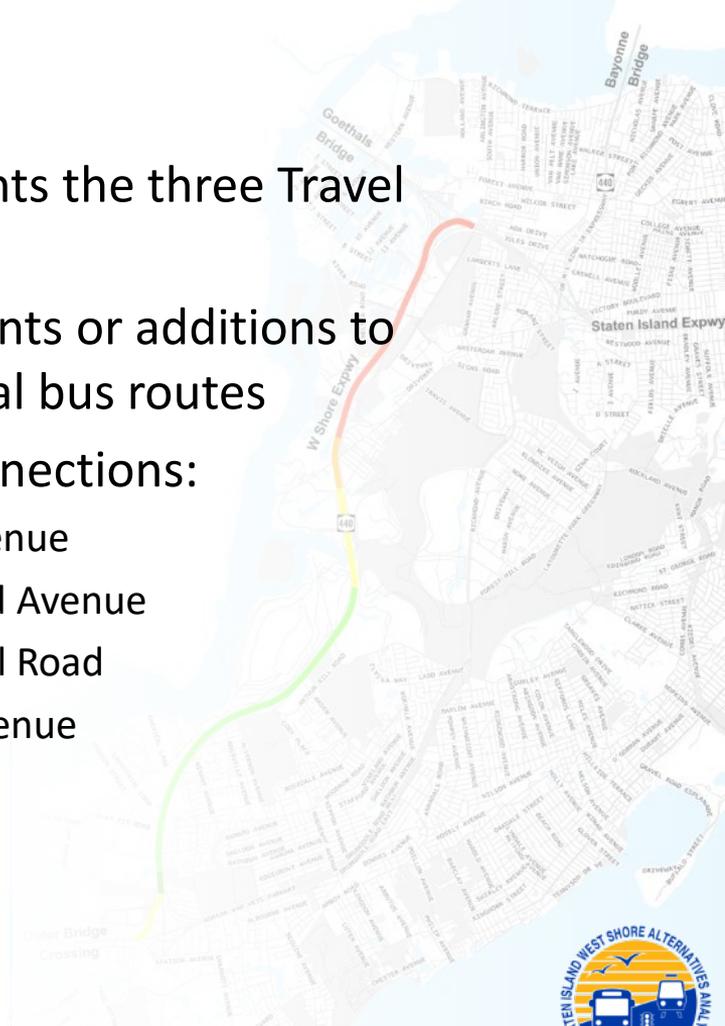


Option	Description
3.1	8 th Street HBLR (NJ) via Bayonne Bridge to Tottenville
3.2	8 th Street HBLR (NJ) via Bayonne Bridge to Metropark, NJ via Outerbridge Crossing
3.3	Elizabeth, NJ via Goethals Bridge to Tottenville
3.4	Elizabeth, NJ via Goethals Bridge to Metropark, NJ via Outerbridge Crossing
3.5	Manhattan via Verrazzano-Narrows Bridge to Tottenville
3.6	Manhattan via Verrazzano-Narrows Bridge to Metropark, NJ via Outerbridge Crossing

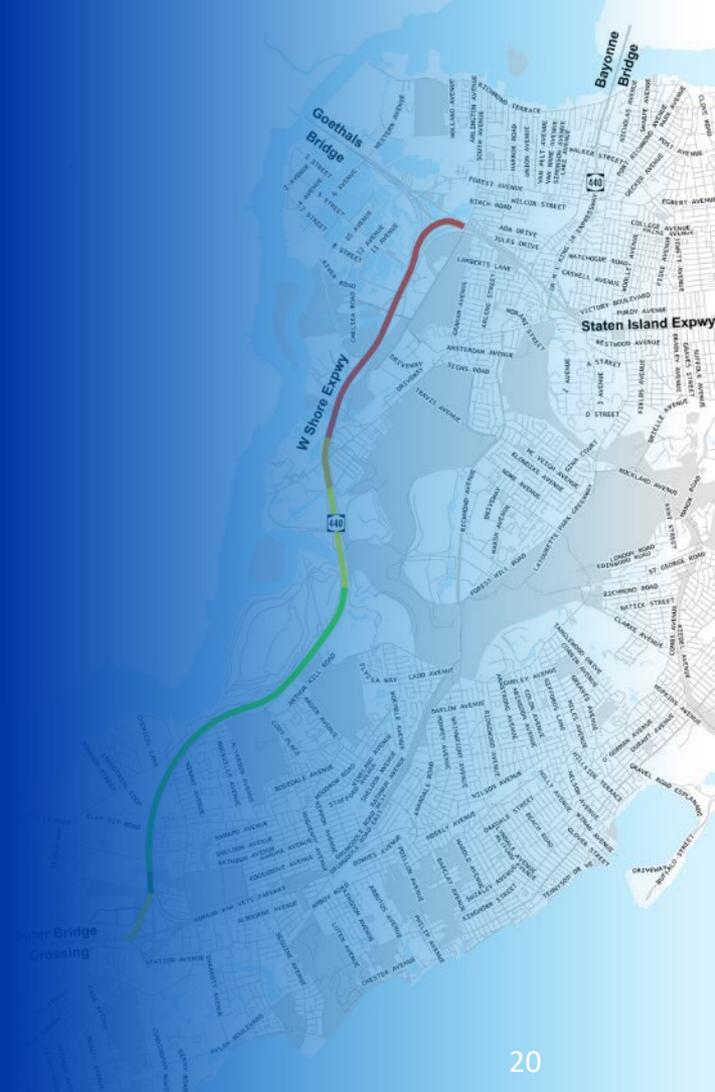
Complementary East-West Connections



- Complements the three Travel Corridors
- Improvements or additions to existing local bus routes
- Sample connections:
 - Travis Avenue
 - Richmond Avenue
 - Arthur Kill Road
 - Arden Avenue



RECOMMENDED LONG LIST OF ALTERNATIVES



Initial Screening Factors

Complexity of Implementation

Does the Preliminary Long List Alternative include two off-island crossings?

Availability of Right-of-Way

Is the Preliminary Long List Alternative limited or constrained by the availability of right-of-way along the Travel Corridor?

Mode Screening Factors

- Physical or operating constraints?
- Good fit with connecting services?
- Complementary to existing services?



HRT Staten Island Railway



LRT Hudson-Bergen Light Rail



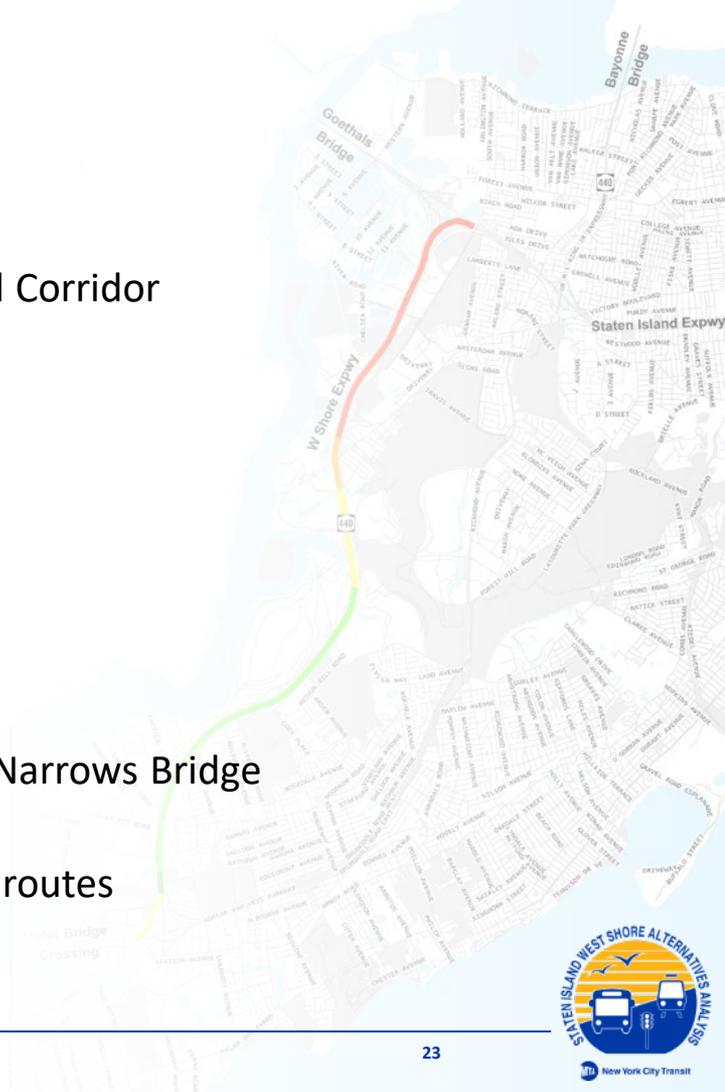
BRT CTfastrak



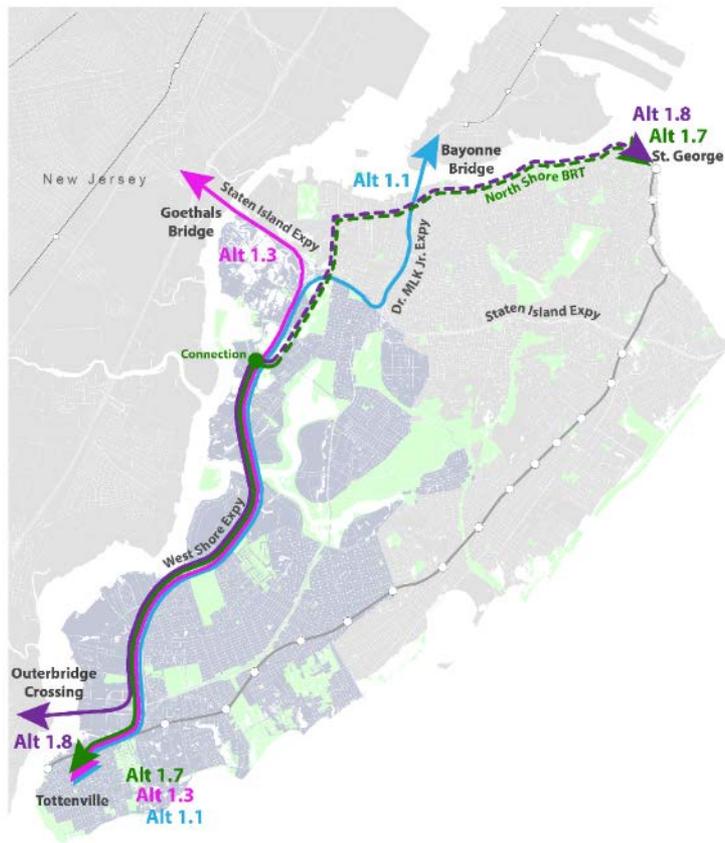
SBS M15 SBS

Initial Screening Results

- Right-of-Way Constraints
 - Eliminated West Shore Expressway/Victory Boulevard Corridor
- Complexity of Implementation
 - Eliminated routes with two off-island crossings
- Mode Screening
 - HRT dropped for Richmond Avenue routes
 - HRT and LRT dropped for St. George and Verrazzano-Narrows Bridge routes
 - SBS and BRT dropped for Verrazzano-Narrows Bridge routes



West Shore Expressway Recommended Alternatives



Route	#	HRT	LRT	BRT	SBS
Bayonne Bridge To Tottenville	1.1	✓	✓	✓	✓
Goethals Bridge To Tottenville	1.3	✓	✓	✓	✓
St. George to Tottenville	1.7			✓	✓
St. George to Outerbridge Crossing	1.8			✓	✓

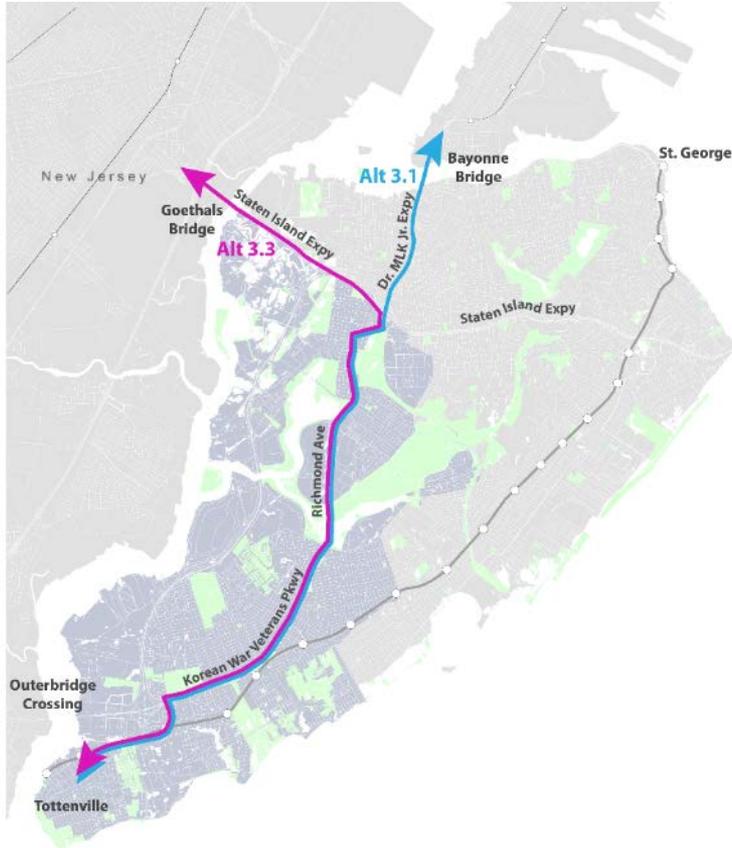
HRT Heavy Rail Transit

LRT Light Rail Transit

BRT Bus Rapid Transit

SBS Select Bus Service

Korean War Vet Pkwy + Richmond Ave Recommended Alternatives

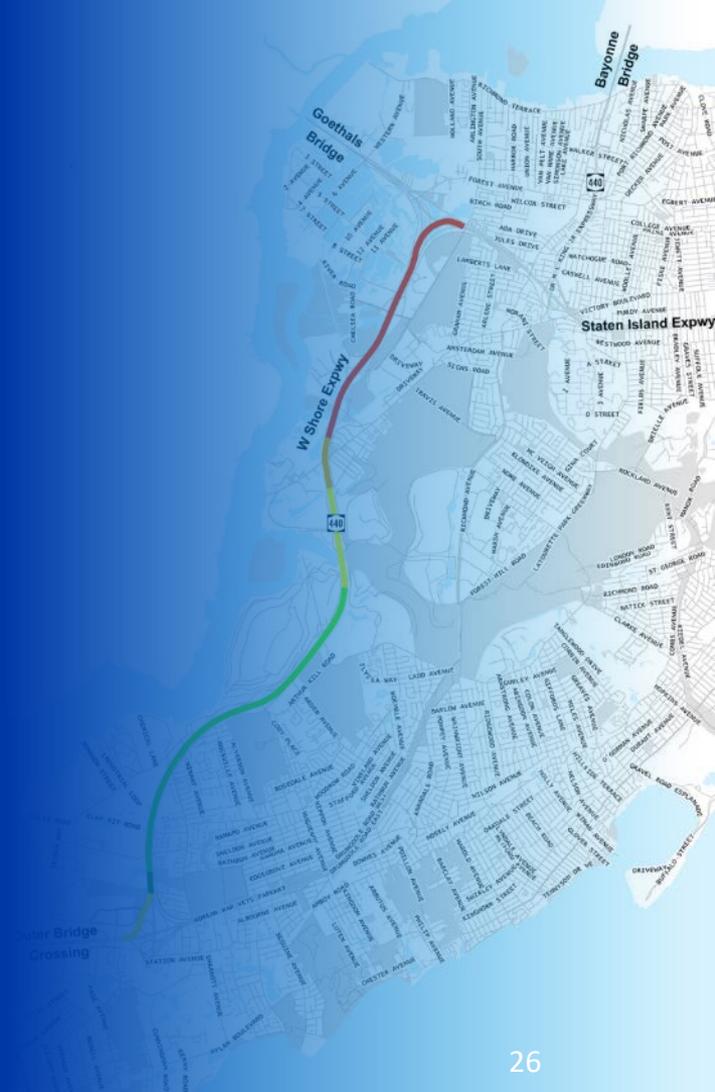


Route	#	HRT	LRT	BRT	SBS
Bayonne Bridge To Tottenville	3.1		✓	✓	✓
Goethals Bridge To Tottenville	3.3		✓	✓	✓

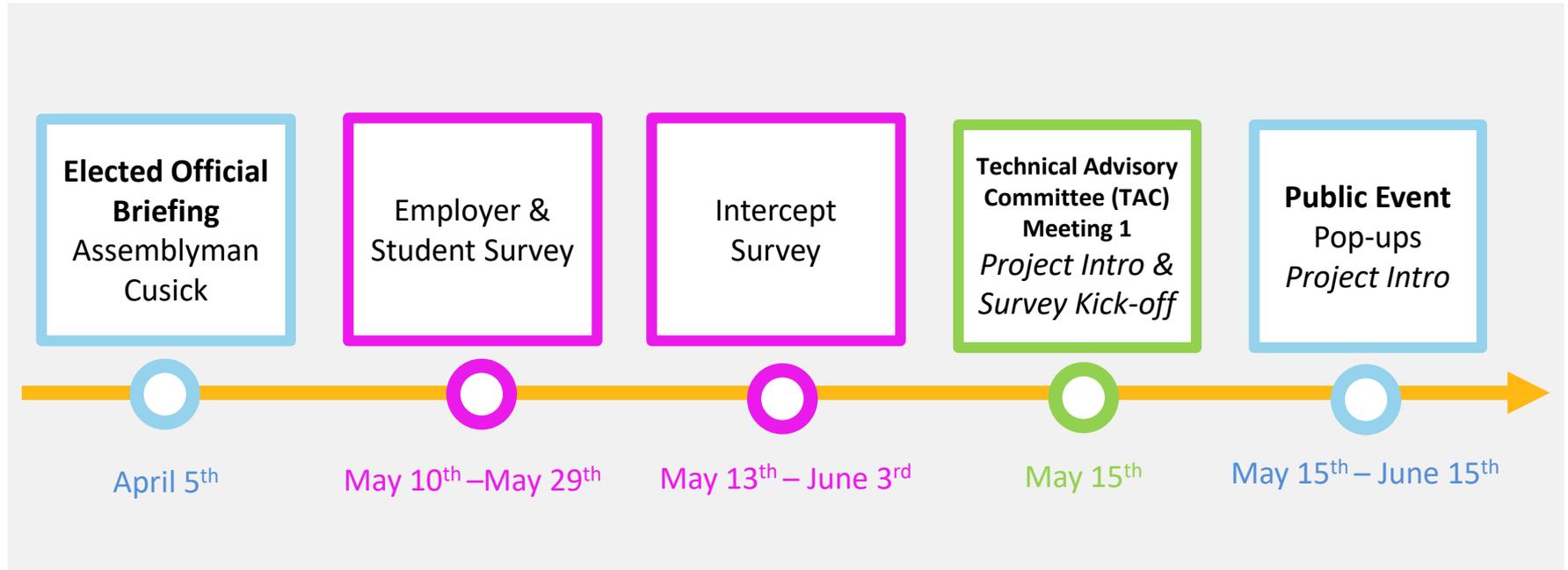
HRT Heavy Rail Transit
LRT Light Rail Transit
BRT Bus Rapid Transit
SBS Select Bus Service



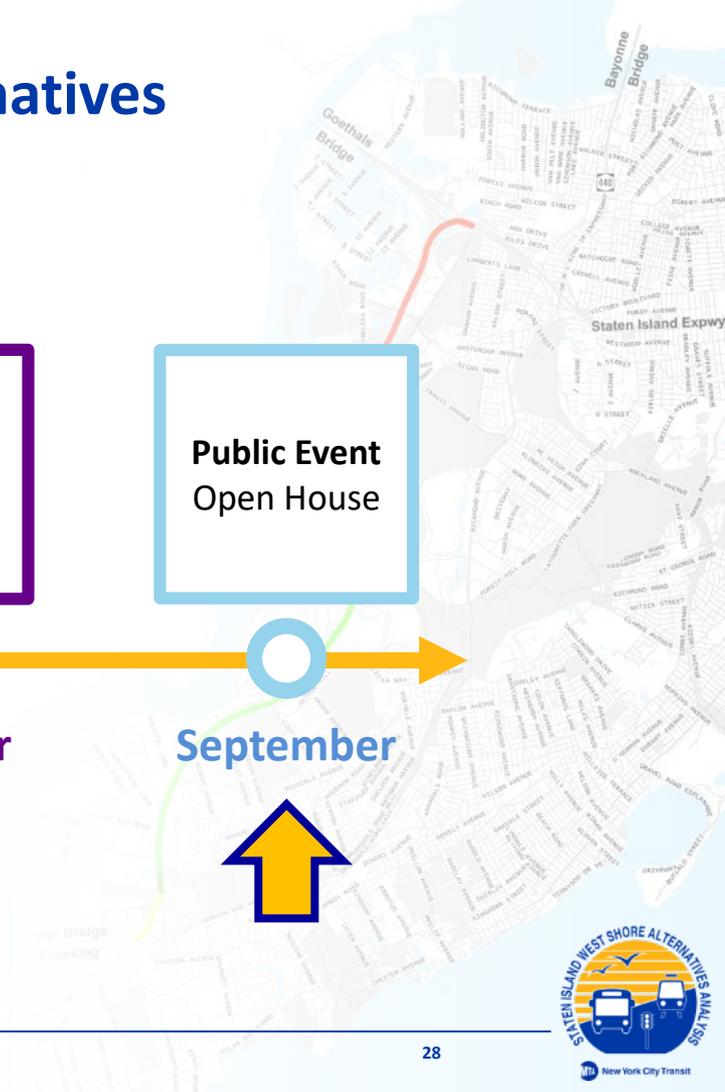
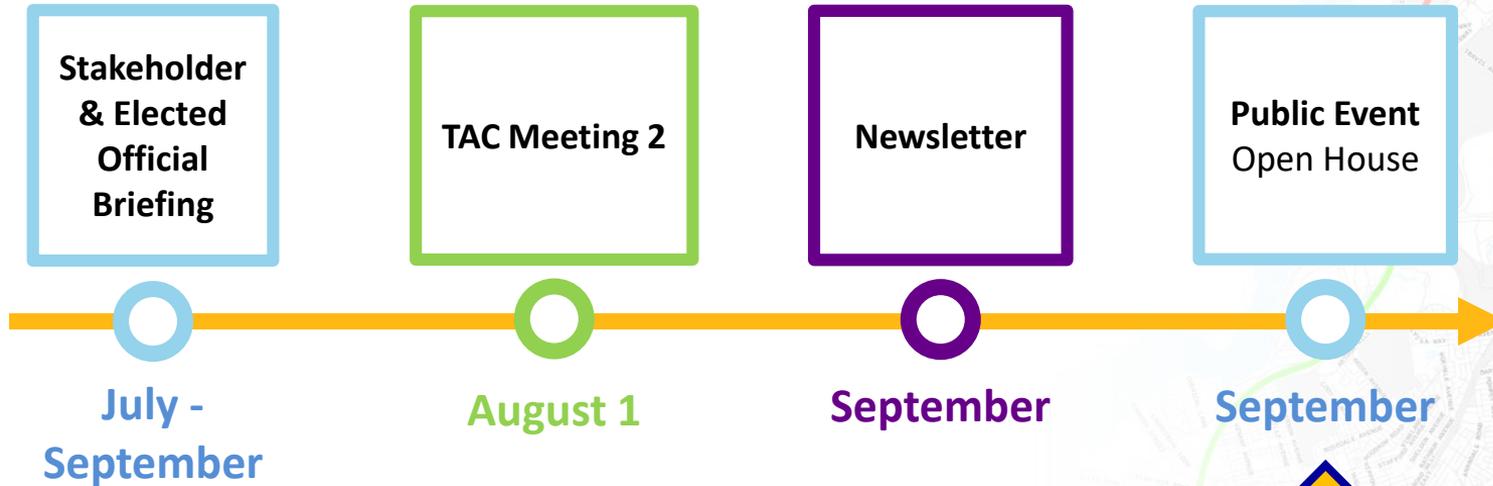
STAKEHOLDER/ COMMUNITY ENGAGEMENT



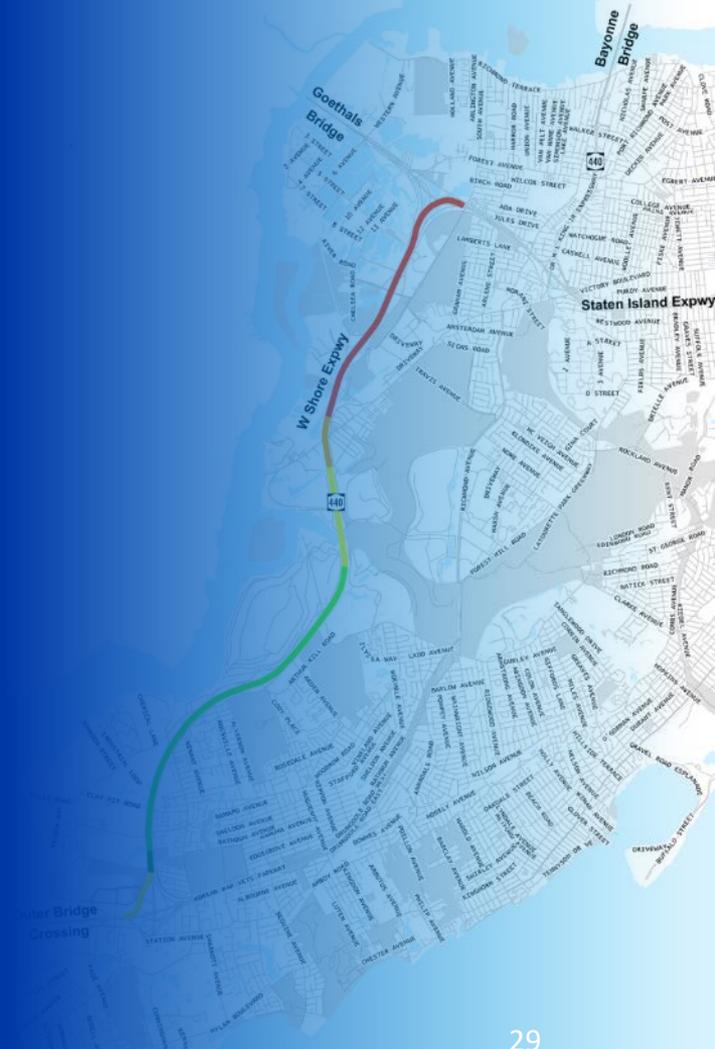
Initial Outreach Milestones



Outreach Milestones – Long List of Alternatives



NEXT STEPS



Next Steps



QUESTIONS?

