

Community Bicycle Network Development Process

Planning

2015



- 1. Community Outreach and Engagement
 - 2. Data Collection and Evaluation
- Street Network Limitations and Opportunities
 - 4. Potential Routes and Facility Type

Implementation

2016

- Seek Community Board support for Phase I projects
- Implement Phase I projects
- Steering Committee evaluation and input for Phase II

2017

- Seek Community Board support for Phase II projects
- Implement Phase II projects
- Steering Committee evaluation and input on full network



Community Planning Process



1 Outreach and Engagement

2014

- **AUGUST**
 - Online Survey Launch
- NOVEMBER
 - **Kickoff Meeting**

2015

- **FEBRUARY**
- First Community Workshop
- MARCH & APRIL
 - **Bike Shop Visits**
- APRIL
- Mobile Workshop at Eco-Station Earth Day Event

2015 (cont.)

APRIL

Public Surveying at Myrtle-Wyckoff M/L Stop

MAY

Public Surveying at Jefferson L Stop Visits to Schwinn Clubs & Bike Shops Second Community Workshop

JUNE

Mobile Workshop at Shape Up Bushwick Mobile Workshop at Arts In Bushwick Online Survey close out (6/30)

AUGUST

Bike Lanes Lesson at El Puente Tabling at Maritza Davila Parade

1 Outreach and Engagement









Myrtle-Wyckoff L/M Stop Surveys

Jefferson L Stop Surveys



Bushwick Bike Shop



Borinquen Schwinn Club



Bravo Bike Shop

Outreach and Engagement



2015 Steering Committee Meeting



2015 Shape Up Bushwick



February 2015 Workshop



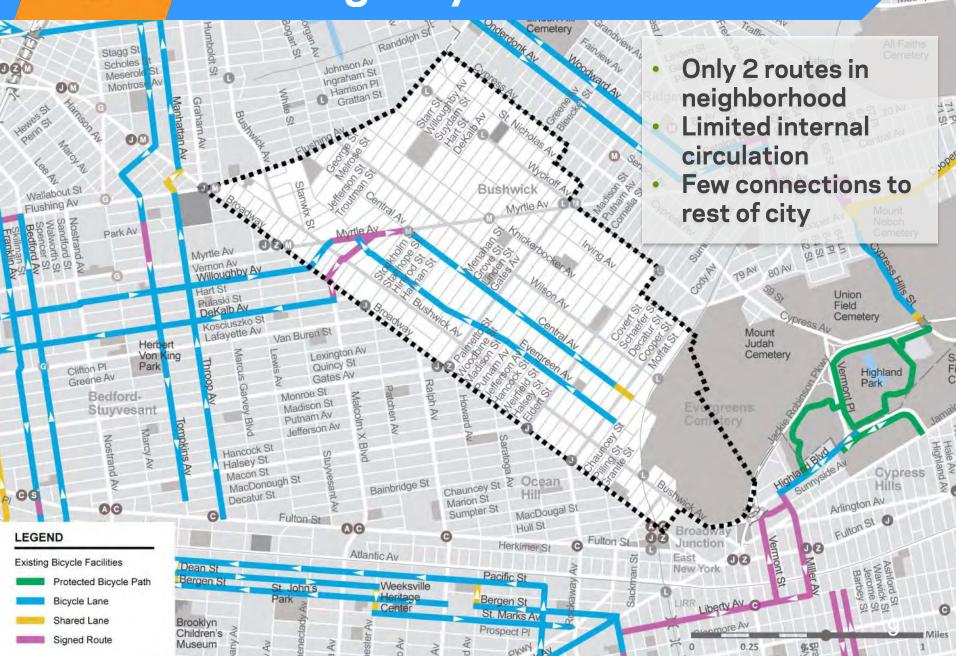
April 2015 Mobile Workshop



2

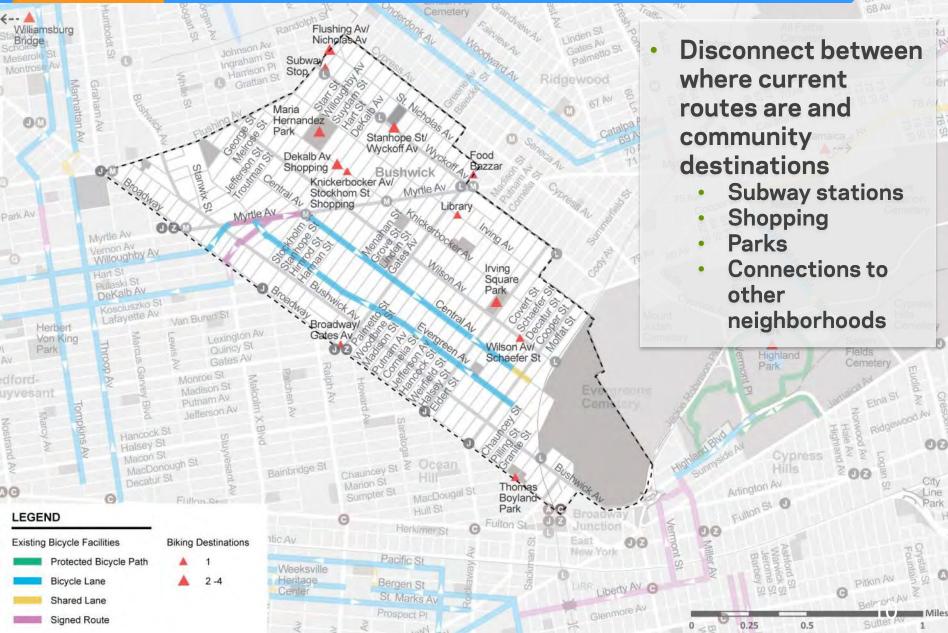
Existing Bicycle Network

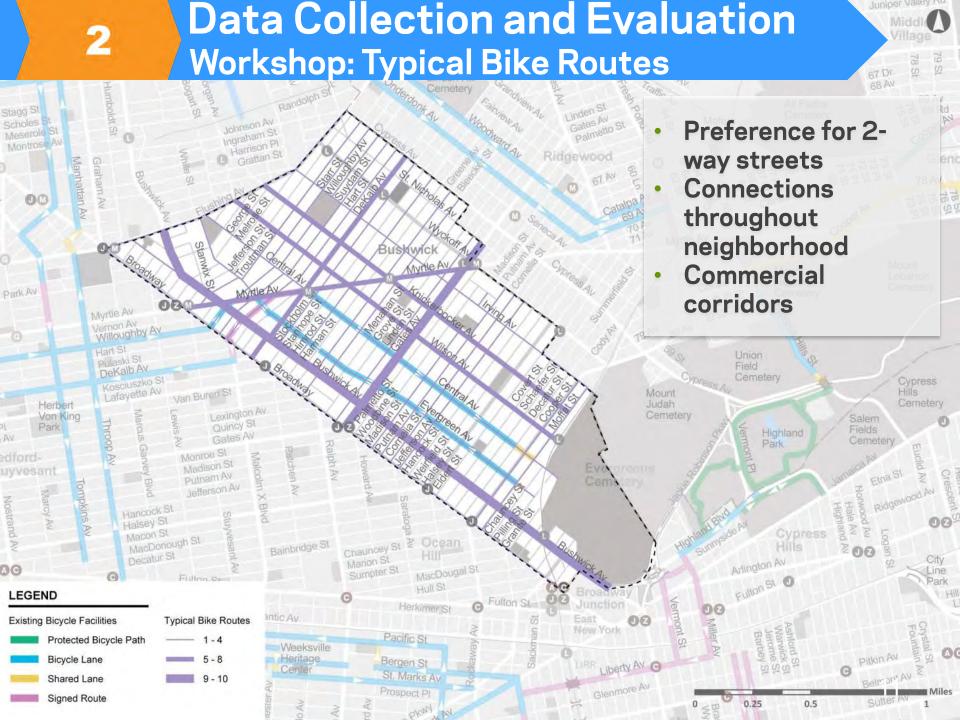




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Data Collection and Evaluation Workshop: Top Destinations



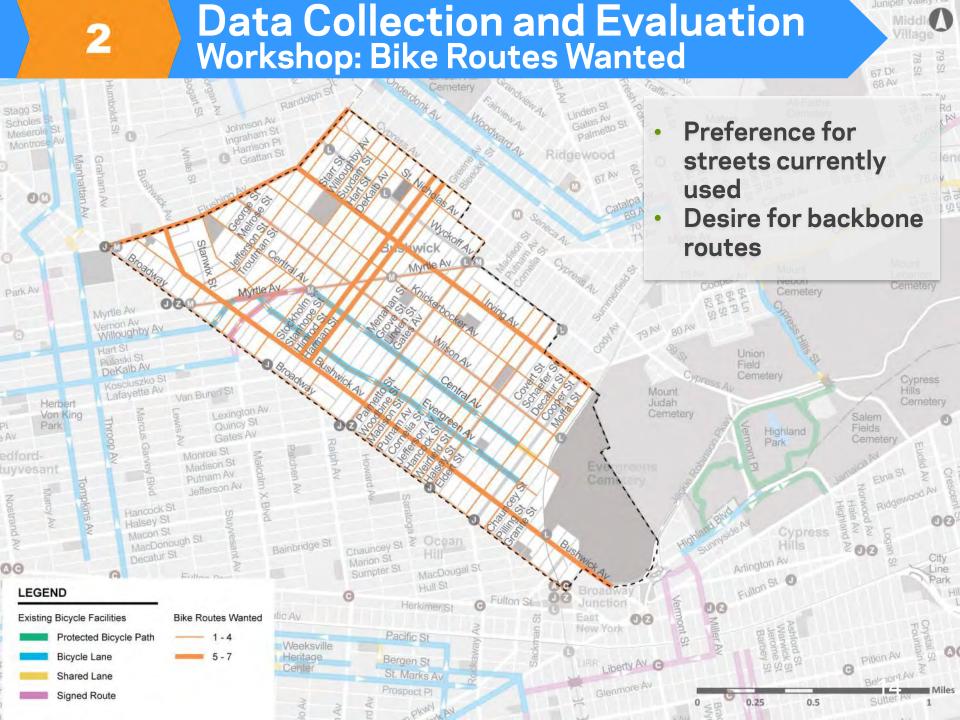


Data Collection and Evaluation Workshop: Streets Not Good for Biking People take routes despite not feeling comfortable **Shows importance** of connectivity Von King Highland LEGEND **Existing Bicycle Facilities** Streets Not Good for Biking Pacific St Protected Bicycle Path Bicycle Lane Liberty AV G Shared Lane

Signed Route

Glenmore Av

Data Collection and Evaluation Workshop: Problem Areas **Difficult Crossing** Some streets are barriers People want an easy Myrtle Ave is Difficult way to cross streets Bushwick Broadway and Bushwick Don't Line Up Von King Highland Difficult Crossing **LEGEND** Existing Bicycle Facilities **Network Limitations** Pacific St Protected Bicycle Path Bicycle Lane Bergen St Liberty AV C Shared Lane Glenmore Av Signed Route



Data Collection and Evaluation Survey: Bike Routes Wanted





- High preference for east/west commercial corridors that serve entire neighborhood
- No strong preference for specific north/south routes shows that we can prioritize geometry and connectivity

LEGEND

Von King



Shared Lane Signed Route

Top Ten Streets That Would Benefit from Bicycle Routes 1 - 100101 - 200

201 - 312

Pacific St Bergen St

Liberty AV G Glenmore Av

Street Network and Facility Type



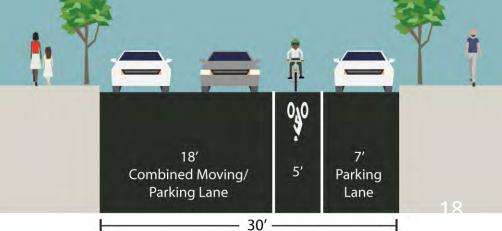
Bushwick Street Types: 1-Way Residential The bulk of Bushwick's north/south streets are 1-way residential Typically 30' wide Low traffic volumes

17

3 Street Design: 1-Way Dedicated Bicycle Lanes



DEDICATED LANE
30' Minimum Width



Bushwick Street Types: 1-Way Mixed Use

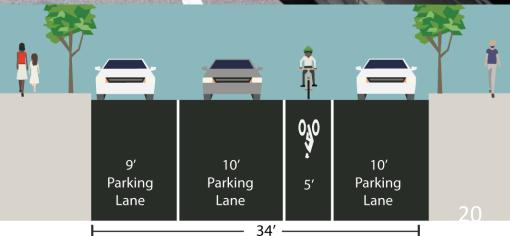


3 Street Design: 1-Way Dedicated Bicycle Lanes



- Bushwick's 1-Way
 Mixed Use Streets
 can fit:
 - Space for cyclists
 - Narrows travel lane to calm traffic
 - No parking impact
 - Cyclists kept out of door zone

DEDICATED LANE Width - 34'



Bushwick Street Types: 2-Way Mixed Use



- Remainder of Bushwick Streets
- **Examples:**
 - Myrtle Ave
 - Broadway
 - Wilson Ave
 - Wyckoff Ave
 - Gates Ave
 - DeKalb Ave
 - Bushwick Ave
 - Flushing Ave
- 34-44' width is too narrow for bicycle lanes on two-way without significant changes
- Complicated geometries
- Higher traffic volumes

3 Street Design: 2-Way Shared Lanes



- Only option for lowimpact facility in narrow space
 - No parking impact
 - No travel lane impact
- No dedicated space for cyclists
- Not ideal for high volume streets
- Many of these streets parallel a 1way pair that would be a better alternative

SHARED LANE Width - 42'

8′ Shared Lane

13' Shared Lane

8' Parking Lane

22

3 Project Implementation



- Low-Impact:
 - Little or no parking loss
 - No travel lane loss
- Standard design
- Quick buildout
- Low cost

Anticipated installation Summer of 2016



- Higher-Impact:
 - Potential parking loss
 - Potential travel lane loss
- More complex design
- Robust traffic modeling
- Potentially higher-cost

Continue to work with community to evaluate potential long-term opportunities



4 Potential Routes: Considerations



Connectivity

- "Key destinations"
- "Routes wanted"
- "Routes used"
- To existing network
- In/outside neighborhood
- Grid change



Safety

- "Street not good for cycling"
- "Problem areas"
- Vision Zero
- Conflicting movements
- Traffic volumes

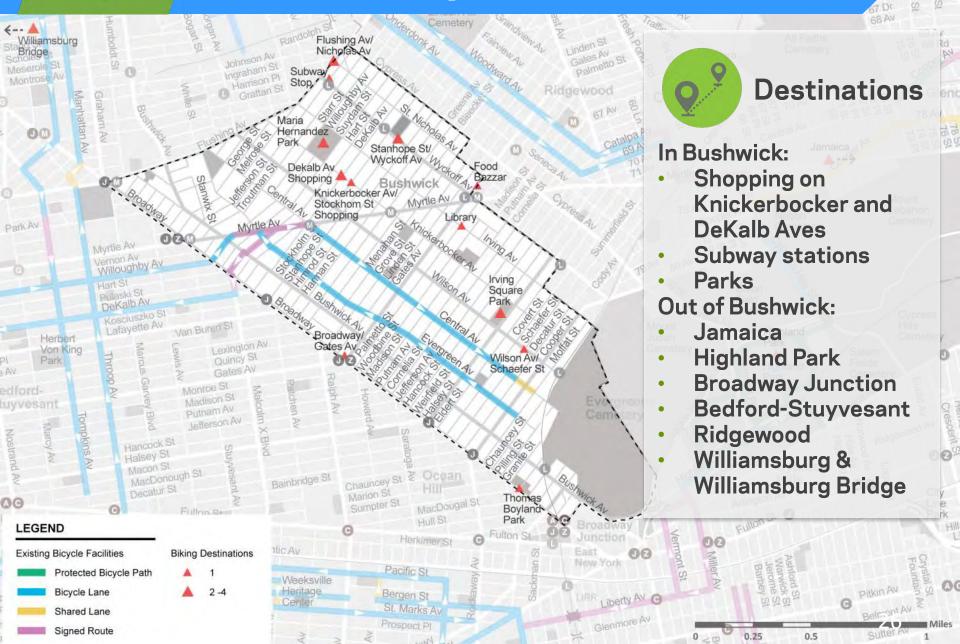
Safety is both an issue and an opportunity

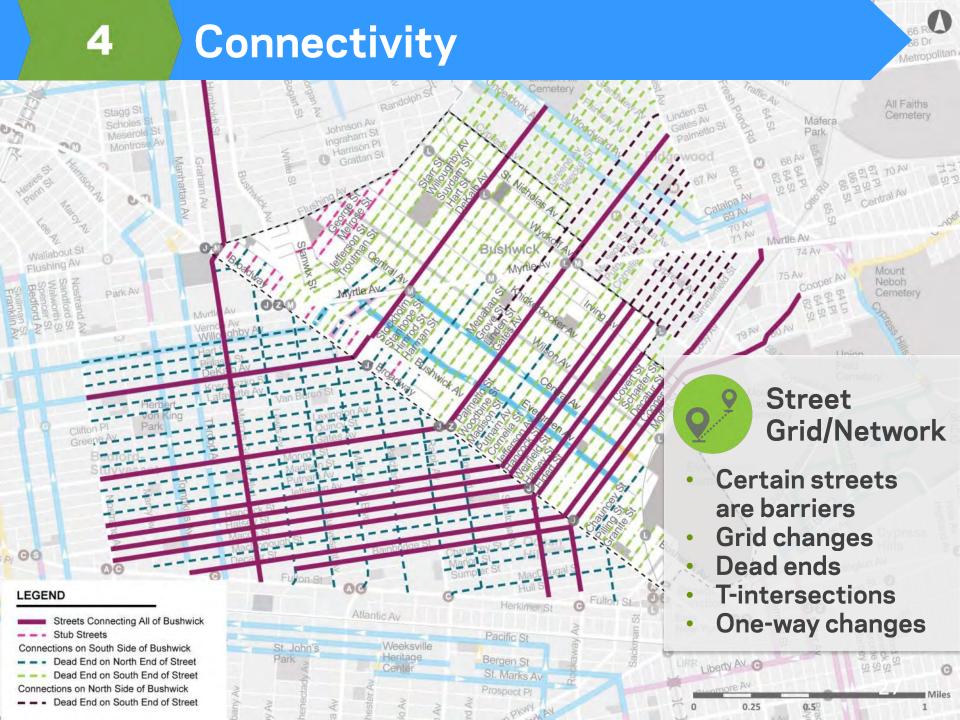


Geometry

- Design limitations and opportunities
- Street width
- Facility type

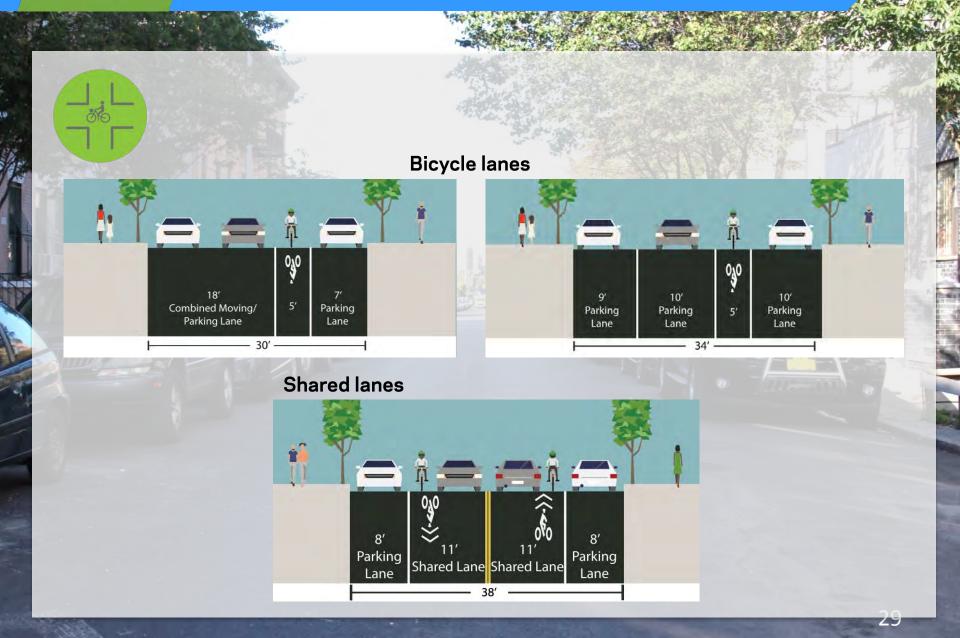
4 Connectivity

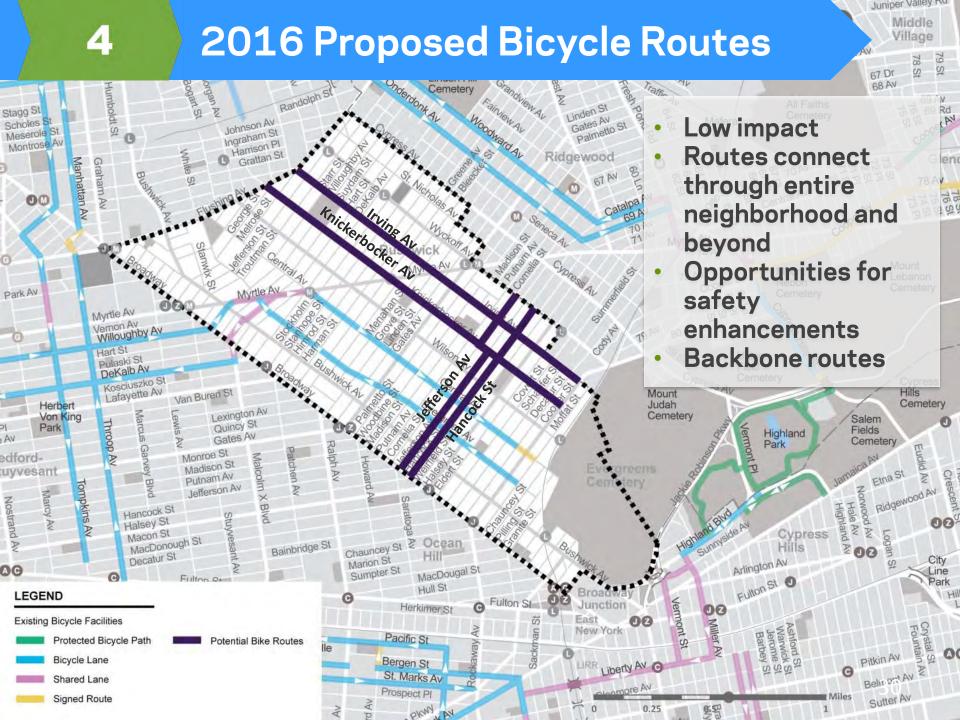




Safety 68 AV Vision Zero **Priority** Corridors Flushing Ave Bushwick Myrtle Ave **Bushwick Ave** Park Av Broadway Knickerbocker Ave Has capacity for Von King bike lane LEGEND **Existing Bicycle Facilities** Protected Bicycle Path Pacific St Bicycle Lane Vision Zero Corridors Bergen St Shared Lane Prospect PI Signed Route

4 Geometry





Potential Future Bicycle Routes 68 AV Routes shown are Johnson Av Ingraham St B Harrison Pl illustrative of a Grattan St Ridgewood 2017 build-out 00 Steering committee will Evergreen Avn work to determine routes Park Av Myrtle Av 2017 Priorities: Willoughby Av **Build out western** DeKalb Av network Low impact Herbert Lexington Av Von King Local circulators Connection to **Highland Park** Hancock St Halsey St Cypress MacDonough St Decatur St MacDougal St Hull St LEGEND Herkimer St **Existing Bicycle Facilities** 2016 Proposed Routes Protected Bicycle Path Pacific St Possible Future Routes Bicycle Lane Bergen St Liberty AV G St. Marks Av Shared Lane Further analysis required Prospect PI Signed Route

Juniper Valley

Further Analysis



- Community has shown interest in these corridors, but they are challenging
 - What are the streets we should concentrate on?
 - What is the role of the Steering Committee?

Considerations:

- **Potential safety** improvements
- Complicated geometries
- Higher impact to traffic patterns and parking
- **Need further** discussion and analysis

Glenmore



2016 Proposed Routes

Possible Future Routes

Further analysis required

Pacific St

St. Marks Av

Existing Bicycle Facilities

Bicycle Lane

Shared Lane

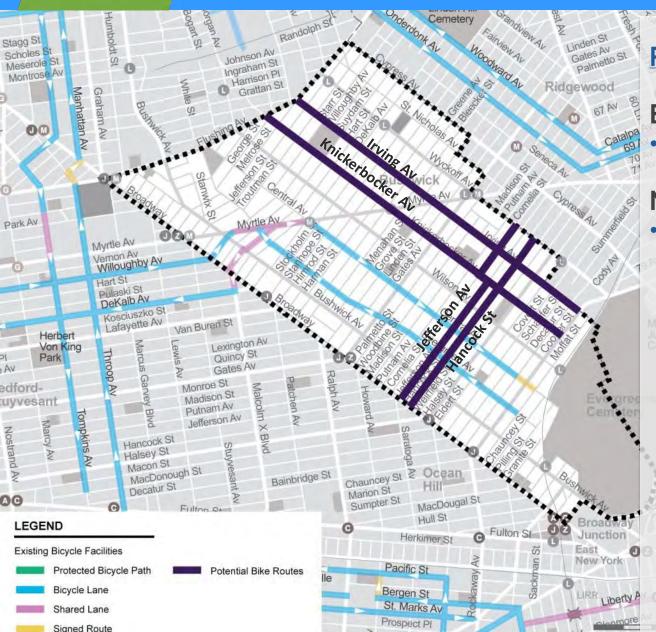
Signed Route

Protected Bicycle Path

4

2016 Proposed Bicycle Routes

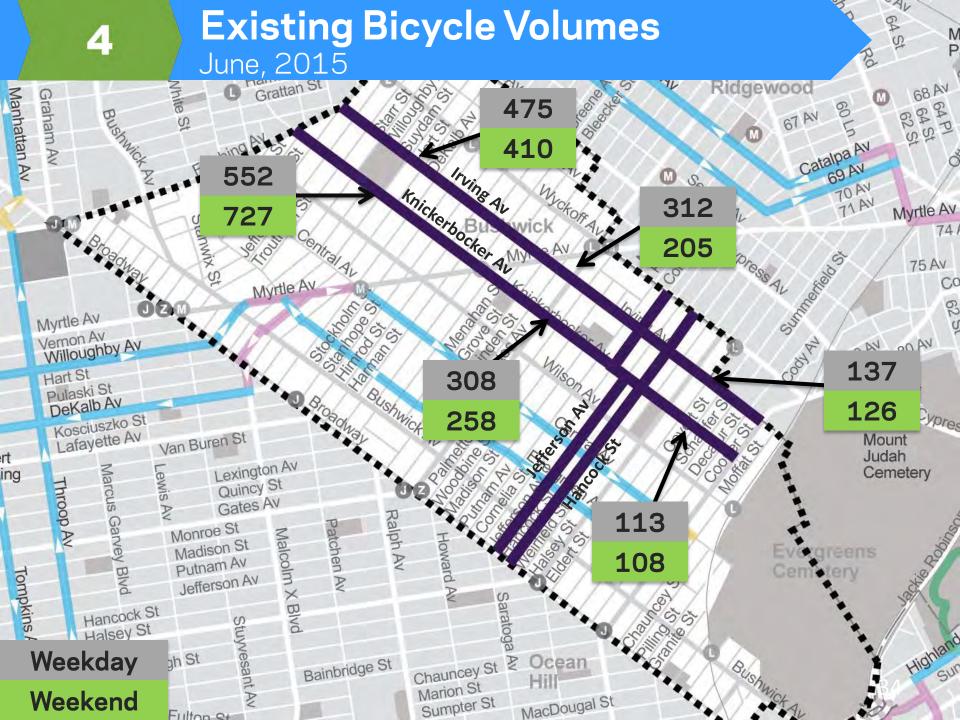




Proposed Bike Routes

East/West

- Knickerbocker Ave, Irving Ave
 North/South
- Jefferson
 Ave/Cornelia St,
 Hancock St
 - Low impact
 - Opportunities for safety enhancements
 - Backbone routes
 - Opportunities to extend beyond neighborhood
 - Safety improvements





4

Knickerbocker Ave, Irving Ave Issues

Wide Travel Lane
- Encourages
Speeding

- No dedicated space for cyclists

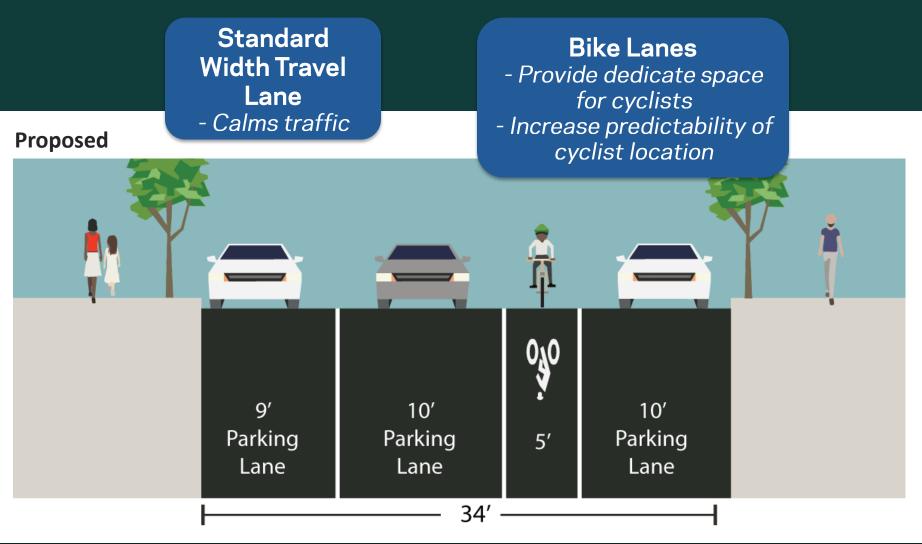
Existing



34'

Knickerbocker Ave, Irving Ave

Proposed Design



Existing

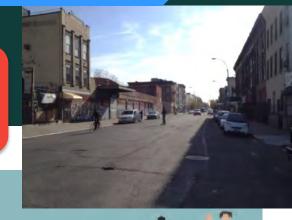
Knickerbocker Ave at Flushing Ave

Existing - George St to Melrose St

Lack of Markings - No dedicated space for cyclists

Wide Travel Lane

- Encourage speeding



North Sidewalk

46' Combined Travel / Parking Lane

South Sidewalk

Knickerbocker Av

Knickerbocker Ave

Proposed Design - George St to Melrose St

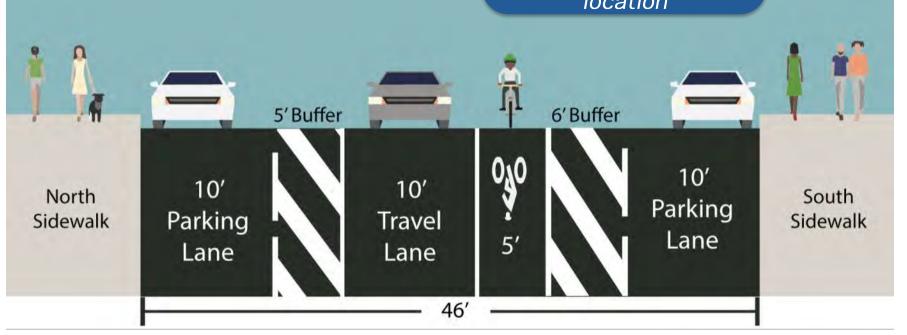
Standard Width Travel Lane

- Reduces speeding
- Maintains alignment

Bike Lanes

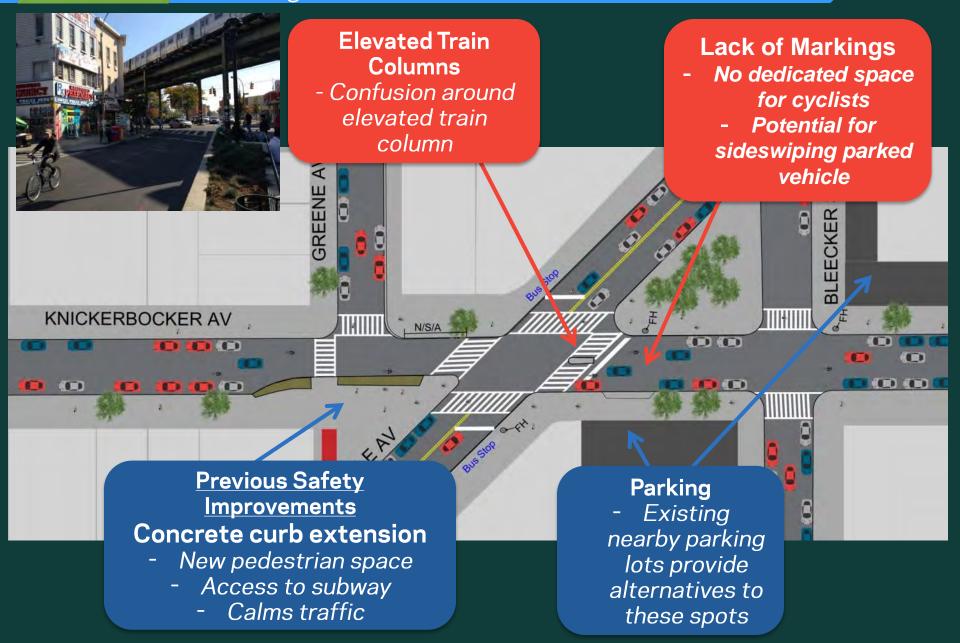
- Provide dedicate space for cyclists - Increase predictability of cyclist location

Proposed



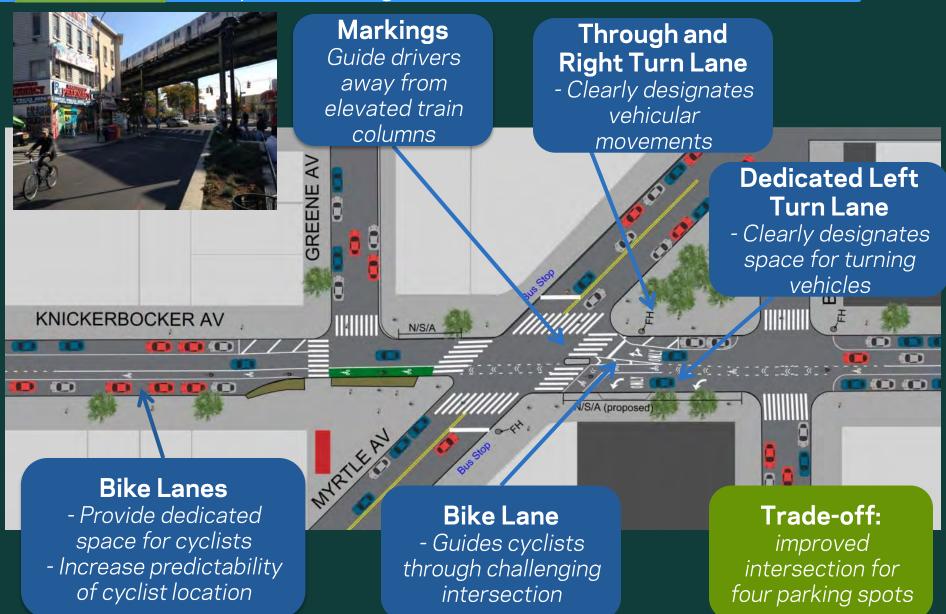
Knickerbocker Ave

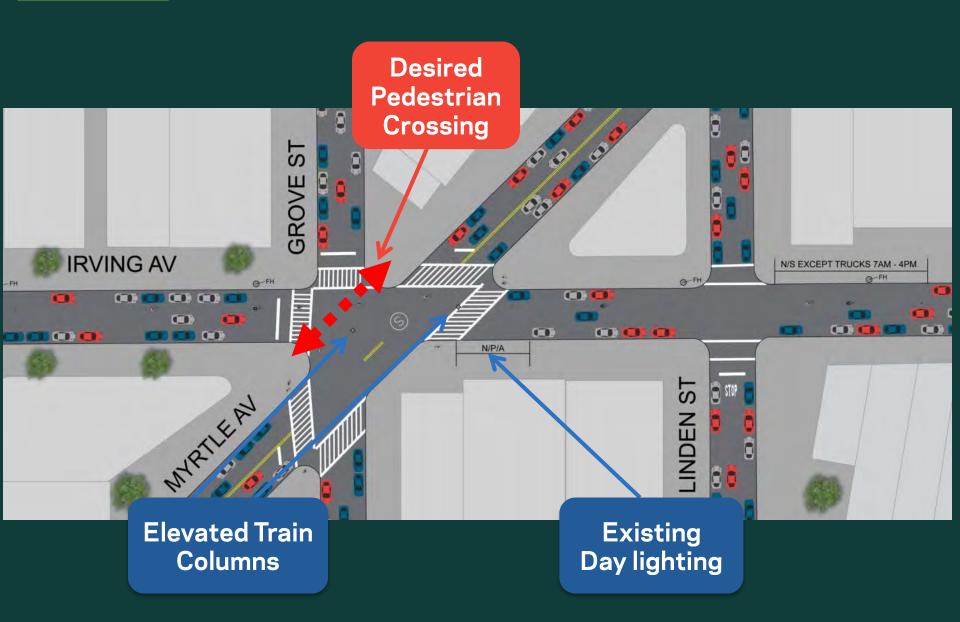
Existing Conditions- Harman St to Bleecker St

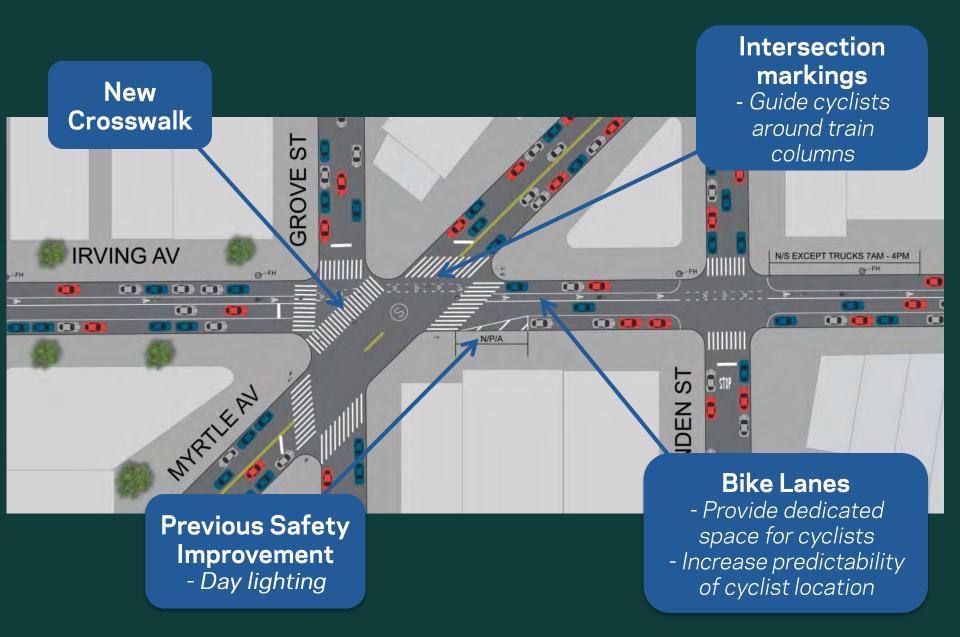


Knickerbocker Ave

Proposed Design- Harman St to Bleecker St









Issues

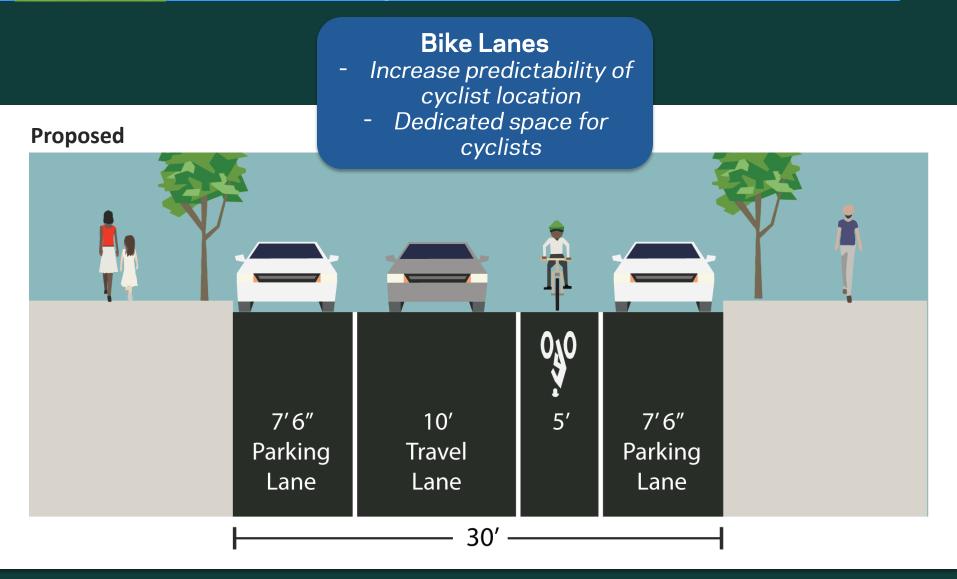
Jefferson Ave/Cornelia St, Hancock St

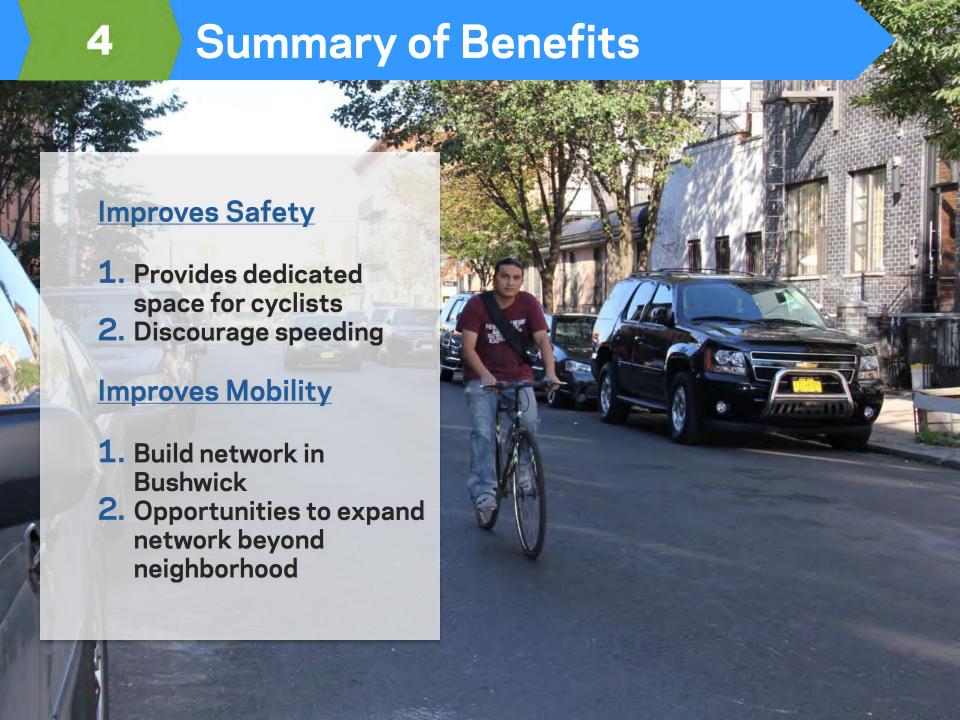
Lack of Markings

- No dedicated space for cyclists
 - Invites speeding



Jefferson Ave/Cornelia St, Hancock St Proposed Design





Questions?



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