Brooklyn CB 17
BICYCLE NETWORK DEVELOPMENT

Virtual Workshop
Presented with Brooklyn Community Board 17 – February 9, 2021
Agenda

1. Introductions

2. Presentation 20 min
   - Project Overview
   - Bicycle Network Development

3. Workshop 40 min
   - Breakout Sessions

4. Closing Conversation 20 min
   - Workshop Summaries
   - Next Steps
Introductions
Presentation:
Project Overview
NYC DOT is responsible for:

- 6,000 miles of streets and highways
- 789 bridges and tunnels
- 12,000 miles of sidewalk
- 12,700 signalized intersections
- 315,000 street lights
- Staten Island Ferry
- 1 million+ street signs
- 200 million+ linear feet of roadway markings
Project Overview

Project Focus Area

- **Queens Community Board 8 Bike Network Upgrades**
- **Queens Community Board 1 – Bicycle Network Expansion**

**Prospect Park**
- **Crown Heights**
- **Flatbush**
- **Flatlands**
- **Midwood**
- **Canarsie**
- **Brownsville**
- **Kensington**

Legend:
- **Protected Path**
- **Bicycle Lane**
- **Shared Lane**
- **Signed Route**
What is your relationship to the project focus area?
Planning Context

Green Wave Plan

- **CB17 identified as Priority Bicycle District** due to high number of bicyclists Killed or Seriously Injured (KSI) and low bicycle network coverage

- **75 miles of bicycle infrastructure** to be built in **10 Bicycle Priority Districts** (7 in Brooklyn, 3 in Queens)

Pandemic Response

- **Improve Safe Commuting Options for Essential Workers.** District has high population of essential workers (over 20k workers)

- **Increase Access to Open Space** by improving connections to open space and developing healthy commuting options

Citi Bike Expansion

- **Phase 3 Expansion plan includes** portion of district **north of Cortelyou Road** to be rolled out through 2023

- **Access to a network of over 15,000 bikes and 1,000 stations** in Brooklyn, Queens, Manhattan and the Bronx
Major Recreational Destinations Surrounding District

1. Prospect Park

2. Eastern Parkway Greenway

3. Canarsie Pier

4. Marine Park

5. Ocean Parkway Greenway

10 min

15 min

20 min

20 min
What type of transportation cyclist are you?

Do you know someone who rides a bike in this neighborhood?
Presentation: Bicycle Network Development
Markings Organize the Roadway to Increase Safety

Street Improvement Projects are:
- Low cost;
- Quickly implemented; and
- Use semi-permanent materials

Complete streets and street redesigns improve safety for all road users, including cyclists, pedestrians, drivers, and bus riders.
Shared Bicycle Lanes

**Benefits**

- **Alert drivers** and cyclists of shared space
- **Provide wayfinding** for people on bikes
- **Guide cyclists** where to ride on the road

**Considerations**

- Can be **less comfortable** for novice cyclists, may have less traffic calming benefits
- **No parking loss**: typically fits in between existing travel and parking lanes
Conventional Bicycle Lanes

Benefits

**Discourage speeding** by visually narrowing the road

**Increase predictability** by clearly defining road space for each user

Considerations

**No physical separation** between vehicles and cyclists

**No parking loss** - typically fits in between existing travel and parking lanes

Argyle Rd and Rugby Rd, BK

150th St, QN
Bicycle Network Development

Protected Bicycle Lanes

Benefits

Maximizes traffic calming by physically narrowing roadways

Increases safety for all road users by shortening crossing distances for pedestrians, and separating people driving and biking

Encourages wider range of people to try riding a bike

Considerations

Typically removes parking spaces

May require removal of a travel lane
Safety Benefits of Bicycle Infrastructure

Street designs that include protected bike lanes increase safety for all users

-15% drop in all crashes with injuries
-21% drop in pedestrian injuries

on streets where protected bike lanes were installed 2007-2017

Injuries to cyclists increase only 3%, despite a 61% bike volume increase

Protected Bike Lanes
Before and After Crash Data, 2007 - 2017

Data from 25 separate protected bicycle lane projects installed from 2007-2014 with 3 years of after data. Includes portions of 1 Ave, 2 Ave, 8 Ave, 9 Ave, Broadway, Columbus Ave, Hudson St, Lafayette St / 4 Ave, Sands St, Allen/Pike St, Kent Ave, Prospect Park West, Flushing Ave, Bruckner Blvd & Longfellow Ave, Imlay St / Conover St, Paerdegat Ave. Only sections of projects that included protected bike lanes were analyzed.

Source: NYPD AIS/TAMS Crash Database
Project Focus Area

Network Development Goals

Improve safety for all road users

Close gaps in bicycle network

- Connections to local destinations and transit
- Connections to adjacent neighborhoods
- Connections to parks and greenways
Which types of bicycle lanes would you feel most comfortable seeing in this area?
Workshop
Interactive Tools

Annotation

Chat

**PC:** Ctrl + H  
**Mac:** Command + Shift + H  
**Phone:** More > Chat
Are you familiar with the types of bicycle lanes in Brooklyn? What do you think of them?
What’s the best way to make more space for protected bike lanes?

A. One-way Conversion
Example: Loring Ave, Brooklyn, 2013

B. Remove One Lane of Parking
Example: Vernon Blvd, Queens, 2013

C. Reduce Travel Lanes
Example: 111th St, Queens, 2017
Which kinds of streets would you like to see potential bike lanes on?
What issues have you experienced using the streets in this area?
What destinations are most important to connect to?
Which streets would you like to see protected lanes?
What are the most important issues that came up in the discussion?
Closing Conversation
What are the most important issues that came up in your discussion?

Volunteer from each group will share top issues
How do you feel about expanding the bicycle network in this area?
Next Steps and Project Timeline:

**Winter 2021**
- Virtual Public Engagement
  - Project Portal

**Spring – Summer 2021**
- Outdoor Events (as feasible)
  - Bike Month (May)
- Continue Virtual Engagement

**Fall 2021**
- Project Development
  - Design and engineering
  - Return to board with project proposals

**2022**
- Project Implementation
What types of engagement would you like to see us do next?
THANK YOU!