

# **Brooklyn Community Board 14**

Bike Network Expansion
June 6, 2023



#### **Presentation Overview**

- 1. Background
  - 1. Safety
  - 2. Community Outreach
- 2. Parade Ground Improvements
- 3. 2023 Bike Network Proposal
- 4. Potential Protected Bike Lanes
- 5. Summary & Next Steps



# Safer Cycling

- **Community Board 14** (CB 14) identified as **Priority Bicycle District** due to high number of bicyclists Killed or Seriously Injured (KSI) and medium bicycle network coverage
- **38 cyclists** were Killed or Seriously Injured (KSI) in 5-year period (2016-2020) in CB 14
- Most recent fatality on Parkside Ave in October 2022







**Protected Bike Lanes** 

### 34% reduction in risk of injury

On the highest-risk streets, cycling risk or injury is reduced by over 60%

#### **Standard Bike Lanes**

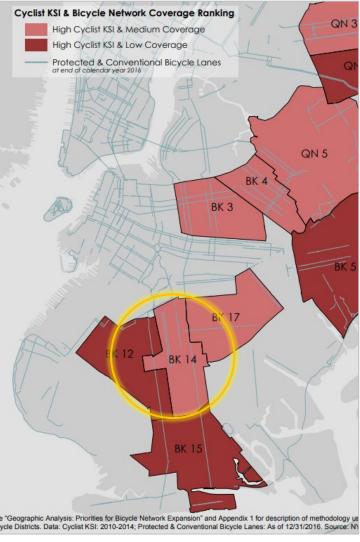
32% reduction in risk of injury

Improved safety on all study projects

#### **Shared Lanes**

18% reduction in risk of injury across all projects Limited use (wayfinding, as part of bike blvds, or on very narrow/low volume streets)\*

#### **Bicycle Priority Districts**



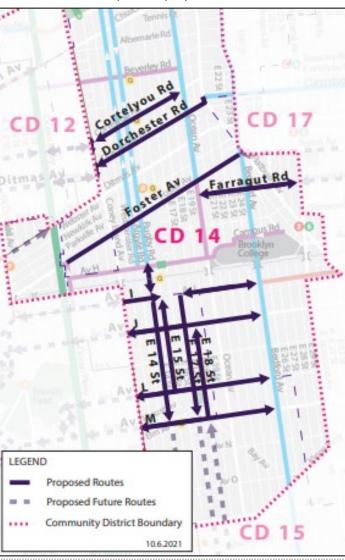
<sup>\*</sup>Source: Safe Streets for Cycling: How Street Design Affects Bicycle Safety and Ridership. October, 2021. nvc.gov/dot

## **Outreach History**

- 2018, Summer: DOT met CB district manager to review the conceptual plan and to receive preliminary network feedback
- 2019, May: DOT met with BP's Office, CM Lander, AM Eichenstein, CM Menchaca, AM Bichotte to review the proposed routes
- 2021: NYC DOT brought an initial proposal for bike network expansion to CB14
- 2022: Gathered community feedback from digital online survey, and in-person pop-up events
- 2023: NYC DOT returns to CB 14 with updated plan



Bike network expansion proposed to CB 14 in 2021

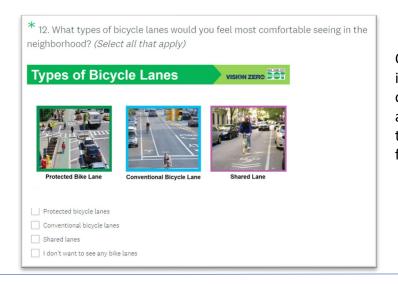


5

# **Community Outreach**

# **Digital Online Survey**

Using a 28-question survey instrument, NYC DOT collected data on mode choice, trip patterns, barriers to cycling, attitudes, and perceptions of traffic safety in Flatbush and East Flatbush.



Online survey included multiple choice questions and opportunities to provide written feedback

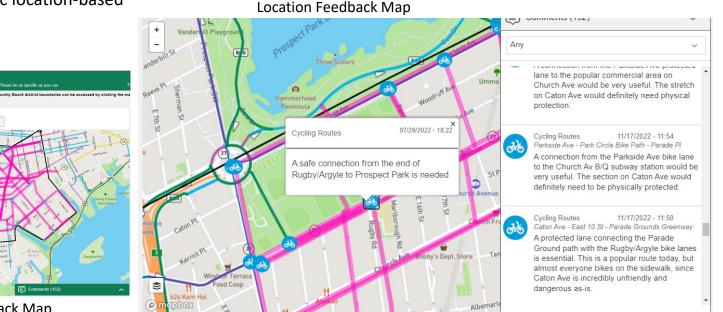
#### **Project Portal Feedback Maps**

The project portal has feedback maps that provide

opportunity to give specific location-based

feedback

latbush and East Flatbush Bicycle Network Expansion (BK CB 14 and CB 17)



Suggest New Bike Routes Feedback Map

6

# **Community Outreach**

### Pop-Up Events and Public Surveys

Over **1,750** people participated in the survey over the course of summer 2021 and 2022, of which:

- 450 in-person surveys were administered across 20 different DOT pop-up outreach stations in CB 14 and 17.
- 1,300+ digital have been selfadministered via online and QR flyers.
- In 2021, 60% of the survey respondents identified as living or regularly frequenting the area.
- Met with Rector of St Paul's Church Flatbush in November 2022 to share project portal and survey.







DOT Street Ambassadors interacting with community members at Pop-Up events

# **Previous DOT Work**

• In 2021, **NYC DOT** installed a new protected bike lane on Parkside Ave.



Parade Ground Improvements



### **Access to Parade Ground**

# **Existing Conditions**

# Missing Bike and Pedestrian Crossings to Park Pathways



Pedestrians and cyclist waiting for gap to cross Parkside Ave



Pedestrian crossing on Parade Place to Crooke Ave



Cyclist with child crossing Caton Ave at Argyle Rd to bike through Parade Ground

## **Access to Parade Ground**

## **Proposal**

- Install midblock signal on Parkside Ave at the entrance to the Parade Grounds
- Install enhanced crossings on Parade Place at Crooke Ave
- Upgrade ramps and install bike crossing on Caton Ave at Argyle Rd





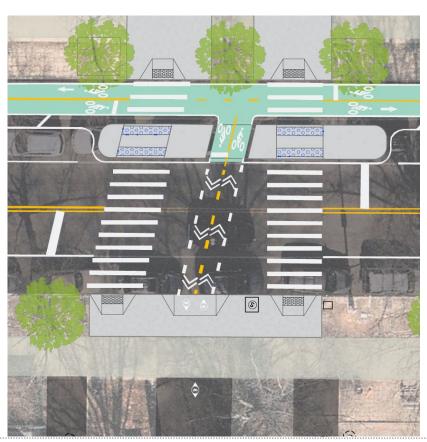


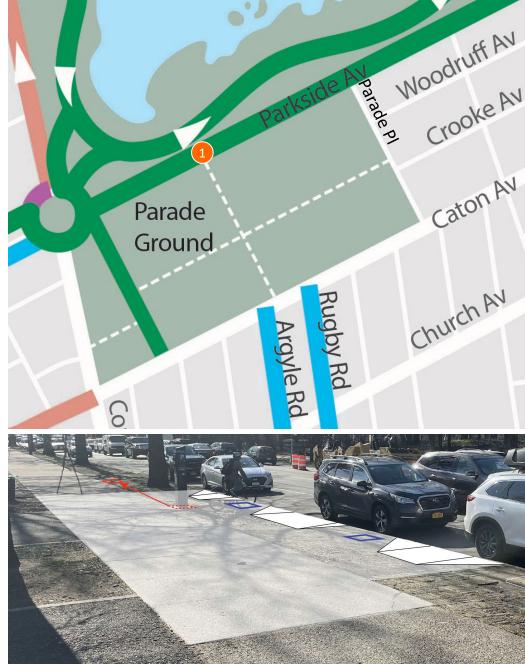
Woodruff Av

## **Access to Parade Ground**

# Proposal – Parkside Ave

Install a midblock signal on Parkside Ave at the entrance to the Parade Grounds





# Access *through* Parade Ground

# **Existing Conditions**

- Gap in bike network to connect Argyle and Rugby bike lanes to Parkside Ave greenway
- Stratford path is mapped but not reflected in existing field conditions



Cyclist using sidewalk along Caton Ave to exit Parade Ground pathway



Cyclists using Stratford Pathway in Parade Ground





Cyclist exiting Argyle Pathway at Caton Ave

# Legend Existing Bike Facilities Protected Path

Protected Path
Bicycle Lane

13

# Access through Parade Ground

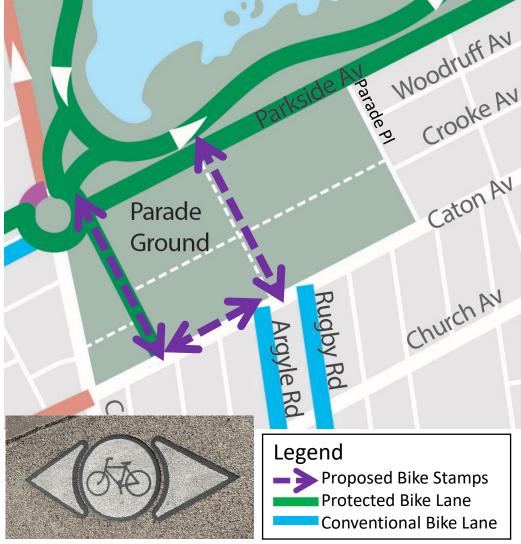
# Potential Design Solutions





Example: bike stamps in City Hall Park





Example: bike stamps and signage on Parkside at Park Circle

NYC DOT coordinating with NYC Parks

2023 Bike Network Proposal



# **Street Improvement Projects Toolbox**



#### **Shared Bicycle Lanes**

**Shared lane markings** guide cyclists where to ride on the street

- Alert drivers & cyclists of shared space
- Provide wayfinding for cyclists
- Guide cyclists away from car doors



#### **Standard Bicycle Lanes**

**Bicycle lane** provides dedicated space in the road

- Discourage speeding by visually narrowing the road
- Increase predictability by clearly defining road space for each user



#### **Protected Bicycle Lanes**

**Bicycle lane protected** by bollards or floating parking

- Maximizes traffic calming by physically narrowing roadways
- Increases safety for all road users by shortening crossing distances for pedestrians, & separating people driving and biking

## **Bike Network**

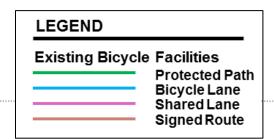
# **Existing Bike Network**

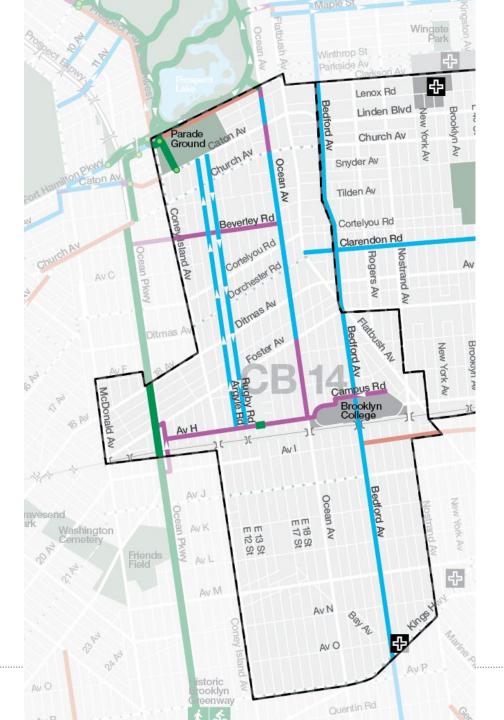
# **Network Development Goals**

# 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





# **Bike Network**

# Proposed Bike Network

#### Add new cycling routes to key destinations

- North South connections
- East West connections

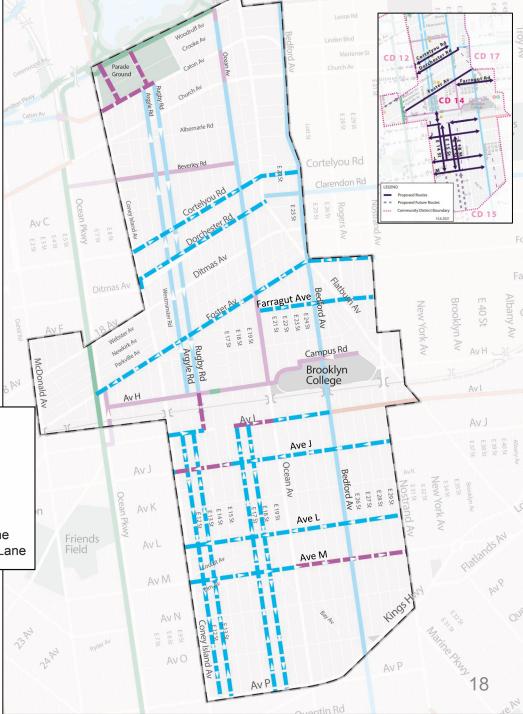
#### Route Selection Criteria

- Continuity of street
- Street width
- Connectivity to existing network



#### Bicycle lanes create new neighborhood connections

- · Provide dedicated space and wayfinding for cyclists
- Connects to existing bicycle lanes and district boundaries
- No parking loss or travel lane removal



# **Bike Network Proposal**

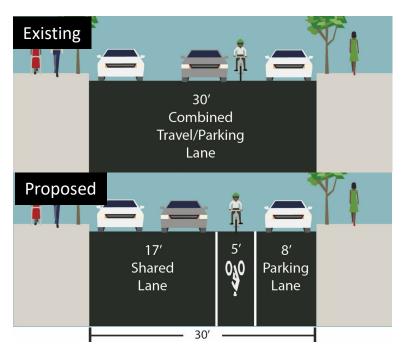
# 30' to 33'-wide Corridors

- Dorchester Rd
- E 17 St

• E 12 St

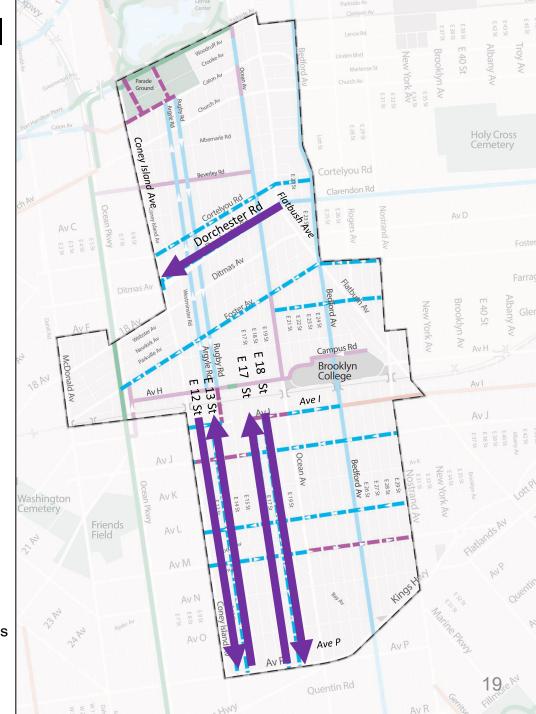
• E 18 St

• E 13 St



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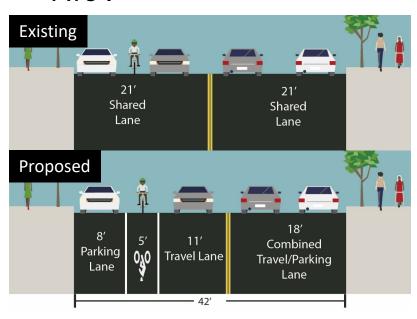
## 42' to 44'-wide Corridors

- Cortelyou Rd
- Ave J

Foster Ave

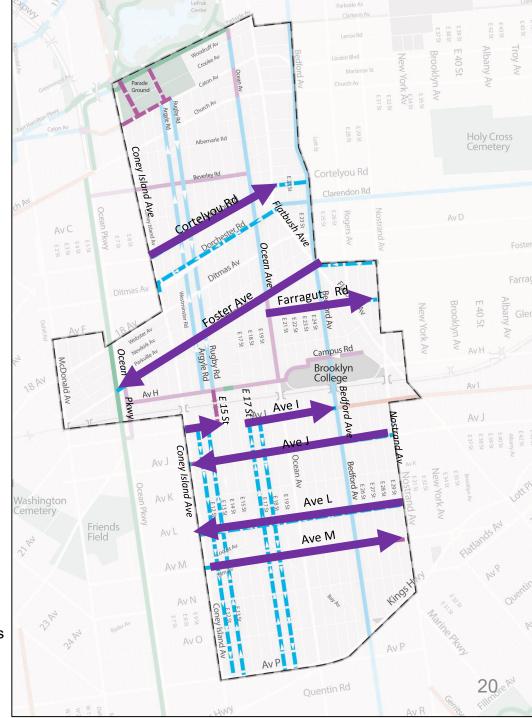
- Ave L
- Farragut Rd
- Ave M

Ave I



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Potential Protected Bike Lanes



#### SAFETY – Protected Bike Lanes

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

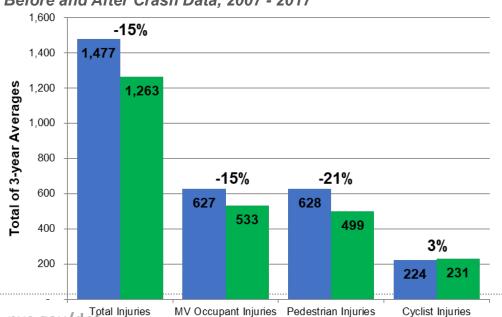
- -15% drop in all crashes with injuries
- -21% drop in pedestrian injuries

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



■ Before ■ After





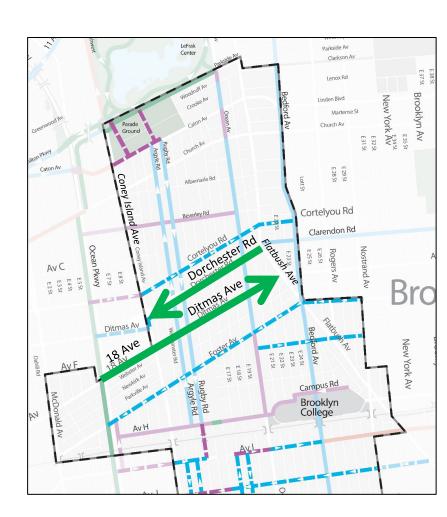
Data from 25 separate protected bicycle lane projects installed from 2007-2014 with 3 years of after data. Includes portions of 1 Ave, 2 Ave, 8 Ave, 9 Ave, Broadway, Columbus Ave, Hudson St, Lafayette St / 4 Ave, Sands St, Allen/Pike St, Kent Ave, Prospect Park West, Flushing Ave, Bruckner Blvd & Longfellow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

Source: NYPD AIS/TAMS Crash Database

### **Potential Protected Bike Lanes**

#### Potential Protected Bike Lane

- More family-friendly, all-ages and all-abilities bicycling environment
- Bigger trade-offs than conventional bike lanes
- Require more time to study feasibility
- Potential Routes:
  - Dorchester Rd (Flatbush Ave to Coney Island Ave)
  - Ditmas Ave/18 Ave (Ocean Pkwy to Flatbush Ave)



### **Dorchester Rd**

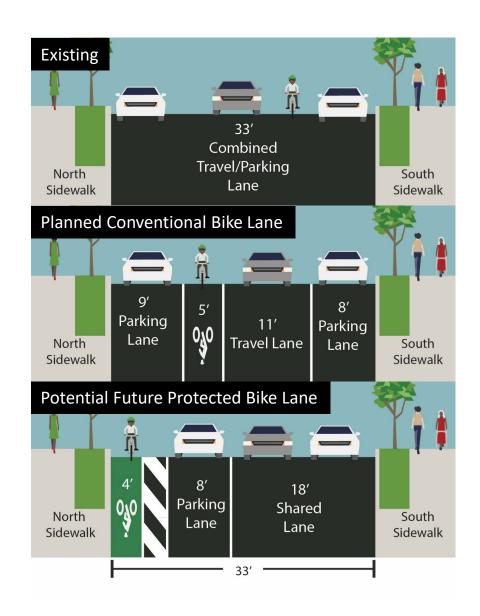
#### Potential Protected Bike Lane

#### Benefits:

- Slower vehicular turns
- Shortened pedestrian crossings
- Bike lane physically separated from moving traffic

#### Trade-offs:

 Some parking loss at corners required to maintain adequate visibility between cyclists and turning drivers (~1-2 spots per block)



## **Ditmas Ave/18 Ave**

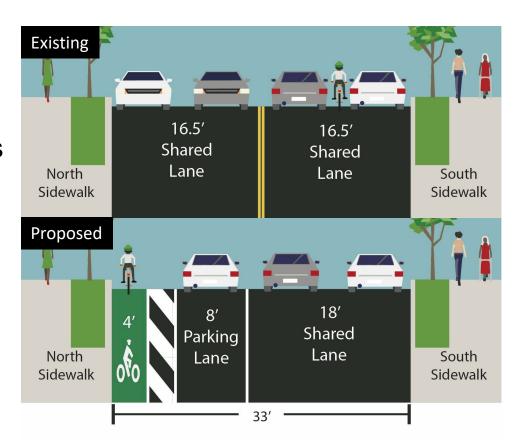
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#### Benefits:

- Slower vehicular turns
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- Bike lane physically separated from moving traffic

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 Some parking loss at corners required to maintain adequate visibility between cyclists and turning drivers (~1-2 spots per block)



- Requires converting Ditmas Ave and 18 Ave to one-way eastbound
- Requires rerouting westbound B8 buses off 18 Ave

# Ditmas Ave/18 Ave: Alternative Design

#### Potential Protected Bike Lane

### Alternative design:

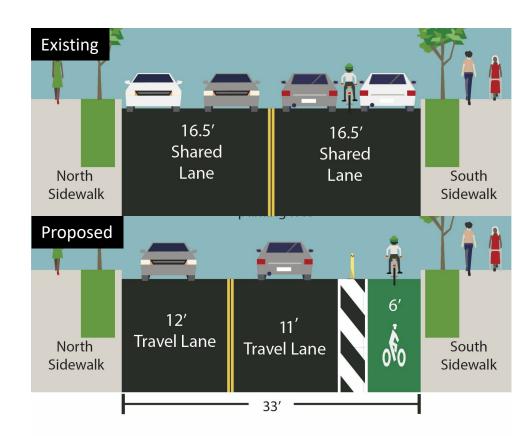
- Maintain two-way street operation
- Clear all parking

#### Benefits:

No traffic diversions, bus reroutes

#### Trade-offs:

Loss of on-street parking



Summary & Next Steps



#### **Summary & Next Steps**

- Signal on Parkside Ave and Enhanced Crossing on Parade Pl approved, target install date Fall 2023
- NYC DOT to install conventional bike lane network expansion in 2023/2024
- NYC DOT to return to the community board with protected bike lane proposals

# **Thank You!**

Questions?











29

## Example of Signal with Pedestrian Islands

Prospect Park West at 9<sup>th</sup> St



## **Example of Enhanced Crossing**

Heath Ave and Summit Pl, Bronx

