

Commissioner Janette Sadik-Khan, New York City Department of Transportation Presented December 17<sup>th</sup>, 2013

### Background

- Critical bike network link:
  - Connects Brooklyn to Ed Koch Queensboro Bridge
  - Connects rapidly redeveloping Queens and Brooklyn waterfronts
  - Important connection to the 7 train for pedestrians and bicyclists
- Community concerns about bicycle-pedestrian path in 2009.
- Enhancements installed to improve safety and organize traffic flow

Pulaski Bridge Weekday Bicycle/Pedestrian Counts 7-11am & 2-7pm

Mode	April 2009	April 2013	% change
Bicyclists	487	1,004	+106%
Pedestrians	1,077	1,586	+47%

## Background

- Path width makes passing difficult, especially as volume increases
- Community request for bicycle and pedestrian enhancements
- Support from AM Joseph Lentol, CM Stephen Levin, CM Jimmy Van Bramer, Transportation Alternatives and Queens CB2
- April 2013: DOT consultant begins design of a new bicycle path
- August 2013: Transportation Enhancement Program (TEP) grant application submitted

## **Project Map**



## **Existing Conditions: Shared Path**



 8.5 ft-wide two-way shared bicycle/pedestrian path

Path narrows at obstacles

- Average two-way weekday volumes, 7am-7pm, April 2013:
  - 1,845 pedestrians
  - 1,194 bicyclists

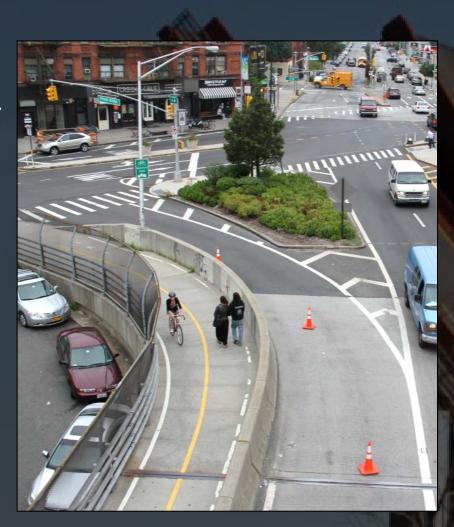
## **Existing Conditions: Roadway**



- 3 Queens-bound (northbound)
  and 3 Brooklyn-bound
  (southbound) travel lanes
- All travel lanes are 11 ft wide
- Peak hour traffic volumes:
  - 1,559 vehicles (Brooklynbound, 4:30-5:30pm)
  - 1,556 vehicles (Queensbound, 8-9am)
- 2 receiving lanes on McGuiness Blvd, Brooklyn
- Complex multi-nodal intersection at Queens landing

## **Project Challenges**

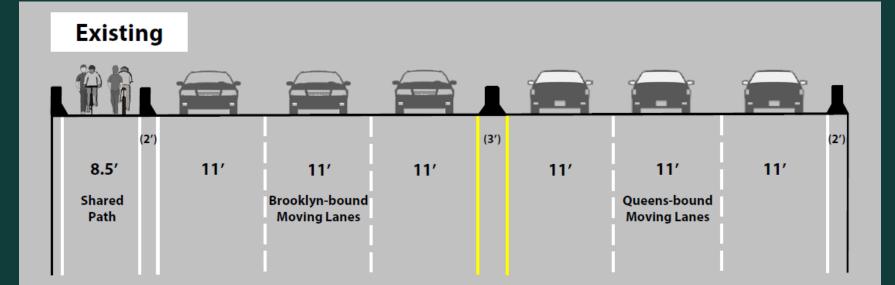
- Bridge approaches have slip lanes
- Electrical lines in existing barrier
- Moveable bridge: opens for maritime traffic
  - Newtown Creek is an active waterway, approx. 500 openings/year
  - Moveable structure must be kept in balance
- Bridge deck makes barrier attachment challenging
- Funding constraints

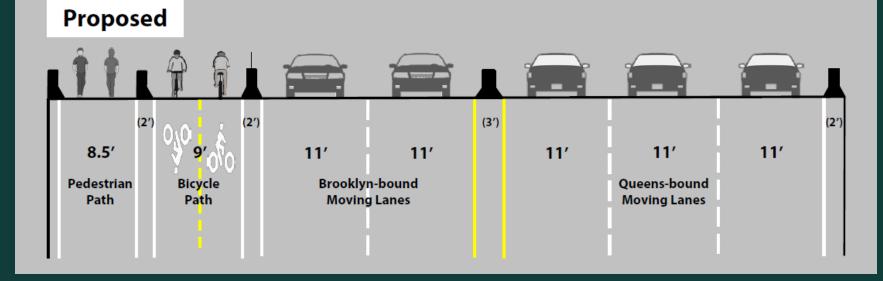


#### **Alternatives Considered**

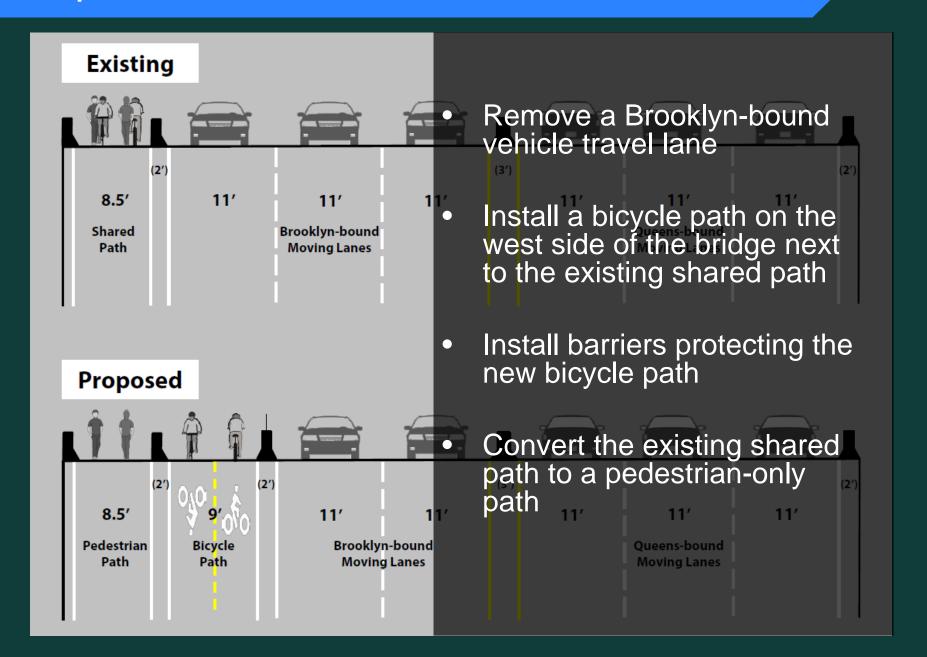
- On-street bicycle lanes in the direction of travel
  - Vehicle speeds too high
  - Heavy truck traffic
  - Sight line issues due to vertical and horizontal alignment
  - Off-ramps at Queens-bound approach hostile to cycling
- Two-way bike path on east (Queens-bound) side of bridge
  - Off-ramps at Queens-bound approach hostile to cycling
  - Access issues in Brooklyn
- Expanding bridge width
  - Cost prohibitive
- Free-standing pedestrian/bicycle bridge between Manhattan Ave and Vernon Blvd
  - Cost prohibitive

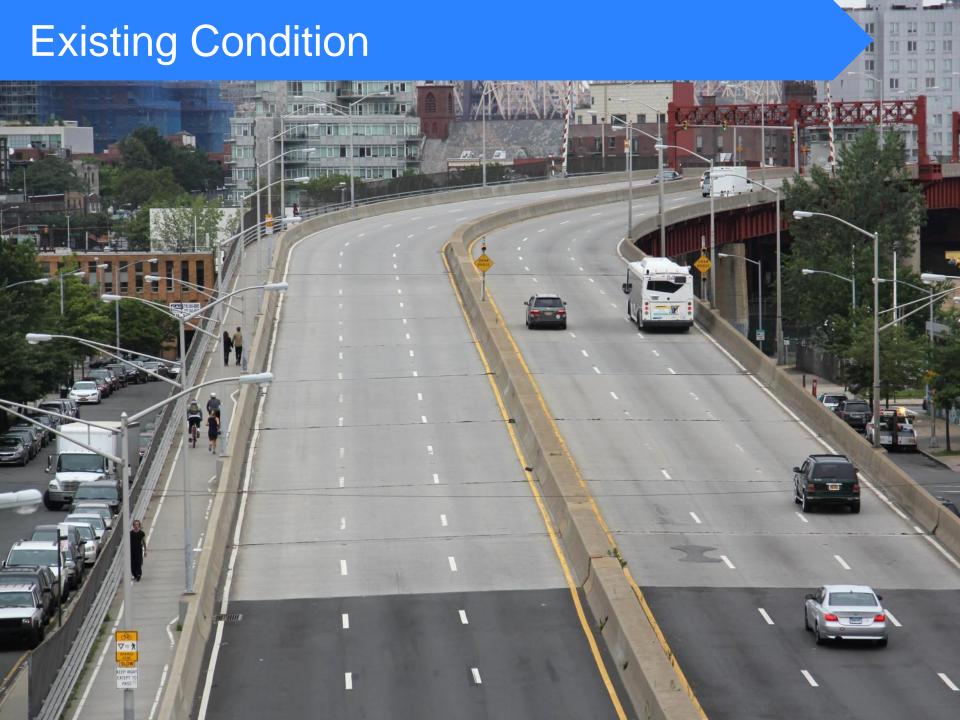
## **Proposed Condition**

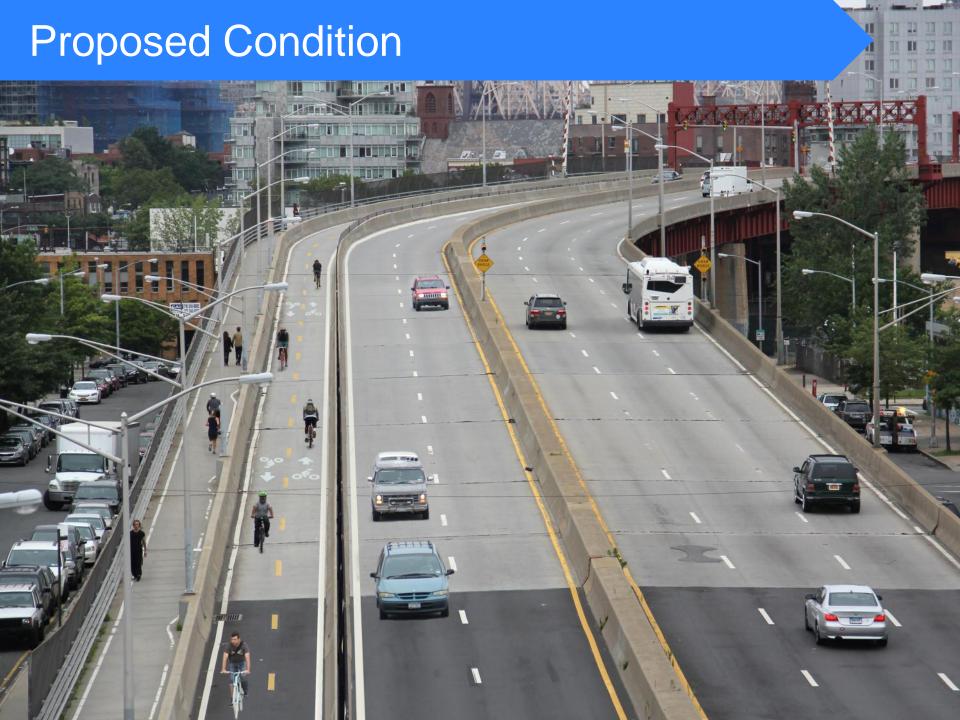




### **Proposed Condition**







# Changes to Roadway Configuration



 Brooklyn: No operational change as the existing 3 Brooklyn-bound lanes currently merge to 2 lanes approaching McGuiness Blvd and Green St

Queens: Vehicles entering the bridge from the slip ramp at Jackson Ave and 49th Ave will merge, yield to traffic entering from 11th St and southwest-bound Jackson Ave

## **Traffic Analysis**



- A traffic analysis was conducted to assess the effect of removing one Brooklyn-bound lane
- Peak hour Brooklyn-bound traffic volume (1,559 vehicles) can easily be accommodated by 2 travel lanes
- Traffic signal phasing allows yielding vehicles to merge easily
- No traffic impacts expected to result from this project

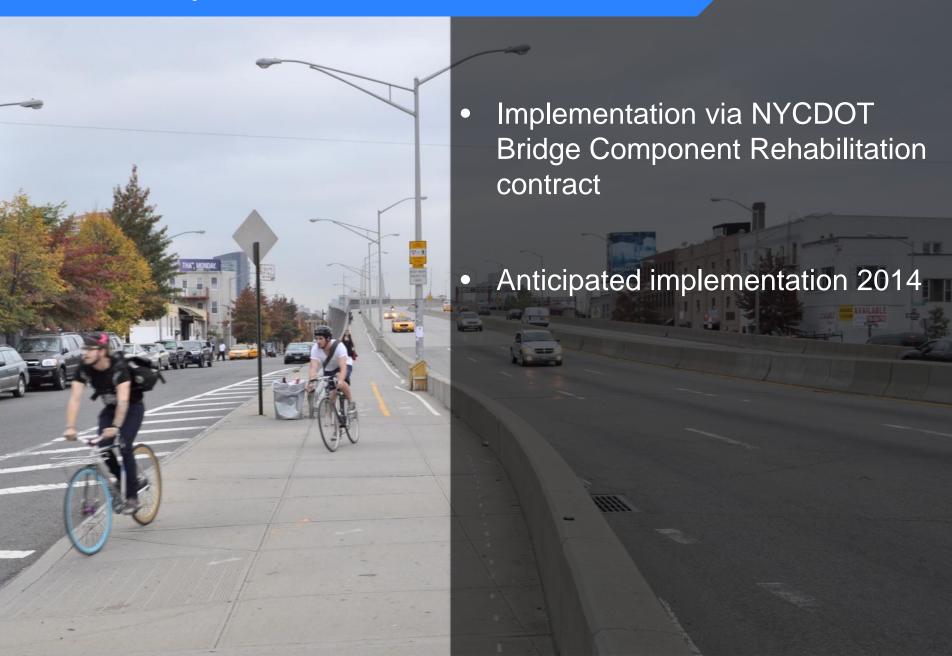
## **Project Benefits**



- Doubles space dedicated to bicyclists and pedestrians
- Enhances safety by separating bicyclists and pedestrians
- Facilitates transit trips; eases congestion on the B62 bus
- Enhances transportation network resiliency in event of emergencies (e.g. Hurricane Sandy, blackout) by increasing bicycle/pedestrian capacity



## **Next Steps**



Questions?

Thank You