



# **Southern Blvd, E 182nd St to E Fordham Rd**

## **Street Improvement Project**

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**New York City Department of Transportation**

Presentation by the NYC DOT Bicycle Unit to Bronx Community Board 6



## Presentation Overview

### Background

- Greenway Network
- Cycling in Numbers
- Citi Bike Expansion
- Crash Statistics
- Benefits of Protected Bike Lanes
- Green Wave Report

### Proposal

1. 2019-2020 Street Improvement Project
2. 2021 Proposal

### Making it Work

- Bus Stops
- Intersection Improvements

### Summary of Benefits



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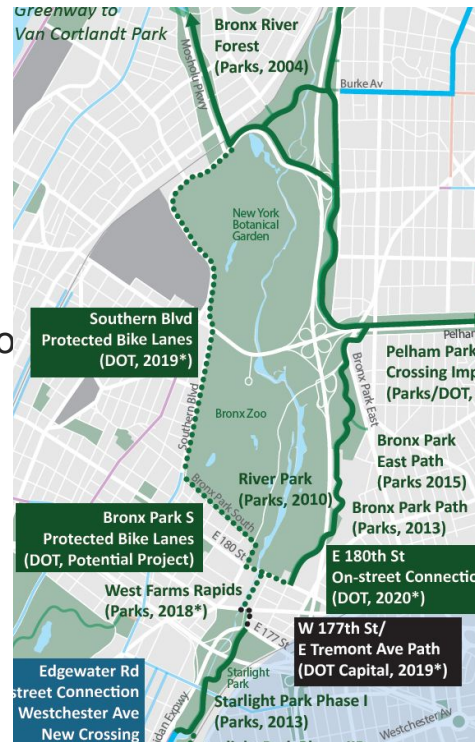
# Background

1

## Greenway Network

### Neighborhoods west of Bronx Park lack access to growing greenway network

- **Mosholu-Pelham Greenway** connecting to 1,100+ acre Van Cortlandt Park
- **Bronx River Greenway** linking series of waterfront parks in the heart of the borough
- **South Bronx Greenway** and connections to Randall's Island, Queens, Manhattan
- Significant **public investment** in new and existing parkland and bike and pedestrian paths in parks
- Neighborhoods on the west side of the NYBG and Bronx Zoo **lack safe access** to parkland and paths



South Bronx Greenway - Bruckner Boulevard Project  
Bronx River Greenway and South Bronx Greenway



## Background

# Cycling in Numbers

**24%** (nearly 1.6 million) of adult New Yorkers **ride a bike regularly**

**540,000** daily cycling commuting trips in 2019

+116% growth (2008-2018)

+35% growth (2013-2018)

**48%** of households in New York **own a bicycle**

**53%** of New Yorkers personally **own or have access to a car**



Data Source: 2019 Cycling in the City, 2019 Community Health Survey, 2018 Mobility Survey

## Citi Bike

### Citi Bike Ridership:

**15%** of New Yorkers use bike share  
(Mobility Survey, 2018)

**Citi Bike** regularly serves over **80,000 trips per day**; **10 million trips** in 2019

### Citi Bike Phase 3 Expansion:

171 stations installed in upper MN, and the BX, with an **additional 94 stations planned for the BX** in late 2020. Continued planning and outreach for 2021 installations

### Reduced Fare Bike Share:

All NYCHA residents and SNAP recipients 16 years and older are eligible for a discounted membership of \$5 per month.

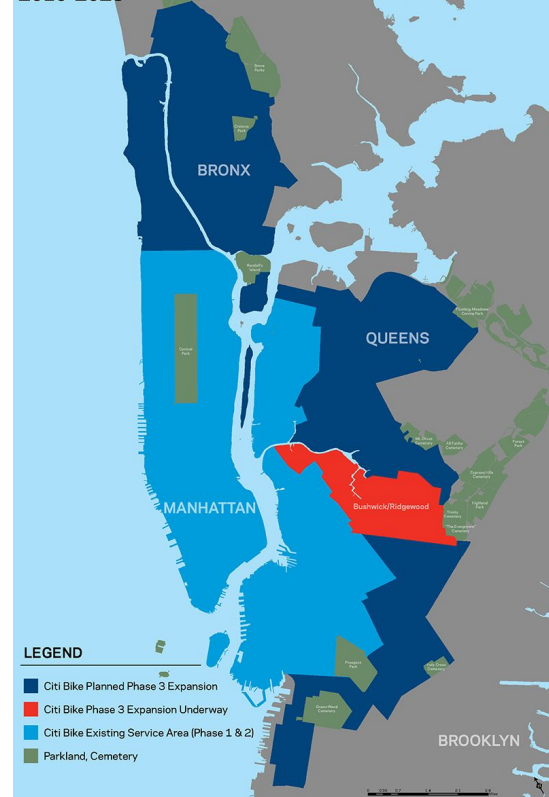
- About **7,100 active members**, up from 4,000 in early 2020

### Critical Worker Program:

Initiated in March 2020 in **response to Covid-19** provides a free month membership to frontline workers including first-responders, healthcare, and transit workforce.

- Over **840,000 trips** taken by **19,200 members** (about 5% of all trips)

Citi Bike Planned Phase 3 Expansion 2019-2023



## Crash Statistics

### Southern Blvd, E 182nd St to E Fordham Rd

Injury Summary, 2014-2018 (5 years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	28	4	1	5
Bicyclists	9	1	0	1
Motor Vehicle Occupant	223	12	0	12
Total	260	17	1	18

Fatalities, 01/01/2014 – 11/23/2020: 1

**Southern Blvd, E 182nd St to E Fordham Rd is a Vision Zero Priority Corridor**

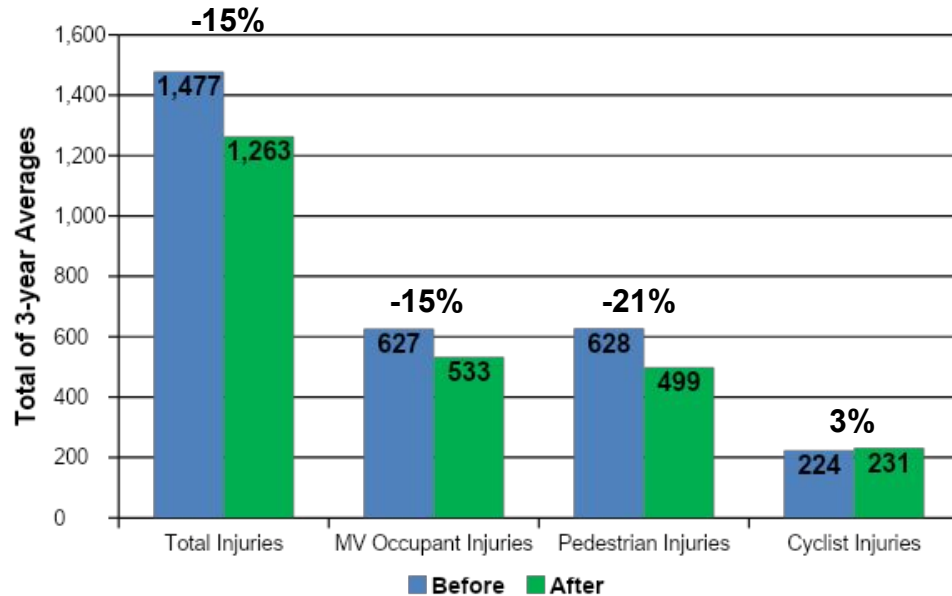
- 260 people have been injured, including 17 severely, and one pedestrian killed in 0.6 miles
- This section of **Southern Blvd** ranks in the top 10% for killed or severely injured (KSI) in all of the Bronx
- Since January 2020, **22 cyclists have been killed** Citywide; **8 were killed in the Bronx**



## Safety Benefits of Protected Bike Lane

### 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



Multi-agency effort to reduce traffic fatalities and injuries



## Green Wave: A Plan for Cycling in New York City



### Analysis of fatalities key factors (2014-Present):

- **60% of fatalities happened at intersections**; 23% involved a vehicle turn; 16% involved a driver's failure to yield the right of way
- Nearly **90% of fatalities** happened on **streets without bike lanes**

### Citywide Protected Bicycle Lane (PBL) Network

- **Build 30 miles of protected bicycle lane annually**, guided by a PBL vision document.

### Better Design:

- Implement **new design** standards based on national & international best practices **to enhance safety at intersections.**
- Continue **piloting new designs with rigorous safety analysis**

### Education and Outreach:

- Launch **next phase of Vision Zero** public awareness campaign, educating drivers with a focus on cyclist safety — and **expand the “Get There”** bicycle encouragement/rules of the road campaign
- **Educate all street users** about safe truck operation on city streets
- Increase helmet giveaways and helmet use encouragement.

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Proposal

2

### Community request for safety improvements:

- **2012:** Proposal for share lanes tabled due to concerns about safety and desire for more robust improvements
- **2016:** Request from students at Fordham Preparatory High School and NY Botanical Garden to address safety concerns after a student was injured while walking to school, and a cyclist riding to her job at the NYBG was killed

### DOT response to community request for safety improvements:

- **2017 - Present:** Project development and outreach
- **2019 - 2020:** Safety improvements implemented on Southern Blvd between E Fordham Rd to Mosholu Pkwy Greenway/Allerton Ballfields
- **2020 - 2021:** Southern Blvd, E Fordham Rd to E 182 St Project Proposal

## Previous Safety Improvements

- Two-way bike path from E Fordham Rd to Bedford Park Blvd
- Bike stamps from Bedford Park Blvd connecting cyclists to Mosholu Greenway
- Painted pedestrian spaces at NYBG Entrance, Bedford Park Blvd, and Metro North Entrance
- New bus boarding island at Bronx Park Rd
- New slip lane signals at Bedford Park Blvd and Mosholu Pkwy
- Extended right turn lane onto Mosholu Pkwy (80 to 1,000 feet)



## Overview

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### 2019-2020 Street Improvement Project:

- **INSTALLED:** Two-way bike path on Southern Blvd between E Fordham Rd and Allerton Ballpark connecting cyclists to Mosholu Greenway

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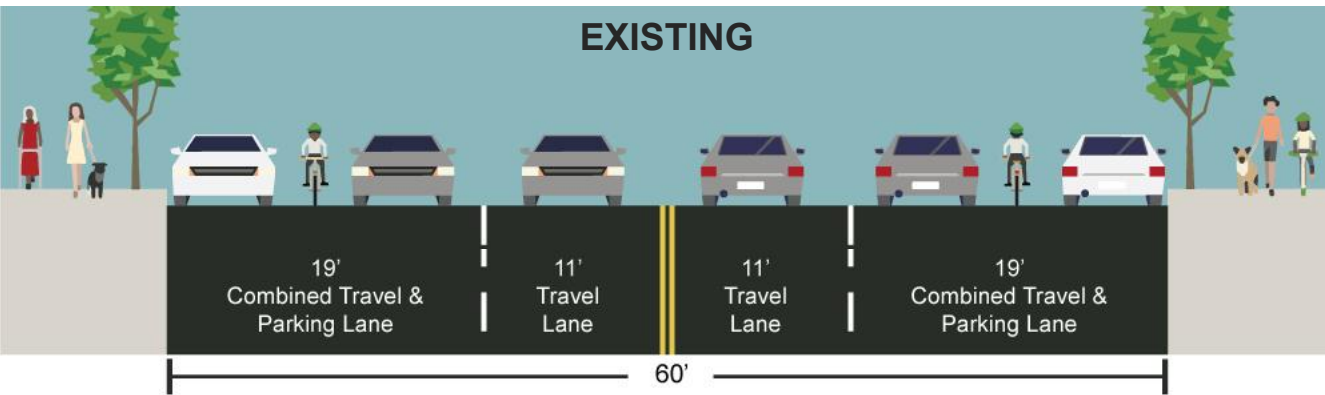
### 2020-2021 Street Improvement Project:

- **PROPOSED:** Two-way bike path on Southern Blvd between E Fordham Rd and E 182 St connecting cyclists to existing bike facilities south of E 182 St



## Existing Conditions/Issues

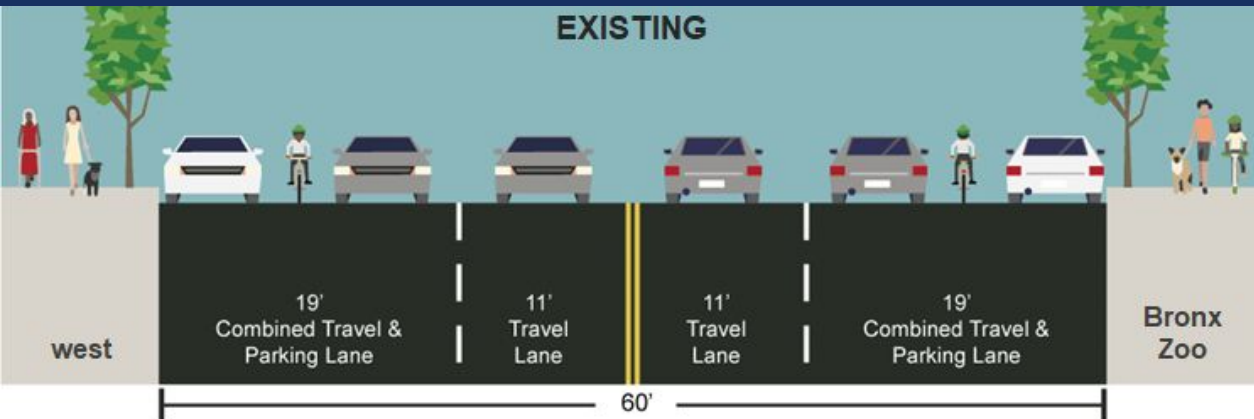
### Vision Zero Priority Corridor



- Excess width encourages **speeding, illegal u-turns, and other unsafe behavior**
- **Vision Zero Priority Corridor** especially challenging for children and seniors
- **No bike connection** to existing network, and major destinations along the corridor

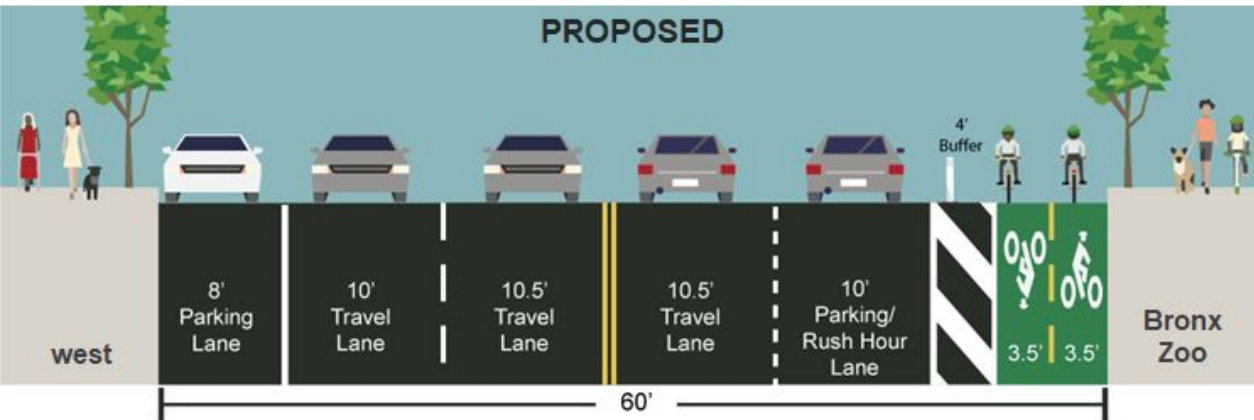
# Proposal

## Proposal: Two-way path



Existing Curb Regulation:

**NO PARKING**  
Tue & Fri  
9:30AM-11AM



Proposed Curb Regulation:

**NO PARKING**  
All Days  
7AM-7PM

*Between 7am and 7pm the lane will function as a moving lane to accommodate vehicular volumes. Overnight parking allowed*

## Design Elements



### Two-way delineator/parking protected bike lane

- **Narrower, organized roadway** discourages speeding, shortens pedestrian crossings
- **Rush hour lane** maintains capacity during peak period, calms traffic during off-peak periods
- **Overnight parking** remains the same

Southern Blvd, Bronx

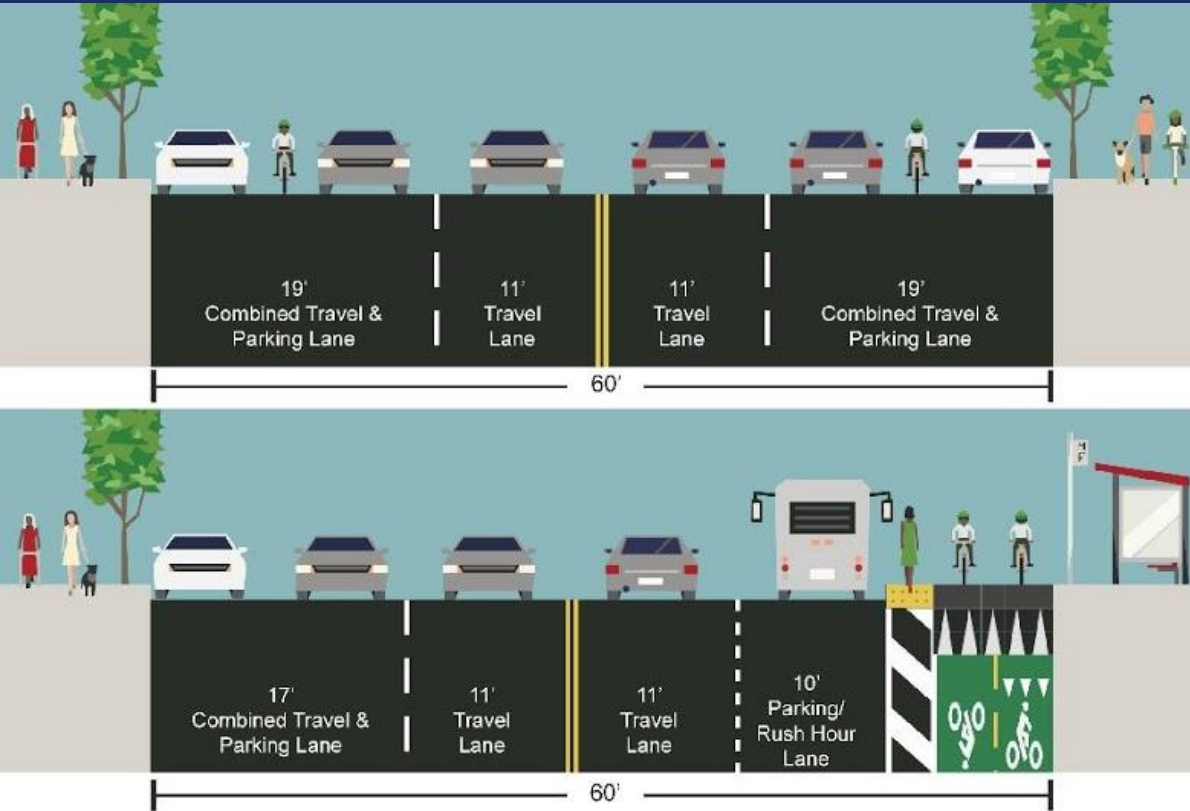


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## Making It Work

# 3

## Proposed Bus Improvements: Bx9, Bx19 Stops



### Average Bus Ridership (2019):

Bx9: 21,840

Bx19: 21,475

### Bus Boarders:

- ADA complaint design
- Improve bus operations; reduce lag time at each stop – buses stay in moving lane
- Clear indication of bus stop, ramps reduce cyclists speeds

### Proposed Bus Improvements: Bx9, Bx19 Stops

Southern Blvd at Bronx Park Rd



#### Better Buses Action Plan:

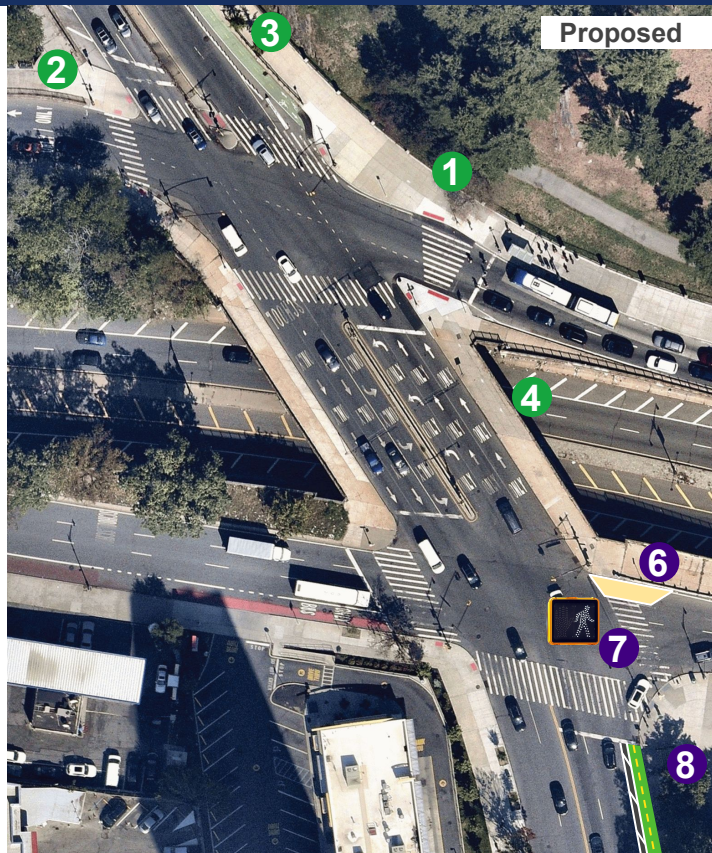
**Improve bus speeds.** Saving valuable seconds. DOT has recently been employing durable recycled plastic “bus boarders” that serve the same purpose but do not require capital construction.

## Proposed Intersection Improvements: E Fordham Rd



Existing

Build on previous safety improvements



Proposed

Between 2013 and 2017, **106 people injured; 9 severely injured**

### Previous Safety Improvements:

1. ADA compliant ramps
2. Curb extensions
3. Two-way bike lanes
4. Two-way bike stamps
5. Wayfinding

### Proposed Safety Improvements:

6. Painted curb extensions
7. Leading Pedestrian Interval (LPI)
8. Two-way bike lanes

## Proposed Intersection Improvements: E 182 St



Between 2013 and 2017, **42 people injured; 5 severely injured**

### Previous Safety Improvements:

1. Bike lanes

### Proposed Safety Improvements:

2. Two-way bike lanes
3. Painted curb extensions

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## Summary of Benefits

# 5

# Summary of Benefits

## Southern Blvd, E 182 St to E Fordham Rd

### Vital transportation corridor for all modes

#### Creates New Neighborhood Amenity:

- **Direct connection** to existing bike and greenway network, and major destinations
- Access to greenway system for west Bronx
- Provides **comfortable** space for cyclists of varied ages and experience levels
- Encourages **physical activity** – recreational bike rides, walking, jogging

#### Increases safety and improves conditions for all road users by:

- Reduces speeding; calms traffic
- Maintains traffic capacity during peak hour
- Shortens pedestrian crossings
- Provides protected space for cyclists
- Adds bus boarding islands to reduce lag time at bus stops

### Protected bike lanes benefit all street users:

Crashes with Injuries

**Down 15%**

Motor Vehicle Occupant Injuries

**Down 15%**

Pedestrian Injuries

**Down 21%**



*Broadway (Van Cortland Park), BX*

# Thank You!

Questions?



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