









### Willoughby Street Plaza

### **Public Forum**

November 21, 2006



### Agenda

- Introduction
- Project Overview
- Assessment of Effects
- Future Scenario & Analysis
- Goals & Results
- Public Comments

### Introduction

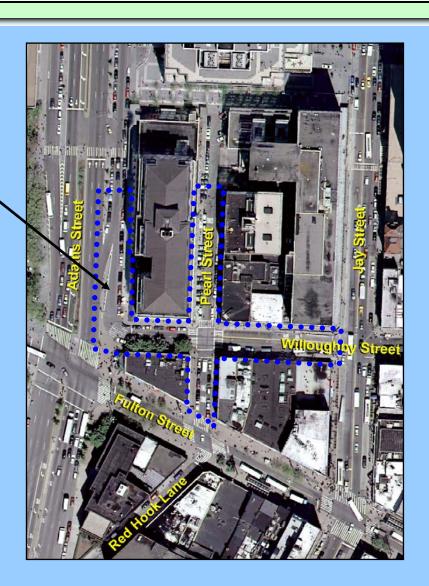
### Timeline:

- 3/21/06: Presented to Community Board
   2 Transportation Committee
- 4/11/06: Community Board 2 approves resolution in support
- 5/6/06: Project implemented
- 9/06-11/06: Project evaluated
- 11/21/06: Public forum held

## Willoughby Street Plaza Public Forum November 21, 2006

### Introduction

Study Area



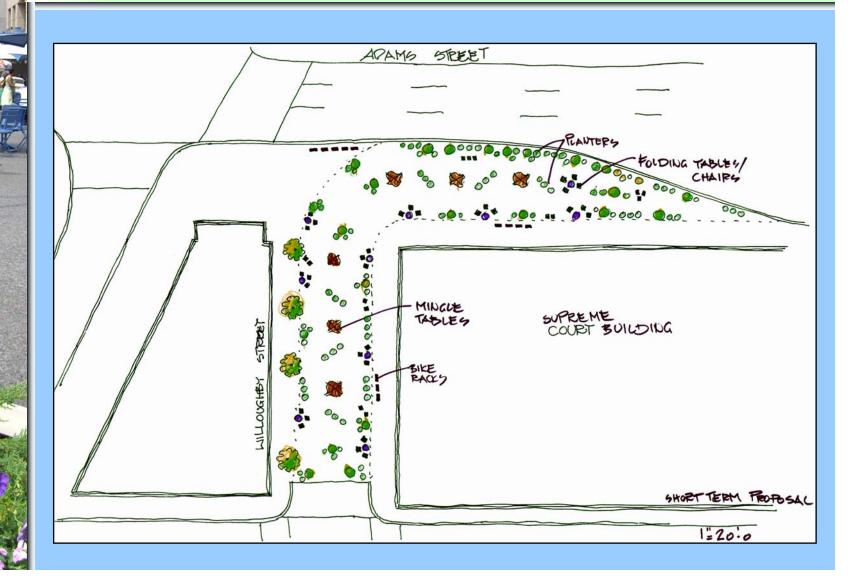
### **Project Overview**

- Major Elements:
  - Restricted Use Street (Pedestrian Plaza)
  - Conversion to One-Way Operation



### **Public Forum** Willoughby Street Plaza November 21, 2006

### **Project Overview**



### **Public Forum** Plaza Willoughby Street November 21, 2006

### **Project Overview**



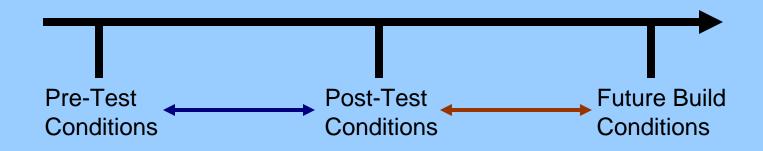
### Pedestrian Plaza with amenities:

- tables
- moveable chairs
- planters, various sizes
- bicycle racks



### Purpose:

- Compare pre- and post-test
- Compare post-test and future build
- Guided by CEQR & Local Law for street closures



- Data Collection
  - ATR (Automated Traffic Recorders)
  - Manual Vehicle & Pedestrian Counts
  - Curb Utilization Study
  - Survey of Retail Businesses
  - Field Visits & Observations
  - Community Feedback



### Parking

Higher turnover; less all-day parking

	Pre-Test	Post-Test
Parked 4+ Hours	42%	6%
Parked <4 Hours	58%	94%

 Illegal parking: remains high proportion; occupies less area

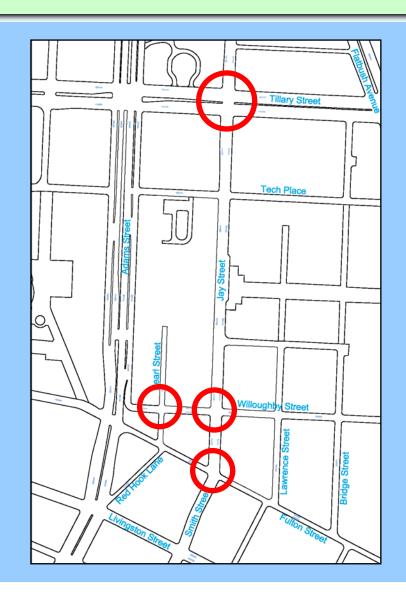
	Pre-Test	Post-Test
Parked Legally	20%	23%
Parked Illegally	80%	77%

### Delivery Access

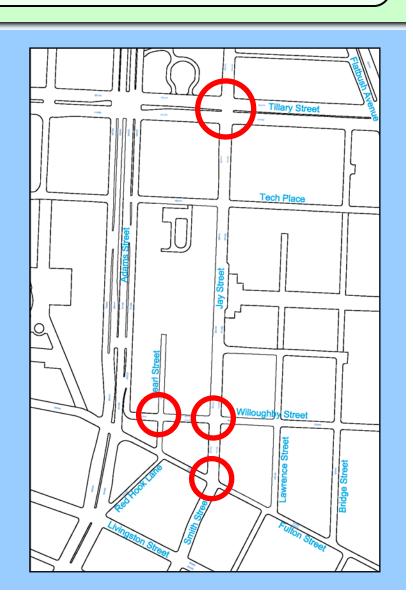
- Retail businesses surveyed
- Deliveries adequately accommodated for all businesses

	Yes	No
Restricted Use Street hurt business?	1	12
One-way Street Conversion inconvenienced deliveries and/or customers?	3	10
No inconvenience due to changes	9	4

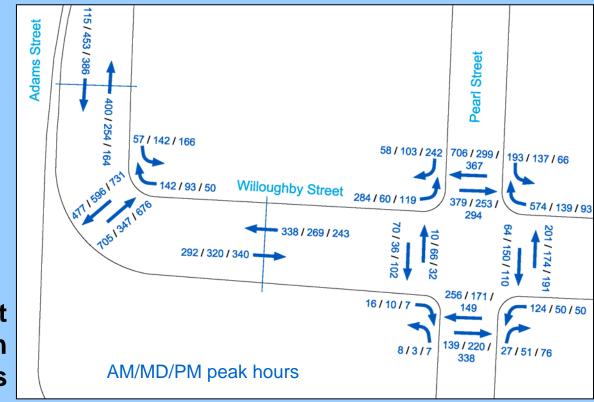
- Traffic NetworkVolumes
  - Automated & manual traffic counts conducted



- Street Capacity & Level-of-Service
  - Level-of-Service analysis performed on post-test traffic volumes
  - Acceptable level of service can be maintained at critical intersections



- Pedestrian Volumes
  - Comparable pre- and post-test volumes



Post-Test Pedestrian Volumes

- Pedestrian Volumes
  - Plaza sees high level of use





- Bicycling Conditions
  - Bicyclists observed cutting through the plaza





### Conclusions

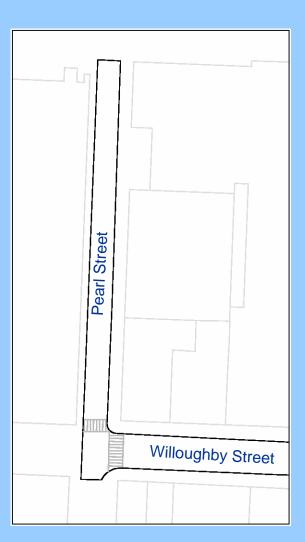
- No significant negative effects found
- Significant positive feedback received
- Minimal negative feedback received



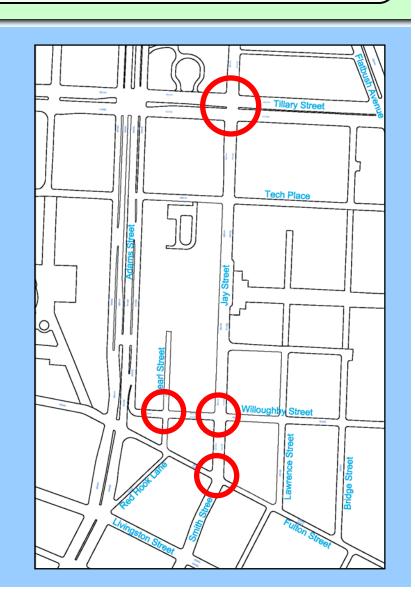
 Downtown Brooklyn Rezoning demapped streets for developments

**Willoughby Street** reverts to 2-way operation Potential Development Site **Anticipated future** street closures Potential Development Site

- Potential Cul-de-Sac Operations
  - Requires design to handle volumes and turning movements
- Potential for Pearl
   Street to accommodate
   vehicle turnarounds



- Street Capacity & Level-of-Service
  - Level-of-Service analysis performed on future traffic volumes
  - Acceptable level of service can be maintained at critical intersections



- Goals of the project:
  - Increase safety, mobility and quality of life for pedestrians



PRE-TEST: Busy
Pedestrian Crossing with
Vehicles at Willoughby
Street & Adams Street

Looking southeast

Looking south



POST-TEST: Safer, More Pleasant Pedestrian Conditions at Willoughby Street & Adams Street

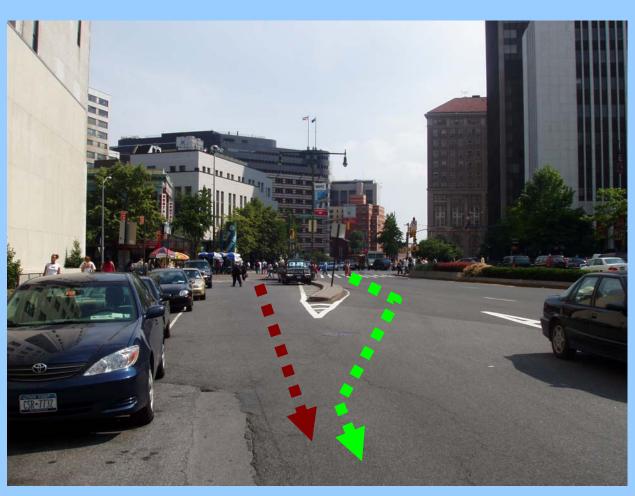
Looking east

Looking north

- Goals of the project:
  - Increase safety, mobility and quality of life for pedestrians
  - Eliminate the vehicular conflict between
     Willoughby Street and the off-slip from Adams
     Street to its east service road

## Willoughby Street Plaza Public Forum November 21, 2006

### Goals & Results



**PRE-TEST: Vehicle Conflict** 

## Willoughby Street Plaza Public Forum November 21, 2006

### Goals & Results



**POST-TEST: Vehicle Conflict Eliminated** 

### Goals of the project:

- Increase safety, mobility and quality of life for pedestrians
- Eliminate the vehicular conflict between
   Willoughby Street and the off-slip from Adams
   Street to its east service road
- Address the issue of illegal parking on Willoughby Street and its egress on Adams Street

### **Public Forum** Willoughby Street Plaza November 21, 2006

### Goals & Results



Blocked Bike Lane

**PRE-TEST: Illegal Parking on Adams Street** 

## Willoughby Street Plaza Public Forum November 21, 2006

### Goals & Results



**POST-TEST: Illegal Parking Reduced** 

### Goals of the project:

- Increase safety, mobility and quality of life for pedestrians
- Eliminate the vehicular conflict between
   Willoughby Street and the off-slip from Adams
   Street to its east service road
- Address the issue of illegal parking on Willoughby Street and its egress on Adams Street
- Improve the environment and add amenities for pedestrians and bicyclists

PRE-TEST Pedestrian Environment



### **POST-TEST Pedestrian Environment**



### Goals of the project:

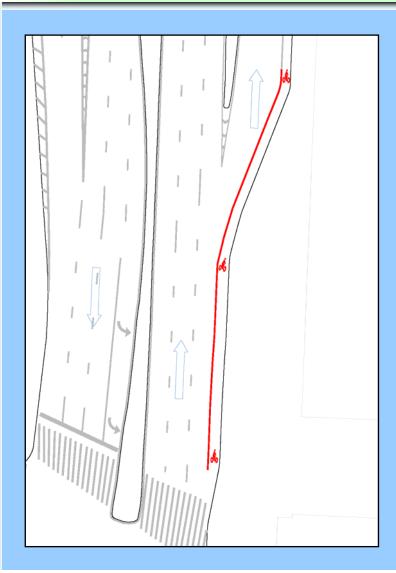
- Increase safety, mobility and quality of life for pedestrians
- Eliminate the vehicular conflict between
   Willoughby Street and the off-slip from Adams
   Street to its east service road
- Address the issue of illegal parking on Willoughby Street and its egress on Adams Street
- Improve the environment and add amenities for pedestrians and bicyclists
- Preserve the integrity of the bicycle lane

## Willoughby Street Plaza Public Forum November 21, 2006

### Goals & Results



**PRE-TEST: Blocked Bike Lane on Adams Street** 



**Public Forum** 

Plaza

Willoughby Street November 21, 2006



### **POST-TEST:**

Short-Term: Safer traffic patterns & new bike parking

Long-Term Build: Improve Class II Bike Lane Connectivity

### **Public Comments**

Your comments are appreciated.

Note: Comments may also be submitted in writing.

**Contact:** Chris Hrones

Downtown Brooklyn Transportation Coordinator New York City Department of Transportation

Brooklyn Borough Commissioner's Office

16 Court Street - Suite 1620

Brooklyn, NY 11241

Tel: 718/222-7271 Fax: 718/222-7256

Email: chrones@dot.nyc.gov











### Willoughby Street Plaza

### **Public Forum**

November 21, 2006



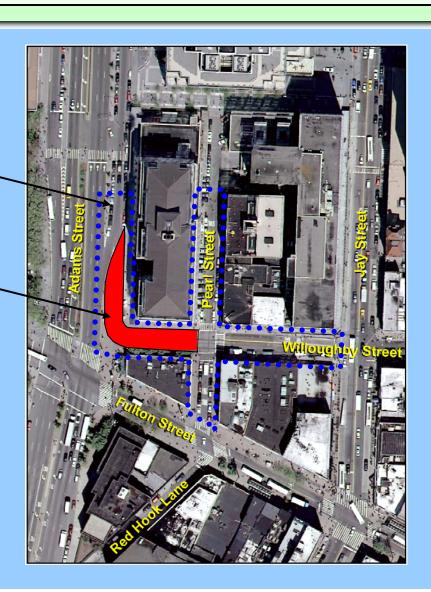
# Willoughby Street Plaza Public Forum November 21, 2006

### **Public Forum** Willoughby Street Plaza November 21, 2006

### Study Area

Study Area\_

**Restricted Use-Street** (Pedestrian Plaza)



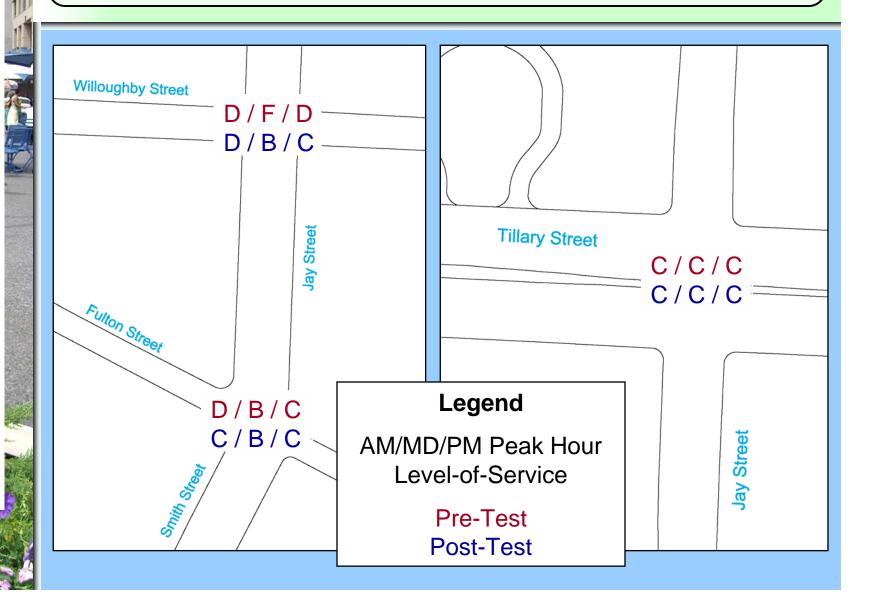
### Street Capacity & Level-of-Service

	Peak	Intersection LOS	
Location	Hour	Pre-Test	Post-Test
Jay Street & Willoughby Street	AM	D	D
	MD	F	В
	PM	D	С
Jay Street & Fulton Street	AM	D	С
	MD	В	В
	PM	С	С
Jay Street & Tillary Street	AM	С	С
	MD	С	С
	PM	С	С

### Plaza Public Forum

Willoughby Street Plaza Pu November 21, 2006

### Assessment of Effects



### Street Capacity & Level-of-Service

	Peak	Intersection LOS	
Location	Hour	Post-Test	Future
Jay Street & Willoughby Street	AM	D	С
	MD	В	В
	PM	С	С
Jay Street & Fulton Street	AM	С	С
	MD	В	В
	PM	С	С
Jay Street & Tillary Street	AM	С	С
	MD	С	С
	PM	С	С

### **Public Forum** Plaza , **Street I** Willoughby S November 21,

### **Future Scenario**

