

# Downtown Brooklyn Surface Transit Circulation Study (DBSTCS)

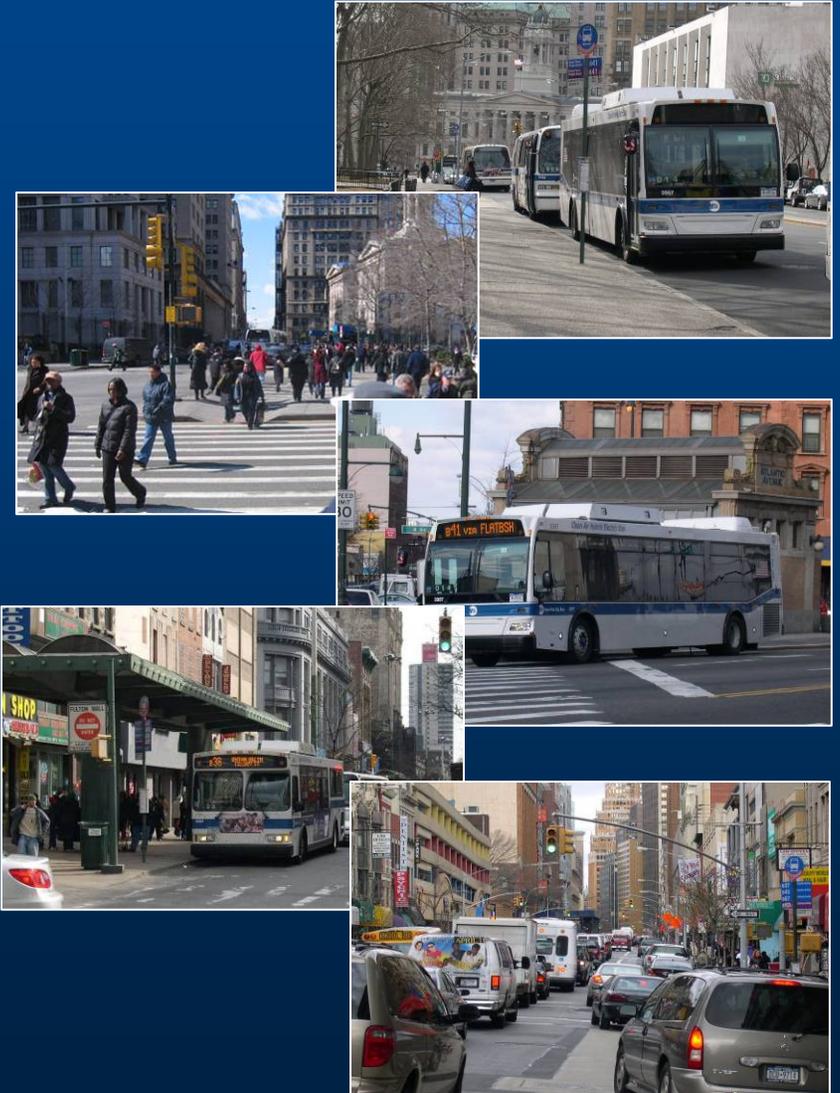
Public Meeting  
November 18, 2009



**URS**

# Agenda

- Introduction
- Project Goals and Objectives
- Review of Existing Conditions
- Future Development
- Improvement Options
- Questions and Discussion



# Project Goals and Objectives

## Goal #1

- Maximize Effectiveness of the Study Area's Surface Transit Network to Provide Improved Access and Mobility

## Objective

- Increase Quality of Transit Service Options



# Project Goals and Objectives

## Goal #2

- Provide Transit Connectivity Throughout the Study Area

## Objective

- Increase Transit Connectivity to All Significant Trip Generators Throughout the Study Area



# Project Goals and Objectives

## Goal #3

- Support the Economic Health of The Study Area

## Objective

- Increase Economic Attractiveness of Commercial- and Tourism-Based Land Uses



## Current Project Status

- Surveys Completed
- Existing and Future Conditions Report
- Development of Alternatives – In Process
- Public Involvement



# Project Approach

- Over 1,000 Survey, Focus Group and Stakeholder Interviews and/or Meetings
- Team Conducted Analysis of Ridership, Stop Locations, Existing Data on Traffic/Congestion Issues, Bus Service And Operations
- Steering Committee and Stakeholder Committee Reviews and Meetings
- Public Input



## Existing Conditions: Problems Identified

- Parking Enforcement Issues
- Traffic Congestion and Bus Reliability
- Passenger Experience
- Fare Collection
- Pedestrian Issues
- Planning for Growth

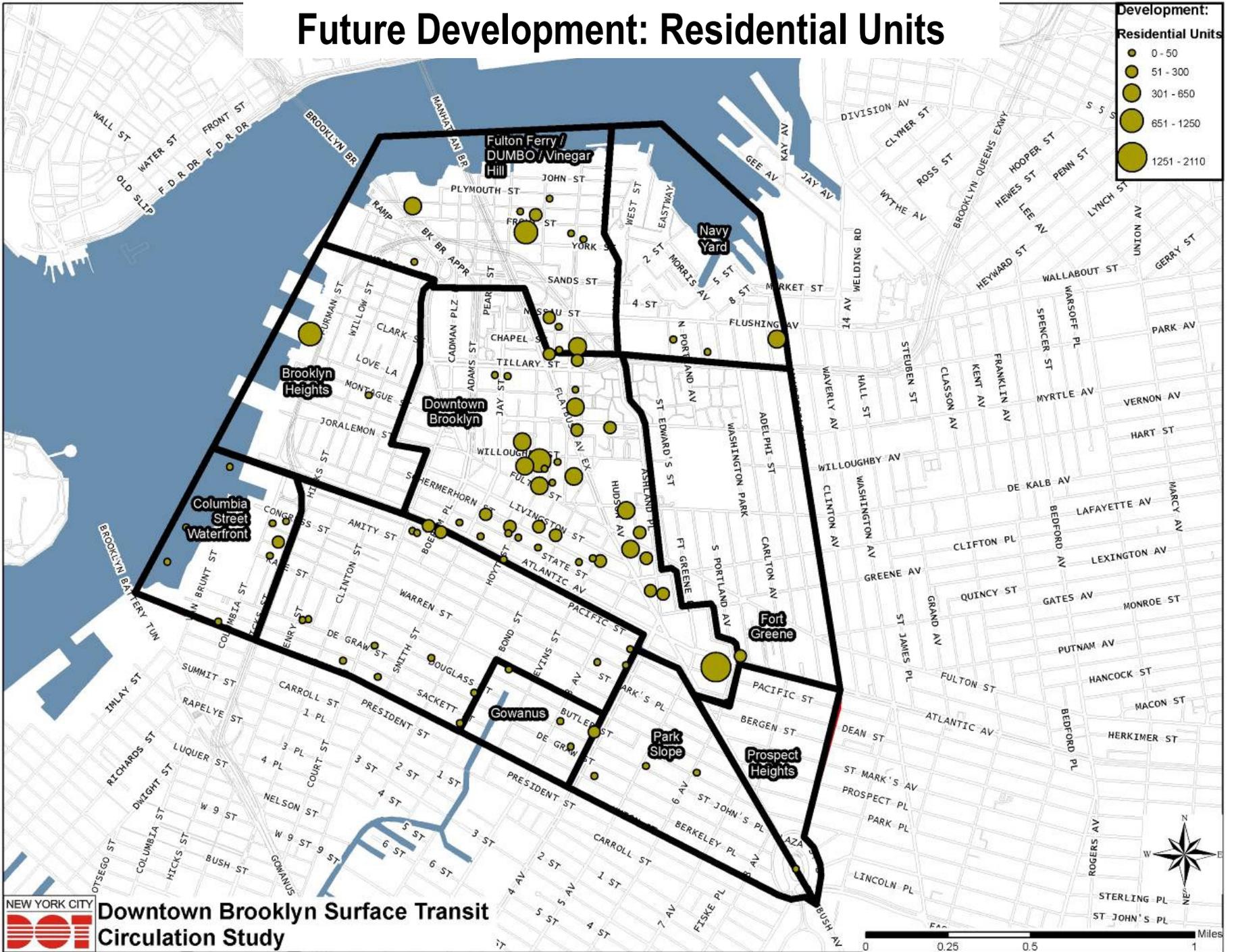
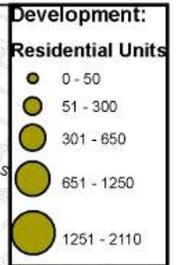


## Future Conditions

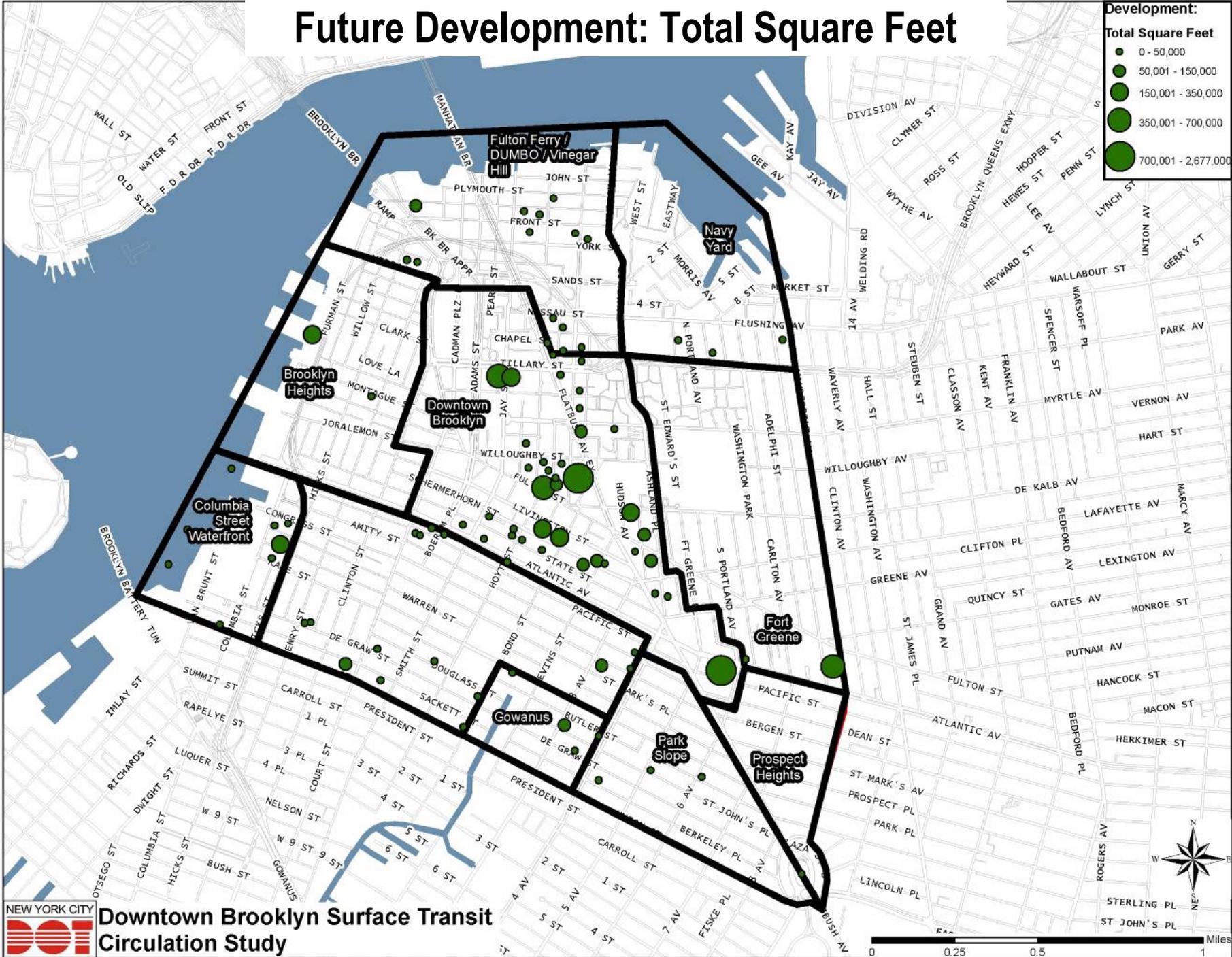
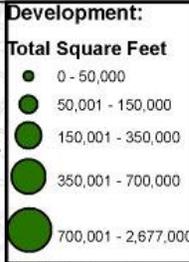
- Most Growth will Occur in Downtown Core Area
- New Growth in Fulton Ferry/Dumbo/Vinegar Hill
- More Than 13,000 New Residential Units and 2 Million Sq. Feet Additional Retail/Commercial Planned for 2015
- Daily Bus Ridership Expected to Increase by More Than 6,000 Passengers In Five Years



# Future Development: Residential Units



# Future Development: Total Square Feet



## Future Conditions: Trip Generation Results

		Additional 2011 Trips					
Use	Study Area	AM Peak Hour		Midday Peak		PM Peak Hour	
		Bus	Total	Bus	Total	Bus	Total
<b>Total</b>	Primary	155	3,068	323	4,974	306	4,914
	Secondary	20	420	27	564	29	604
	<b>Total</b>	<b>175</b>	<b>3,488</b>	<b>350</b>	<b>5,538</b>	<b>335</b>	<b>5,518</b>

		Additional 2015 Trips					
Use	Study Area	AM Peak Hour		Midday Peak		PM Peak Hour	
		Bus	Total	Bus	Total	Bus	Total
<b>Total</b>	Primary	677	9,956	1,573	15,771	1,565	15,747
	Secondary	605	9,061	928	13,703	980	13,535
	<b>Total</b>	<b>1,282</b>	<b>18,626</b>	<b>2,501</b>	<b>29,474</b>	<b>2,545</b>	<b>29,282</b>

## Potential Improvement Options

- Street Operations / Bus Reliability
- Bus Stop Access
- Passenger Experience
- Fare Collection
- Growth Areas



# Street Operations / Bus Reliability: Bus Priority

- Bus Priority
  - Queue Jumper / Transit Signal Priority
  - Extend Bus-Only Lane Hours
  - Add Additional Bus-Only Lanes
  - Bus-Only Corridors



Bus Only Lane  
34<sup>th</sup> Street, Manhattan

## Street Operations / Bus Reliability (Continued)

- Parking Enforcement
- Consolidate Bus Stops
- Sawtooth Bus Parking
- Transit One-Way Couplets
- Circulator and/or Shuttle



Sawtooth Bus Stop  
IKEA Plaza, Brooklyn

# Pre-Boarding Experience

- Pedestrian Prioritization
  - Lead Pedestrian Intervals
  - Longer Pedestrian Phases
  - Shorter Pedestrian Crossings
  - Median
  - Closing Travel Lanes
  - Pavement Painting



Curb Extension  
Mulry Square, Manhattan



Median Refuge Island  
Vanderbilt Avenue, Brooklyn

# Pre-Boarding Experience

- Improve Information
  - Signing of Bus Stops
  - Wayfinding Signage
  - Bus Arrival Time Information
  - New Mobility Hubs
- Shelters at Stops
- Shelters Further From Curbs
- Seating at Stops
- Schedule Posting / Managing Date of Schedule



Real-Time Bus Arrival Information  
34<sup>th</sup> Street, Manhattan



Typical NYCT Bus Shelter  
23<sup>th</sup> Street & 8<sup>th</sup> Avenue, Manhattan

# Fare Collection

- MetroCard Purchasing
  - On-Street Ticket Vending Machines
  - Information About Nearby Vendors
- Time of Day Pricing
- Smartcards
- Off-Board Fare Collection



On-Street Fare Collection Machines,  
Pelham Pkwy & White Plains Road, The Bronx

## Growth Areas

- Extend Existing Service
- Splicing Service
- Additional Service



# Questions and Discussion of Improvement Options

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