

Commissioner Janette Sadik-Khan NYCDOT, Traffic Planning





Situdy Background

- Development Pressures/Discretionary Actions
 - Home Depot (Cropsey Avenue) 2000
 - MCU Park (formerly Keyspan Park) 2001
 - Oceana Residential Development (approx. 900 DUs)
- Anticipated growth from new developments
- Observed congestion accessing the peninsula
- Community request to address congestion
- Need to coordinate planning initiatives in the area

Introduction



Sustainable Development a definition...

" (It) is development that delivers basic environmental, social, and economic services to all, without threatening the viability of the ecological and community systems upon which these services depend."

The Local Agenda 21 Planning Guide, UNEP



Study Goal

To develop and implement a plan that supports growth, is compatible with community needs, addresses community concerns, and promotes mobility and safety.



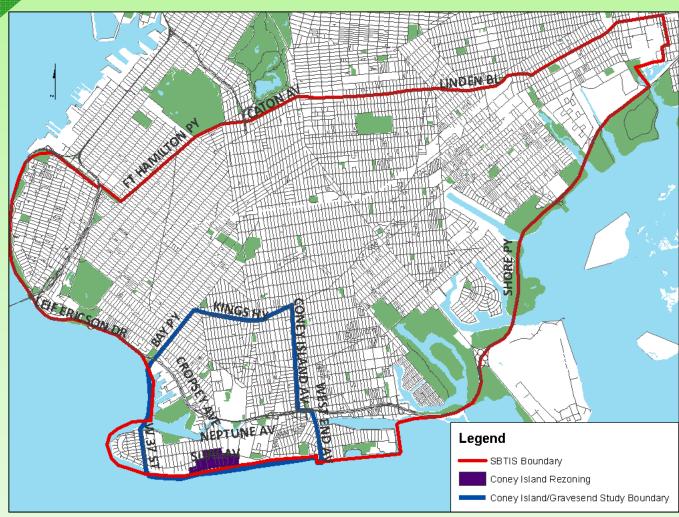


- To examine the spatial distribution and intensity of land uses and its implication for transportation
- To identify the travel and traffic characteristics
- To analyze the existing and future traffic and transportation conditions
- To develop recommendations to reduce vehicular congestion, improve safety, and facilitate public transit/alternative modes
- Facilitate cooperation among communities and agencies.



Introduction

Sub-Regional Context





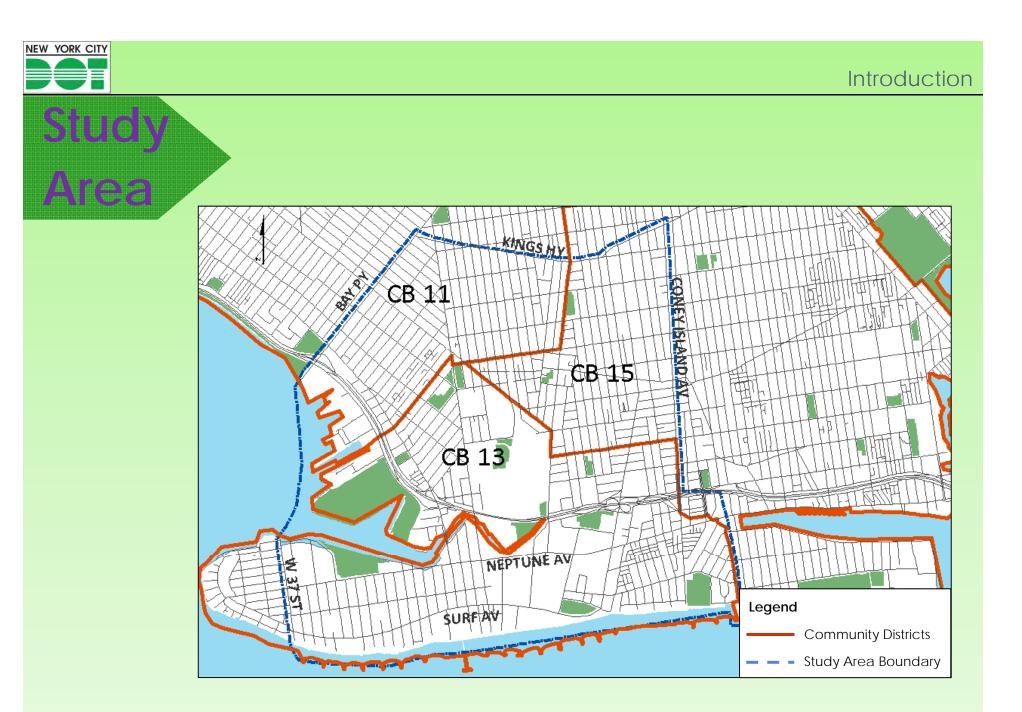
Southern Brooklyn Transportation Investment

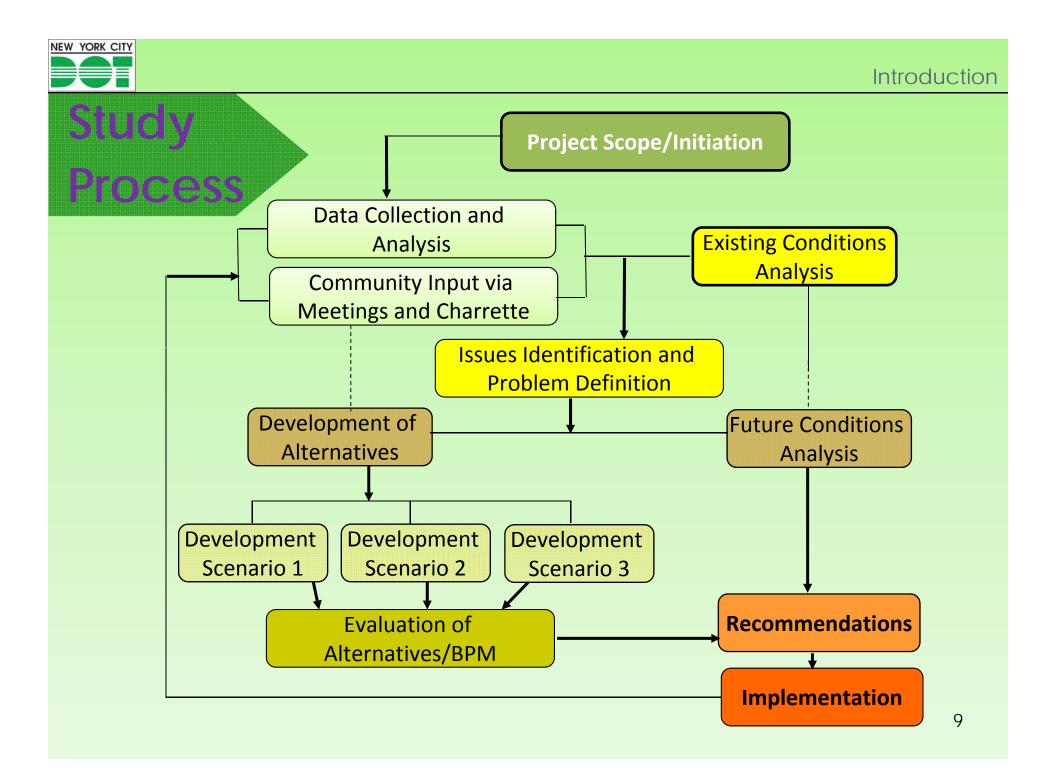
Scenarios

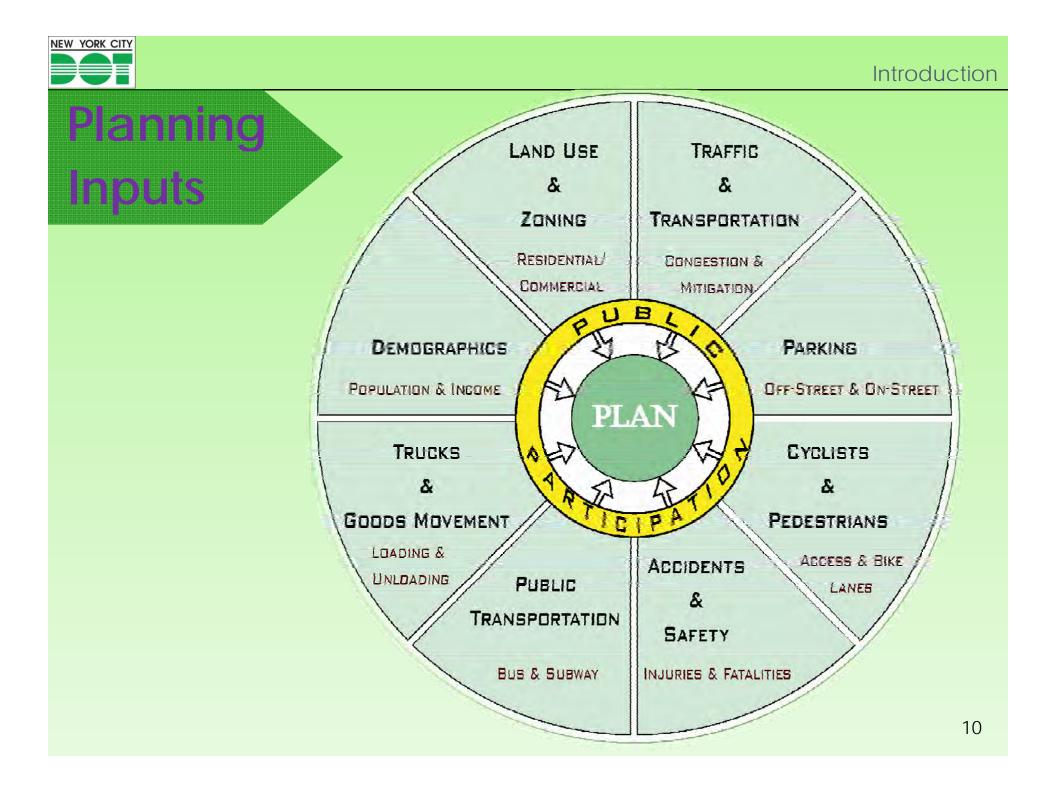
- Bus Priority Measures
- Passenger Ferry Service
- Grade Separation (Flatbush Ave/Ave I)
- JFKIA Truck Freight Ferry
- Subway Improvements
- Downtown Brooklyn Regional Bus Terminal
- Bus Rapid Transit
- Non-motorized modes

Goals

- Improve efficiency of region's transportation system for travel within the study area and beyond
- Expand/extend the existing transit system to underserved, unserved, and growing areas
- Improve existing transportation systems to encourage more efficient movement of people and goods
- Manage system-wide congestion
- Improve quality of life and address environmental issues.







Introduction



Existing & Future Analysis - Traffic & Transportation • Bu

- Bus/Subway service supply/demand
- Traffic Capacity
 - Intersection Analysis 53
 - Corridor Analysis 14
 - Pedestrian Analysis 32
- AM, Midday, PM, and Saturday Midday Peak Hours
- Summer counts at selected locations



PTTOTO

Participation -Stakeholders and Process

- Elected Officials
- Community Boards 11, 13, & 15
- Civic Associations
- General Public
- Technical Advisory Committee
- Visioning sessions
 - Identify issues and any problem locations
- Progress Meetings



Public Participation

Community Issues

- Provide a new exit from BeltParkway between CropseyAvenue and Ocean Parkway
- Improve bus service in the area linking all communities on the peninsula and other key destinations
- Provide ferry service to the Rockaways and Manhattan
- Enhance commercial development around Stillwell Avenue station



Future Conditions Analysis (2015/2025)

- Scenarios
 - Four transportation
 - Three land use (BPM)
- Traditional Analysis (HCS)



Scenarios

Transportation & Land Use Scenario Matrix

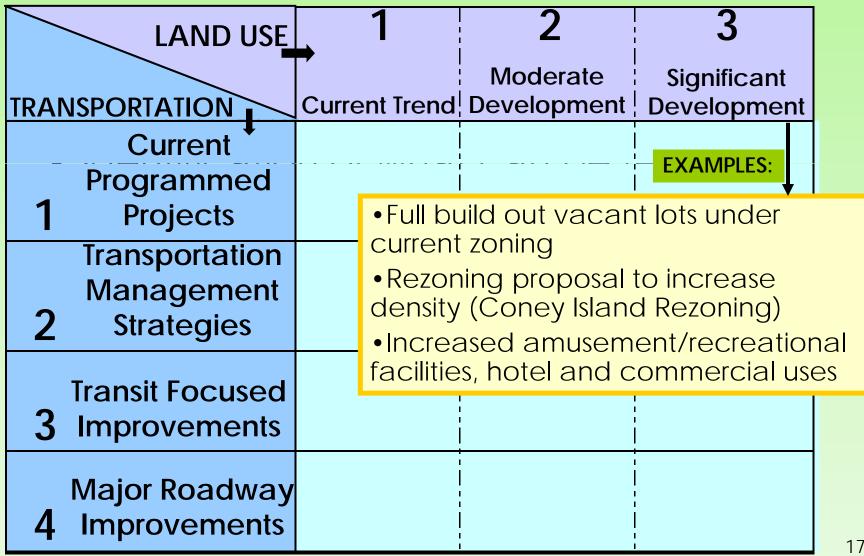
	1	2	3
		Moderate	Significant
TRANSPORTATION	Current Trend	Development	Development
Current *			
Programmed			
1 Projects			
Transportation			
Management			
2 Strategies			
Transit Focused			
3 Improvements			
J improvements		 	
Major Roadway			
4 Improvements			
4 improvements			



Transportation Scenarios

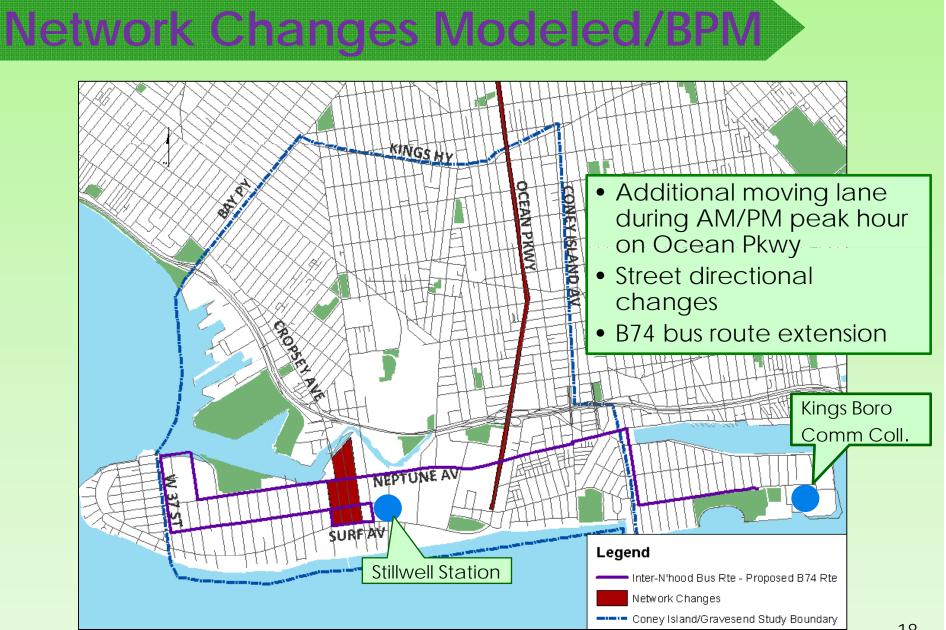
	LAND USE	1		2	3		
TRAI	NSPORTATION	Current Trend		Moderate Development	Significant Development		
	Current ⁺						
1	Programmed Projects		•Ferry service between Coney Island and the Rockaways and/or Manhattan				
2	Transportation Management Strategies	EXAMPLES	 Inter-Neighborhood Transit (Bus service between Coney Island, Brighton Beach, and Manhattan 				
	Transit Focused	÷	Beach				
3	Improvements						
	Major Roadway	EXAMPLE: • New Belt Parkway exit ramp at Stillwell Avenue				o at	
4 Improvements					16		







Scenarios





Coney Island Rezoning+ Land Use Scenario 3

EIS Proposal

- Residential 2,408 units
- Entertainment 251,500 gsf
- Themed, Destination, and Local Retail 655,630 gsf
- Hotel 606 rooms
- Amusement Park (Active) 261,360 gsf
- Amusement Park (Passive) 3.0 acres
- Parking 6,830 to 8,830 accessory spaces

In-Fill Development

- Full build out of vacant lots
- Increased Amusement/Recreational Activities



Existing/Future Conditions Analyses Findings

- Significant growth in Coney Island and steady growth with minor land use changes outside rezoned area
- Parking shortfall in areas where commercial and amusement activities are concentrated – Brighton Beach Ave, 86 Street, Surf Ave, and Kings Highway
- High pedestrian volumes in commercial and entertainment areas – Surf Avenue, Brighton Beach Avenue, 86th Street, etc.
- Fairly accessible public transportation (bus and subway)
- Existing traffic 35% of intersections had LOS D or worse during one or more peak hours
- Future traffic more than 50% of intersections would operate at *LOS D* or worse during one or more peak hours.

Findings



Developments and Congestion

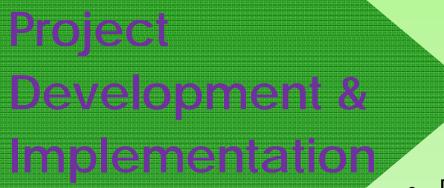




Main Planning Recommendations

- Roadway/Intersection Capacity Enhancements
- Street directional changes
- Redesign Signals (Timing and Phasing Plans)
- Installation of Bicycle Facilities
- Signs and Marking Changes
- Parking Regulation Changes
- Safety Improvements





- Bay Parkway & Cropsey Avenue
- Neptune Avenue & Cropsey Ave/West 17th Street



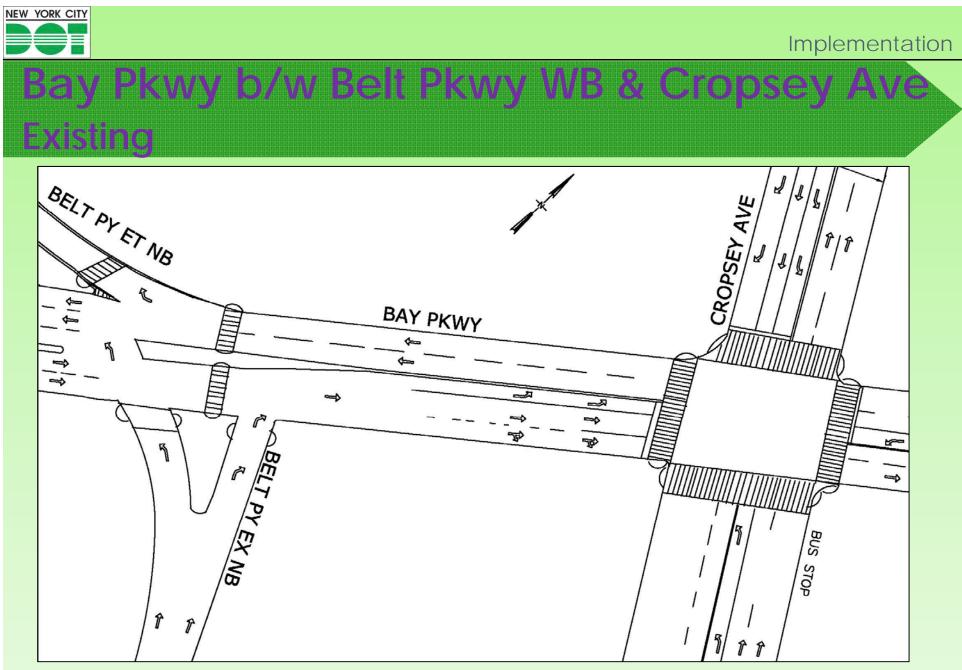
Bay Pkwy b/w Belt Pkwy WB & Cropsey A

Problems:

- Congestion
- Geometric constraints
- Traffic controls (signal coordination)

Solution:

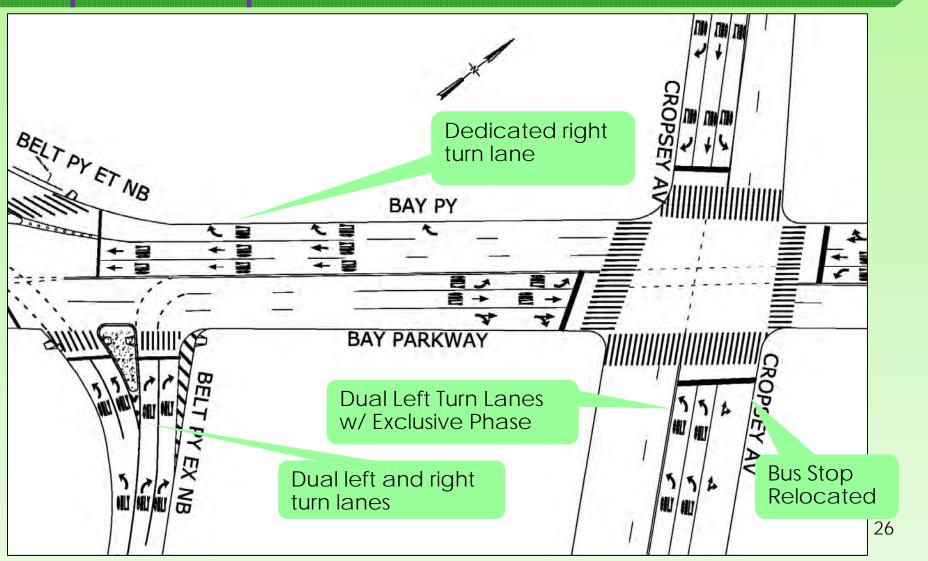
- Roadway changes
- Signal redesign
- Signs and markings





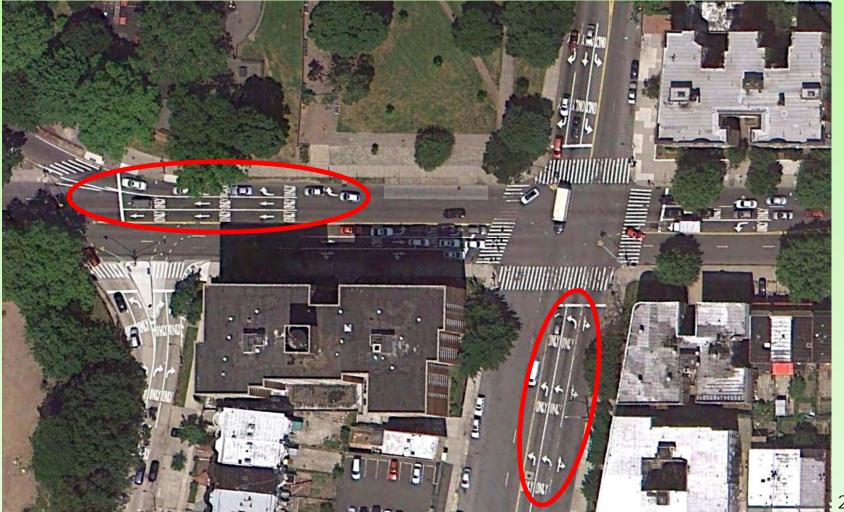
Bay Pkwy b/w Belt Pkwy WB & Cropsey Ave

Proposed/Implemented





Bay Pkwy b/w Belt Pkwy WB & Cropsey Av posed/Implemented



27



Bay Pkwy b/w Belt Pkwy WB & Cropsey Ave





28



Neptune Ave & Cropsey Ave/West 17 St

Problems:

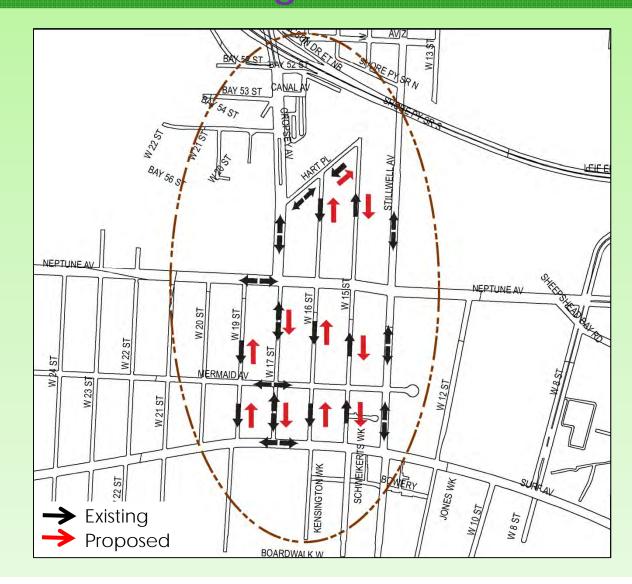
- Congestion
- Pedestrian Safety

Solutions:

- Street direction changes
- Signals redesign
- Restriping

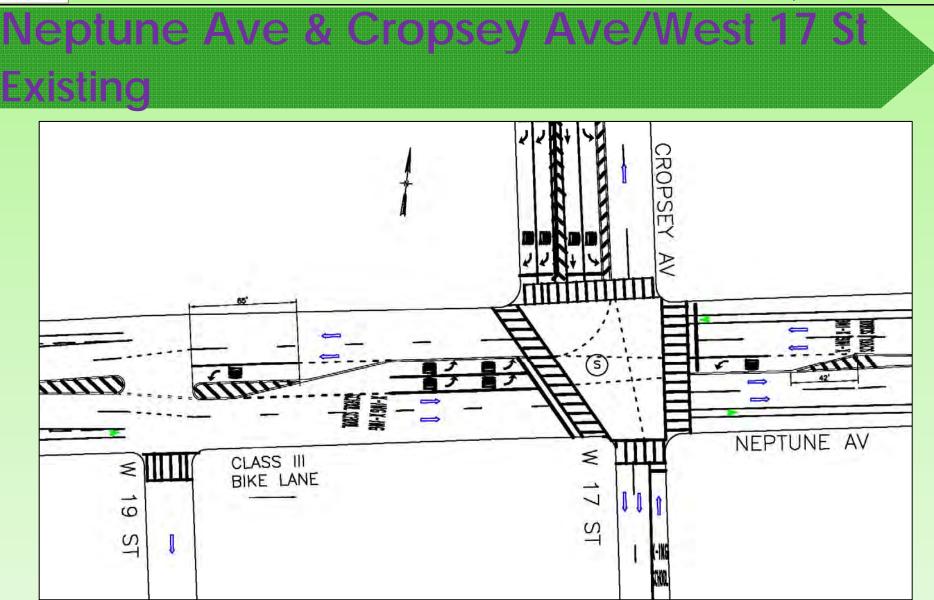


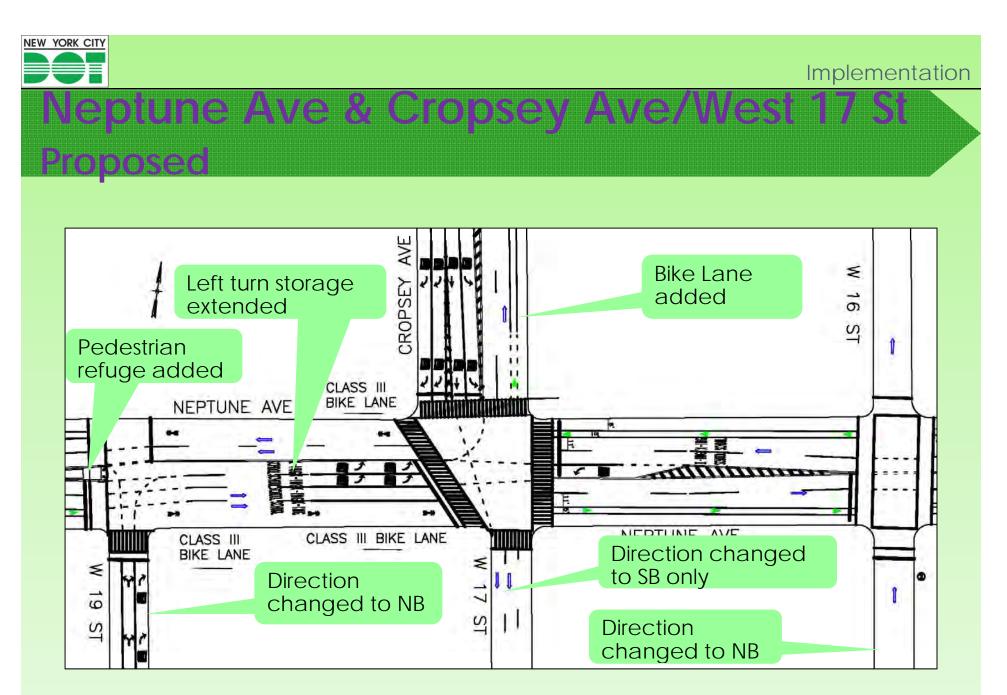
Neptune Ave & Cropsey Ave/West 17 St Street Directional Changes



30

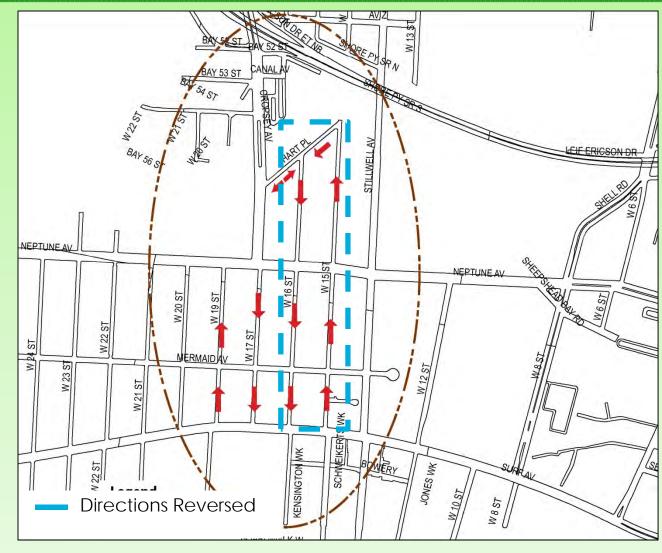








Neptune Ave & Cropsey Ave/West 17 St Post Implementation



33



Neptune Ave & Cropsey Ave/West 17 St



Conclusion



Challenges...

- Planning process
- Community support & opposition
- Constrained network configuration
- Transportation modeling
- Simulating the optimization of the land use/transportation mix
- Challenges resolving long-term and shortterm objectives

Conclusion



Conclusions....

Public Participation

• support and opposition

Traffic congestion and the need to:

- Balance pedestrian needs v. need to process vehicles
- Improve capacity to ensure demand is in balance with development density



Thank you!

Questions??