

TRAFFIC CALMING

Empire Boulevard between Utica and Bedford Avenues June 22, 2009

Presentation for Community Board 9
Commissioner Janette Sadik-Khan
Office of Research, Implementation & Safety



Why are we here?

- Community concerns over speeding, pedestrian safety and desire for traffic calming
- Empire & Troy was one of NYC's Top 20 High Pedestrian Crash Locations in 2007

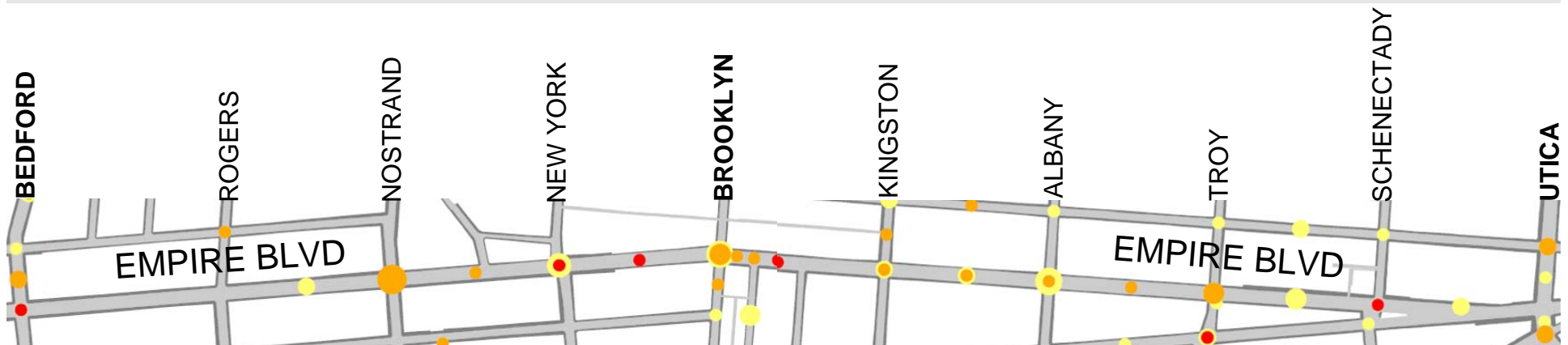
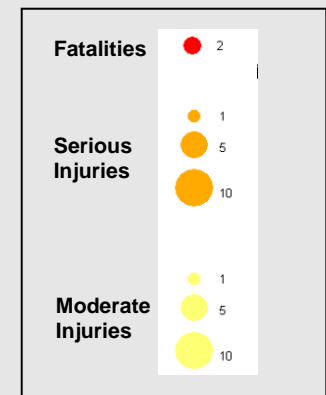


Proposal aims to:

- 1) Improve Pedestrian Safety and Comfort
- 2) Calm Traffic
- 3) Improve the Streetscape

Background Data

- Empire & Troy 2007
 - 7 crashes
 - A Top 20 High Pedestrian Crash Location (tied for 2nd)
- Empire Blvd 1997-2007
 - 6 Fatalities
 - 33 Serious Injuries
 - High proportion of mid-block crashes



Speeding

- Major factor in pedestrian injuries is speeding
- Small changes in speed lead to large differences in injuries
 - When a pedestrian is struck
 - At 20 mph = 5% chance of dying
 - At 30 mph = 45% chance of dying
 - At 40 mph = 85% chance of dying

Empire Blvd - 85% Percentile Speeds

	Bedford-Rogers		New York-Nostrand		Brooklyn-Kingston		Albany-Troy		Utica-Schenectady	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
1-3 pm	31	31	38	26	34	30	33	29	37	31
3- 5 pm	30	28	32	26	34	31	39	27	35	30
5-7 pm	37	33	35	32	33	31	36	34	37	35
7-9 pm	36	34	36	35	39	32	38	34	34	31

Causes of Speeding

- **Empire Blvd is nearly twice the necessary width** for the traffic volume it currently handles
- Excess capacity encourage high speeds
- From Bedford to Schenectady on Empire, average peak traffic was approximately 600vph in each direction

Other Safety Problems



60' road = long crossing:

- 12 seconds to cross for typical adult
- 20 seconds for seniors and children

No raised medians to shelter crossing pedestrians

Pedestrian Traffic

Empire Blvd and Troy Ave

- Pedestrian traffic peaks in the morning and during school dismissal times
- Crashes were distributed evenly throughout the day and night
- Crashes result from unsafe street environment, rather than high pedestrian volumes

7:45am – 8:45am	350 street crossings
2:45pm – 3:45pm	525 street crossings

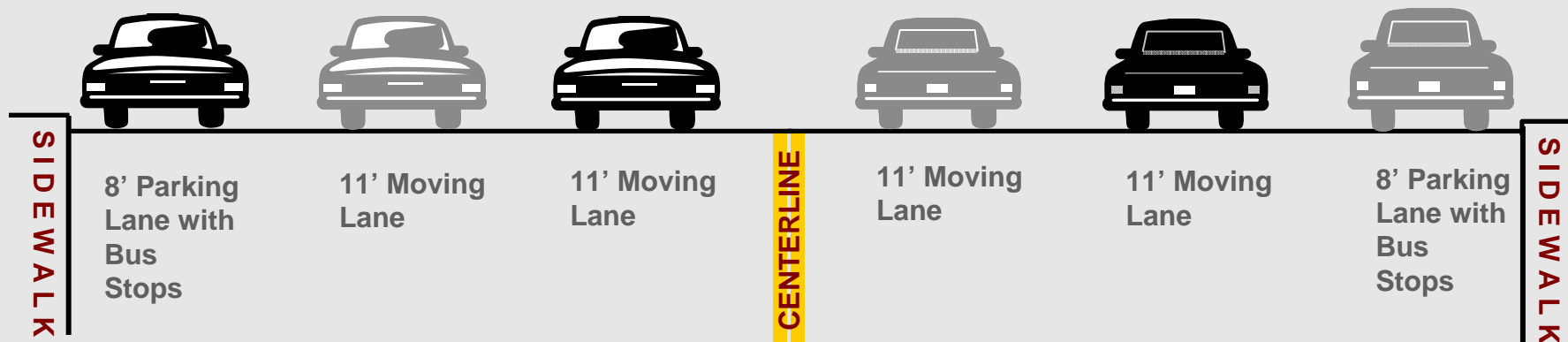


Proposed solution

- **Road Diet**

- Empire Blvd reconfigured to one moving lane in each direction
- Bike lane installed in each direction
- Narrowed road reduces speeding
- Vehicles turning onto Empire Blvd. are slowed by reduced roadway width
- Left turn bays reduce delays for through movements
- Four raised and protected pedestrian islands to facilitate safe crossings
- Trees and landscaping add to streetscape
- All parking spaces are preserved

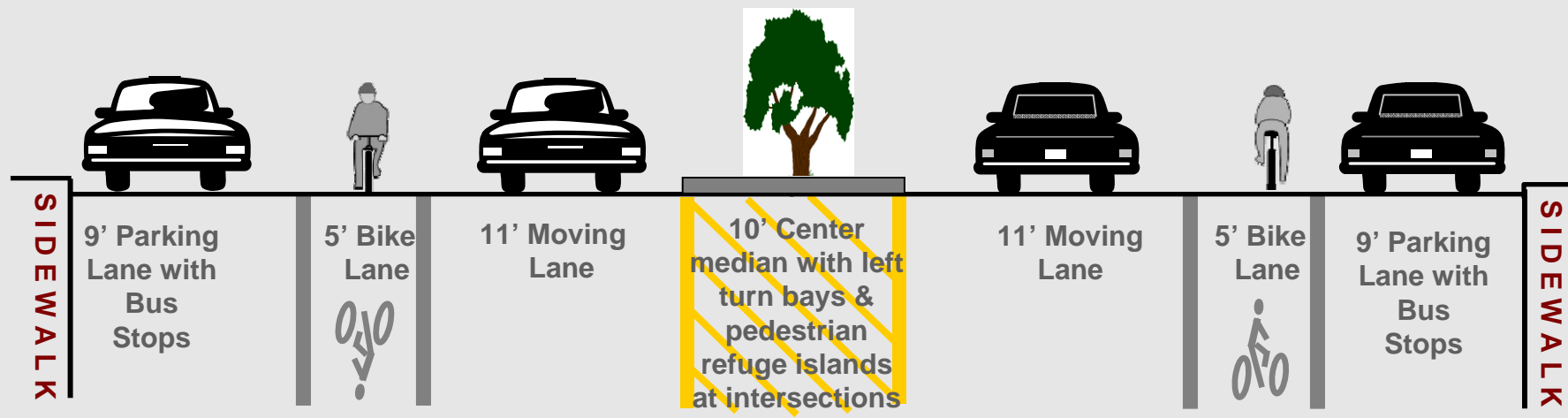
Empire – Existing Conditions



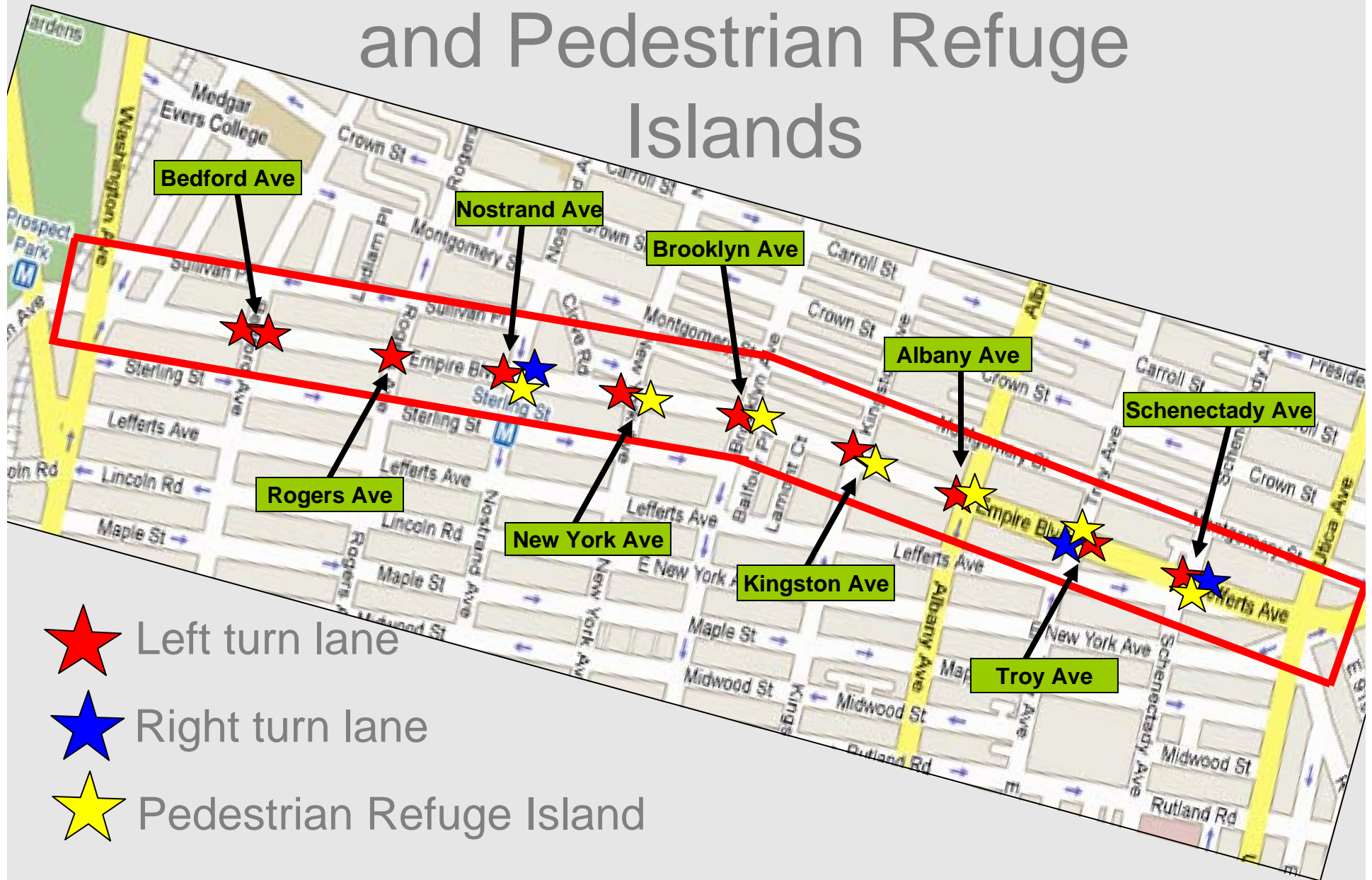
Empire - Proposed Design



Broadway, Williamsburg



Right & Left Turn Lanes and Pedestrian Refuge Islands



Vanderbilt Avenue Traffic Calming Project (July 2008)

- Speeding
 - 21% decrease in average speeds
 - 64% decrease in number of speeders
- Crashes
 - 22% reduction in injuries since implementation



Clarendon Road Traffic Calming Project — July 2008

- Speeding
 - 20% decrease in average speeds
 - 50% decrease in number of speeders
- Crashes
 - 25% decrease in pedestrian crashes



Thank You!

Questions and Comments

<http://www.nyc.gov/html/dot/html/home/home.shtml>

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