Senior Pedestrians

- 62% decrease in pedestrian fatalities in NYC since 1990
- Pedestrians still make up half of all traffic fatalities
- 12% of the population in NYC are seniors but 36% of pedestrian fatalities are seniors

Source: 2006-2010 NYCDOT-NYPD Fatality Database; 2010 U.S. Census
Hamilton Heights Senior Area

- Two main projects in the area:
  - Broadway and W 155th intersection safety improvements
  - Left turn ban at W 155th and Amsterdam

- General improvements throughout the area
Senior Pedestrian Issues

- Not enough time to cross the street
- Broken or missing pedestrian ramps
- Faded and hard-to-see markings
- Turning vehicles failing to yield
- Insufficient pedestrian signal heads

Pedestrian signal is 100 feet away
Wide streets
Typical Improvement Measures

- Modify signals to accommodate a slower walking speed (3ft/sec)
- Install countdown signals for pedestrian crossings
- Refurbish markings
- Install high visibility crosswalks and advanced stop bars
- Repair broken curbs and pedestrian ramps
- Replace missing and upgrade existing signs
- Standardize travel lane widths with traffic calming techniques
Broadway and W 155th St

- NYPD identified as Accident Prone Location (APL) with requests for improvements.
- Twice as many pedestrian injuries while the pedestrians were crossing with the signal as compared with average for the rest of Manhattan.
Site Improvements: Broadway and W 155

Proposal

- Add truffle paint and sign base blockbuster on the northwest corner of W155th St to further reinforce DO NOT ENTER signage
- Add southbound left turn lane on Broadway to organize turns and shorten crossing distance on south side of intersection

Benefits

- Narrows crossing distance across West 155th by half
  - Reduces likelihood of “crossing against signal” injuries
  - Shifting eastbound moving lanes to the correct side of West 155th at the intersection better organizes traffic

Existing Conditions: Westbound W155th St & Broadway has illegal u-turns

Proposed design with shortened crossing distance

Proposed Configuration: Existing blockbuster at 110th St and Amsterdam
Site Improvements: Broadway

- Install channelization around island at W 157th Street
- Install parking stripe on Edward Morgan Place between W156th & W157th Streets
- Upgrade to high visibility crosswalks throughout site
- Install pedestrian countdown signals
- Install new signal heads on median at high crash intersections (complete)
Northbound left turn ban from Amsterdam Avenue onto W155th Street

- Over 40% crashes were left turns
- Low left turn volume (28 cars at peak hour)
- 80% pedestrian injuries were crossing with signal

Now: Only EB traffic between Riverside Dr and Broadway

OPTION 1

OPTION 2

Senior Pedestrian Injuries 2006-10

Pedestrian Injuries 2006-10

Total Injuries 2006-10

2006

2006

2006
Site Improvements: Amsterdam

- Install parking lane stripe from W 159th St to W 162nd St
- Reconstruct pedestrian ramps throughout site
- Add pedestrian countdown signals
- Upgrade to high visibility crosswalks throughout site
- Install advanced stop bars throughout site
Site Improvements: St. Nicholas

- Install painted center median with left turn bays (where feasible) from W155 to W159 Street and between W164th and 165 Street
  - Helps narrow moving lanes to calm traffic; reduces speeding
  - Reduces right angle crashes
  - Organizes left turns
  - Maximizes pedestrian visibility
- Reconstruct pedestrian ramps throughout site
- Upgrade to high visibility crosswalks throughout site

St Nicholas St & 157th St: 15 feet lanes
Painted median with turn bays along Schnectady (BK)
Mary McLeod Bethune Senior Center, Amsterdam Ave & 157th St

Church on the Hill, Amsterdam Ave & St Nicholas Ave

Many potential CityBench sites along bus lines

Broadway and W 163rd St

St Nicholas Ave and 164th St
Project Timeline

- **Study began**: Oct 2010
- **Initial recommendations submitted**: Nov 2011
- **Community feedback**: June 2012
- **Implementation goal**: Spring 2013
Questions?

Thank You

Contact: Manhattan Borough Commissioner's Office at (212)-839-6218