NYC Senior Pedestrians

- 12% of the NYC population are seniors
- 36% of NYC traffic fatalities are senior pedestrians
NYC Senior Population Increasing

Developed NYCDOT’s senior pedestrian safety program in 2008
Senior Pedestrian Issues

- Not enough time to cross the street
- Broken or missing pedestrian ramps
- Faded and hard-to-see markings
- Poor drainage or ponding in crosswalks
- Turning vehicles failing to yield
First 25 areas (2008):
• Severe injury maps used for selecting top priority senior pedestrian focus areas
NYCDOT Toolbox of Improvements

Daylighting: Better driver-pedestrian visibility

Countdown Signals: Tell pedestrians how much more time they have to cross

Signal Timing: Can add more time to cross where possible

Pedestrian Safety Islands: Shortens crossings on wide streets, provides safer crossing

Road Diet: Organizes traffic, less speeding

Sidewalk Extensions: Shortens crossing distance, slows turning cars
Safety Improvements Near Transit

Sedgwick Av and W Fordham Rd, Bronx

- **17%** reduction in total injuries

Fordham/University Heights Senior Area

Before

After

Closed Slip Ramp, Extended Curbs

Added 2 Pedestrian Refuges

Bx12 SBS Stop
Safety Improvements Near Housing

Bowery, Manhattan
• Pedestrian injuries reduced by 50%

Chinatown Senior Area

Calmed Bowery traffic, shortened crossing at Division/Doyers Sts

Added planted median between Canal and Division

map of Chinatown/Lower East Side, Manhattan

Before

After

Hospital
Health Center
Nursing Home
Senior Center (DFTA)
NORCs (DFTA)
Senior Housing (HPD 202)
Subway Station Entrance
NYCHA Development

Seniors (65+) per Sq Mi

0 - 6400
6401 - 16810
16820 - 73920
Safety Improvements on High Crash Corridors

7th Ave and W 23rd St, Manhattan

- Pedestrian injuries down by 84%
- There were 93% fewer injuries for all users

Before

Modified signal timing to add protected pedestrian crossing

Installed two pedestrian safety islands

Created separated left turns

Midtown West Senior Area

After

Accessible Pedestrian Signal (APS) installed
Key Findings

Key Findings in Implemented Senior Projects

Allerton Ave in Pelham Gardens:
- 28% decrease in all crashes with injuries
- 11% decrease in all crashes

Bowne St in Flushing:
- 23% decrease in pedestrian injuries
- 43% decrease in all injuries

Rutgers Slip in the Lower East Side:
- 42% decrease in all crashes with injuries
- 60% decrease in all injuries

Hylan/New Dorp:
- 22% decrease in pedestrian injuries
- 11% decrease in all crashes

Fort Hamilton Pkwy in Borough Park:
- 10% decrease in all crashes
As of 2013, NYCDOT Safe Streets for Seniors has implemented:

- 600 Intersections with more time to cross the street
- 23 new traffic signals to provide safer pedestrian crossings
- 9 new stop controls installed to provide safer pedestrian crossings
- 13 Leading Pedestrian Intervals to provide conflict-free crossing time
- 130 pedestrian safety islands to provide safer crossings
- 14 curb extensions to shorten crossing distances
- 9 median tip extensions to provide safer crossings
- 4 full planted medians to enhance streetscape and provide safer crossings
- 11 turn restrictions to reduce pedestrian/vehicle conflict points
- 9 roadways narrowed to calm traffic
- 31 new left turn bays to better manage traffic flow
- 4 pedestrian areas to give pedestrians more street space
- 8 painted medians to calm traffic
- 4 sections of pedestrian fencing to discourage unsafe mid-block crossing and encourage pedestrians to use crosswalks
Results of Improvements – Senior Fatalities

NYC Senior Pedestrian Fatalities by Year

<table>
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<th>Year</th>
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<tr>
<td>2012</td>
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</tbody>
</table>

Since Safe Streets for Seniors
New areas identified build on previous methodology but involve new variables: trip generators, concentration of senior centers, and housing.

Working with DOT’s new City Bench program.
Working with NYC Seniors

Outreach Method for New Areas

- Working with the NYC Department for the Aging
- Coordinating with NYCDOT’s Safety Education Team
- Going into Senior Centers to get feedback
- Approaching Aging Committees on Community Boards for project ideas