VISION ZERO IN NEW YORK CITY

Progress and Strategies
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NEW YORK CITY IS A VISION ZERO CITY

The Key Principles

- Deaths and serious injuries on our roads are preventable.
  - The only acceptable number of people killed is zero.
  - Safe systems: our roads should be “forgiving” of human error.
  - We may not be able to stop every crash, but we can make the consequences of those crashes less severe.
  - And we say “crash,” not “accident.”

- Engineering, enforcement, education.

- Defying the national trend with a 26 percent decline in all fatalities, and a 42 percent decline specifically in pedestrian fatalities since 2014.
NYC TRAFFIC STATS

- NYC population of 8.5M residents
- 2.1M registered vehicles in NYC
- Over 6,000 miles of streets
- Over 40,000 collisions with injuries per year
- 222 traffic fatalities
  - 107 pedestrians
  - 24 bicyclists
  - 33 motorcyclists
  - 58 motor vehicle occupants
THE MEANING OF VISION ZERO

What does it involve?

• A multi-agency effort
• Data-driven and evidence-based
• Resourced
• Non-negotiable
• An ongoing process of cultural change
VISION ZERO TASK FORCE

Coordinated by the Mayor’s Office of Operations

- Biweekly collaborative meetings
- All agencies involved in management, procurement, usage, and law enforcement of roads or fleets in New York City
PLANNING AND PRIORITIES

- Data 2009-2013, pedestrian deaths and serious injuries
- Solicited community input at planning meetings
- Update to be released soon with more recent data
A FOCUS ON PRIORITY LOCATIONS

- Six percent of corridors were the site of 51 percent of ped KSIs
- One percent of intersections see 15 percent on ped KSIs
PEDESTRIAN SAFETY ACTION PLANS

• An in-depth plan customized to each borough
• Relevant to local residents
• Clear commitments to specific locations
REPORTING OUR PROGRESS

• Holding ourselves accountable for initiatives
• Revisiting priority maps with new data that reflects changes made under Vision Zero
Engineering
STREET SAFETY IMPROVEMENTS

A selection of DOT projects

- 392 unique safety engineering projects (and counting)
- 460 miles of protected bike lanes
- 435 miles of corridors retimed for 25 MPH speed limit
- Left turn traffic calming measures at 220 high-crash intersections
- Over 2000 leading pedestrian intervals (LPIs)
- Extra lighting added at over 1000 locations where injuries were higher in darkness
- Over 1500 new speed bumps
- Enhanced and high-visibility crosswalks
QUEENS BLVD 2015
Roosevelt Ave to 73rd St
Corridor Safety Improvements
QUEENS BLVD 2016

74th St to Eliot Ave
Corridor Safety Improvements
CHRYSTIE STREET 2016
Two-Way Protected Bike Lane
MYRTLE-WYCKOFF PLAZA 2016
Pedestrian Space Enhancement
SPEED MANAGEMENT

Possibly our most important tool

• 2014: Speed limit 25 on local streets
  • Small difference in speed = big change in stopping distance
  • Risk of pedestrian death halved

• Speed camera program
  • Speeding down 63% at locations with cameras
  • Hard-fought expansion
THE BOTTOM LINE ON REDESIGN

- This is a full-on, dedicated, funded commitment
- You can’t do a halfhearted Vision Zero
- The ethos permeates all work at DOT – not a separate nice-to-have extra!
- We listen to local communities and value their feedback, but safety will never be sacrificed
IN THE FUTURE

• Exploring new initiatives for seniors
  • Different situation: Have to prevent the crash, not just lessen its severity

• Pedestrians on limited-access highways
  • Addressing design flaws
  • Homelessness
  • Intoxication

• New mobility and pedestrian risks
  • AVs
  • E-bikes
  • Scooters
Enforcement
BACKGROUND

NYPD is the largest police department in the USA

- Total employees ~ 53,000
  - +36K uniformed
  - +15K civilians
  - +2K school crossing guards

- In 2017, NYPD issued:
  - 1M+ moving summonses
  - 8.8M+ parking summonses
# MOVING SUMMONSES

## 2017 vs 2016

<table>
<thead>
<tr>
<th>MOVING SUMMONSES</th>
<th>2017</th>
<th>2016</th>
<th>+/-</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>SPEEDING</td>
<td>149,955</td>
<td>137,260</td>
<td>12,695</td>
<td>9.25%</td>
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<tr>
<td>NOT GIVING ROW TO PED</td>
<td>51,765</td>
<td>42,385</td>
<td>9,380</td>
<td>22.13%</td>
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<tr>
<td>FAIL TO STOP ON SIGNAL</td>
<td>70,021</td>
<td>59,202</td>
<td>10,819</td>
<td>18.27%</td>
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<tr>
<td>IMPROPER TURNS</td>
<td>88,382</td>
<td>82,361</td>
<td>6,021</td>
<td>7.31%</td>
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<td>CELL PHONE</td>
<td>72,276</td>
<td>75,900</td>
<td>-3,624</td>
<td>-4.77%</td>
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<tr>
<td>TEXTING</td>
<td>63,610</td>
<td>46,632</td>
<td>16,978</td>
<td>36.41%</td>
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<tr>
<td>DISOBEY SIGN</td>
<td>189,561</td>
<td>194,391</td>
<td>-4,830</td>
<td>-2.48%</td>
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<tr>
<td><strong>Total Vision Zero Summonses</strong></td>
<td>685,570</td>
<td>638,131</td>
<td>47,439</td>
<td>7.43%</td>
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<tr>
<td><strong>Total Moving Summonses</strong></td>
<td>1,059,308</td>
<td>1,042,712</td>
<td>16,596</td>
<td>1.59%</td>
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<tr>
<td><strong>% of Vision Zero Summonses to Total Moving Summonses</strong></td>
<td>65%</td>
<td>61%</td>
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VISION ZERO ENFORCEMENT

Focus on the most dangerous driving behaviors

1. Speeding*
2. Failure to yield*
3. Traffic signal violations
4. Improper turns
5. Disobeying signage
6. Phoning/texting while driving*

*Special focus beginning in 2017
RIGHT OF WAY LAW

• City Hall passed the law, Administrative Code 19-190, in August 2014
  – Criminal and civil penalties for drivers who injure or kill pedestrians or bicyclists who had the right of way.
  – Average ~ 35 arrests per year
# DUSK AND DARKNESS INITIATIVE

Data-driven partnership: NYPD, DOT, TLC

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<tbody>
<tr>
<td>Pedestrians</td>
<td>52</td>
<td>69</td>
<td>-24.6%</td>
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<tr>
<td>MV Operators</td>
<td>9</td>
<td>17</td>
<td>-47.0%</td>
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<tr>
<td>MCY Operators</td>
<td>5</td>
<td>4</td>
<td>+25.0%</td>
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<tr>
<td>Passengers</td>
<td>6</td>
<td>7</td>
<td>-14.2%</td>
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<tr>
<td>Bike</td>
<td>3</td>
<td>3</td>
<td>0%</td>
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<tr>
<td>Total Fatals</td>
<td>75</td>
<td>100</td>
<td>-25.0%</td>
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MOVING FORWARD

- Neighborhood Policing
- Utilization of auxiliary officers
- Trucks and buses
- Outreach Team
- AC 19-190
Education
VISION ZERO STREET TEAMS

Partnership between NYPD and NYC DOT

- One week of education followed by one week of enforcement along high crash corridors
OUTREACH PROGRAMS

Seniors

Pedestrians age 65+ are 14% of the population, but about 50% of pedestrian fatalities
OUTREACH PROGRAMS

Safety education in over 1300 priority area schools
CITY FLEETS

Leading by example

- 80,000 authorized driving employees, 30,000+ vehicles
- 11,015 City fleet operators trained in defensive driving in 2017 alone
  - Over 40,000 during VZ
- Installing sideguards on all heavy trucks - 2000th recently installed!
- Safe Fleet Transition Plan
  - 450+ vehicles with automatic braking systems
FOR-HIRE VEHICLES

New York City’s largest fleet

- Taxi School has mandatory Vision Zero component
- New driver fatigue prevention rules
- Annual Honor Roll recognition for safest drivers
STRATEGIC COMMUNICATIONS

Again, follow the data – research tells you what resonates

“Your Choices Matter,” 2014-17

“Signs,” 2017-
STRATEGIC COMMUNICATIONS

Make them inclusive, straightforward, and ubiquitous
Wrapping it up
OVER-ARCHING PRINCIPLES

Strategies for Implementation Anywhere

• Eliminate agency silos
  • Incorporate every agency that has work related to engineering, enforcement, and education
  • Cast a wide net

• Follow the data
  • Review and revise
  • Make it relevant to your residents

• Strong leadership essential
  • What works isn’t always popular
  • Commit to it

• Have reasonable expectations
  • Progress isn’t always linear
  • Culture change is difficult and takes time

• Gather your advocates
  • Don’t let your conflicts overshadow the fact that you have the same goal
THANK YOU!

Questions?