



Automated Enforcement in NYC: An Update

Research on the Road

November 29, 2023



Agenda

Speed Camera Program

- Background
- Trends: violations, speeds, and injuries
- Impact of 24/7 operation

Red Light Camera Program

- Background
- Violation trends

Speed Camera Program: Background

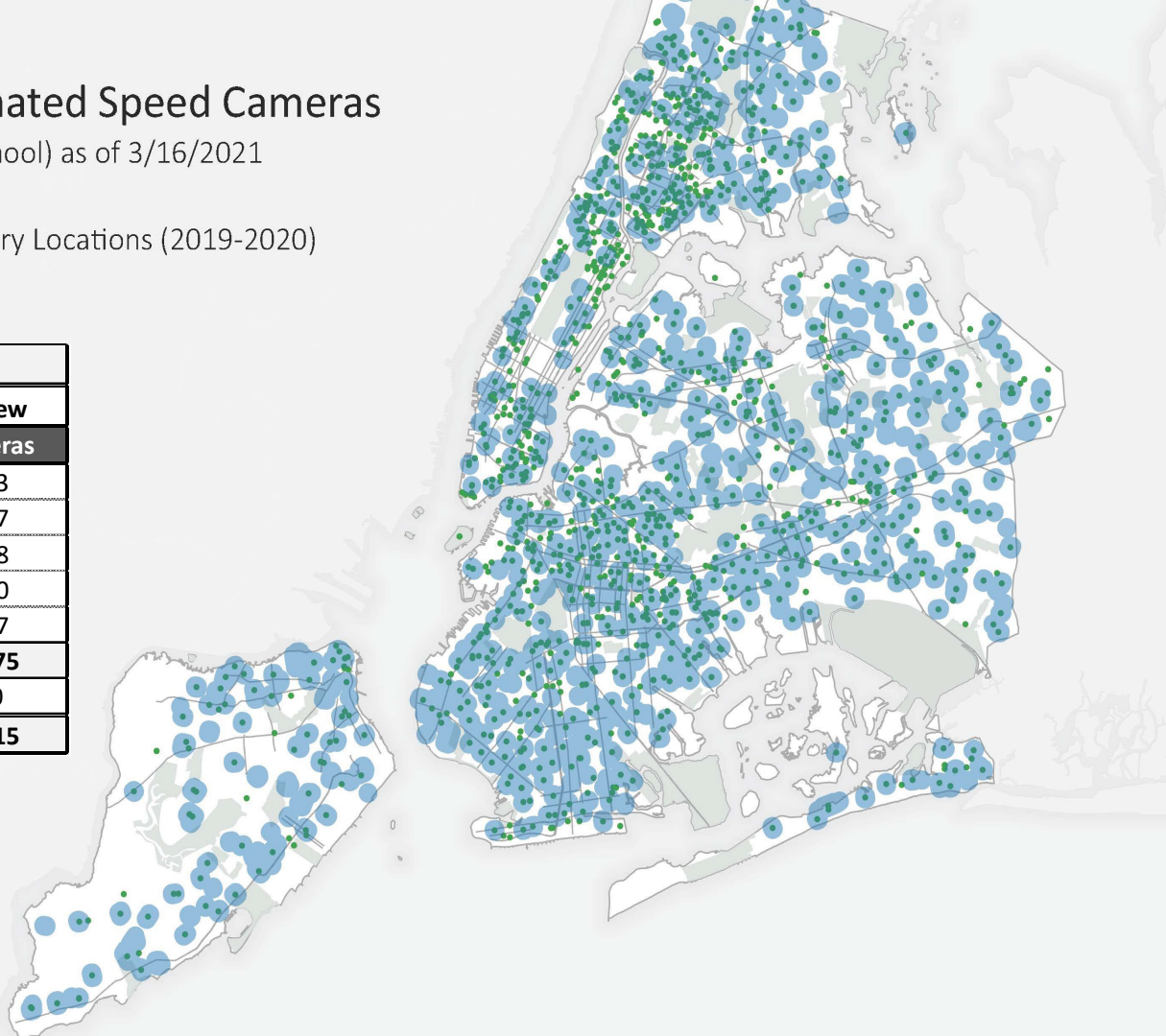
- **2013:** speed camera pilot in 20 school zones
 - ¼ mile linear distance on street abutting school entrance
 - One hour before/after school hours and student activities
 - \$50 violation to vehicle owner
- **2014:** expansion to 140 school zones
- **2018:** expansion to 290 school zones
- **2019:** expansion to 750 school zones
 - Hours extended to 6 am-10 pm weekdays only
 - Includes 40 mobile cameras
- **2022:** 24/7 operation begins



School Zones with Fixed Automated Speed Cameras

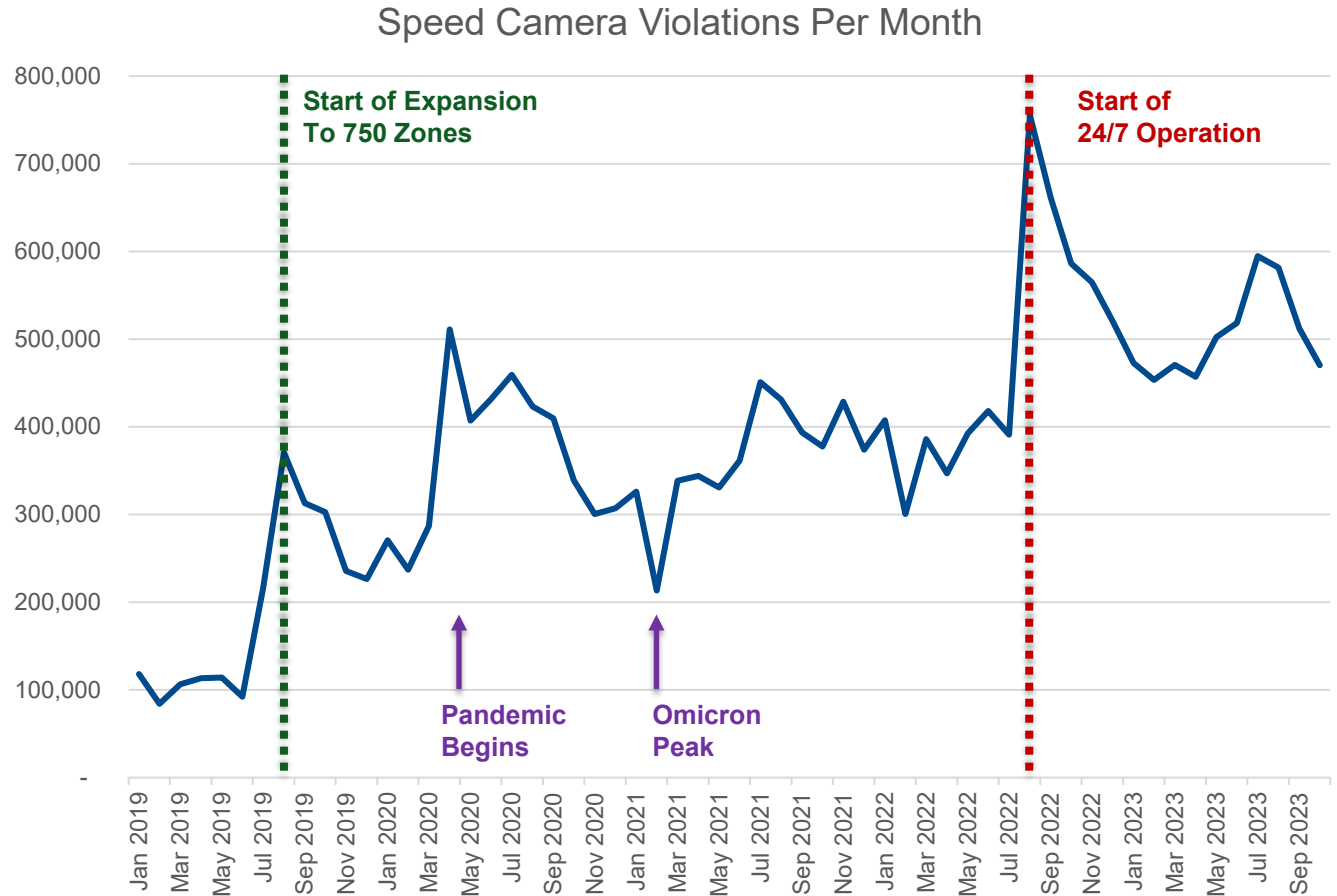
- Zones (1/4 Mile Radius from School) as of 3/16/2021
- Vision Zero Priority Corridors
- Public and Charter School Primary Locations (2019-2020)

Fixed Speed	Activated	
Summary	Total Existing & New	
	School Zones	Cameras
Manhattan	55	203
Bronx	102	327
Brooklyn	239	758
Queens	228	690
Staten Island	86	197
Citywide Fixed Total	710	2,175
Mobile Speed Van	40	40
Citywide Total	750	2,215



Violation Trend: 2019-2023

- Expansions result in brief increases in violations
- Followed by steep drop-off as drivers slow down
- Drop in violations during pandemic due to lower traffic volumes



Speeding Reductions

Program consistently effective at reducing speeding

- As of December 2021, speeding at fixed camera locations decreased 73%

Most vehicles get fewer than two tickets

- Since program inception, 65% of vehicles have received only 1-2 violations

Updated analysis forthcoming using 2022-2023 data

Hillside Avenue



Dec 2021	First Month
115	1279

-91%

Amboy Road



Dec 2021	First Month
25	201

-88%

Ocean Avenue



Dec 2021	First Month
70	472

-85%

Queens Boulevard



Dec 2021	First Month
347	494

-82%

Grand Concourse



Dec 2021	First Month
60	604

-90%

Hylan Boulevard



Dec 2021	First Month
47	360

-87%

4th Avenue (BK)



Dec 2021	First Month
77	463

-83%

Amsterdam Avenue



Dec 2021	First Month
30	143

-79%

Analysis: 24/7 Operation

- **Problem:** in 2021 30% of 217 non-highway fatalities occurred in school zones with cameras, but at times when cameras were not legally permitted to operate.
- **Solution:** state law went into effect August 1, 2022, allowing 24/7 operation; DOT now has 1 year of data.
- **Impact:** total speed camera violations decreases 30% despite increase in hours; injuries fell at camera locations during previously inactive periods.

Major Speed Decreases:

- 96% on Houston Street (Mn)
- 84% on Cropsey Avenue (Bk)
- 74% on North Conduit Boulevard (Bk)
- 79% on Seagirt Boulevard (Qns)
- 83% on Union Turnpike (Qns)
- 68% on Bruckner Boulevard (Bx)

**Data as of 6/30/2023*

Major Traffic Injury Decreases:

- 45% reduction on Tremont Avenue (Bx)
- 33% reduction on Kings Highway (Bk)
- 19% reduction on Hylan Boulevard (SI)
- 16% reduction on Queens Boulevard (Qns)
- 18% reduction on Amsterdam Avenue (Mn)

Program Challenges

- Events that cannot be processed to violations: ~15% (Oct 2023)
- Evasion by motorcycles and mopeds
 - No plates
 - Obscured or defaced plates
- Evasion by cars and trucks
 - No plates
 - Obscured or defaced plates
 - Fake paper plates
 - Reflective coverings



Red Light Camera Program: Background

- Started in 1994
- 150 locations & 211 cameras
- \$50 violation to vehicle owner
- Extended 8 times without expansion
- Up for reauthorization in 2024



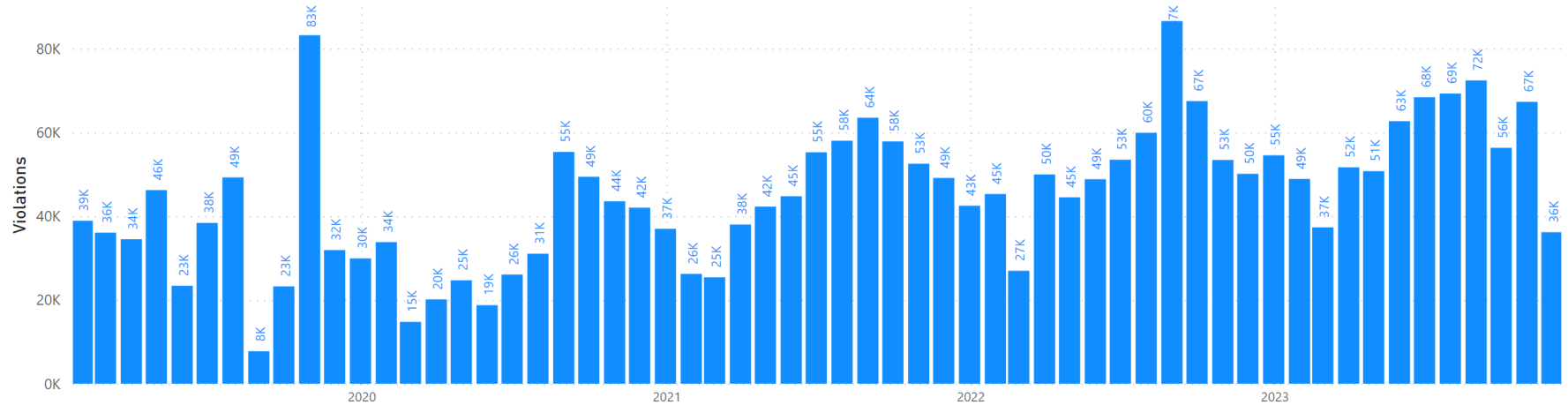
	Cameras	Intersections
Manhattan	16	18
Bronx	25	19
Brooklyn	65	49
Queens	74	57
Staten Island	31	21
Totals	211	164 (150 Max)

Violation Trend: 2019-2023

DOT Red Light Camera Program

Violation data from Department of Finance STARS System
Revenue data from FMS RCPR Report

Violations



Thank You!

Questions?



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