

VILLAGE OF GARDEN CITY

# TRAFFIC CALMING SATELLITE STUDY

Estates Section – CAC Listening Session November 21, 2022



### MEETING AGENDA

- Welcome and Introductions
- Study Overview
- Discussion #1
- Existing Conditions
- Survey 123
- Discussion #2
- Possible Treatments
- Discussion #3
- Next Steps and Questions

(5 min)

(5 min)

(10 min)

(5 min)

(5 min)

(15 min)

(5 min)

(15 min)

(5 min)



### STUDY OVERVIEW

- Village-wide plan using typical study areas; focused on Village-owned streets
- Understand existing conditions
- Get community input (Survey 123 and CAC)
- Identify treatments; determine suitability
- Develop concepts for select locations
- Summarize findings and recommendations
- Report and present to Village
- Submit Traffic Calming Master Plan



# WHAT IS TRAFFIC CALMING?

The primary purpose of traffic calming is to support the livability and vitality of residential and commercial areas through improvements in non-motorist safety, mobility, and comfort. These objectives are typically achieved by reducing vehicle speeds or volumes on a single street or a street network. Traffic calming measures consist of horizontal, vertical, lane narrowing, roadside, and other features that use self-enforcing physical or psycho-perception means to produce desired effects.

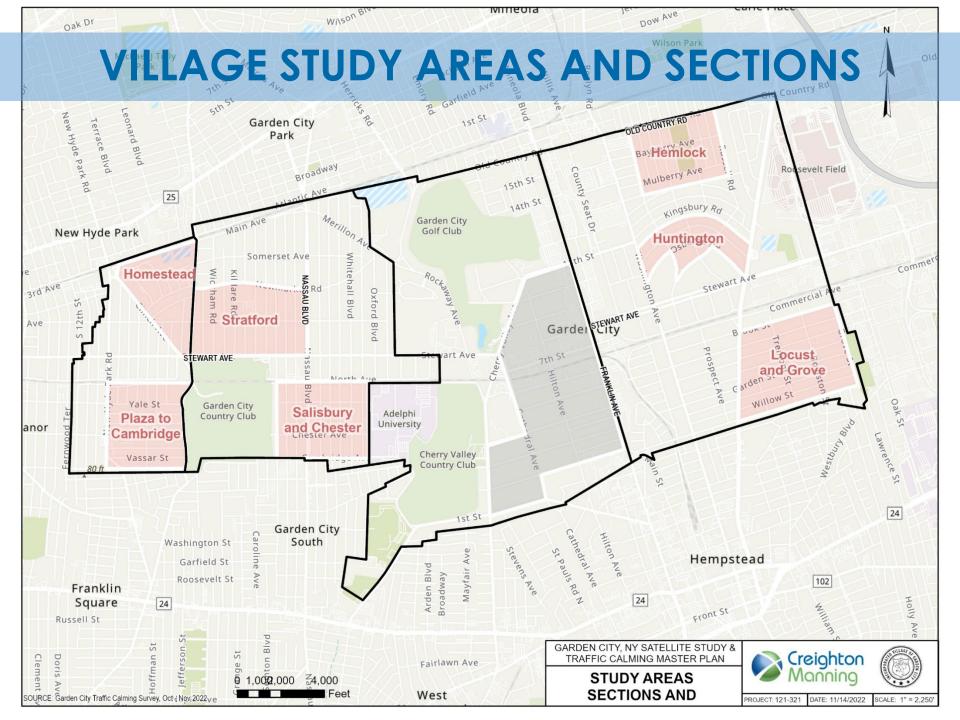
- Federal Highway Administration (FHWA)

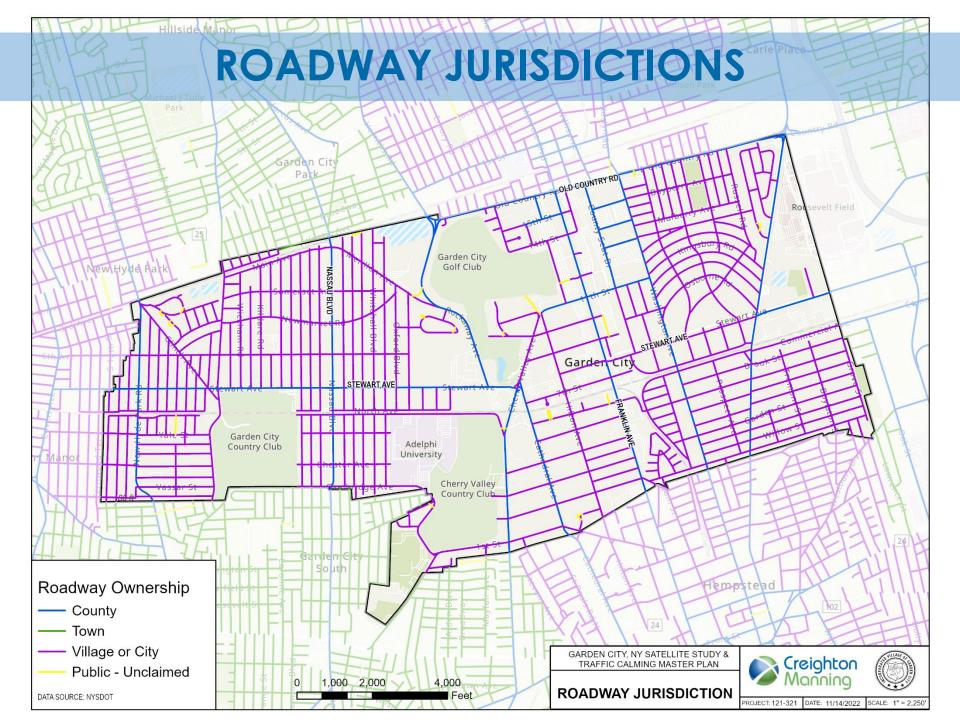
- Aims to reduce automobile speeds and traffic volumes on neighborhood streets
- Used on streets to facilitate the safe and efficient movement of all users, especially pedestrians and cyclists.
- Although mostly known as a neighborhood-specific initiative, traffic calming can be implemented on different street types and in different areas, including commercial settings and rural areas.
- Strategies are sometimes grouped into the three E's: Education, Enforcement, Engineering and Planning

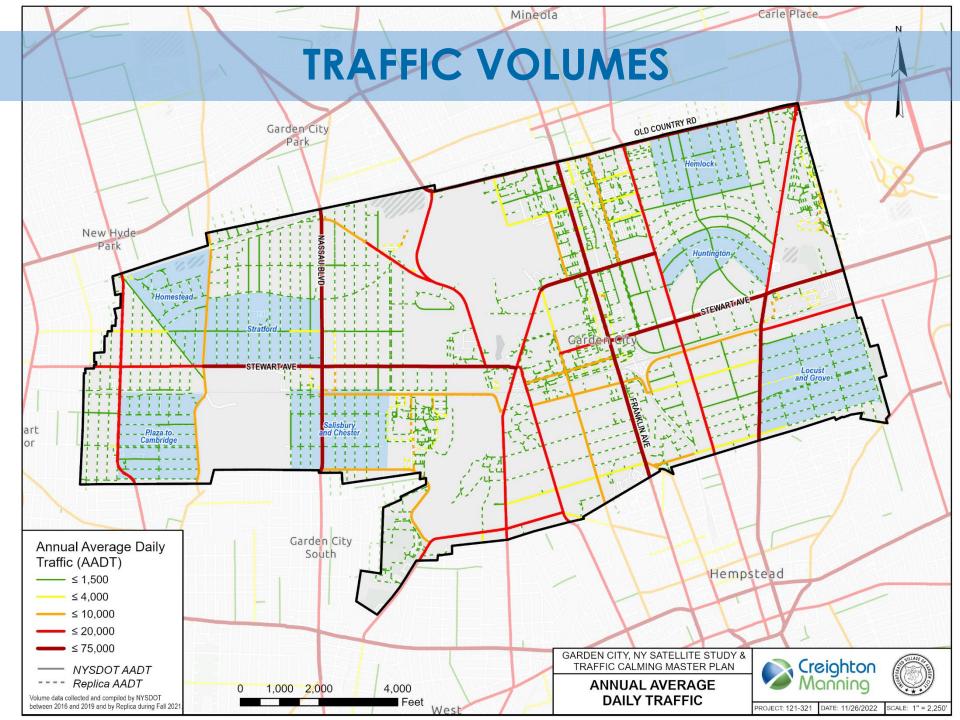
# **DISCUSSION #1**

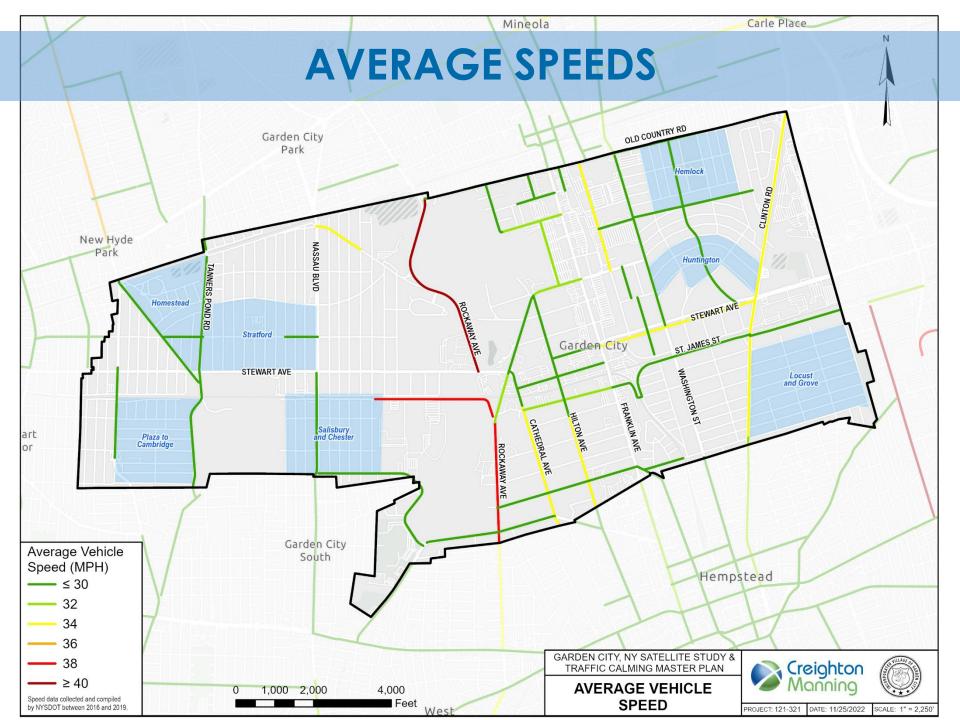
- We want to hear from the CAC...
  - Why is calming traffic in Garden City important to you?
  - What would you say is the goal of this study?
  - How would you evaluate this effort's success?

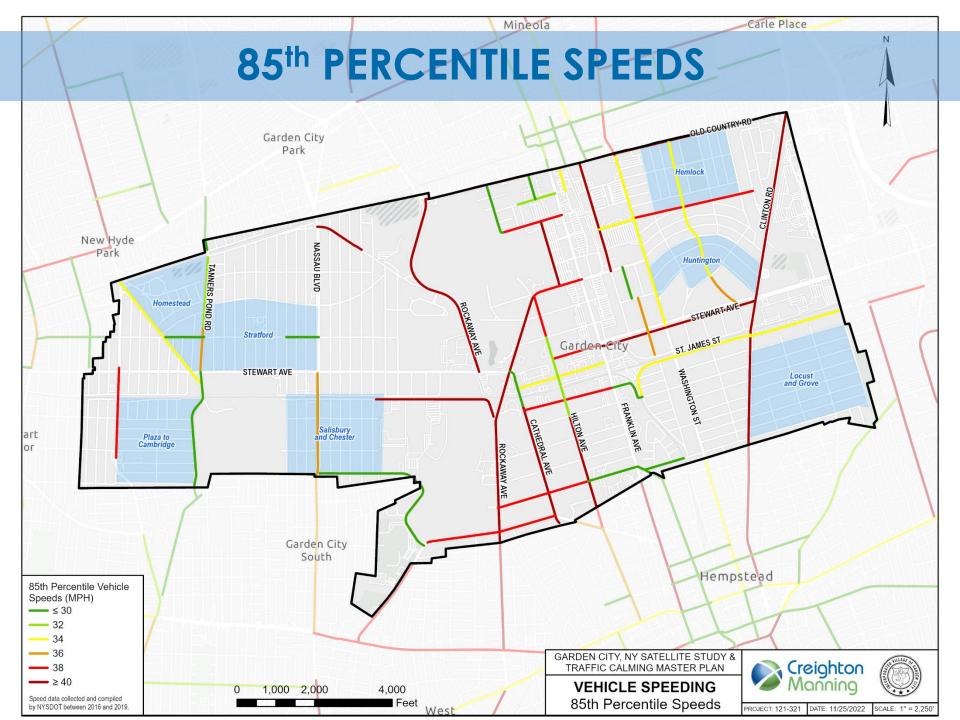


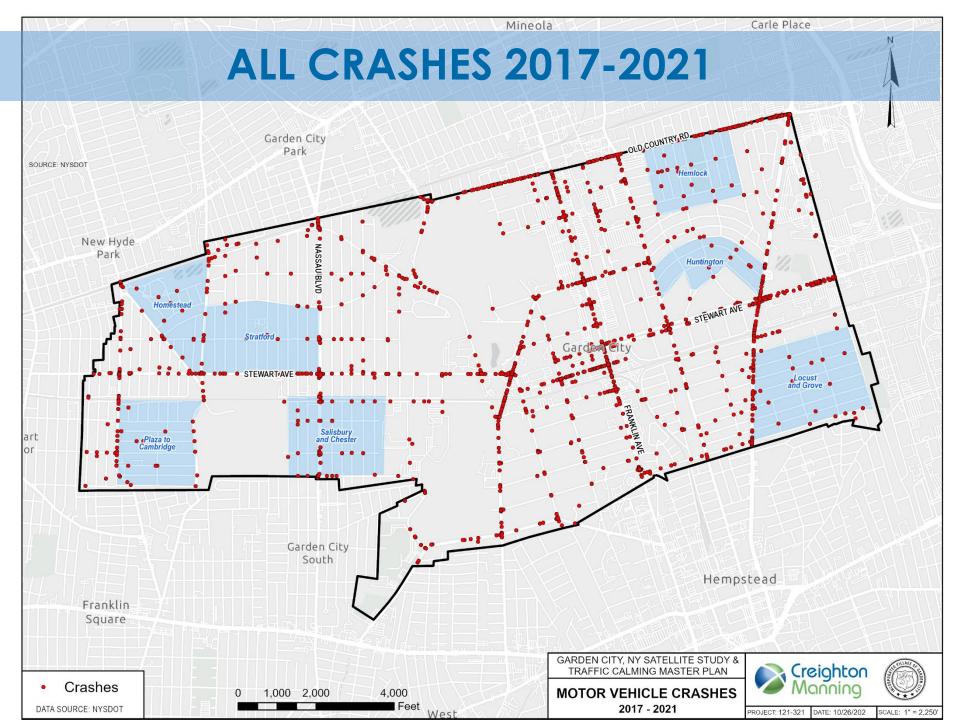


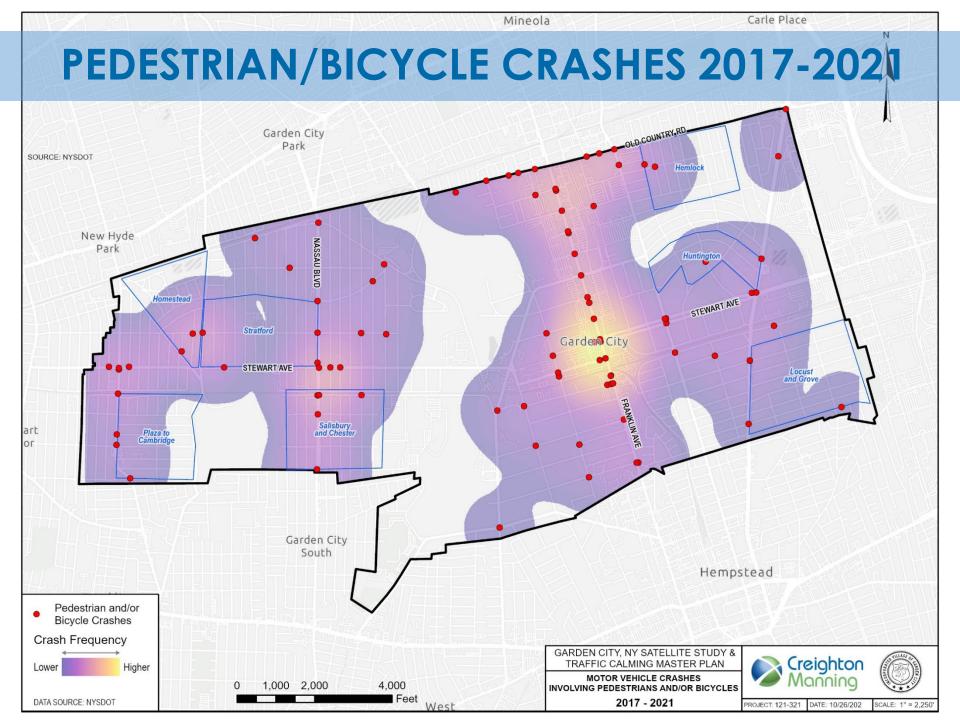












# CRASHES IN GARDEN CITY (SERIOUS/FATAL)

Year	2017	2018	2019	2020	2021
Crashes	822	995	933	569	909
Crashes with Serious Injury	21	14	14	9	19
Crashes with Fatality	0	0	1	1	1

Source: NYSDOT. Data collected for the study area from 01/01/2017 – 12/31/2021.



# CRASHES IN GARDEN CITY (PEDS / BIKE)

Year	2017	2018	2019	2020	2021
Crashes	822	995	933	569	909
Crashes involving Pedestrians	17	25	15	9	13
Crashes involving Bicyclists	9	9	7	8	9

Source: NYSDOT. Data collected for the study area from 01/01/2017 – 12/31/2021.



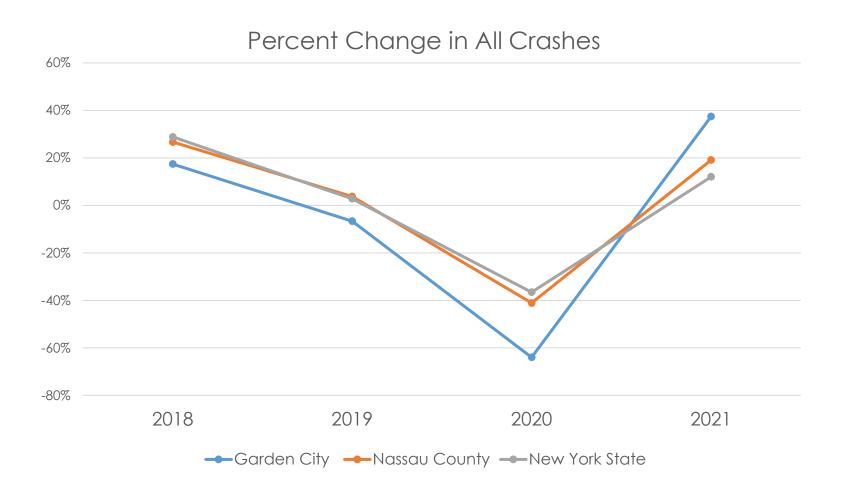
# **CRASHES IN COMPARISON**

Year	2017	2018	2019	2020	2021
Garden City	822	995	933	569	909
Nassau County	29,557	40,306	41,862	29,672	36,665
New York State	309,371	434,596	447,021	327,390	372,159

Source: NYSDOT and NYS DMV



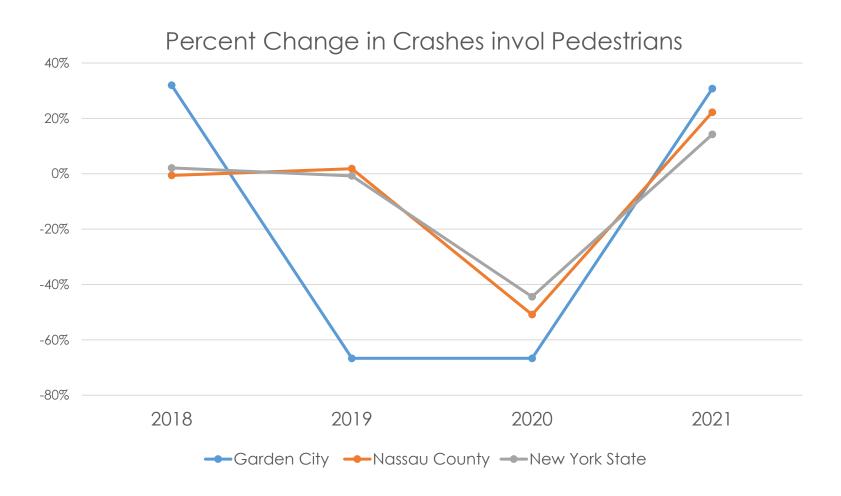
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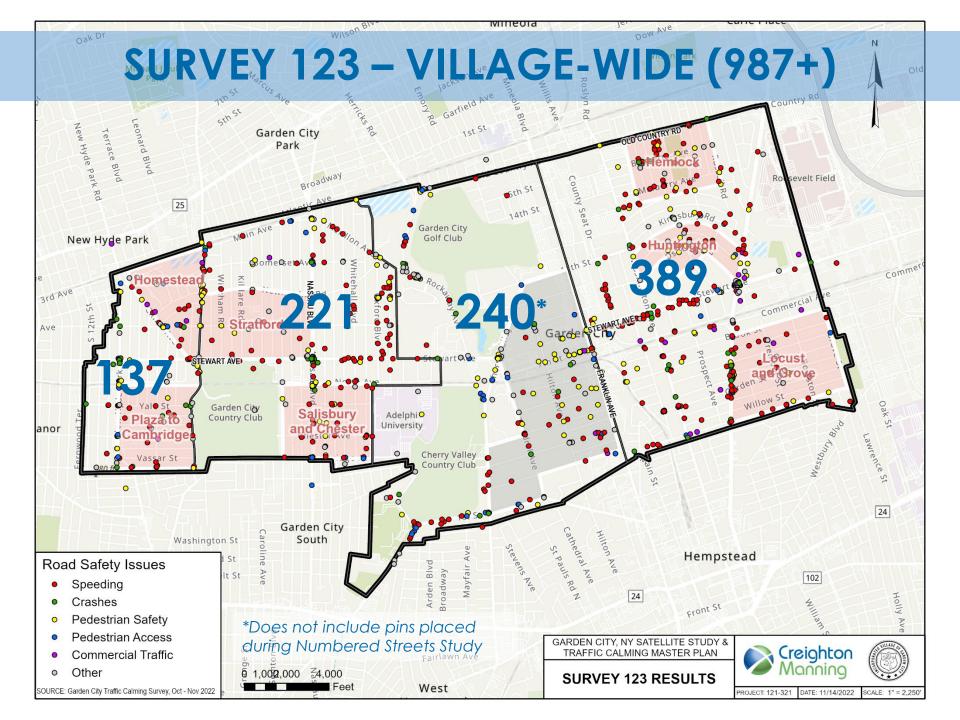


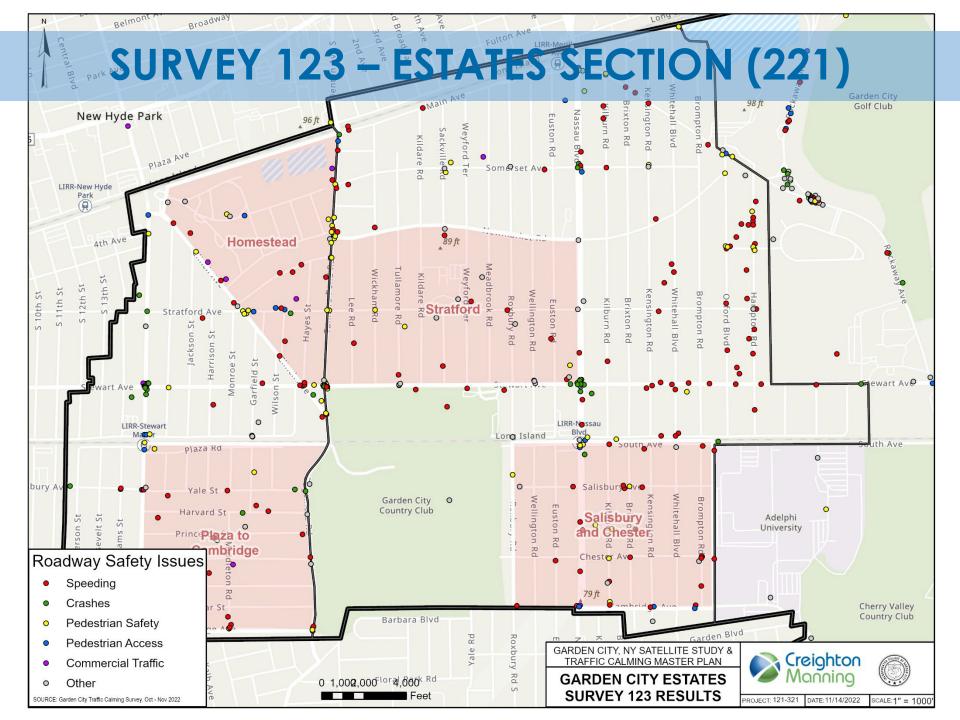
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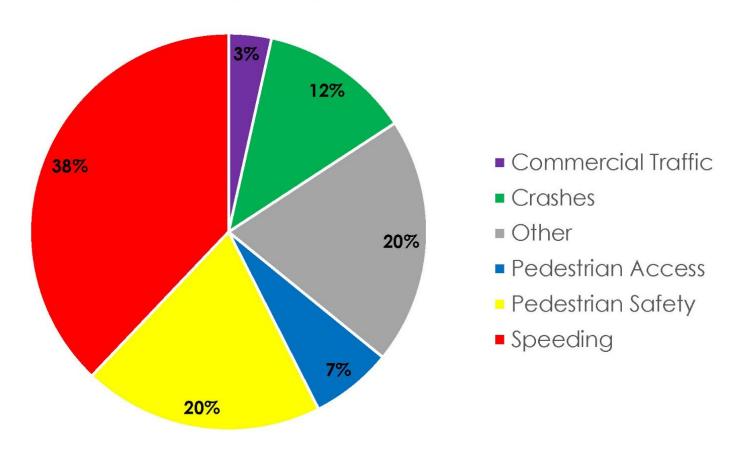






# **SURVEY 123 – RESULTS SUMMARY**

### Total Survey Responses





# **SURVEY 123 – ESTATES COMMENTS**

Cars are speeding down South avenue (seems to be Adelphi traffic). There are few stops signs to slow them down. This is a residential neighborhood with a high number of young children, and the speeding on south avenue is dangerous.

### People don't stop at stop signs and speed down Stratford

1 - Nassau Blvd and Stewart southbound. No turn signal. And the turning lane should be longer. 2 - rockaway, HS and Merillon merge is a disaster.

Needs a longer "walk" time for pedestrians to cross at Nassau Blvd

### Speeding, crashes and pedestrian safety

Students walking to/ from school and cars racing up and down Oxford. Also, when I walk my dog on Oxford, you need to walk on the sidewalk as cars are racing up and down Oxford.



# **DISCUSSION #2**

- Again, we want to hear from the CAC...
- After having reviewed the material...
  - What locations are of greatest concern to you in your section / study area?



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- Aims to reduce automobile speeds and traffic volumes on neighborhood streets
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#### **Enhanced Crosswalks**

- High-visibility markings, pedestrian enhancements including neckdowns, pedestrian-activated crossing warning lights
- Signs that alert drivers to yield to pedestrians

**Benefits:** Delineates preferred pedestrian paths, shortens distances between crossings, makes crossings more visible



#### **Speed Humps & Speed Cushions**

Used where AADT is <3500\* / posted speed <30mph</li>

**Benefits:** Can reduce speeds; cushions are traversable by emergency vehicles without slowing



<sup>\*</sup> Volume and speed ranges are guide, not requirements



#### Raised Crosswalk

- Used with low traffic volumes at approaches / speeds <35mph</li>
- 3 to 6 inches above street level

**Benefits:** slows motorists at crosswalks; similar to a speed table,



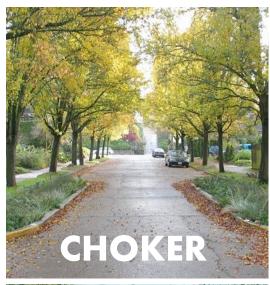
#### **Speed Table**

Used where AADT is <3000\* / posted speed <30mph</li>

**Benefits:** Can reduce speeds; provides location for mid-block pedestrian crossing; similar to raised crosswalk

\* Volume and speed ranges are guide, not requirements







#### Choker

- Used where AADT 1000-6000\* / posted speed <40mph</li>
- Called "Neckdowns" or "bulb-outs" at intersections

**Benefits:** Reduce speeds by restricting travel way; allows for roadside beautification

#### Chicane

- Used where AADT<3500\* / posted speed <35mph
- Design consideration should be made for drainage and utility features

**Benefits:** Allows for roadside beautification; reduces speeds by introducing horizontal elements



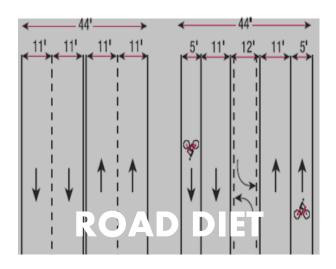
<sup>\*</sup> Volume and speed ranges are guide, not requirements



#### **Median Island**

- Used with any traffic volume / posted speed <45mph</li>
- Also called a pedestrian island

**Benefits:** Can be used mid-block, reduces speeds by narrowing roadway and alerts drivers of pedestrian crossing



#### **Road Diet**

- Used where AADT <20000\* / posted speed <40mph</li>
- Most commonly used on a four lane road;
  converted to two lanes with a turning lane

**Benefits:** Can provide additional space for other modes of transportation, slows speeds by narrowing lane widths

\* Volume and speed ranges are guide, not requirements





#### **Raised Intersection**

- Used with low traffic volumes at approaches / speeds
  <35mph</li>
- Works well at intersections with significant pedestrian traffic

**Benefits:** Functions like a speed hump or speed table, slows motorists, a vertical element that alerts drivers



#### **Traffic Circle**

- Slow speeds, low traffic volumes
- Installed at a junction of two local roads

**Benefits:** Reduces speed by directing drivers around the circle; reduces the number of angle and turning collisions; reduces conflict points. Can have Stop or Yield signs at approaches

\* Volume and speed ranges are guide, not requirements





#### **Turn Restriction Signs**

- Prohibits movements at specific times /days
- May shift traffic to nearby streets
- Can be effective, especially with enforcement
- Less effective than physical changes

**Benefits:** Reduces cut through traffic, low-cost, best if limited to certain time periods



#### **Stop Signs**

- Is a Traffic Control device; not effective for speed reduction
- Used with low/moderate traffic volumes at approaches

**Benefits:** low-cost, can reduce accidents



<sup>\*</sup> Volume and speed ranges are guide, not requirements

# OTHER POSSIBLE ACTIONS...



Requires state approval



Done in collaboration with NYSDOT



Requires state approval, reduced speeding by 72% in NYC



New law allows 25mph speed limit



# **DISCUSSION #3**

- Again, we want to hear from the CAC...
- After having reviewed the material...
  - What treatments are you interested in seeing developed?
  - What concerns do you have?



### **NEXT STEPS**

Summarize the notes

 Collect more data (speeds, volumes, etc.) at specific locations

Additional research on treatments

Begin sketching treatments



# THANK YOU

### **Contact Info**

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