



Automated Traffic Enforcement Safety Device (ATESD) Program
Draft Plan
March 8, 2024

CITY OF NEW HAVEN
JUSTIN ELICKER, MAYOR
BOARD OF ALDERS

TOGETHER
NEW HAVEN

Program Overview

- ❖ Vision Zero Program Goals
- ❖ ATESD Advisory Committee
- ❖ Data Collection
 - ❖ Red Light and Speeding Related Crashes
- ❖ Public Act 23-116 Requirements + CT DOT ATESD Installation Guidance (as per Statute)
- ❖ City Process: Red Light and Speed Cameras Selection Methodology
- ❖ Draft TT&P Recommended List of ATESD Locations

Program Goals

Eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, equitable mobility for all.



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Red Light Violation Crashes- Statewide (2020-2022)

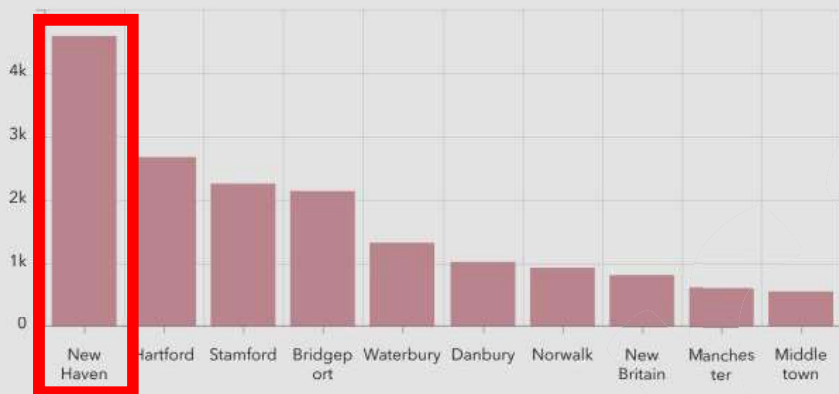
CT-REDV Red Light Violation 2020-2022

Municipality
None

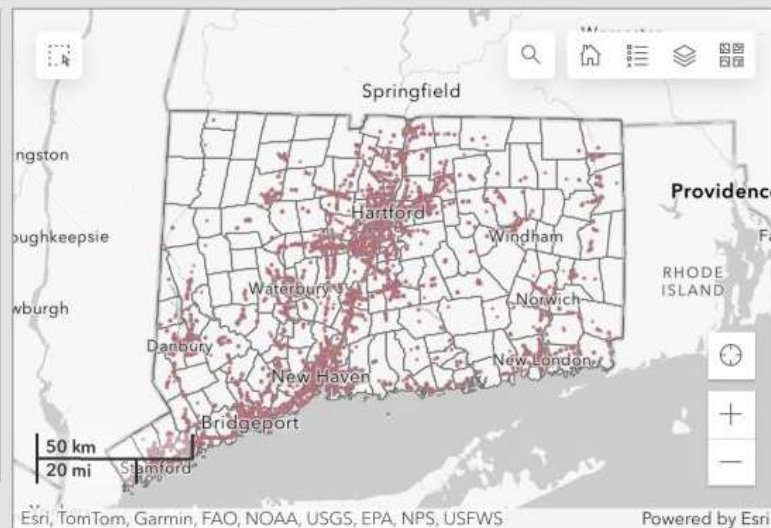
Road Name
Selection required

Intersecting Road
Selection required

Intersection Crashes by Municipality



Intersection Crashes
32,268
Red Light Crashes: 5,180



Intersection Crashes by Town

Intersections

Red Light

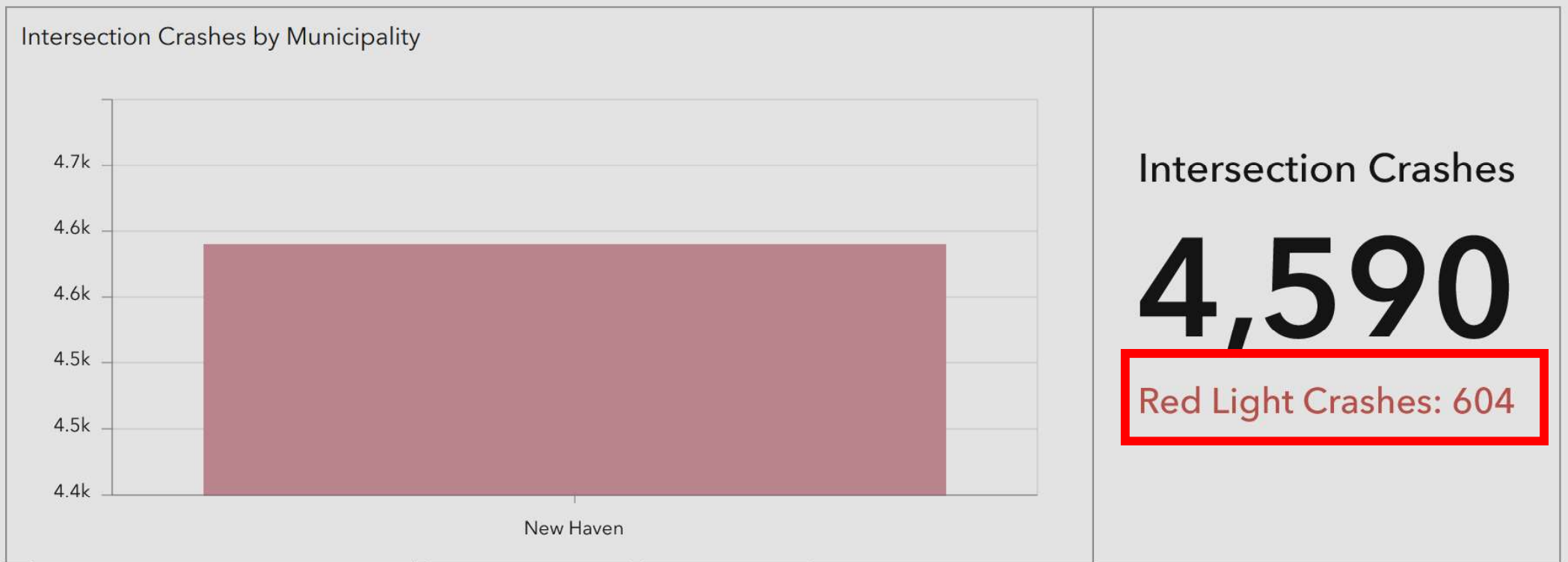
| Municipality | Intersection | Count of Intersection Crashes | Count of Red Light Crashes | Percentage Of Red Light Crashes |
|--------------|---------------------|-------------------------------|----------------------------|---------------------------------|
| Andover | 6-E, 316-N | 3 | 1 | 33.33% |
| Andover | 6-E, 87-N | 2 | 0 | 0.00% |
| Andover | 6-E, LONG HILL RD | 2 | 0 | 0.00% |
| Ansonia | 115-N, WEST MAIN ST | 2 | 2 | 100.00% |
| Ansonia | 243-E, FINNEY ST | 2 | 1 | 50.00% |
| Ansonia | 115-N, 334-E | 2 | 1 | 50.00% |
| Ansonia | 727-N, DIVISION ST | 5 | 2 | 40.00% |

Totals

All Records

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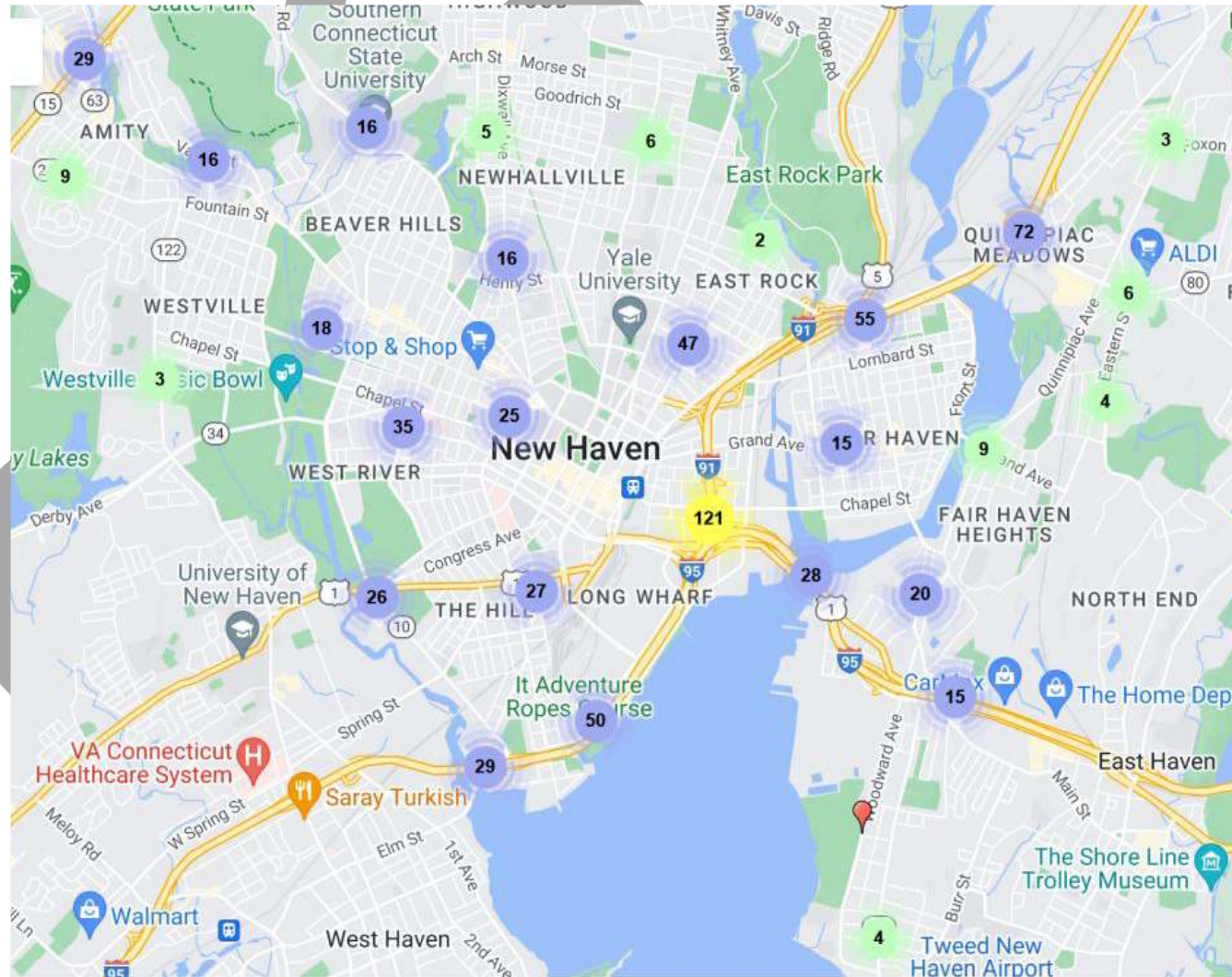
Signalized Intersection and Red Light Violation Crashes (2020-2022)



Source: CT-REDV Connecticut Red Light Violation Tool, Connecticut Crash Data Repository

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Speeding Crashes New Haven (2020-2022)



All crashes= 19,465

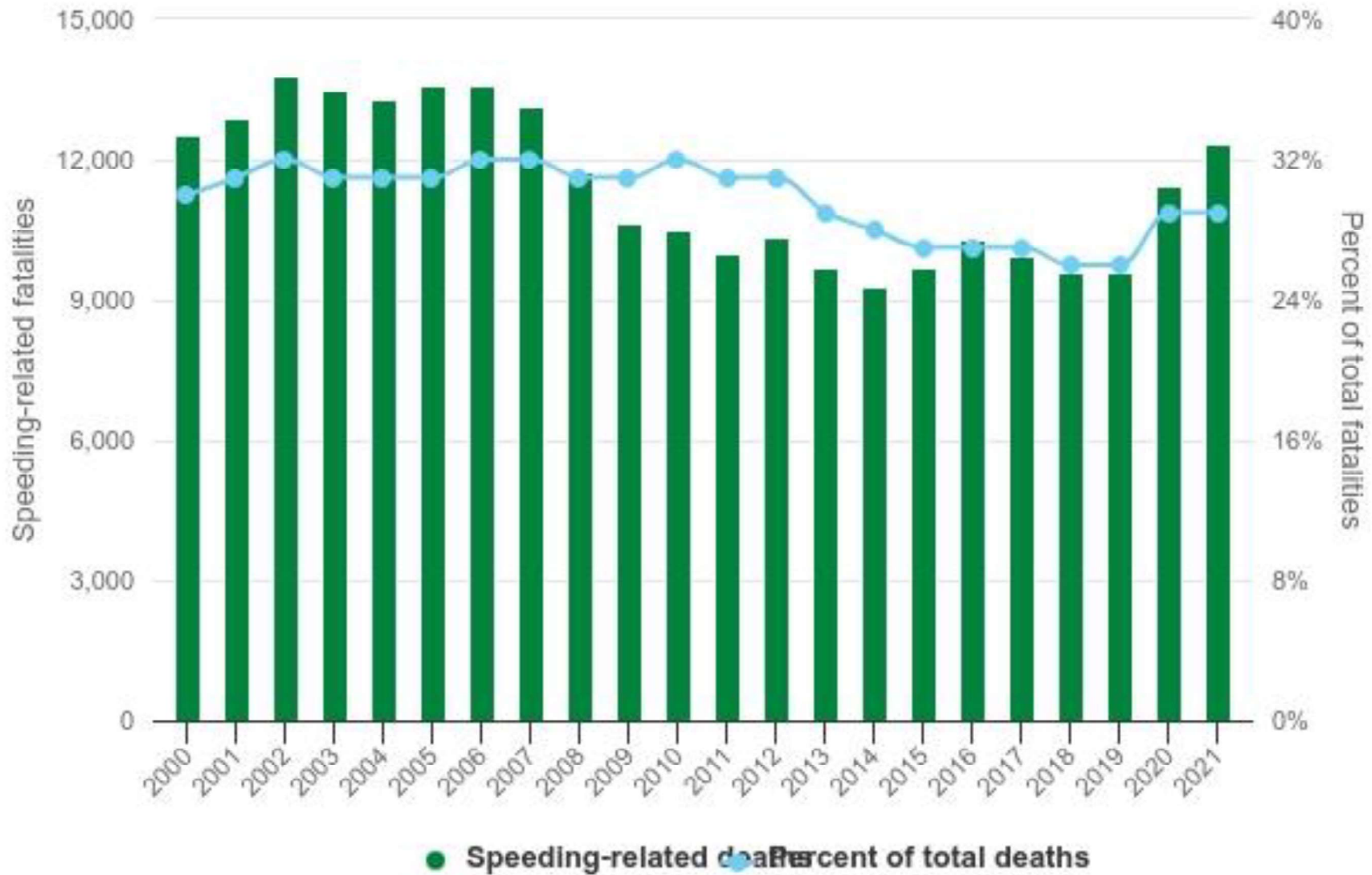
Speed= 717

Fatal/Injured= 204 (29%)



Speeding (Nationally)

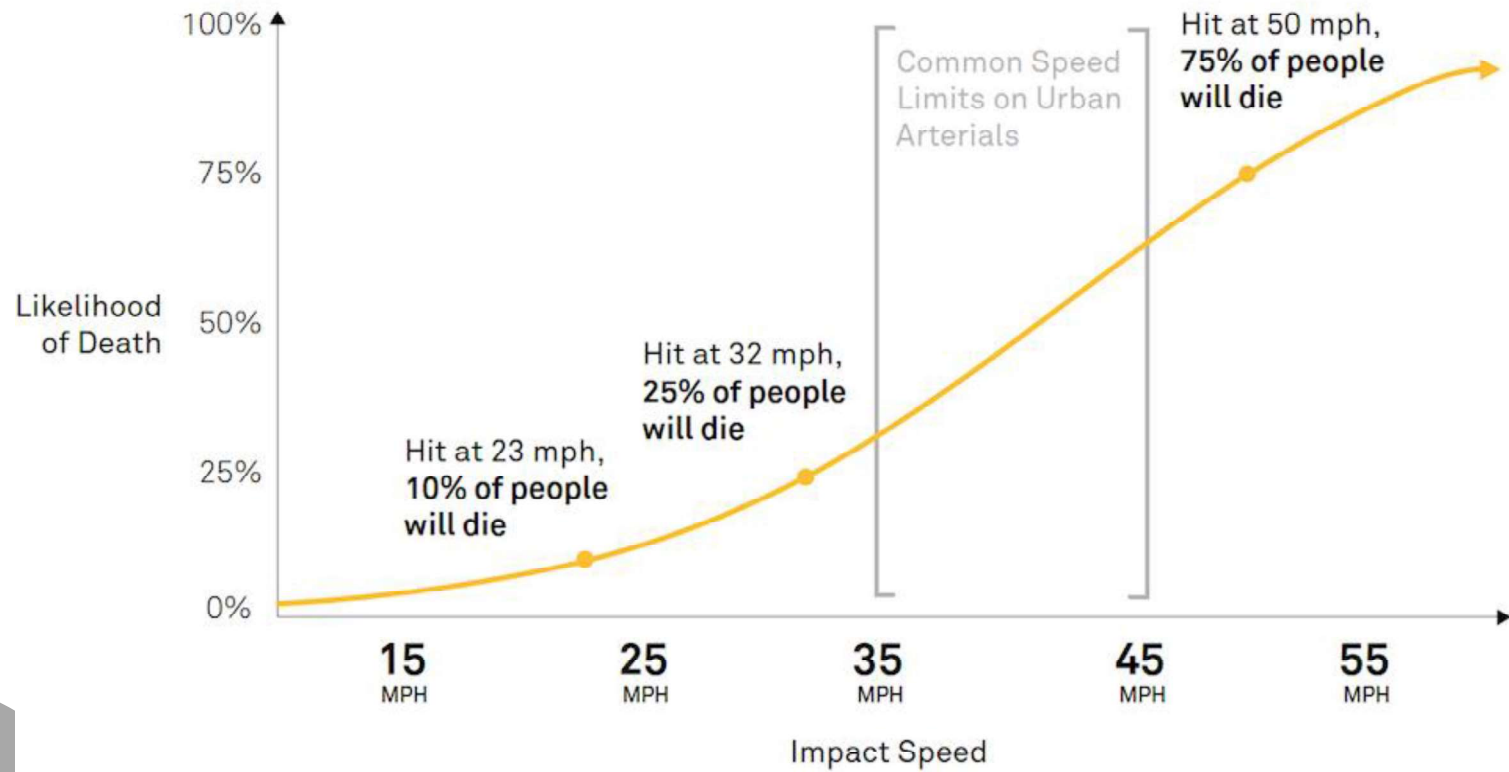
Speeding-related fatalities and their percent of total fatalities



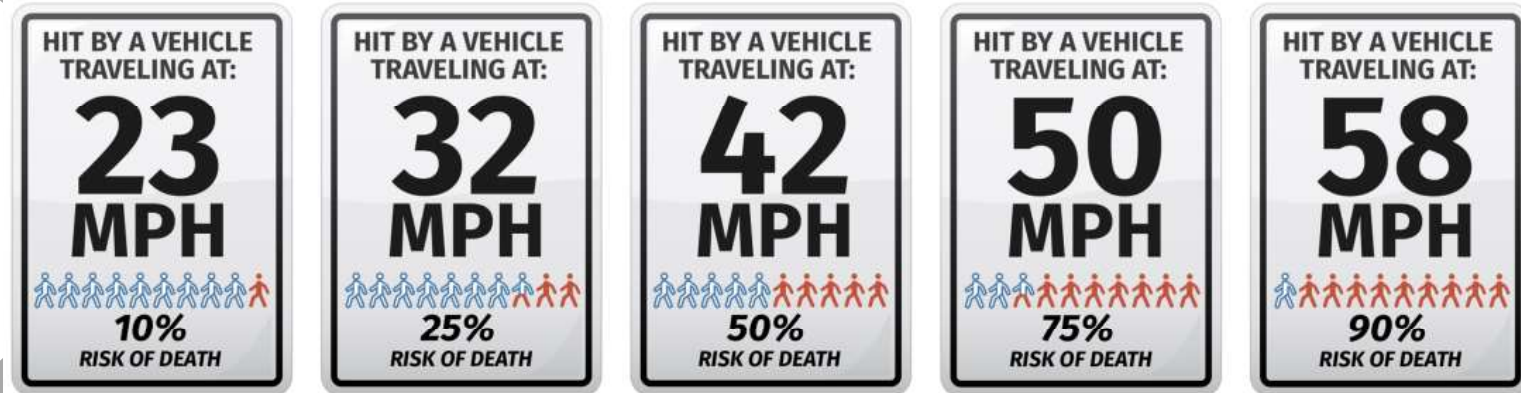
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Safe Systems Approach (Safer Speeds)

THE LIKELIHOOD OF FATALITY INCREASES EXPONENTIALLY WITH VEHICLE SPEED³²

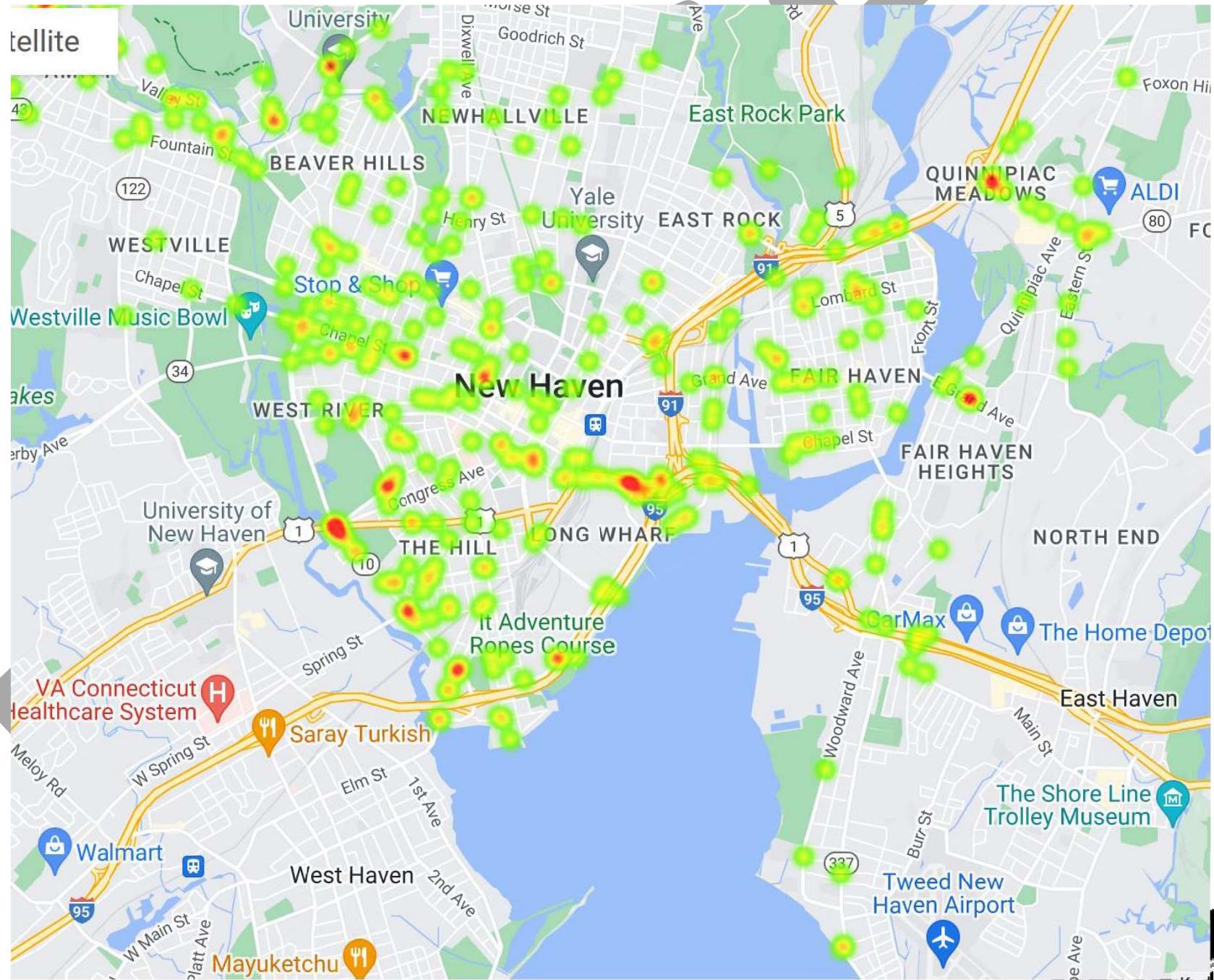


“Prevent speeding by studying and piloting the equitable application of enforcement strategies, including automated enforcement.” - National Roadway Safety Strategy



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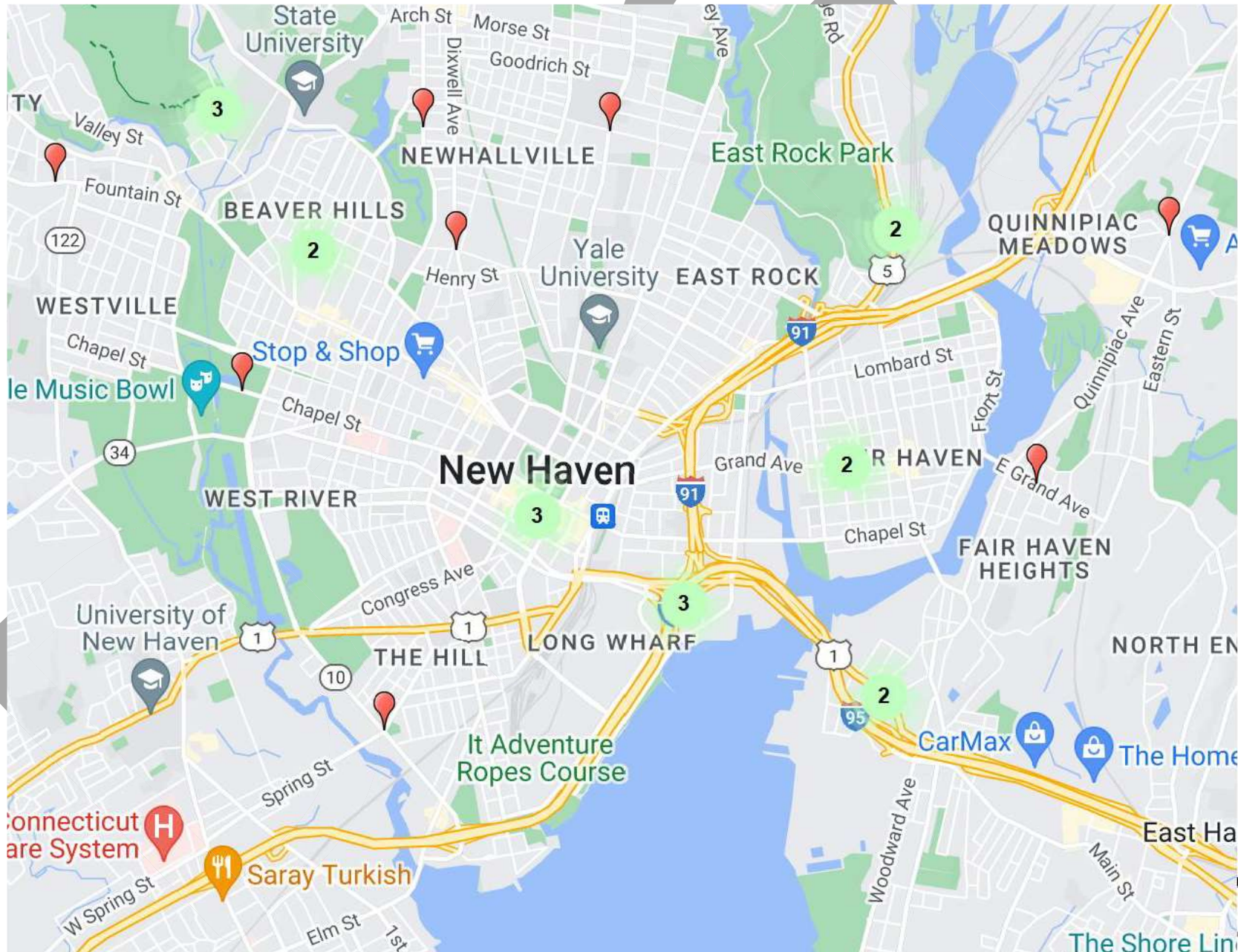
Speeding Crashes New Haven (2020-2022)



Source: UConn Crash Repository

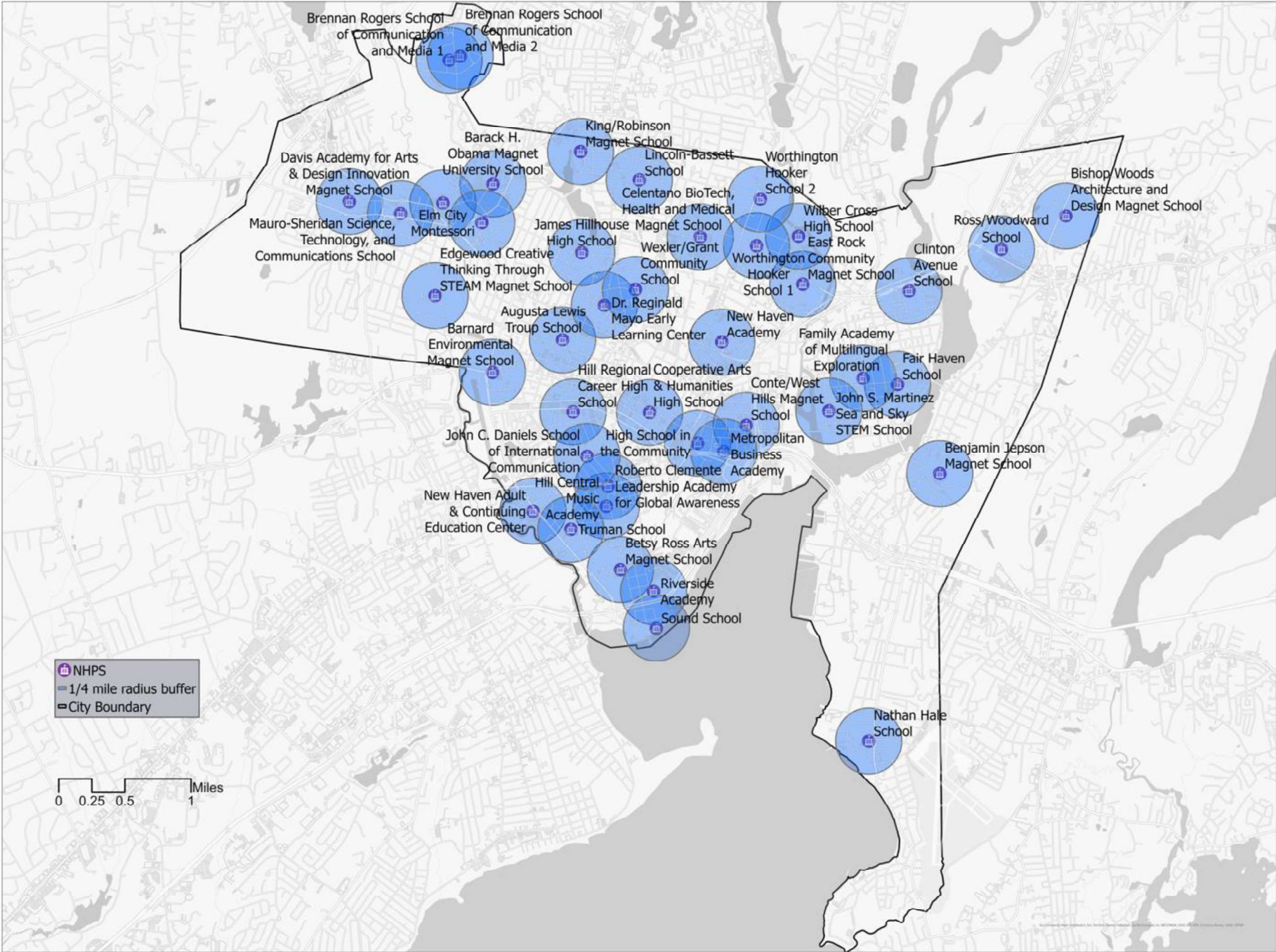


Speeding-related Fatal & Serious Injury Crashes (2020-2022)



Source: UConn Crash Repository

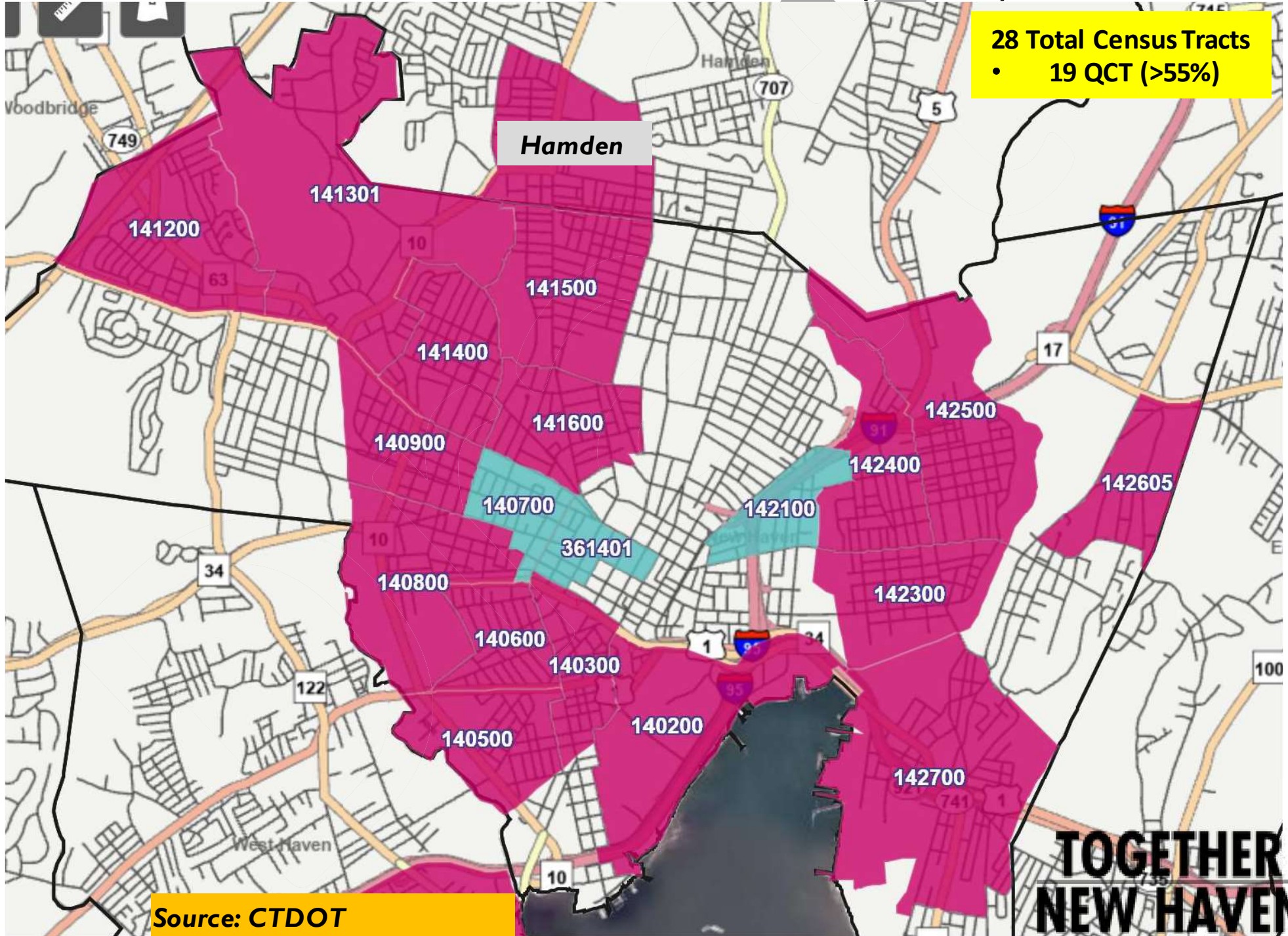
School Zones



CTDOT ATESD Installation Guidance (Overview)

- ❖ Final document published on Jan 2, 2024
- ❖ Installation allowed in-
 - Traffic control signal (Red light running);
 - School zones, Pedestrian Safety Zones (Speeding); and
 - Other locations
- ❖ Factors to consider
 - Average Daily Traffic, Geometry, History of traffic stops, Red-light/Speeding crash data
 - Equity (US Census)- Qualified Census Tract (QCT)
 - 50 percent of households with incomes below 60 percent of the Area Median Gross Income (AMGI); or
 - Poverty rate of 25 percent or more.
- All installation requires written justification

Qualified Census Tracts (QCT)



Red Light Cameras Installation Requirements

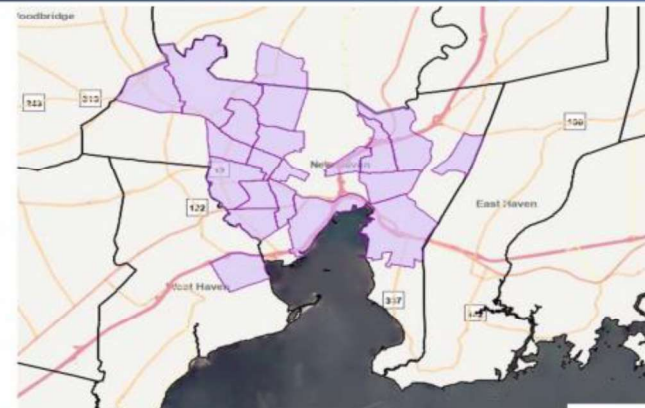
❖ Important Requirements

- Min. 2 Red Light Crashes over a 3-yrs
- Signals planned or recently upgraded (12-month period)-
Not recommended
- Signal timings must have already been optimized
- In QCT
 - Max 2 devices
 - Max 1 device in QCT < 0.25 sq. mi.

CT Red Light Violation Tool



QCTs - New Haven Area



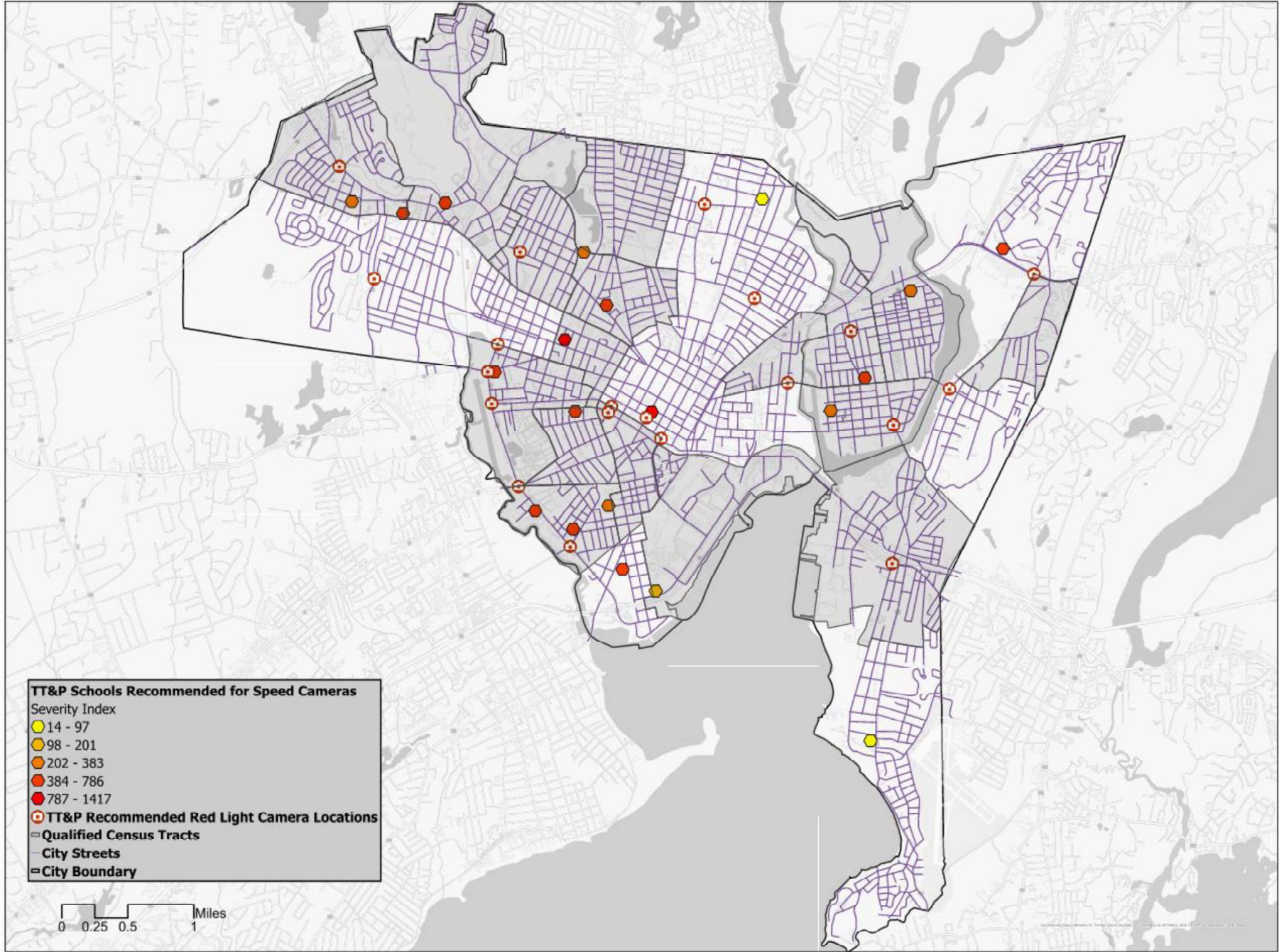
Speed Cameras Installation Requirements

- ❖ School Zone- roadway adjacent to school property or sufficiently close to school property “as to constitute a risk to the public safety under all the circumstances”- CGS 14-212b
 - On State Highway- requires OSTA approval
 - On Local Roadway- requires LTA approval only
 - Typically, 20mph- requires OSTA approval
- ❖ Pedestrian Safety Zone- any municipal roadway, defined downtown district, community center frequented by pedestrians or adjacent to hospital property- CGS 14-307a
 - On Local Roadway- requires LTA approval only
 - Speed Limit cannot be less than 20mph
- ❖ Other Locations- “roadways adjacent to CBDs, Community Centers, Parks, Hospitals”
 - Roadways with history of Crashes
 - Segment cannot exceed 0.5 miles

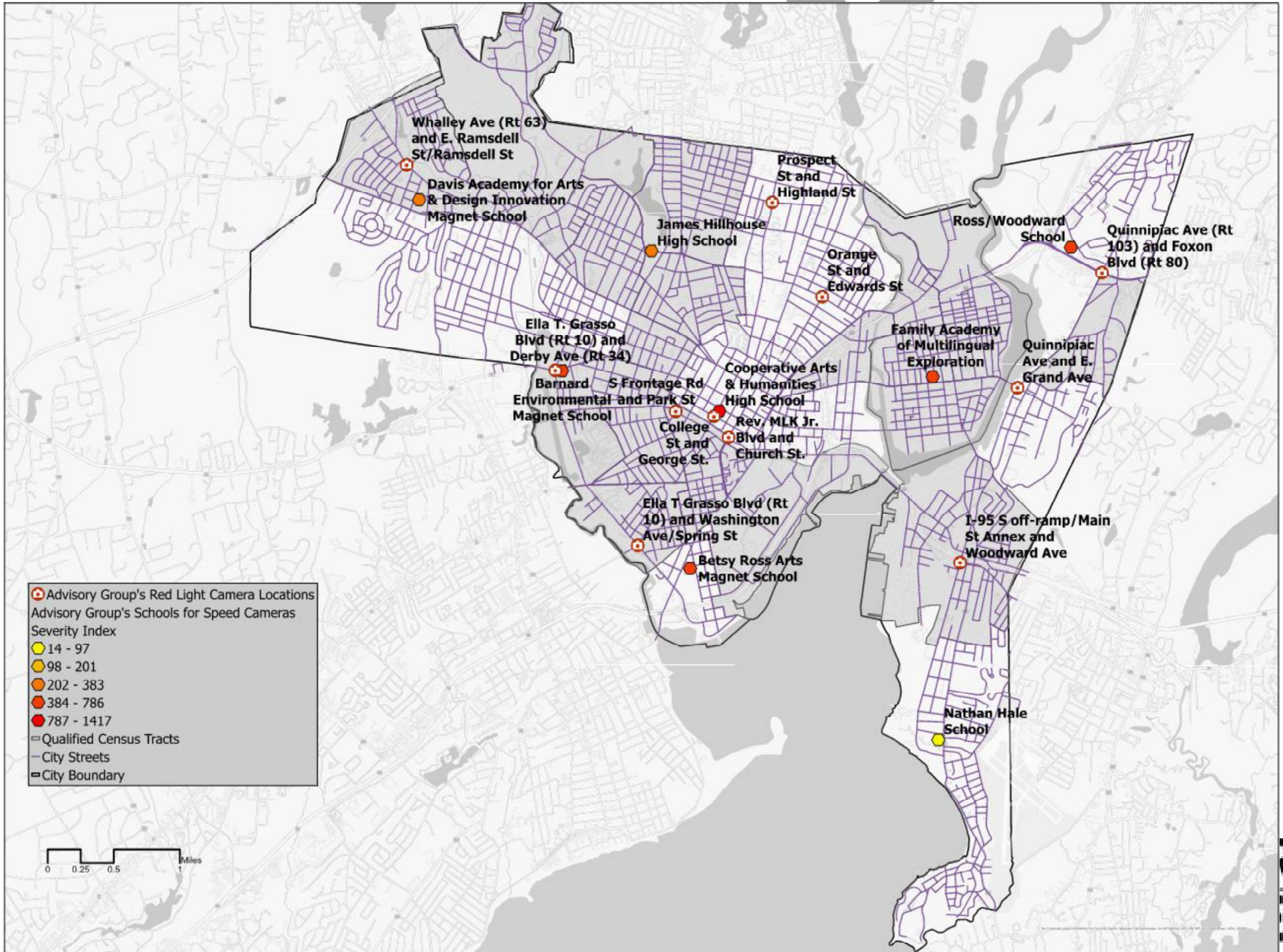
ATESD Locations- Selection Methodology

| Requirements | Red Light Cameras | Speed Cameras |
|------------------------------|---|--|
| 1. CTDOT Requirements | <ul style="list-style-type: none"> Red Light Violation Crashes (min. 2 over a 3-yr period) No Ongoing or Planned signal upgrade projects (within 12-month period) Age and Condition of Signal and Controller | Allowed in School zones, Pedestrian Safety Zones and other locations |
| 2. Equity Considerations | <ul style="list-style-type: none"> Concentration of Sites across the City Qualified Census Tracts and Area of Census Tracts <ul style="list-style-type: none"> ≤ 2 ATESD in a QCT Max 1 in QCT ≤ 0.25 mi. No. of QCTs (New Haven $> 55\%$ Census tracts in QCT) | |
| 3. Additional considerations | Total no of Crashes including Fatal and Serious injury crashes | <ul style="list-style-type: none"> <u>Focus on School Zones ONLY- 0.25 mile buffer radius</u> Total no of Crashes Speeding-related crashes Fatal and Serious injury crashes (KSI index) Speeding Violations |

City-wide List of Potential ATESD Locations (based on OSTA Guidance)



Proposed ATESD Locations



Proposed ATESD Locations

Red Light Camera

| No. | Intersection Name | Workshop #4 Consensus |
|-----|---|-----------------------|
| 1 | Lombard St. and Blatchley Ave. | - |
| 2 | Ella T Grasso Blvd (Rt 10) and Chapel St. | - |
| 3 | Rev. MLK Jr. Blvd and Church St. | Yes |
| 4 | College St and George St. | Yes |
| 5 | Ella T Grasso Blvd (Rt 10) and Columbus Ave (Rt 1) | - |
| 6 | Ella T. Grasso Blvd (Rt 10) and Derby Ave (Rt 34) | Yes |
| 7 | Quinnipiac Ave and E. Grand Ave | Yes |
| 8 | Whalley Ave (Rt 63) and E. Ramsdell St/Ramsdell St | Yes |
| 9 | Grand Ave and East St | - |
| 10 | Orange St and Edwards St | Yes |
| 11 | Ella T Grasso Blvd and Goffe Terr | - |
| 12 | Rev MLK Jr and Ella T Grasso Blvd (Rt 10) | - |
| 13 | Ella T Grasso Blvd (Rt 10) and Washington Ave/Spring S | Yes |
| 14 | Quinnipiac Ave (Rt 103) and Foxon Blvd (Rt 80) | Yes |
| 15 | Prospect St and Highland St | Yes |
| 16 | I-95 S off-ramp/Main St Annex and Woodward Ave | Yes |
| 17 | Rev MLK Jr Blvd and Park St | - |
| 18 | S Frontage Rd and Park St | Yes |
| 19 | Forest Rd (Rt 122) and Edgewood Ave | - |
| 20 | Ferry St and Chapel St | - |

Speed Camera

| No. | School Name | Address | Workshop #4 Consensus |
|-----|---|----------------------------|-----------------------|
| 1 | New Haven Adult & Continuing Education Center | 580 Ella T Grasso Blvd | - |
| 2 | Augusta Lewis Troup School | 259 Edgewood Ave | - |
| 3 | Barnard Environmental Magnet School | 170 Derby Ave | Yes |
| 4 | Betsy Ross Arts Magnet School | 150 Kimberly Ave | Yes |
| 5 | Clinton Avenue School | 293 Clinton Ave | - |
| 6 | Cooperative Arts & Humanities High School | 177 College St | Yes |
| 7 | Davis Academy for Arts & Design Innovation Magnet School | 35 Davis St | Yes |
| 8 | Dr. Reginald Mayo Early Learning Center | 185 Goffe St | - |
| 9 | Elm City Montessori | 495 Blake St | - |
| 10 | Family Academy of Multilingual Exploration | 255 Blatchley Ave | Yes |
| 11 | Hill Central Music Academy | 140 Dewitt St | - |
| 12 | Hill Regional Career High School | 140 Legion Ave | - |
| 13 | James Hillhouse High School | 480 Sherman Parkway | Yes |
| 14 | John S. Martinez Sea and Sky STEM School | 100 James St | - |
| 15 | Mauro-Sheridan Science, Technology, and Communications School | 191 Fountain St | - |
| 16 | Nathan Hale School | 480 Townsend Ave | Yes |
| 17 | Riverside Academy | 103 Hallock Ave | - |
| 18 | Ross/Woodward School | 185 Barnes Ave | Yes |
| 19 | Truman School | 114 Truman St | - |
| 20 | Worthington Hooker School 2 | 691 Whitney Ave | - |

Next Steps

- I- Committee Hearing & Operations Plan
- II- CT DOT Review and Approval
- III- System Development
- IV- Implementation
- V- Ongoing Monitoring