



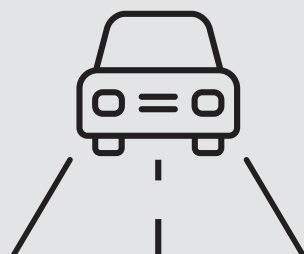
Reducing Speeding in Construction Work Zones:

Insights from the CTDOT's Automated Work Zone Speed Control Pilot



Pilot Legislation

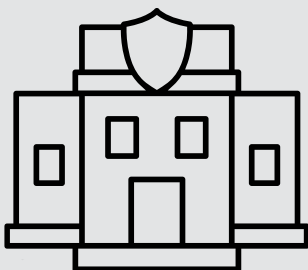
Speed



Escalation

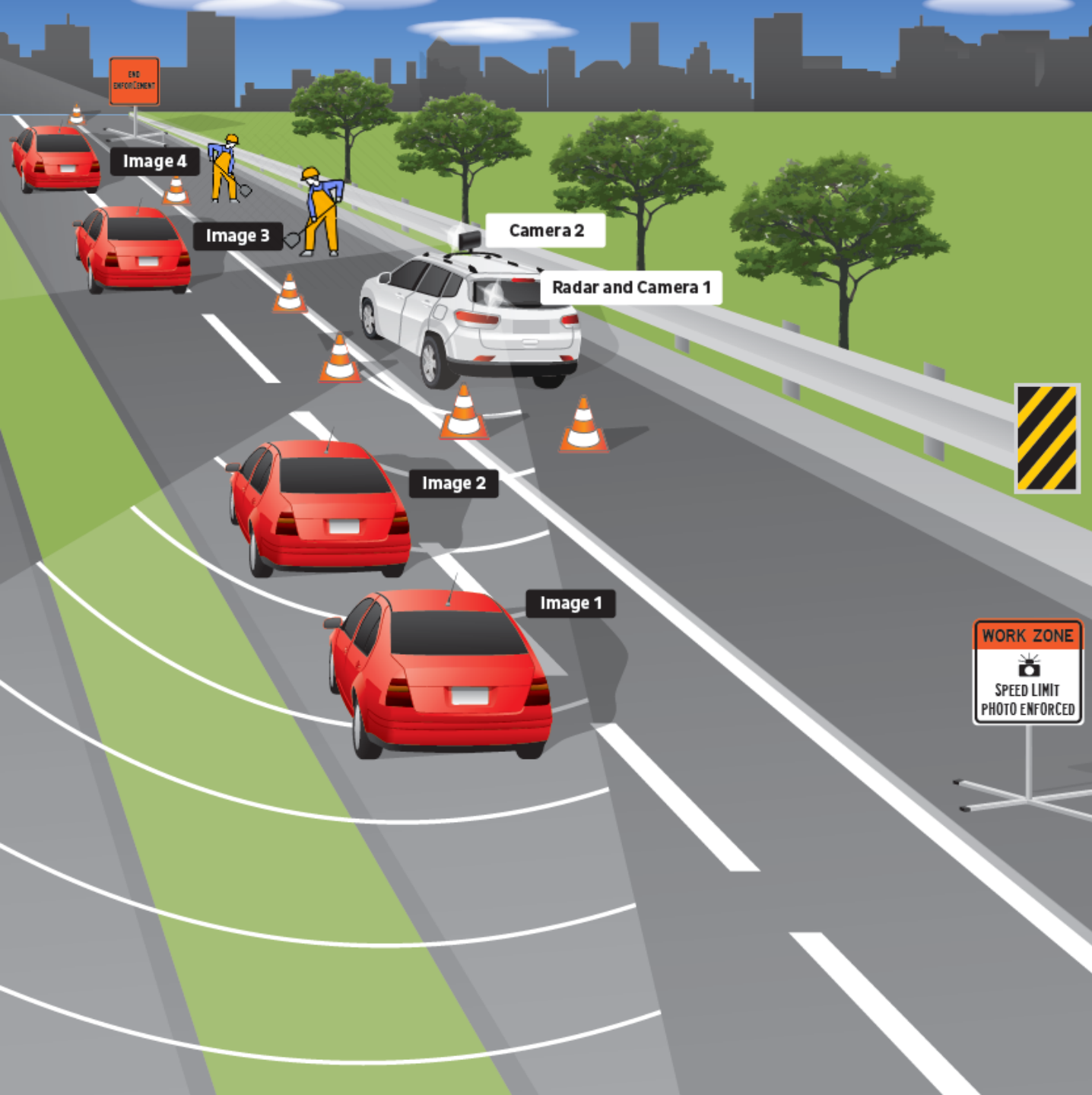


Accuracy



Transparency





WORK ZONE SPEED SAFETY CAMERA

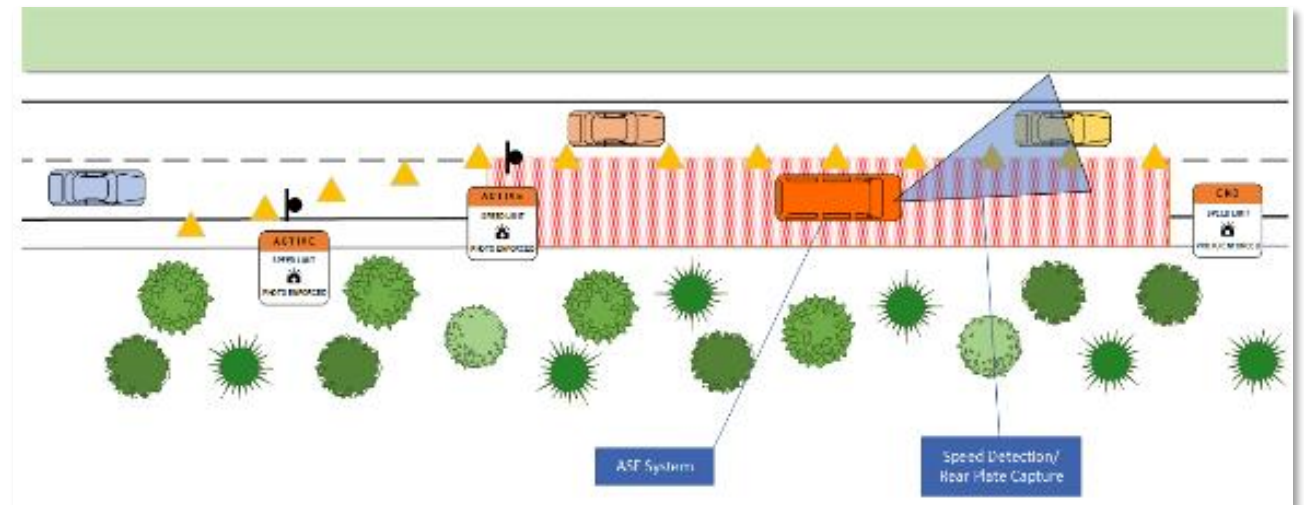
HOW IT WORKS

- Step 1:** The system identifies any approaching vehicle traveling equal to or faster than 15 mph over the posted speed limit and triggers the camera, which captures the event.
- Step 2:** A series of images are captured of the vehicle as it approaches and passes the speed safety camera, including two photos of the back of the vehicle used to show the distance and time of travel.
- Step 3:** The license plate image is cropped from one of the images captured.
- Step 4:** Data – including the time, date, posted speed, vehicle speed, location, lane, and direction of travel – is collected.

*Signs will be present at 1,000 and 500 ft. in advance of the designated highway work zone and at the end of the speed safety camera enforcement area.

Key For Success: Eliminate the Perception of a Gotcha Program

- Legislation
 - Lenient Speed threshold ≥ 15 MPH
 - Warnings
 - Conspicuous Signage
 - Website
- Additional Policies
 - Grace period after warning
 - Location guidelines
 - Outreach plan



Key For Success: Public Outreach and Education

- Website with
 - Location of enforcement
 - Education
- Social Media
- Billboards
- Radio spots
- TV including Cable
- Streaming Radio

17.4 million impressions
via digital billboard ads



6.8 million impressions
via cable TV ads



4.1 million impressions
via Facebook and Instagram ads



All metrics were at least
▲ 10% higher than estimated

21 million additional impressions
from news media story pitching and
social media marketing activities



Key For Success: Accuracy and Quality Control

- Annual equipment 3rd party calibration & certification
- Daily system testing
- Double blind image review
- Sworn officers issuing citations
- Training for image reviewers and officers
- Independent quality review

[illegible]

STATE OF CONNECTICUT AUTOMATED WORK ZONE SPEED CONTROL

WARNING NOTICE

PLEASE HELP SAVE LIVES & PROPERTY

To make our roadways safer for drivers and workers, Connecticut has implemented a work zone speed control pilot which will use photo speed detection systems to observe excessive speeds within work zones.

You are receiving this letter because you are the registered owner of a motor vehicle that was detected by a speed detection camera, being used as part of the pilot program, traveling in a highway work zone at 10 or more miles per hour greater than the posted speed limit. This action violates Connecticut General Statutes 13a-262.

Notice #:	100800291		
Location of Violation:	PA 805 Northbound, Segment 8350, City of Pittsford, Allegheny County	Vehicle Make/Model/VW	Golf R
Date of Violation:	06/16/2021	Issuing Agency:	Connecticut State Police
Time of Violation:	04:50 AM	Officer ID:	58700
Posted Speed Limit:	40 MPH	Officer Signature:	<i>[Signature]</i>
Measured Speed:	58 MPH	Registered Owner:	MARC GUTHER TOWN
Registration (No., City):	SUTHERT NY		29821484
Vehicle Color:	Blue	Pin:	

Following all traffic laws is extremely important. Not doing so leaves the State of Connecticut no other option than to follow the traffic code's enforcement procedures.

We urge you to **OBey the SPEED LIMIT** in work zones. Speeding can have fatal consequences. We encourage you to discuss this information with anyone who drives a vehicle(s) registered in your name.

This will be your only warning. A second or subsequent violation involving this vehicle will result in a fine. For a second violation, you will receive a fine of \$75. For all subsequent violations you will receive a fine of \$150. You are reminded to drive safely and to obey all traffic laws.

We ask you to slow down to protect our workers, other drivers, and yourself.

For more information, please visit: <https://ddot.state.ct.gov/DOJ>. Review the Comprehensive Zone or view your notice online at <https://ddotddot.photofast.com>, by entering the Notice Number (Log-In Number), License Plate Number and PIN.

This document is being e-mailed to you unless you have opted to receive solely on the basis of e-mail. If you are unable to view this document, please contact the office agency of the office who issued this notice at the Connecticut State Police and Connecticut State Police.

Results

- In-Depth study of 5 locations
- All locations showed reduction in speeds
 - Analysis included before, during, and after data
 - Reduction in speeding vehicles as much as 18%
- 24,900 Warnings
- 750 Infractions (with fine)

Centralized Infractions Bureau
PO Box 5044
Hartford, CT 06102

MARK ADJ523514 TWAIN
5851 W TALAVI BLVD
GLENDALE AZ 85306

**Automated Work Zone
Speed Control**

Notice of Registered Vehicle
Owner Liability
COMPLAINT NO.
U000020-0



View images at <https://dot.ct.gov/notice>

You are the registered owner of a vehicle that exceeded the posted speed limit in a highway work zone by 15 or more miles per hour.		Date & Time of Violation: Date: 04/25/2023 Time: 08:08 PM	
Registered Owner and Address: MARK ADJ523514 TWAIN 5851 W TALAVI BLVD GLENDALE AZ 85306		Amount Due: \$75.00 Statute/ Ordinance Number: § 13a-263: Exceeding speed limit in highway work zone.	
Registration (No., State): ADJ523514 CT Vehicle Year: 2016 Vehicle Make: VW Vehicle Model: GOLF R Vehicle Color: BLUE		Associated Warning #: S00001361 Date & Time Of Associated Warning: 04/25/2023	

Location: Route 8 Northbound between mile markers 15.8 and 18.6(Exits 9 to 2)

Posted Speed Limit: 35 MPH

Measured Speed: 73 MPH

Equipment ID: SR 12345678SR TR 12345678TR

Equipment Cert Date: 11/30/2022 11/30/2022

Issuing Agency: Connecticut State Police

OfficerID: IN #: 99999

Officer Signature: *Adjunctive Front Row Supervisor @ NCSA*

Answer Date: 05/26/2023

LOG-IN #: S00001371 **LICENSE PLATE:** ADJ523514

PIN: 48006995

COMPLAINT TICKET

The officer complains that:
On (Month, day, year) (At Time) 08:08 PM
04/25/2023
Name (Last, first, middle initial) TWAIN, MARK ADJ523514
Address (Number, street and city) 5851 W TALAVI BLVD
GLENDALE
State ZIP + 4 AZ 85306
Date of birth 02/19/1975 Sex Male Marital Status M

License and Motor Vehicle

Owner's license number 99999
Date of license expiration 03/31/2024
Registration number ADJ523514
Title Mass/Vehicle Style CT
Year Color 2016 BLUE
Owned by (Last, first, middle initial) TWAIN, MARK ADJ523514
Address (Number, street and city) 5851 W TALAVI BLVD
GLENDALE AZ 85306

For (State or highway) (or violation, specify)
Route 8 Northbound between mile markers 15.8 and 18.6(Exits 9 to 2)

Speed of violator	Actual Speed	Posted Limit	Amount
73 MPH	73 MPH	35 MPH	\$75.00

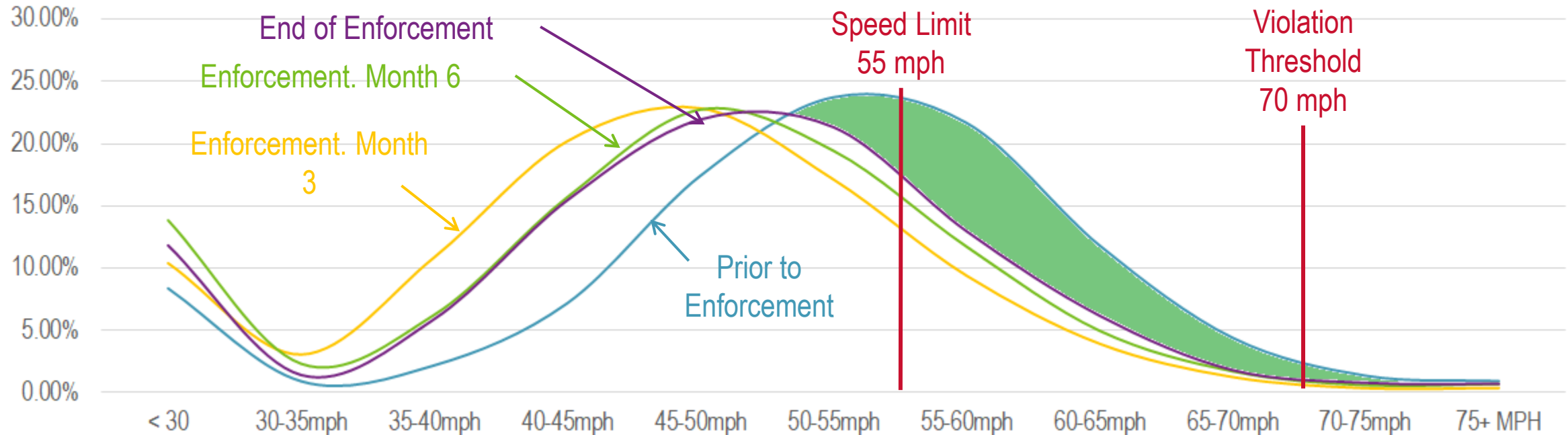
Exceeding speed limit in highway work zone 1 § 13a-263 \$75.00

Amount Due \$75.00

Connecticut State Police
9999
CONNECTICUT SUPERIOR COURT
The Judicial Branch of the State of Connecticut
If you need a reasonable accommodation in accordance with the ADA, contact the Centralized Infractions Bureau at (860) 263-2750, www.jud.ct.gov/ada

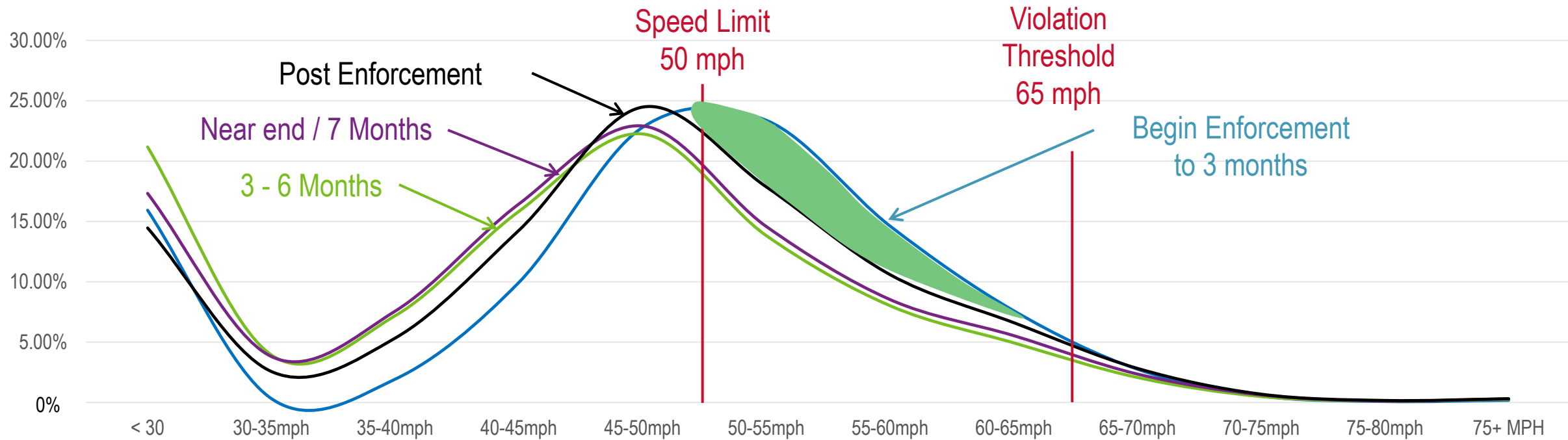
Defendant's copy — See instructions on back

Speed Distribution Results – I-95 Norwalk



- ~ 9.2% reduction in drivers traveling at speeds 60-65 MPH
- Crest of curves shifted by 5 MPH
- Excessive driving speeds (15 MPH above posted speed limit) were reduced by half.

Speed Distribution Results – I-95 East Lyme



- Decrease in driver speeds despite short time period at location.
- Reduction in share of drivers traveling at speeds 50-65 MPH (up to 15 MPH above the Posted Speed Limit).
- Shift in peak driving speeds remained Post-Enforcement.

“This program will help save lives.”

“The pilot program has already proved to be successful, and we heard from our DOT construction workers that they felt safer working with this program in place.”

“...we saw through our reports that it actually started to change people’s behavior, and deter them from speeding through work zones.”

- Rep. Gary Turco, D-Newington

Source: House Passes Omnibus Transportation Bill With Little Debate, Including Enforcement Cameras In Work Zones | CT News Junkie

House Bill 5330 – Permanent Program

- **Passed with little debate!**
- Elements of the Bill:
 - Formalizes permanent use of the AWZSC Program across CT.
 - Expands the Program to operate up to 15 work zones at any given time.
 - Reduces speed threshold to 10 MPH
 - Allows CTDOT to set variable speed limits on Limited Access Highways.

What's Next?

Trailer Based Speed Enforcement

- Mobile speed monitoring unit mounted on a trailer, equipped with radar or lidar and cameras, and powered by solar or batteries.
- Moveable based on traffic patterns or community concerns, ideal for work zones.
- Often provides high visibility and flashing speed displays to alert drivers in real time.
- Lower cost of installation and maintenance when compared to other solutions.



What's Next?

Point-to-Point Speed Enforcement

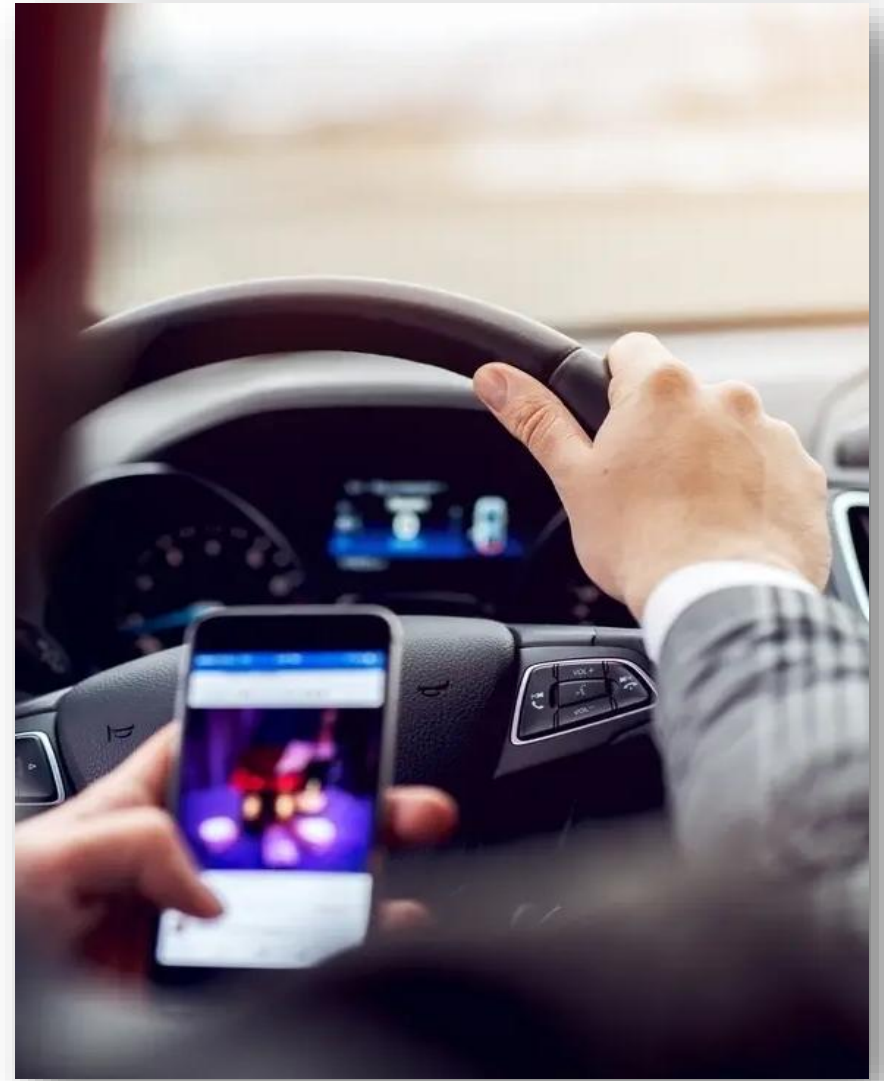
- Measures average speed between two fixed points
- Monitors behavior over a stretch of road, not just a single location – leading to less artificial slow downs.
- Promotes smoother traffic flow and discourages abrupt braking
- According to NHSTA, studies show these systems can reduce speeding-related crashes by 20–37%.



What's Next?

Distracted Driver Detection & Enforcement

- Goes beyond speed enforcement, detecting dangerous behaviors such as texting or phone use
- Offers more preventative enforcement
- Can be mounted roadside, in patrol vehicles, or integrated into smart infrastructure.
- Insights support targeted education campaigns and smarter deployment of enforcement resources.



Thank You



Ujjval Saravanan
[www.linkedin.com/in/ujjval-](https://www.linkedin.com/in/ujjval-saravanan-mba-040a29184)
[saravanan-mba-040a29184](https://www.linkedin.com/in/ujjval-saravanan-mba-040a29184)