

GC3 Mitigation Strategies Working Group Transportation Sector Team



Presentation for/Discussion with Transportation Breakout Session
Public Forum Reviewing the [DRAFT Mitigation Report](#)

September 23rd, 2020

Public comment on the draft 2020 report is due by Oct 21st, 2020

Email Public Comment to: deep.climatechange@ct.gov

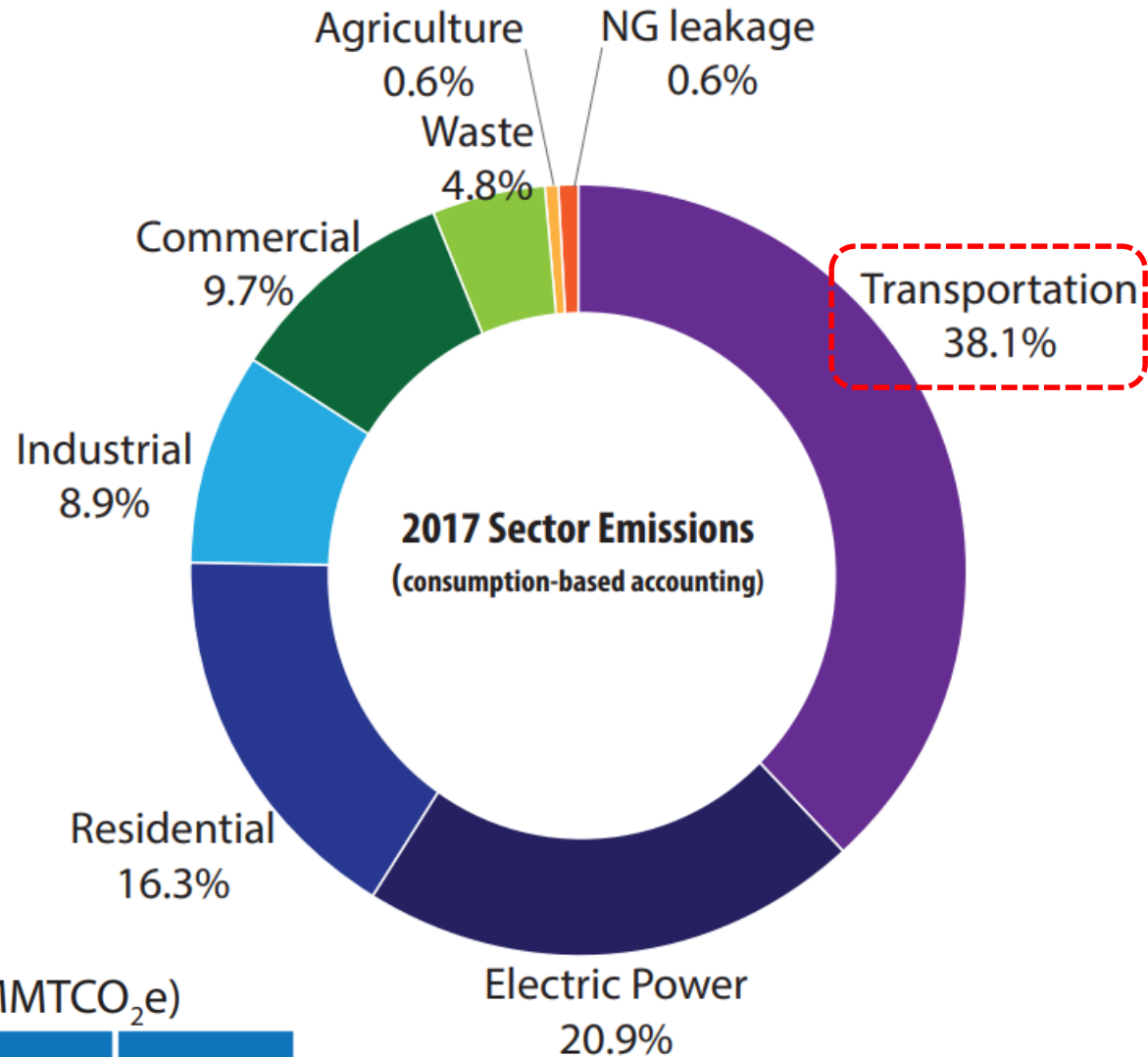
Working Group Team Member: Anthony Cherolis, [Transport Hartford](#) at the Center for Latino Progress

2017 Connecticut Greenhouse Gas Emissions Inventory [\(link\)](#)

Emissions Inventory captures **emissions within the state**

This method does not capture **life cycle emissions** of a product or fuel.

Example – An SUV built in Detroit purchased and driven by a Connecticut resident only has tailpipe emissions counted in Connecticut. The inventory does not assess the raw material and manufacturing emissions.



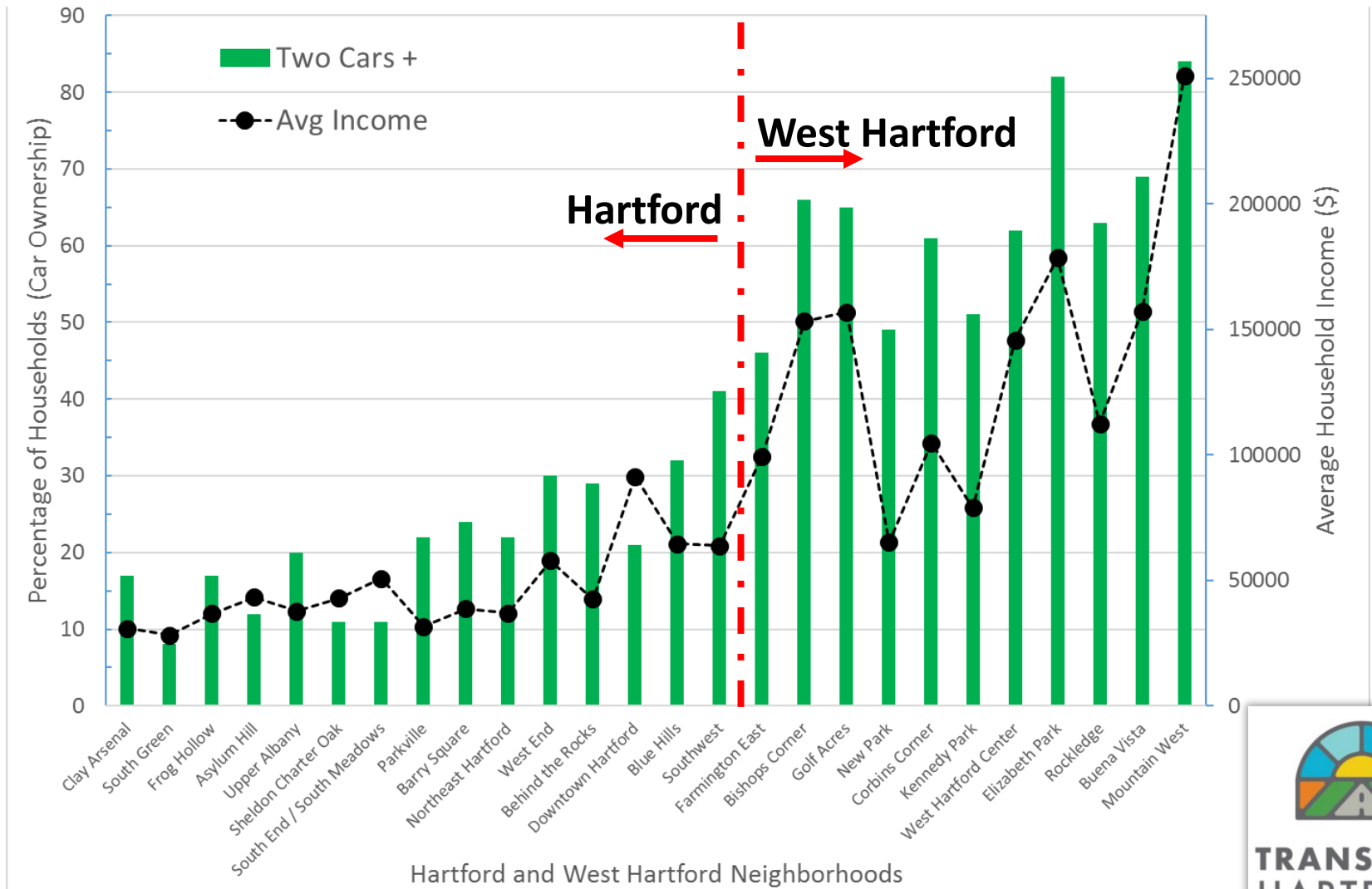
Connecticut Emissions by Sector (MMTCO₂e)

	1990	2001	2016	2017
Transportation	15.6	17.8	15.4	15.5

Equity & Environmental Justice

- Communities bearing greatest public health impact from emissions must be prioritized for benefits from a clean transportation system
- Low- and moderate-income (LMI) households spend a greater share of income on transportation. Many cannot afford vehicle ownership.
- An equitable approach to emissions reduction must look beyond electric cars

A car-centric transportation system and land use sprawl is inequitable

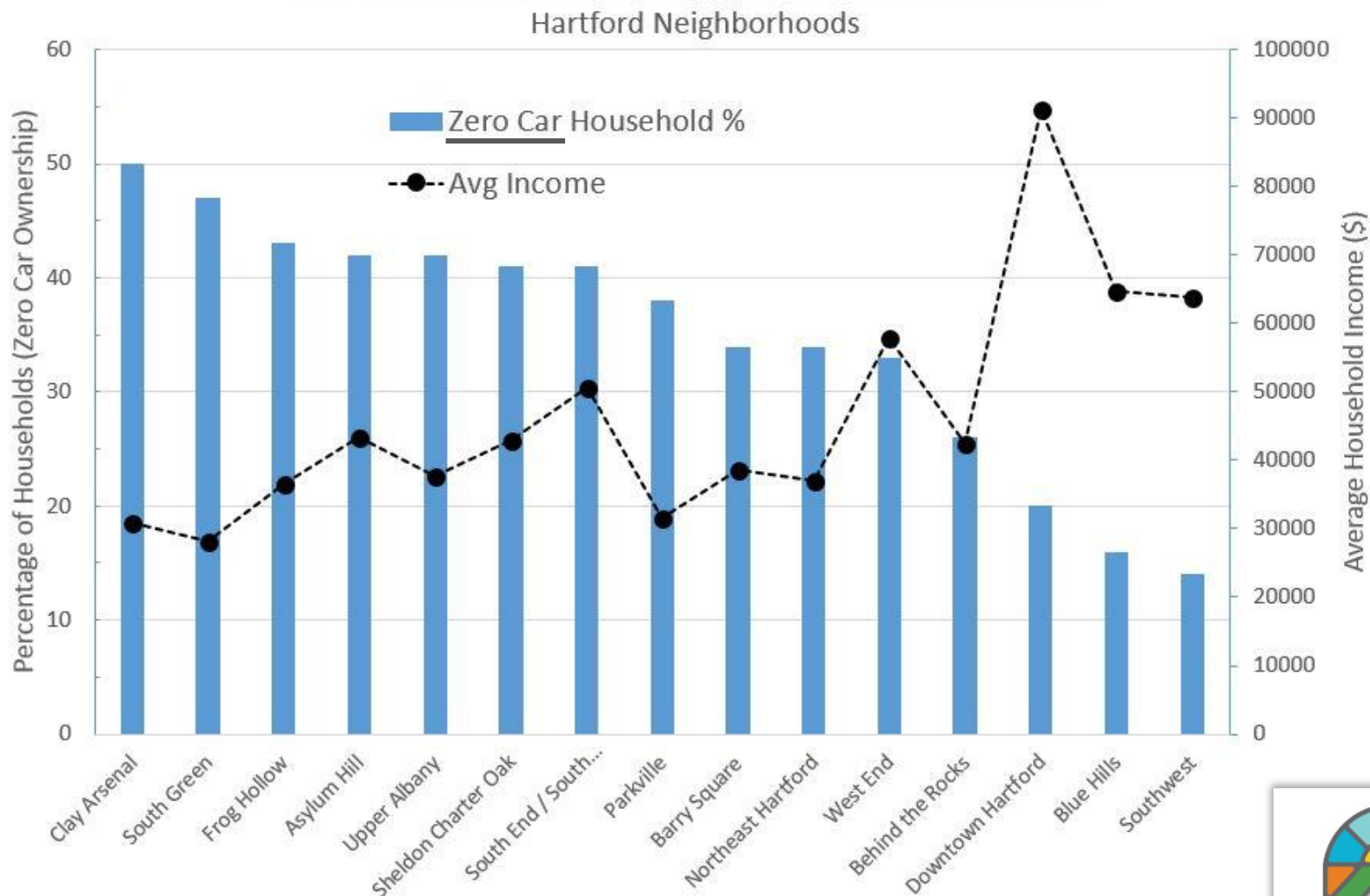


Source: US Census Community Survey Data (2016)



Which investments are egalitarian?

Hartford Car Ownership Data and Avg Household Income



Hartford Neighborhoods

Source: US Census Community Survey Data (2016)



[Four CT cities have high zero car ownership rates](#) – Hartford, New Haven, Bridgeport, and Waterbury

Equity & Environmental Justice (cont)

- **Prioritize investments in active transportation (walking and biking) and transit**
- **Address safety concerns for pedestrians, bicyclists, and other vulnerable users**
- Expanding access to zero emission vehicles in LMI communities will require intentional policies (car share, ride share, e-bikes)

WETHERSFIELD

Pedestrian Dies After Being Hit By Car in Wethersfield

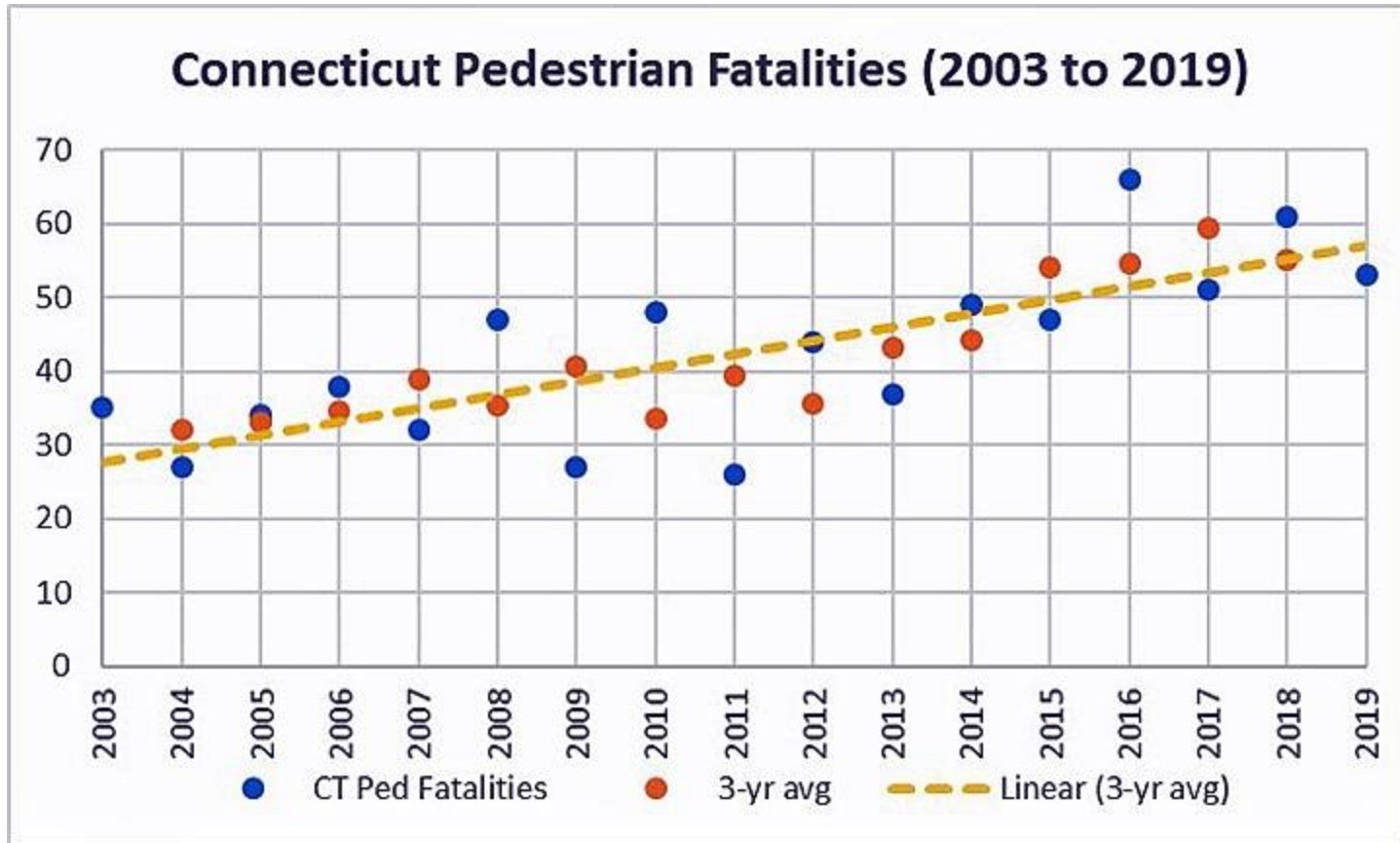
Published September 16, 2020 • Updated on September 17, 2020 at 10:20 am



Silas Deane Hwy, six lanes to cross on foot

A person has died after being hit by a car in Wethersfield Wednesday night, according to police. [\(link to article\)](#)

Pedestrian crash fatality data from the UConn Crash Data Repository



[Related article](#)

Four “Themes” from 2018

1. Increasing fuel economy standards
2. Increase zero emission vehicles as a percentage of fleet (>20% by 2030)
3. Eliminate annual growth of vehicle miles traveled (VMT) by 2030
4. Sustainable funding for electrification and transit infrastructure

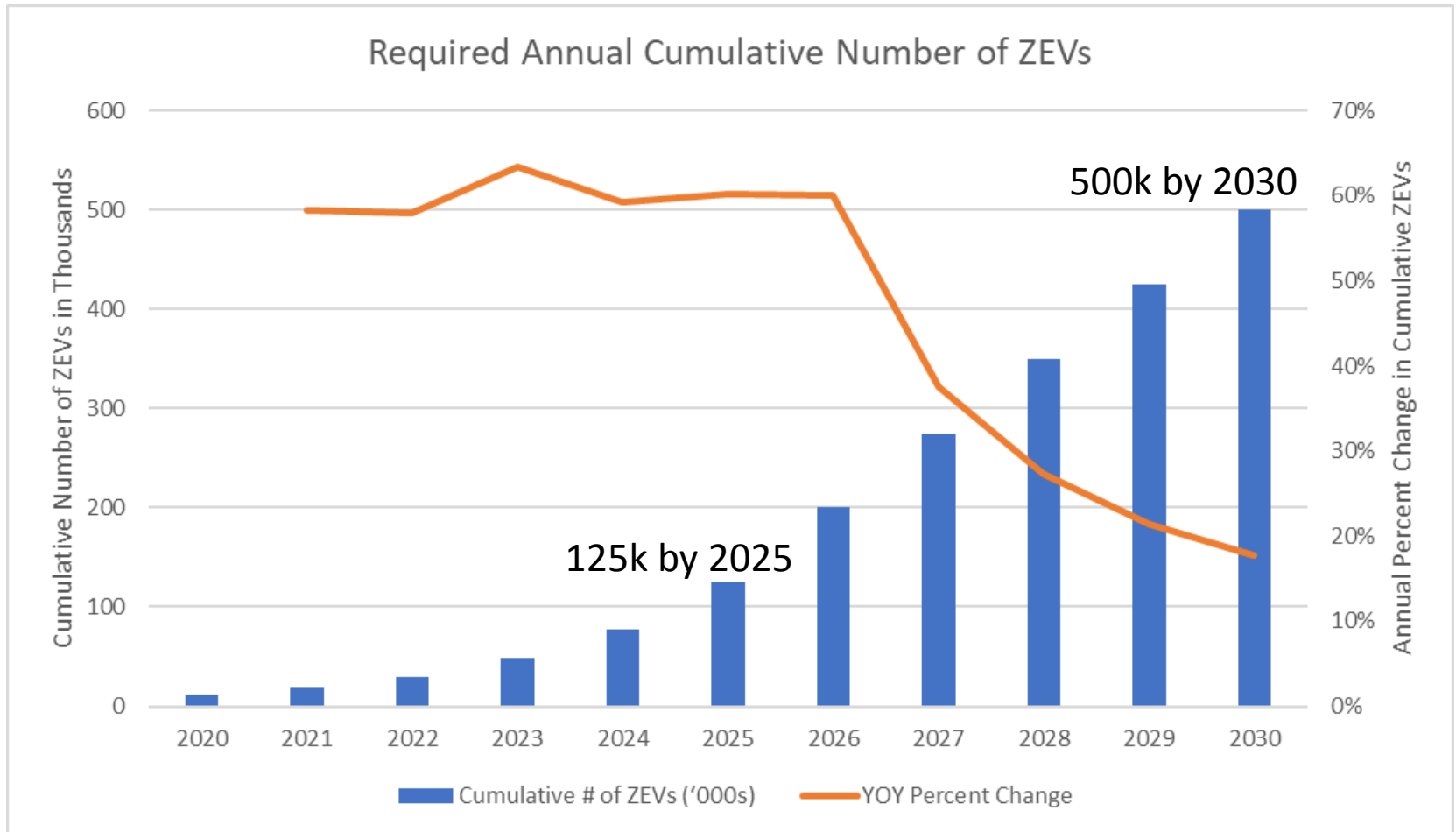
(1) Increasing Fuel Economy Standards

Status - Progress on light-duty vehicles hindered by concerted federal action to roll back policies; CT has joined other states in formal opposition to the changes

New 2020 Recommendation:

- Establish emissions standards for medium- and heavy-duty vehicles, including school buses.

(2) Increase ZEV penetration rate



[Based on the light duty vehicle ZEV target in the 2018 GC3 Report](#), pg 45

The [CT CHEAPR EV rebate program](#) has \$15 million (from \$5 ghg fee on registrations) over next 5 years, but would need \$87 to \$107 million to reach the 2025 EV penetration goal

(2) Increase ZEV penetration rate: Equity Considerations

- **Starting 1st Quarter 2021** – Increased EV rebate level for LMI households and an LMI rebate on the purchase of a used EV
- **New incentives proposed:** private fleets, e-motorcycles, e-bikes, e-scooters
- **Lead by Example program:** Increasing the ZEVs in the state fleet should prioritize fleet vehicles that operate in LMI and EJ communities

(2) Increase the Percentage of ZEVs: Equity Considerations

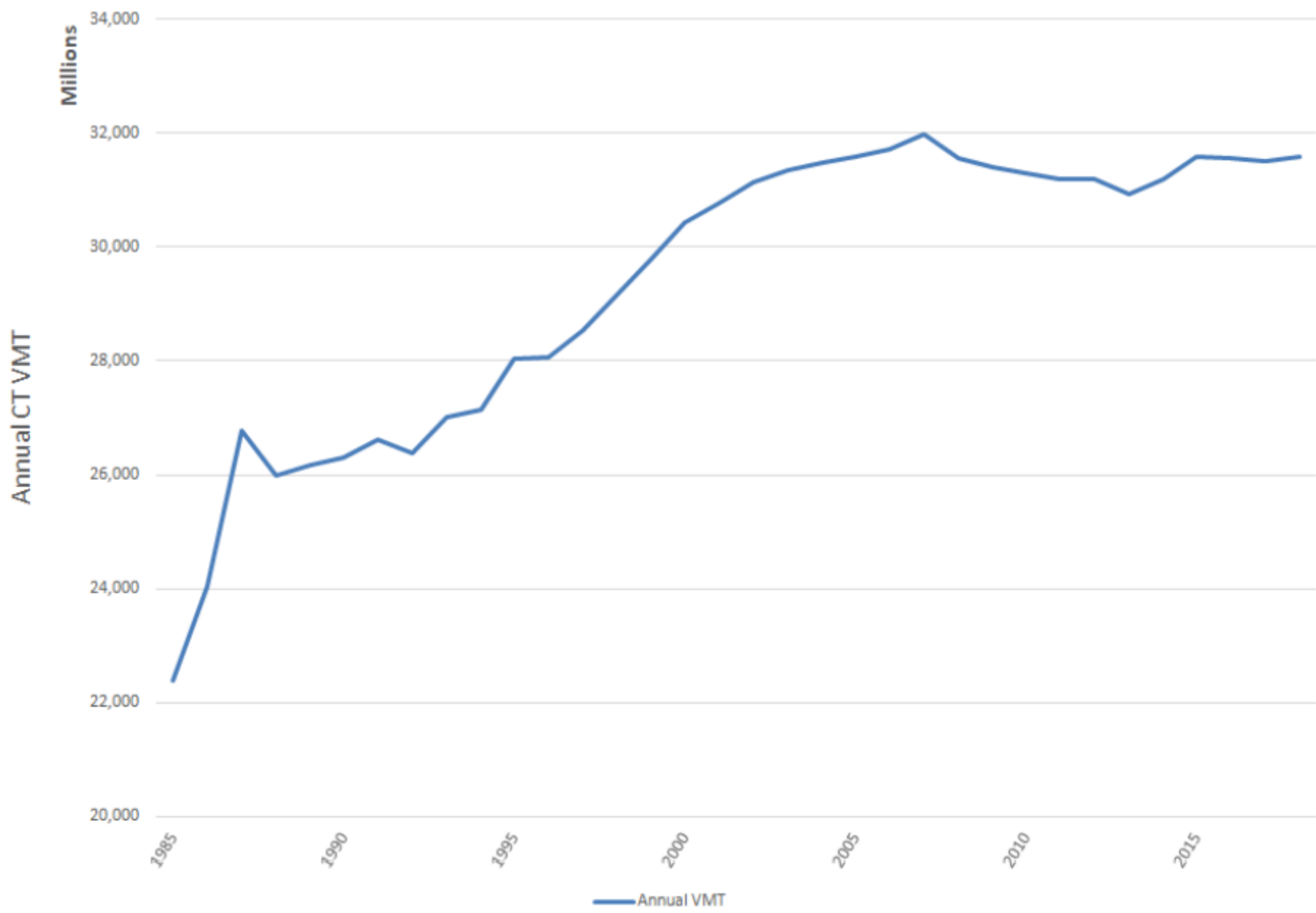
Establish statewide goals for zero-emission medium- and heavy-duty trucks and for school transportation

- **Existing target:** 30% of transit buses ZEV by 2030

New 2020 Recommendations

- New MOU on trucks (30% sales by 2030; 100% by 2050)
- ZEV school buses (50% by 2030)

Annual Vehicle Miles Traveled in CT 1985 - 2018



(3) Eliminate VMT Growth by 2030

Status / Progress

- Transit Oriented Development and Land Use Policy Reform
- Investments in frequent and convenient transit and commuter rail

New 2020 Recommendations

- Set a statewide goal to REDUCE Vehicle Miles Traveled at least 5% by 2030
- Transit Benefit, Parking Cash-Out and Telecommuting for State and Municipal Employees
- Expand U-Pass to private colleges and universities, and beyond that to employers and institutions
- COVID-19 recovery plans to revitalize transit and transit ridership

(4) Funding for Electrification, Transit, and Active Transportation Infrastructure

- Multi-state cap-and-invest program:
Transportation and Climate Initiative

New 2020 Recommendation

- 100% of greenhouse gas reduction consumer fees should go to emissions reduction
- Remove the legislative prohibition on exploring a mileage-based user fee

Reduce the number of vehicles on the road

New 2020 Recommendation (with equity benefit)

- Explore car-share options for municipal and state fleets that are rentable evenings, weekends, and holidays by residents
- Expand ZEV rebate programs beyond resource intensive and expensive EV cars

Equity Impact – Four cities in Connecticut have a high percentage of zero-car households – Hartford, New Haven, Bridgeport, and Waterbury. Expanded car-share provides additional mobility options for those households, reducing the need for individual car ownership.

Reduce Emissions from Freight and Shipping

New 2020 Recommendations

- Previously mentioned medium and heavy-duty zero emission vehicle MOU
- Reduce shipping tonnage from the waste sector (increase local composting and reduce packaging waste)
- Seek opportunities to shift freight from trucks to rail and ports

**Have more ideas and
comments to share?**

Email to:

deep.climatechange@ct.gov

(deadline is Oct 21st)

Join a bustling discussion page:

[Transport Hartford – Talking Transportation](#)