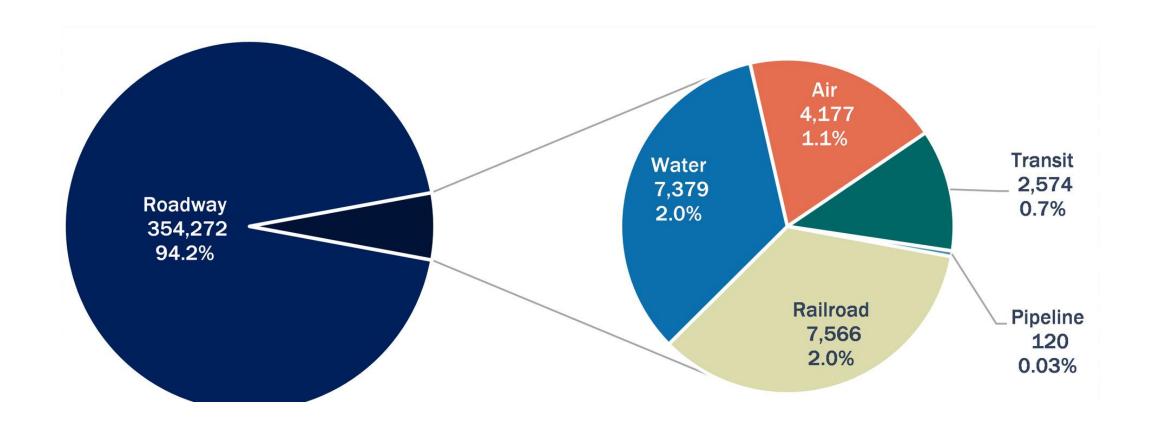
# Automation and Electrification of the Vehicle Fleet

A view from

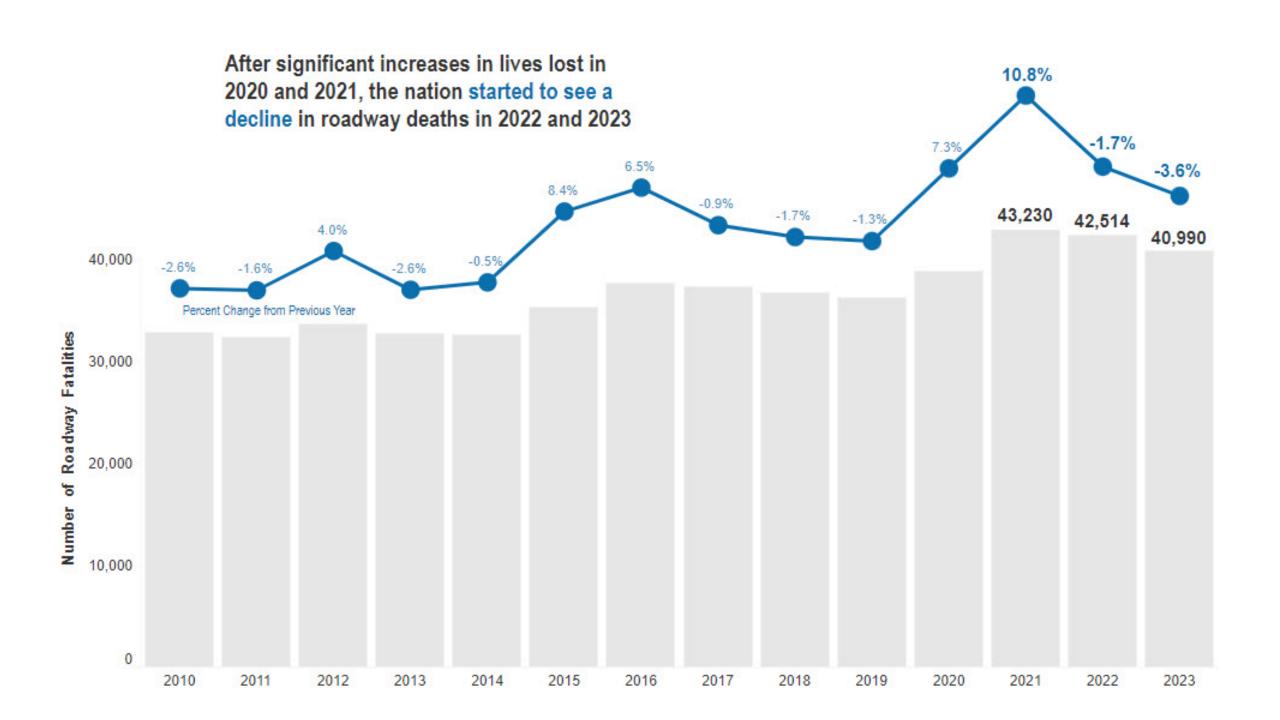


Ann Carlson Shirley Shapiro Professor of Law UCLA School of Law The Future. of Transportation: Environmental Law in Motion AALS January 10, 2025

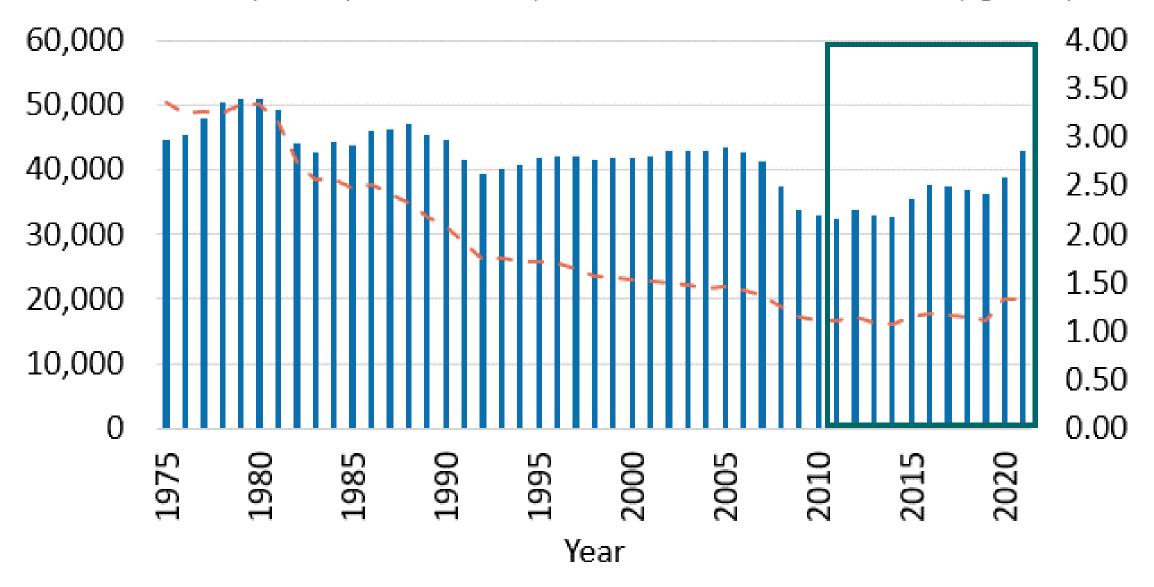


Source: U.S. DOT

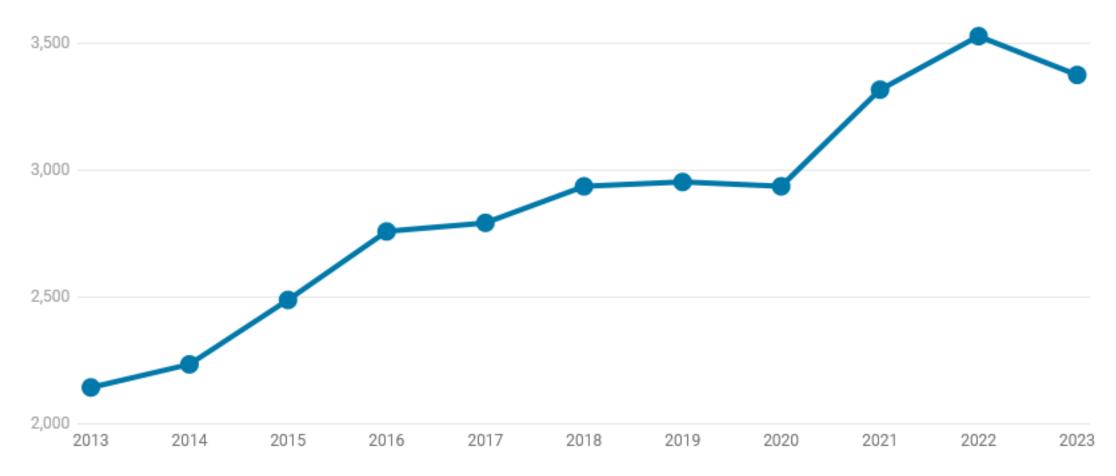
 Fatalities by Transportation Mode, 2011-2020, US DOT



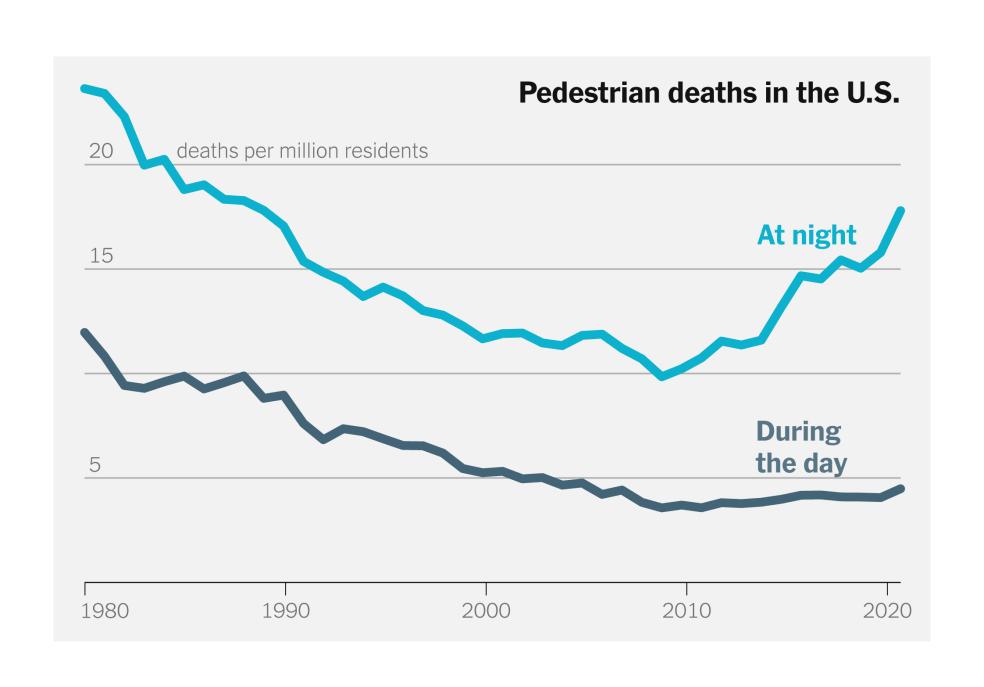
Fatalities (left axis) — — Fatalities per 100 million vehicle miles traveled (right axis)



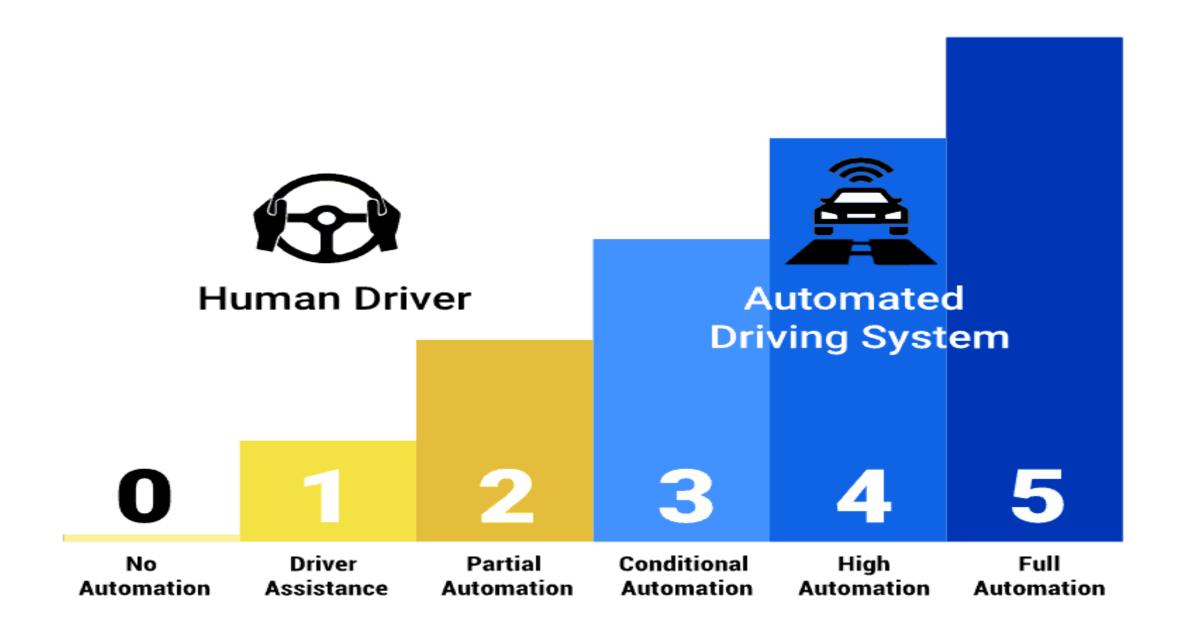
## U.S. Pedestrian Traffic Fatalities, 2013-2023 (January-June)



Source: Governors Highway Safety Association • Get the data • Download image • Created with Datawrapper



#### Levels of Automation For On-Road Vehicles







#### 2024-26 Final CAFE Rule

Table II-4 – Estimated Average of CAFE Levels (mpg) Required Under Final Rule

Fleet	2024	2025	2026	2027	2028	2029
Passenger Cars	49.2	53.4	59.4	59.4	59.3	59.3
Light Trucks	35.1	38.2	42.4	42.4	42.4	42.4
Overall Fleet	40.6	44.2	49.1	49.1	49.2	49.3

Table I-4: Estimated Required Average and Estimated Achieved Average of CAFE Levels

## (mpg) for Passenger Cars and Light Trucks, Reference Baseline, Preferred Alternative

### PC2LT002<sup>19,20</sup>

Model Year	2022	2027	2028	2029	2030	2031				
Passenger Car										
Required	44.1	60.0	61.2	62.5	63.7	65.1				
Achieved	47.1	68.6	68.4	68.6	68.6	70.8				
Light Truck										
Required	32.1	42.6	42.6	43.5	44.3	45.2				
Achieved	32.1	43.7	44.2	44.9	45.3	46.4				
Total LD Fleet										
Required	35.8	47.3	47.4	48.4	49.4	50.4				
Achieved	36.5	49.9	50.2	50.8	51.1	52.5				

