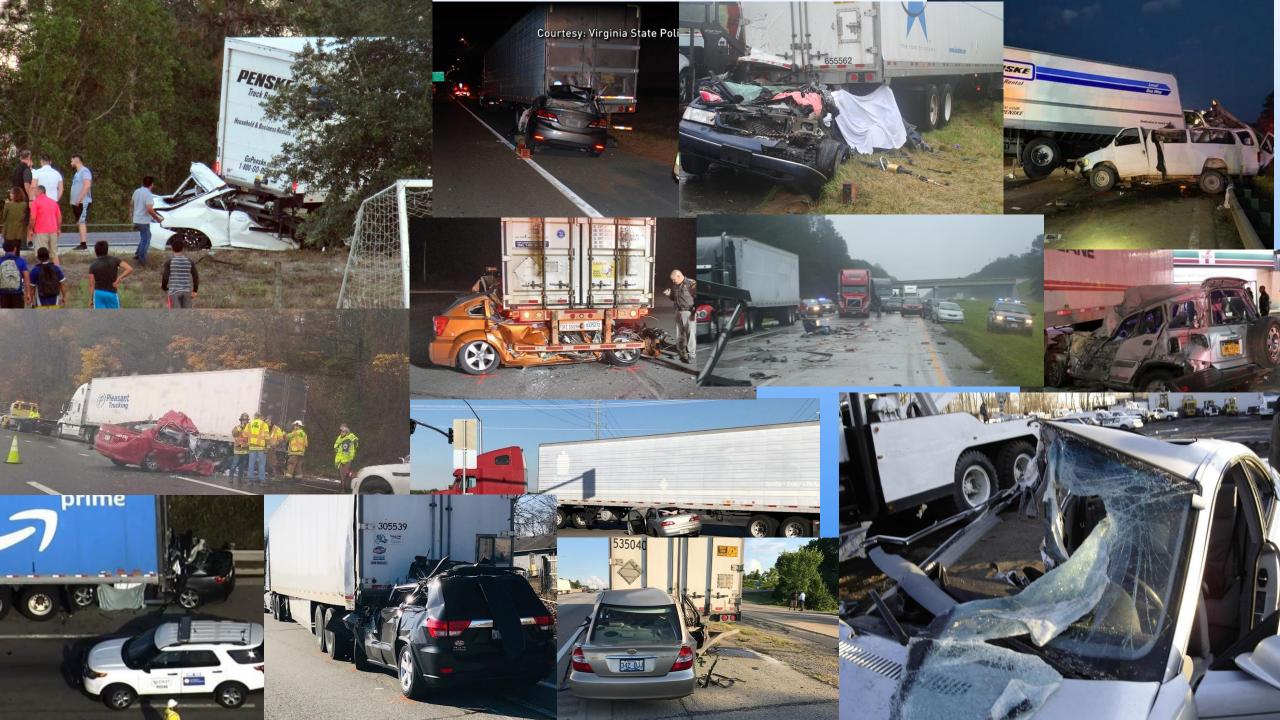
## **Basic Underride Information**

A presentation in memory of North Carolina underride victims AnnaLeah & Mary Karth

























Their deaths were preventable.









#### Important to Know About Underride

- Geometric Mismatch between bumpers occurring at the rear, side & front of trucks
  - Passenger Compartment Intrusion (PCI)
- Underride bypasses cars' crashworthy features
  - It's not the crash that kills, it's the underride!



Ford

Windstar

The front of a truck can go over a car

Hyundai Sonata

Kia Spectra

rce: Oklahoma State Police

Victims of preventable underride include not only occupants of passenger vehicles but also Vulnerable Road Users, including pedestrians, bicyclists, and motorcyclists.

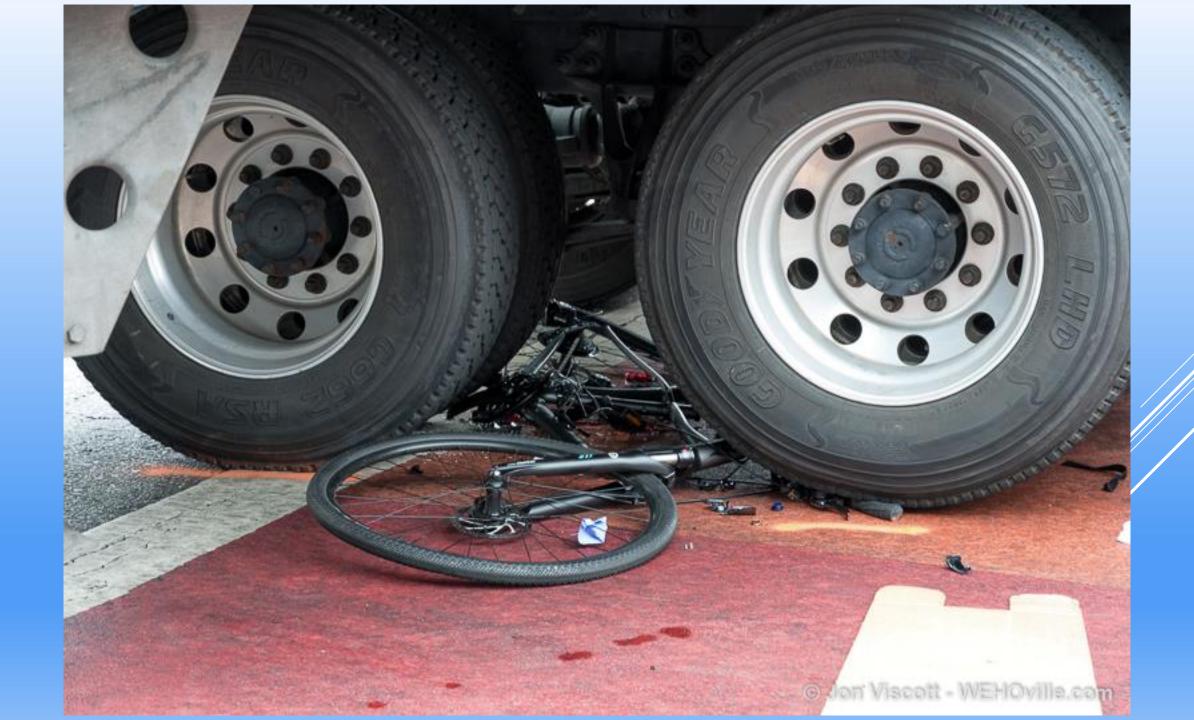


## Underride Is A Major Factor In Vulnerable Road User Collisions With Trucks

#### One example is Sylvia Bingham:

"As a cyclist, she was hit by a straight truck and went underneath that straight truck."

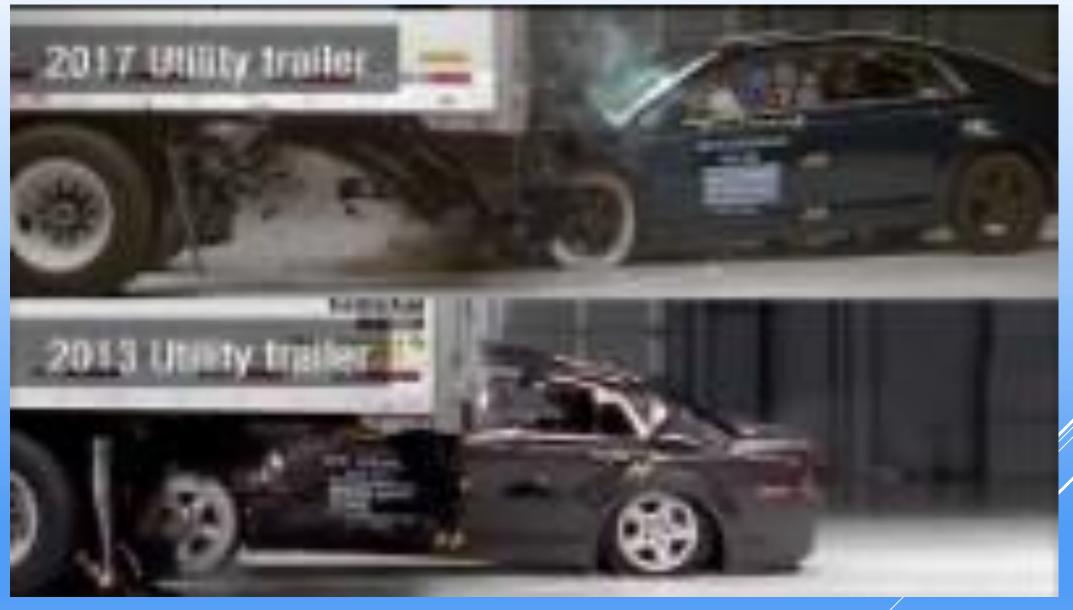
"It's not the initial impact. It's when they go underneath the truck, and they're hit by the back wheel."





## The Million \$ Question:

Is it technologically, practically, and economically feasible to STOP underrides?



The difference a well-designed underride guard can make





Crash Test of Rear Impact Guard Retrofit

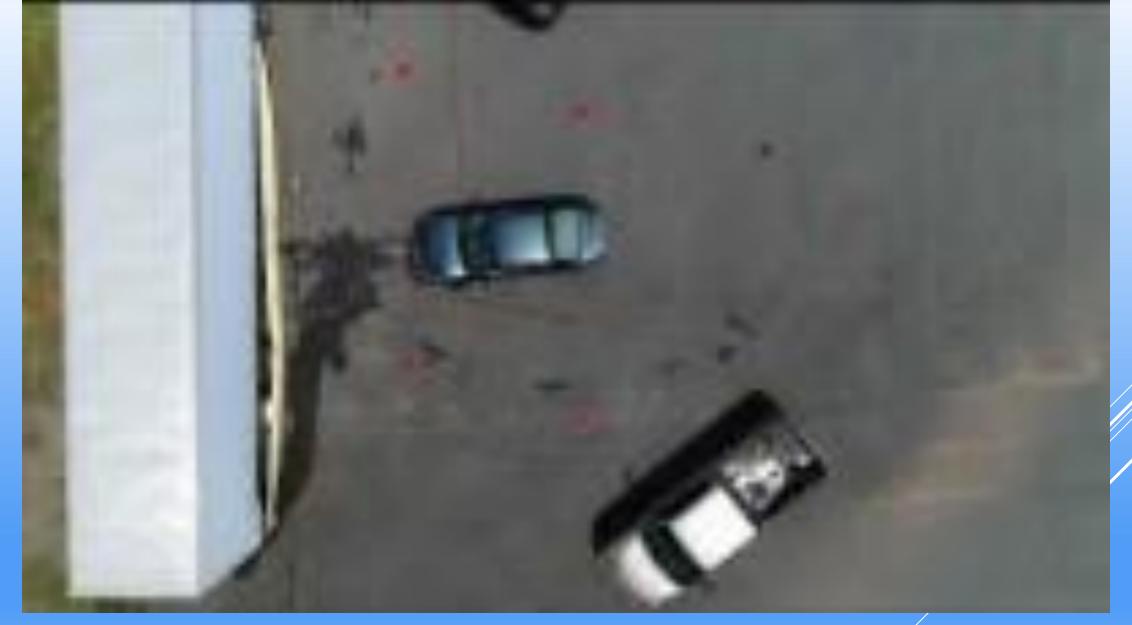




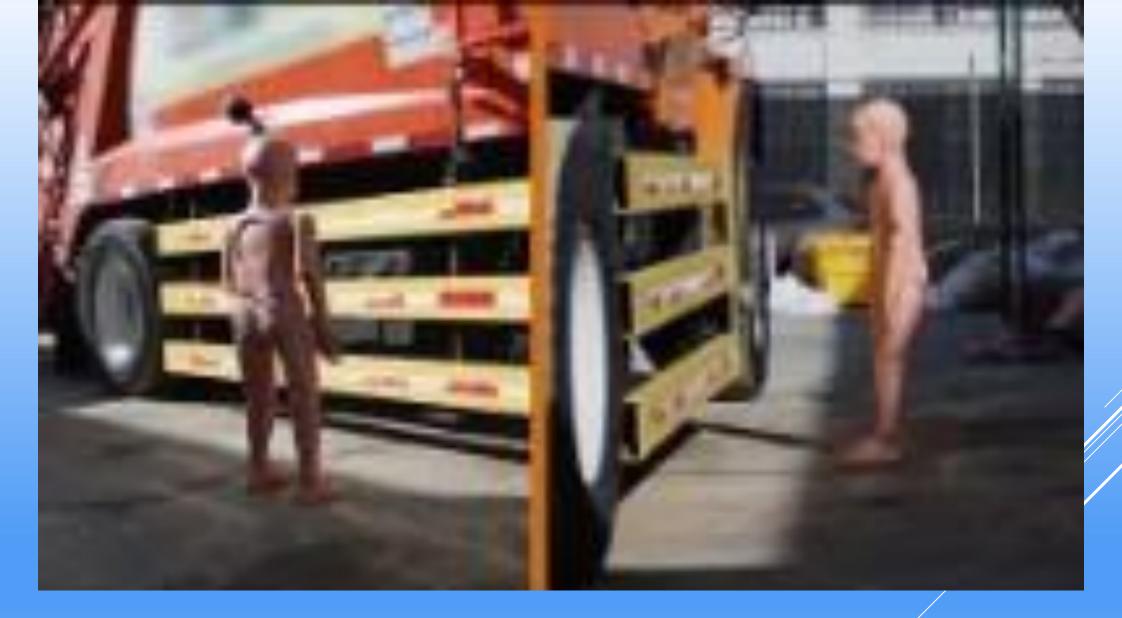
Side Guards Save Lives



Safety Skirt Crash Test in DC



**Aerial View of Safety Skirt Crash Test** 



How Side Guards Protect Pedestrians & Cyclists

# We've waited 53 years.

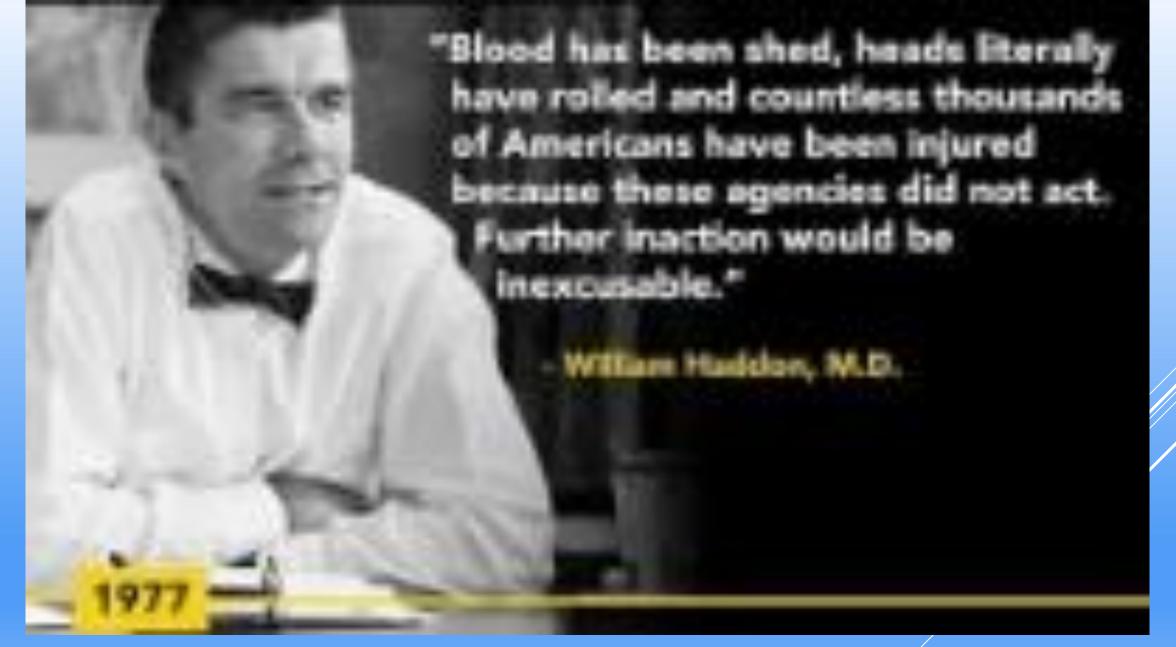
"It is anticipated that the proposed Standard will be amended, after technical studies have been completed, to extend the requirement for underride protection to the <u>sides</u> of large vehicles."

Federal Register, Vol. 34, No. 53 — Wednesday, March 19, 1969

Fix the underride problem NOW!

## On a mission to make truck crashes more survivable Multi-prong Strategy

- Petitioning USDOT
- Raising national underride awareness
- Communication with the industry
- Supporting research efforts (including NC engineer/crash reconstructionist Aaron Kiefer)
- Introduction of underride legislation new & retrofit



<u>Timeline of Underride Safety</u>

The 2021 Bipartisan Infrastructure Law includes an Underride Section for NHTSA to issue an improved rear guard rule for new trucks and additional research on side underride. Now it's up to Secretary Buttigieg to determine, by November 15, 2022, whether a side guard regulation is "warranted."

Unfortunately, there is no guarantee what he will decide or how quickly the USDOT will move. (Congressman Price to Sec. Chao)

#### Proposal for Action by the NC ECHS

Resolution

Letter of Support

Send a strong message to Secretary Pete Buttigieg. Let him know that you want him to require side guards on large trucks.

### **Next Steps**

Encourage NC state lawmakers to introduce a side guard law. (Current action in other states)

Support the petition to the NC DOT for an amendment to the <u>rear underride guard rule</u> (p.6) requiring commercial motor vehicles to be equipped with a rear underride guard which meets or exceeds the Insurance Institute for Highway Safety <u>TOUGHGuard</u> standard in order to save lives on North Carolina roads.







Congressman Price questions Secretary Chao on Underride Timeline