

HELMET SAFETY AND SNELL FOUNDATION

Hong Zhang

Texas Motorcycle Safety Forum

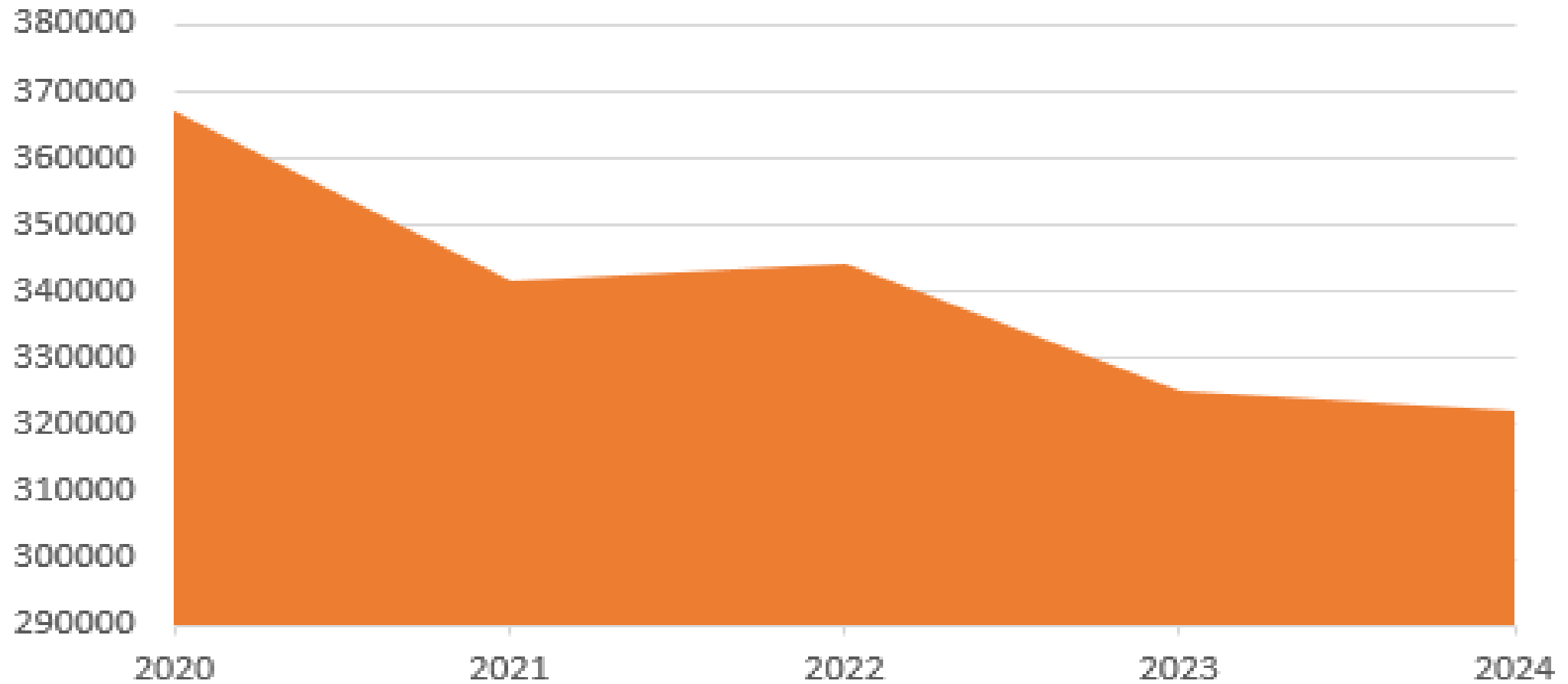
Key Note Speech

Austin, Texas

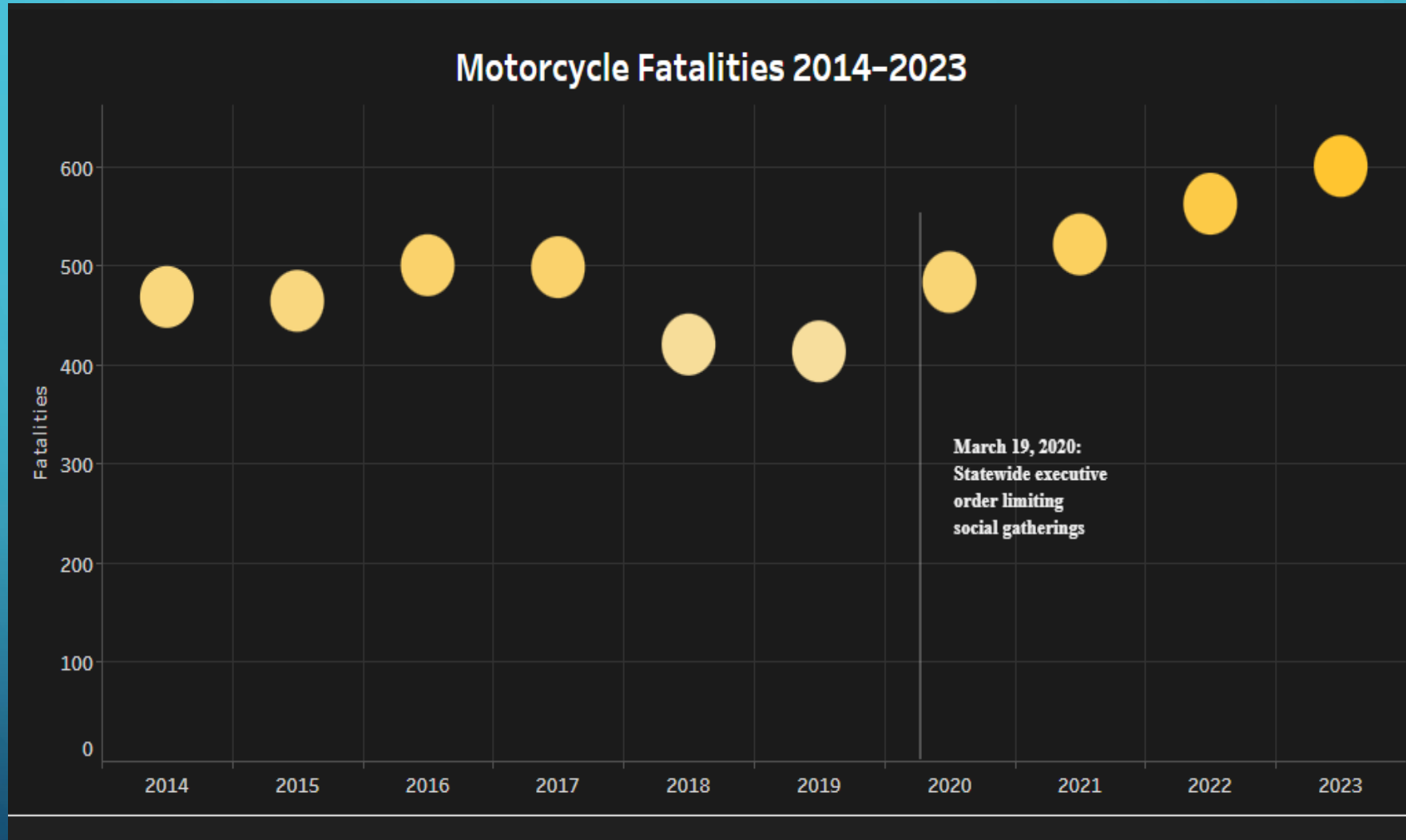
May 3, 2025



Texas Motorcycle Registration (TX DOT)



TEXAS MOTORCYCLE FATALITIES (TX DOT)

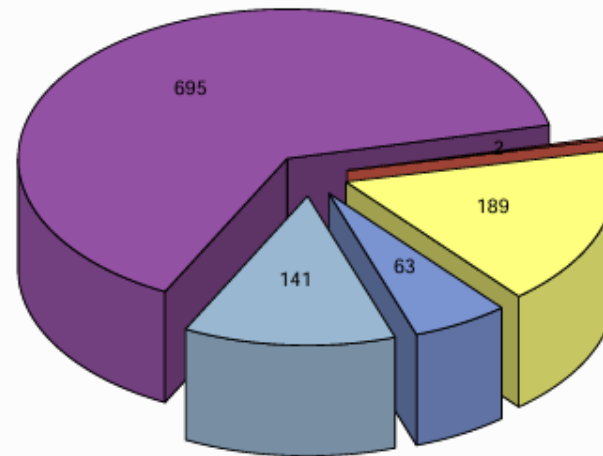


TEXAS DUI RELATED TRAFFIC FATALITIES (TX DOT)



Fatalities in Crashes Involving DUI (Alcohol)

2023



Pedestrians and Pedalcyclists

Passengers in Vehicles Driven by DUI Drivers

DUI Drivers

Others

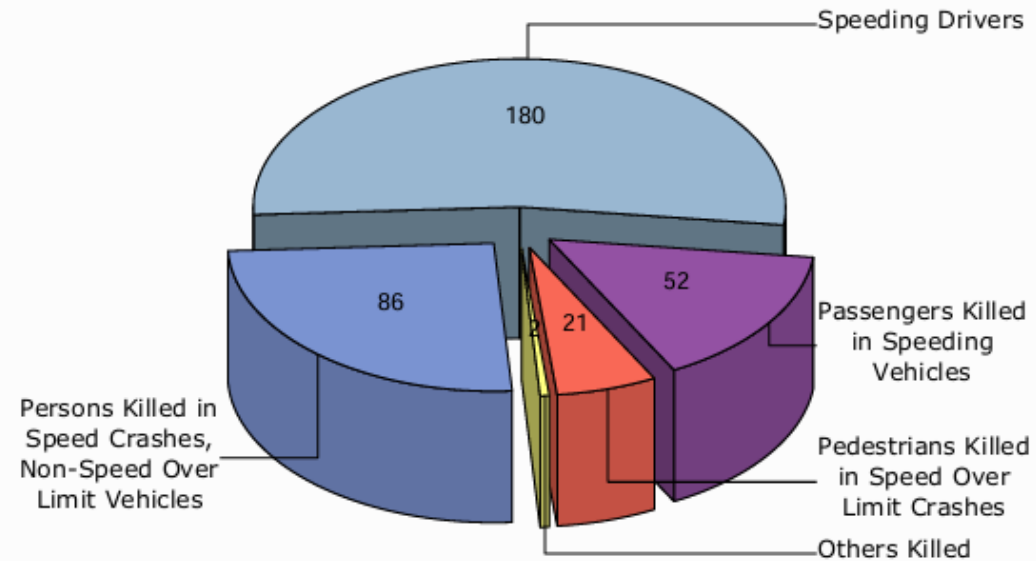
Persons in Vehicles Not Driven by DUI Drivers

TEXAS SPEED RELATED FATALITIES (TX DOT)

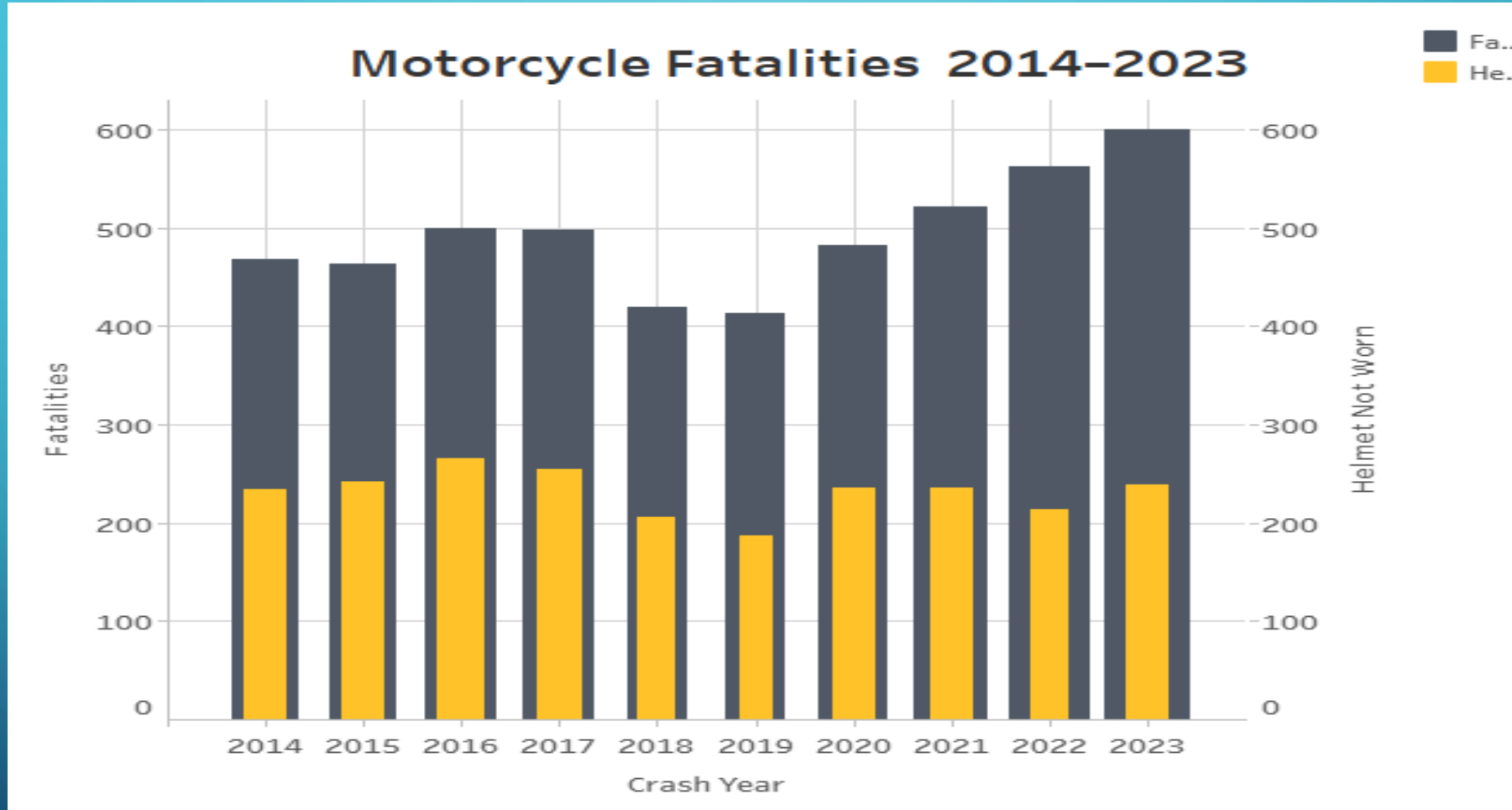


Fatalities in Crashes Involving Speed - Over Limit

2023

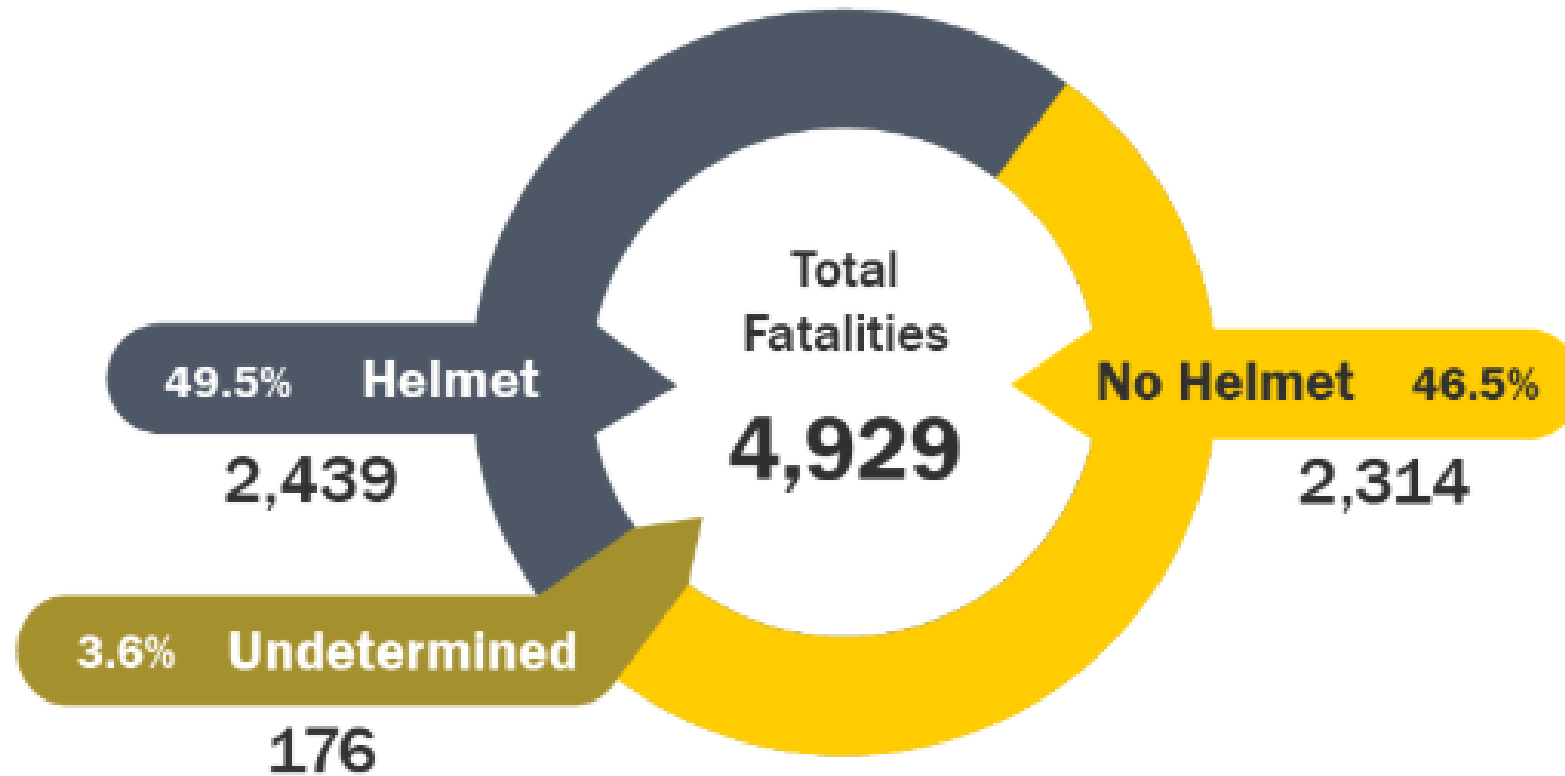


TEXAS MOTORCYCLE FATALITIES WITHOUT HELMET (TX DOT)



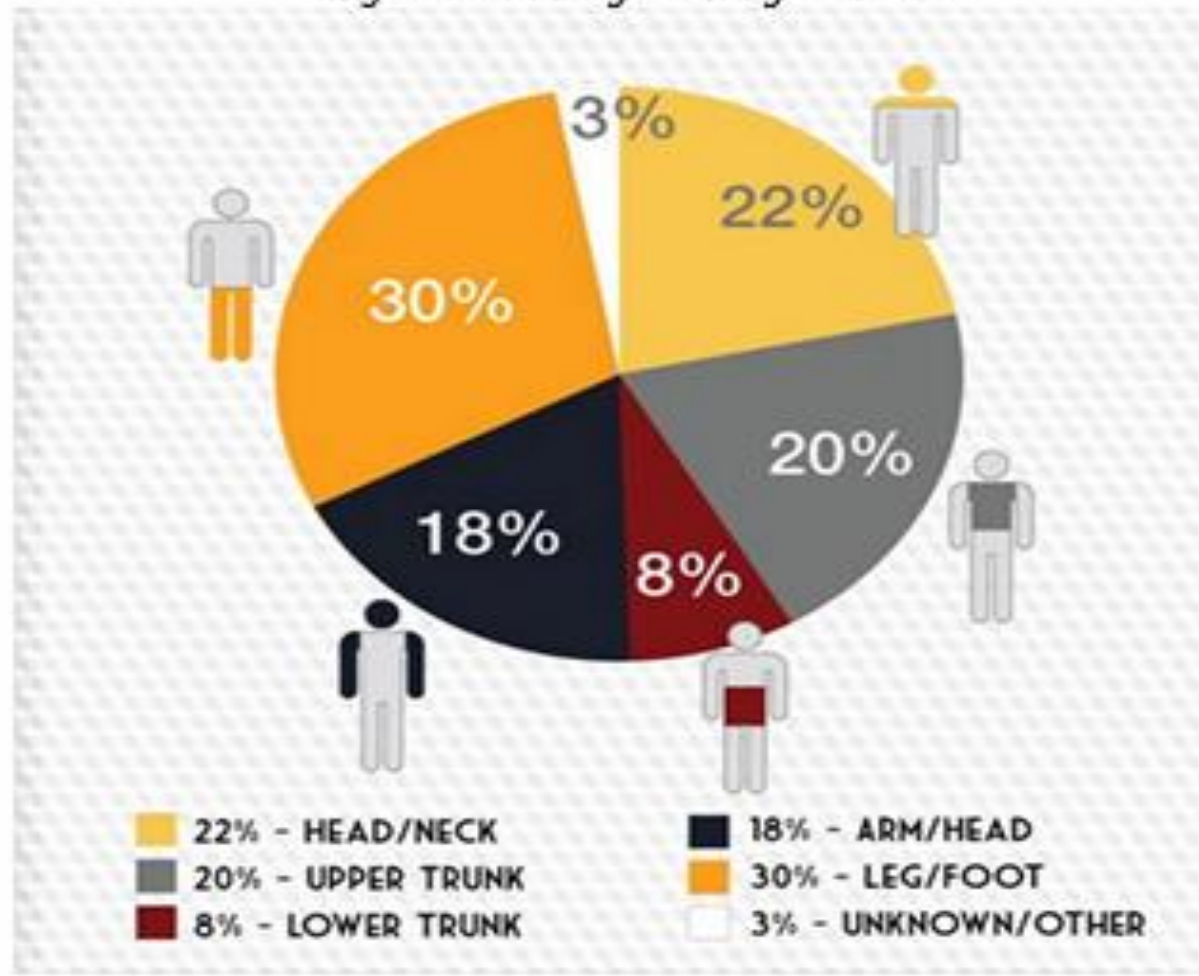
UNITED STATES MOTORCYCLE FATALITIES/HELMET USE (NHTSA)

Motorcycle Crash Fatalities 2014–2023



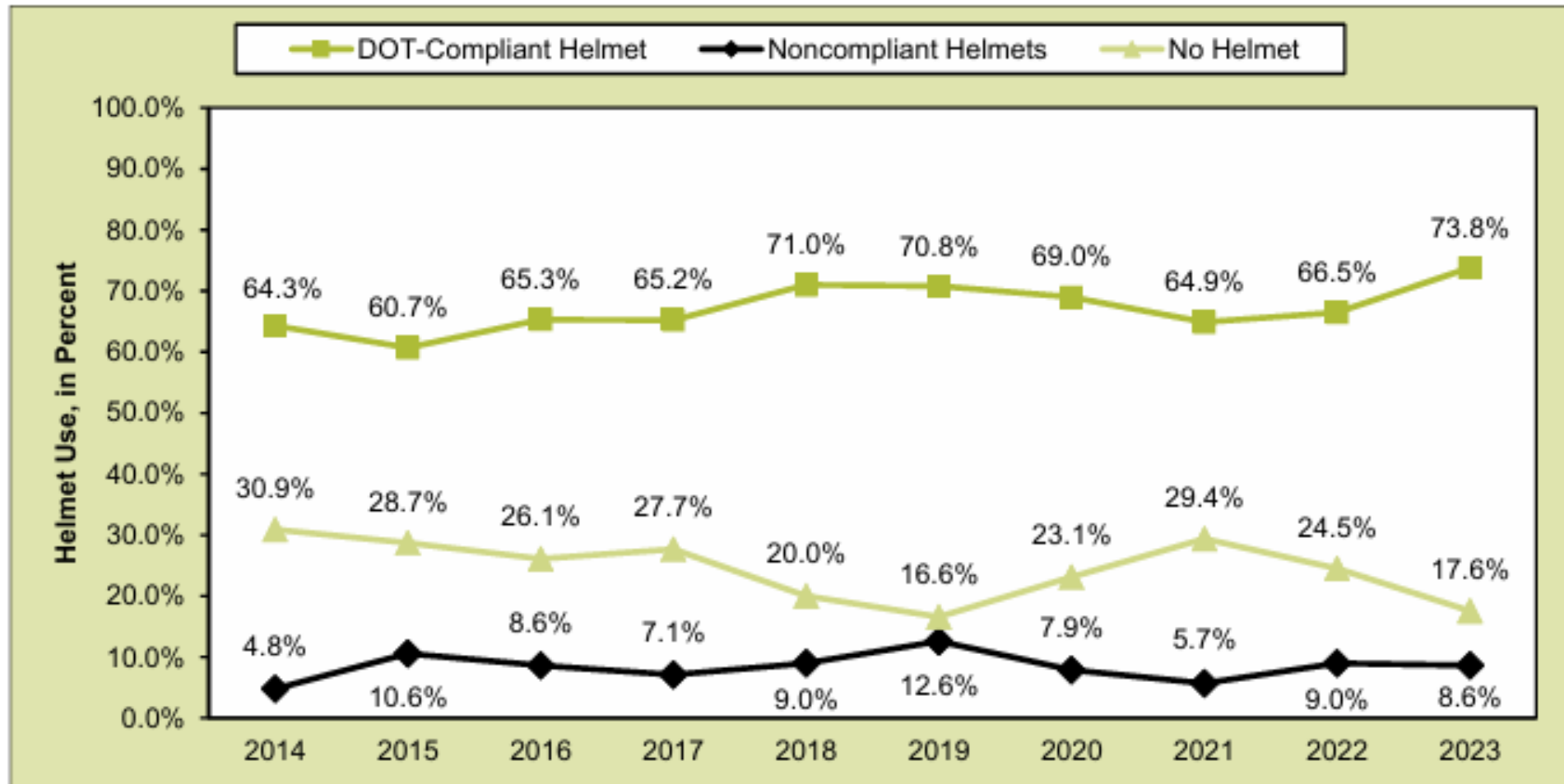
UNITED STATES MOTORCYCLE INJURIES (NHTSA)

Figure 1-9. Nonfatal Motorcyclist Injuries by Primary Body Part



US HELMET USE DATA (NHTSA 2014-2023)

Figure 1. Motorcycle Helmet Use by Compliant, Noncompliant, and No Use, 2014-2023



Source: NOPUS

EFFECTIVENESS OF MOTORCYCLE HELMET USE

- In Preventing Rider Fatalities: 37%
- In Preventing Passenger Fatalities: 41%
- 1,859 US motorcyclists' lives were saved by helmet use in 2016.
 - 129 Texas motorcyclists' lives saved by helmet use. (NHTSA 2016 Data)
- 802 motorcyclists could have been saved (2016 NHTSA Data)
 - 102 more Texas motorcyclists' lives could have been saved in 2016.





BEGINNINGS

- AMATEUR RACER WILLIAM "PETE" SNELL
- ROLLOVER CRASH IN ARCATA, CA
- DIED OF HEAD INJURY

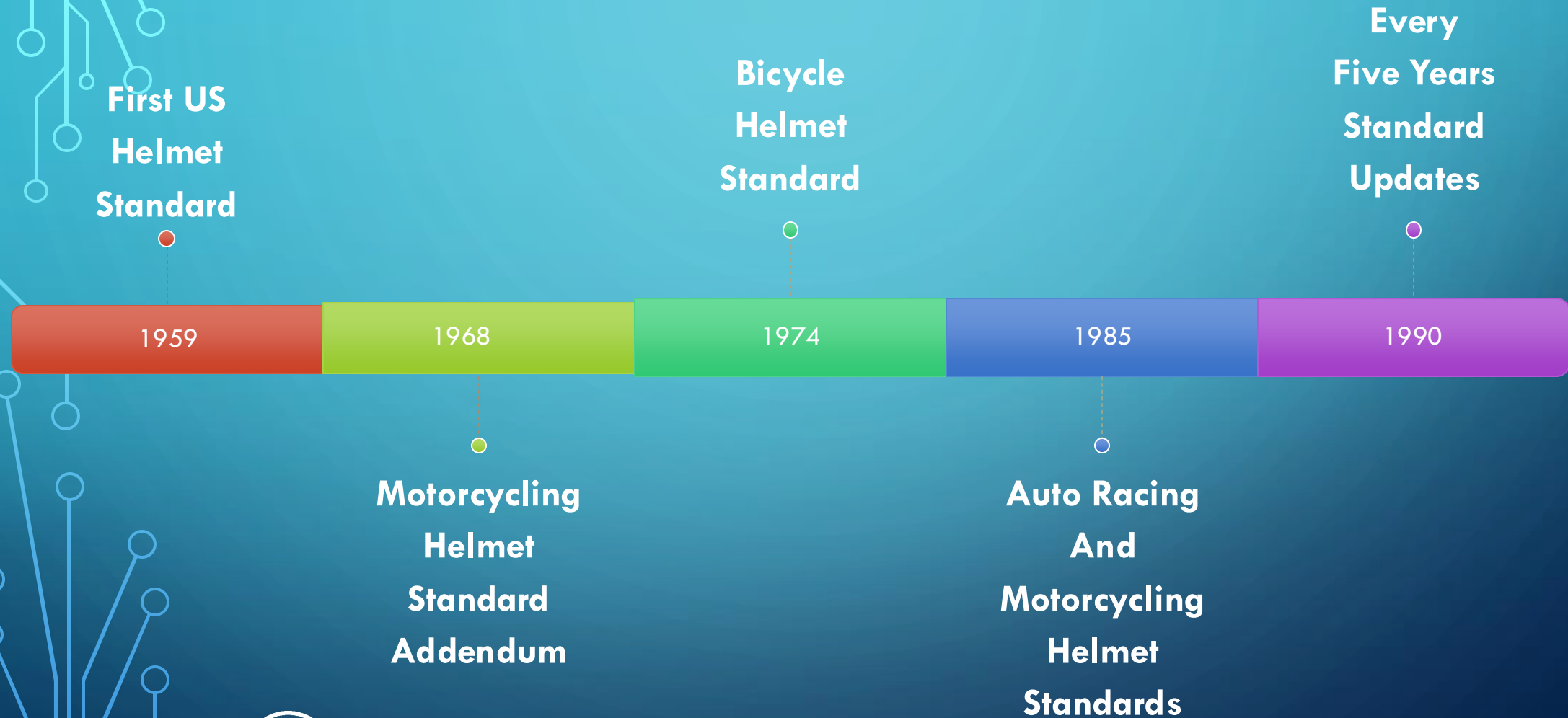
— August 6, 1956



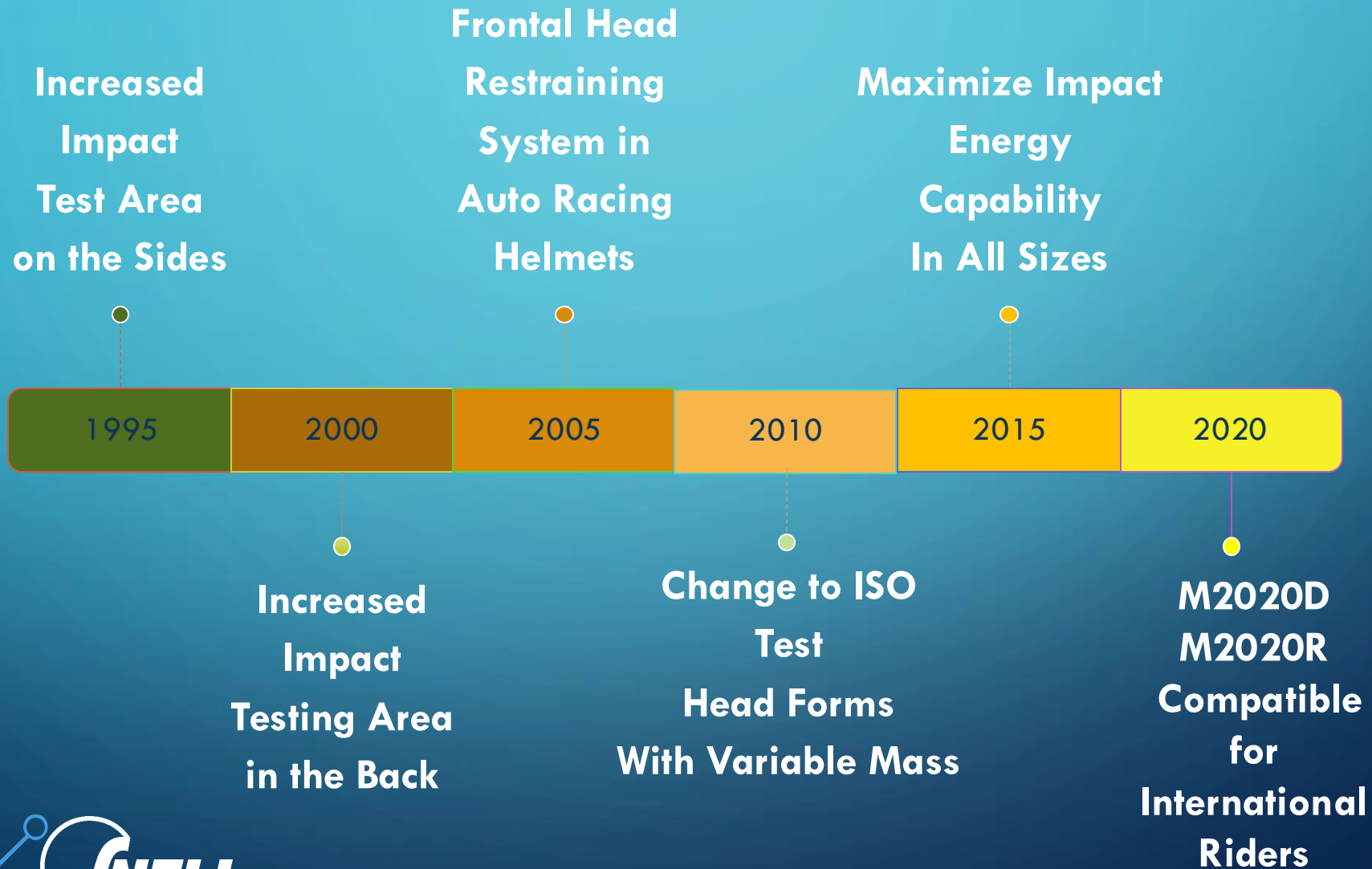
PETE SNELL'S HELMET



SNELL STANDARDS DEVELOPMENT

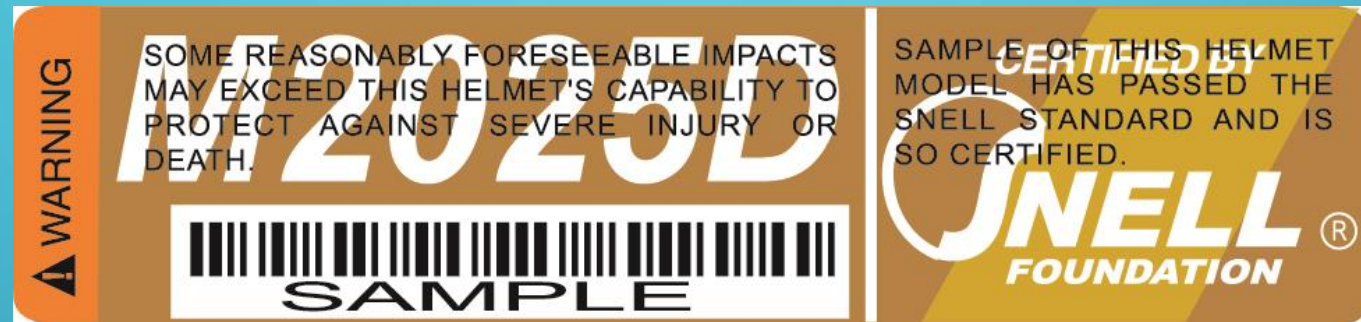


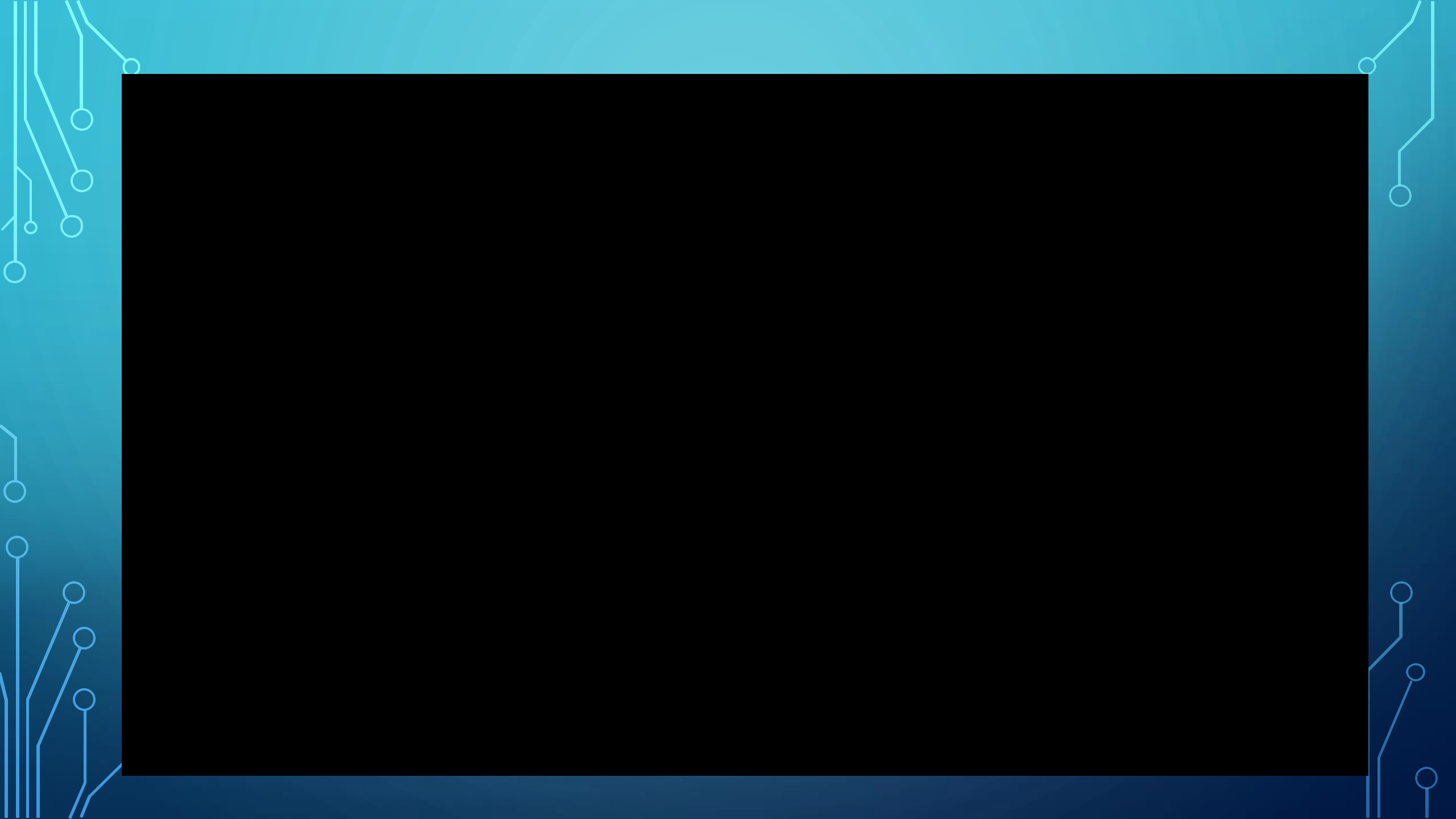
SNELL STANDARDS DEVELOPMENT



SNELL M2025 STANDARDS

EFFECTIVE AUGUST 2024







Snell Foundation lab: Helmet Impact Management Test

MOTORCYCLE HELMET STANDARDS

Snell

Current: M2025D, M2025R

Current: M2020D, M2020R

Previous: M2020D, M2020R, M2015...M-85

DOT – FMVSS 218

ECE – ECE R 2206

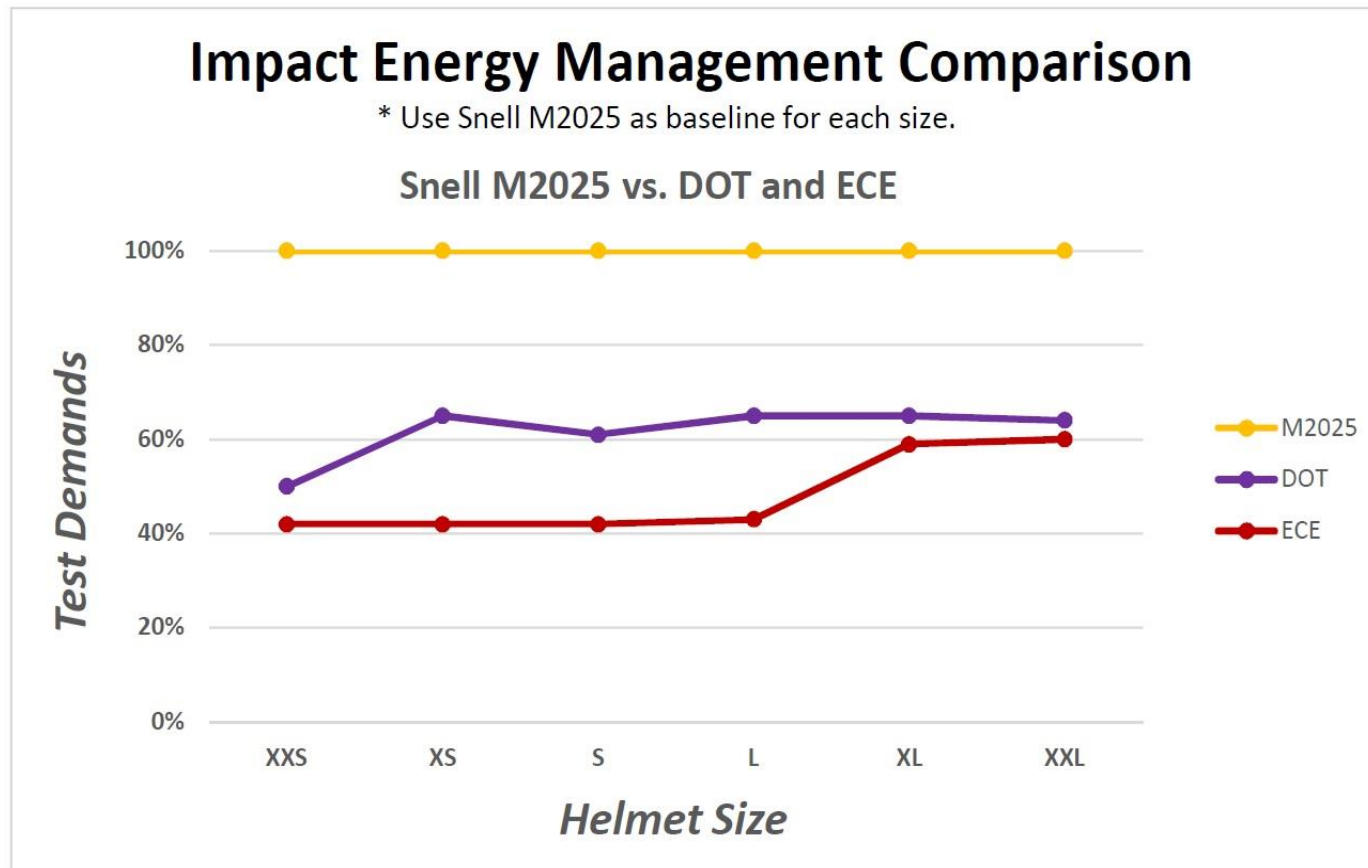


WWW.SMF.ORG

SNELL MEANS PREMIUM PROTECTION.

DOT AND ECE ARE MINIMUM REQUIREMENT.

IMPACT ENERGY MANAGEMENT COMPARISON



DAMAGED LINER





FOR MORE INFORMATION

Videos in Snell Youtube Channel

How Helmet Works to Protect the Brain

Why Helmet Standards Matter

Snell Lab Tour

Snell Facebook/Twitter

Call Snell: 1-888-SNELL99 (888-763-5599)



WWW.SMF.ORG

LAST WORDS

Helmet protective capabilities is not readily apparent. Drivers and riders can look for a serialized Snell label for guidance.

There are reasonably foreseeable crashes that will exceed a helmet's protective capabilities.

In serious crashes drivers and riders need all the impact management capability a helmet can offer.

Replace a helmet involved in a crash !!!
www.smf.org and 888-SNELL99 for more info

