



# CYCLIST SERIOUS INJURIES

ETSC PIN TALK - 21 APRIL 2026

Lies Bouwen

# Belgian hospital data



## Minimal Hospital Data (MHD)



Registration through which **all non-psychiatric hospitals** in Belgium must make their (anonymized) **administrative, medical, and nursing data** available to the FPS Public Health



2005-2014 (ICD-9)  
2016-2023 (ICD-10)



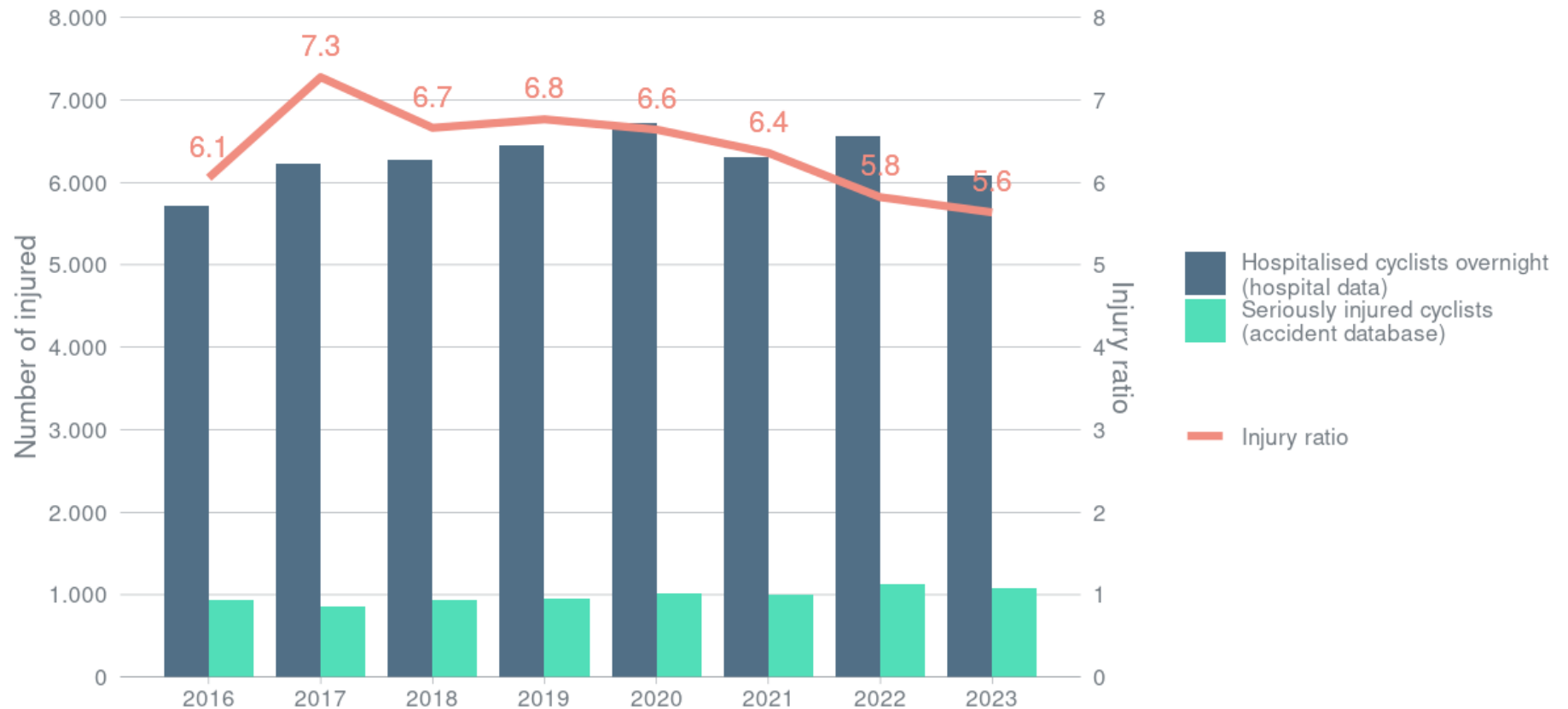
Selection of traffic accidents: V00-V88 (cyclists: V1 codes)  
Injury severity: ICD-AIS conversion (AAAM conversion table)

# UNDERREPORTING

Hospitalised cyclists versus seriously injured cyclists in accident database (left axis) and corresponding injury ratio (right axis)

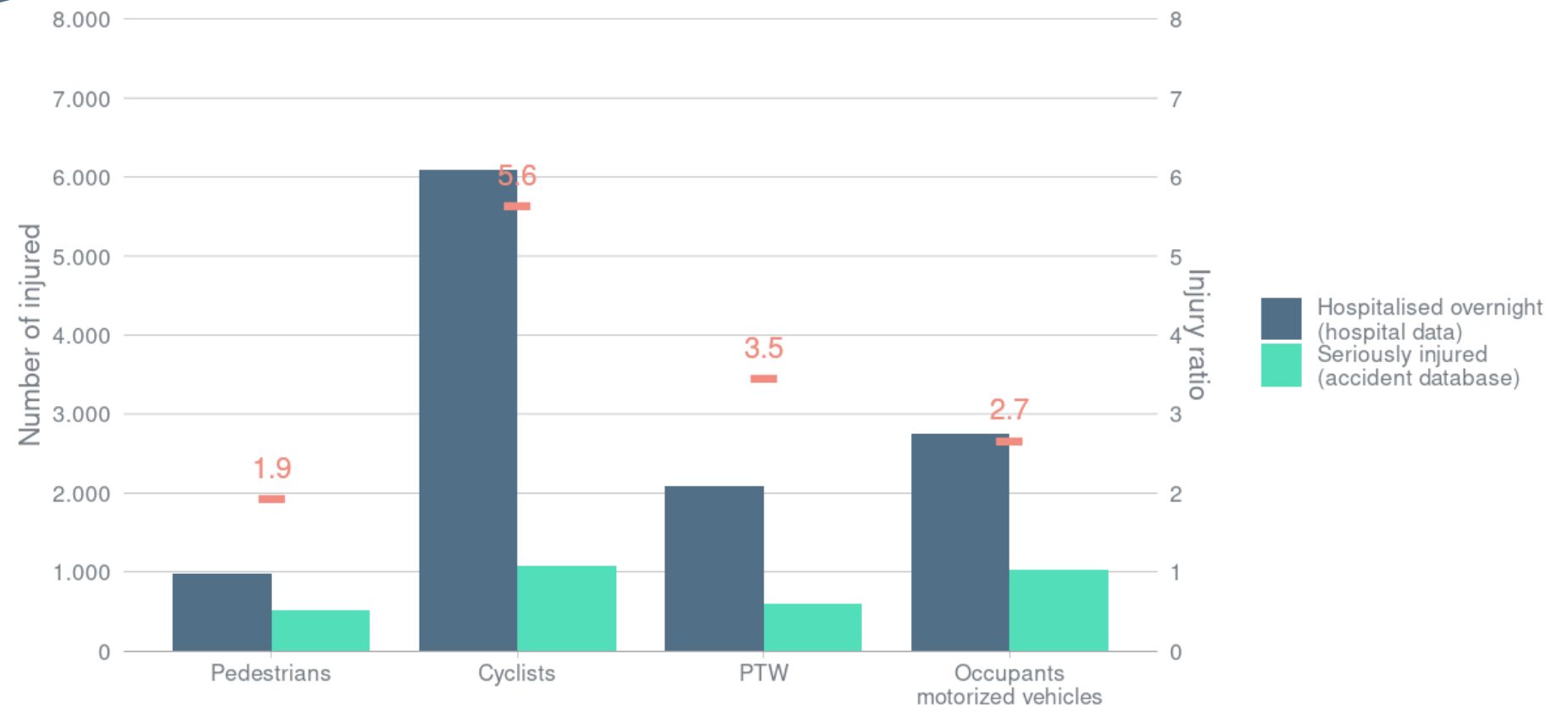
**Hospitalised overnight (hospital data)**  
= at least one night

**Seriously injured (accident database)**  
= at least 24h in hospital



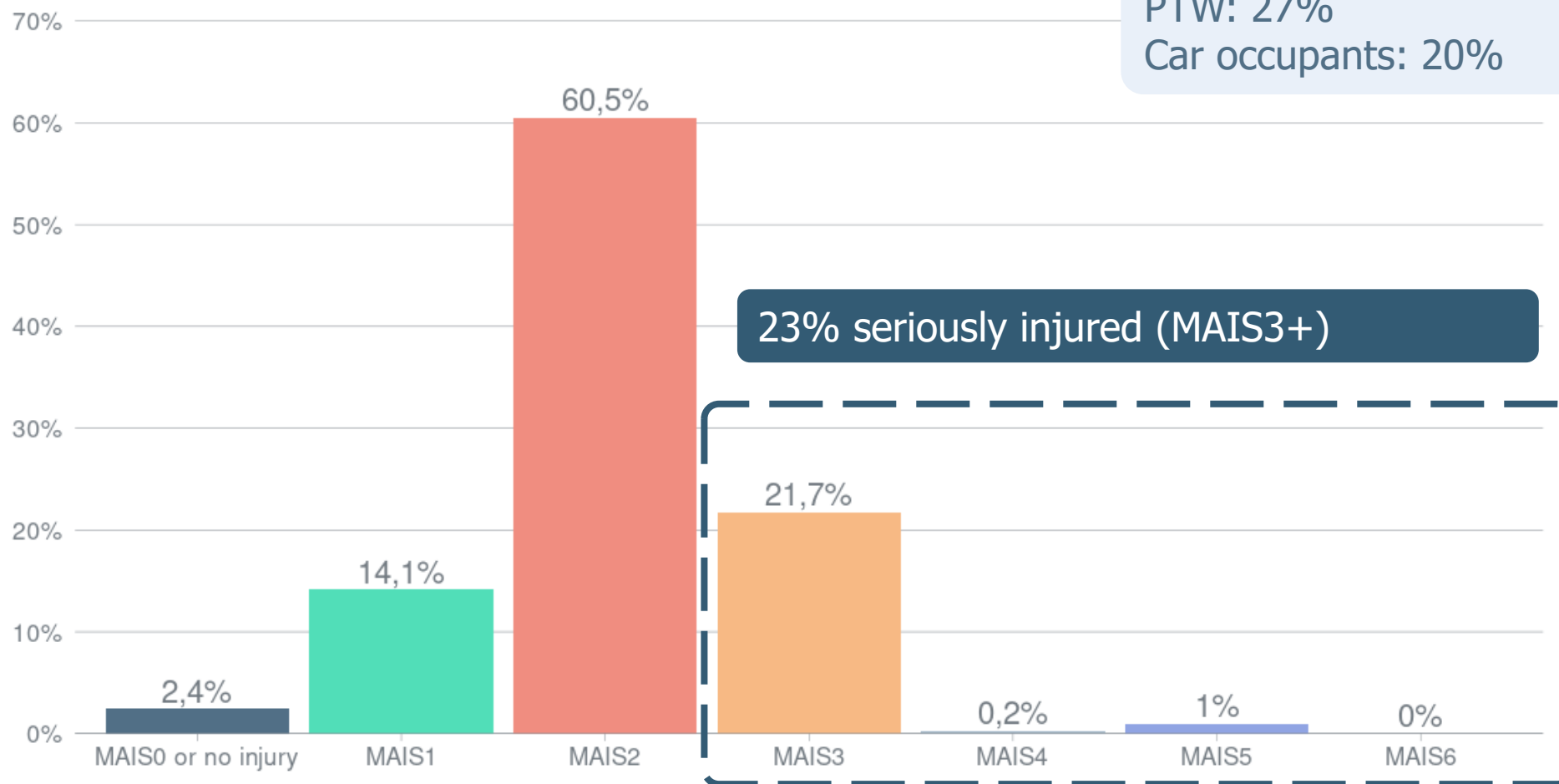
# UNDERREPORTING

## Comparison with other road user types

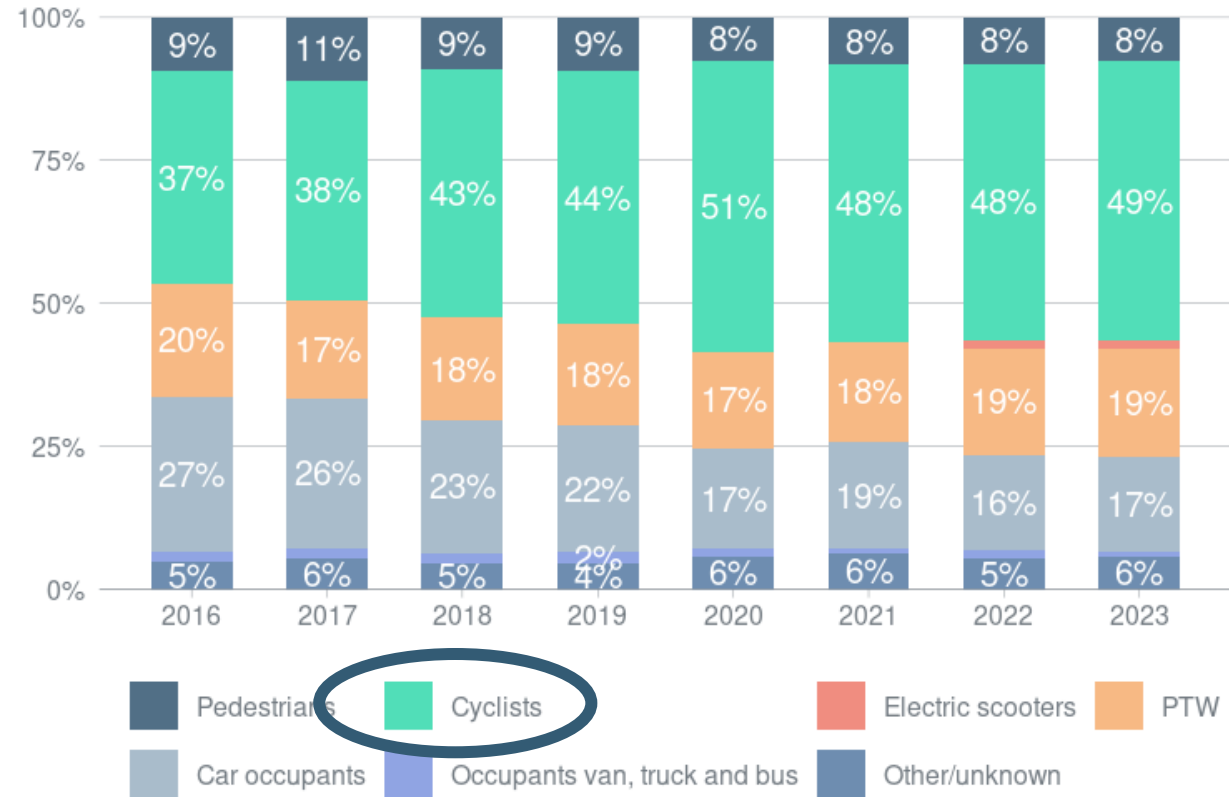
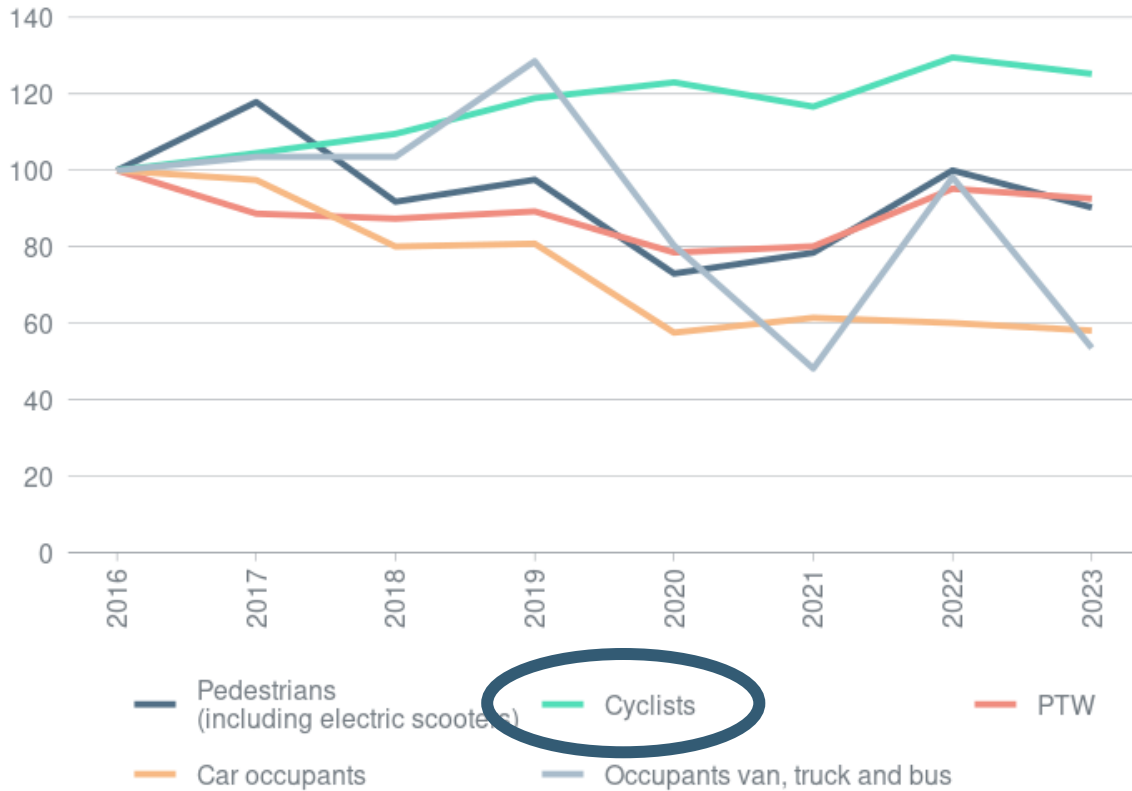


# MAIS SCORES OF HOSPITALISED CYCLISTS (2023)

Pedestrians: 27%  
Electric scooter: 36%  
PTW: 27%  
Car occupants: 20%

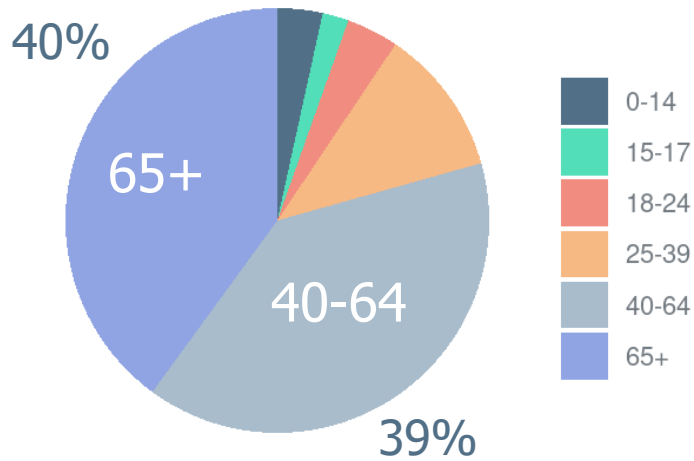


# MAIS3+ TREND AND DISTRIBUTION BY ROAD USER TYPE

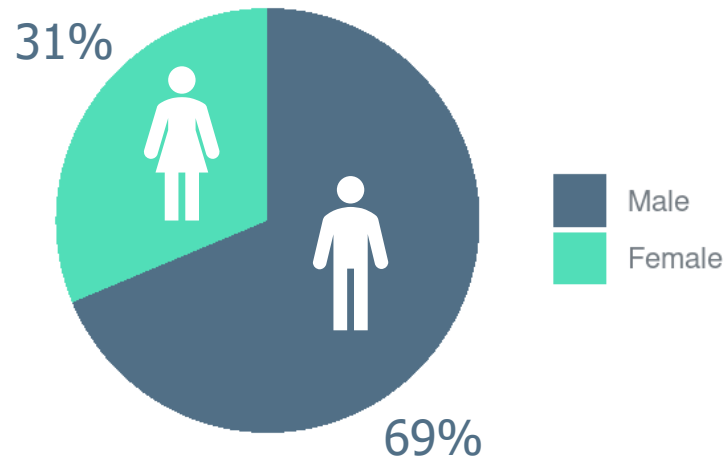


# MAIS3+ CYCLISTS (2023)

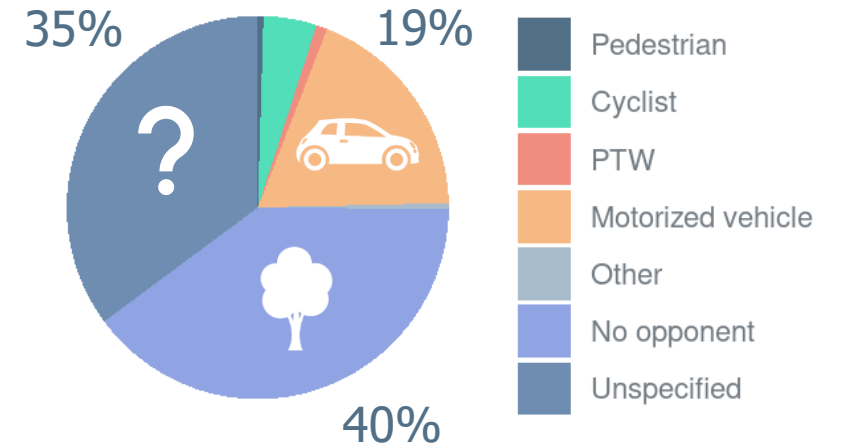
### Distribution by **age**



### Distribution by **gender**

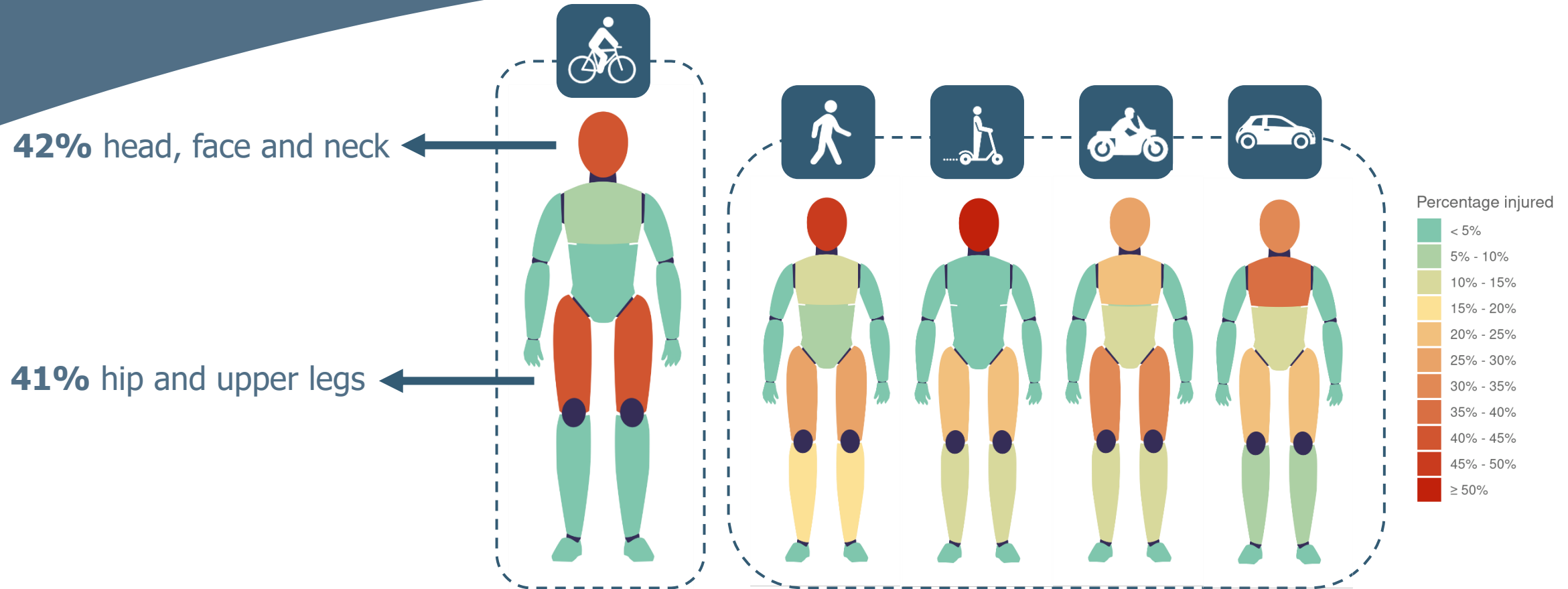


### Distribution by **opponent**



# INJURY BODY PROFILES

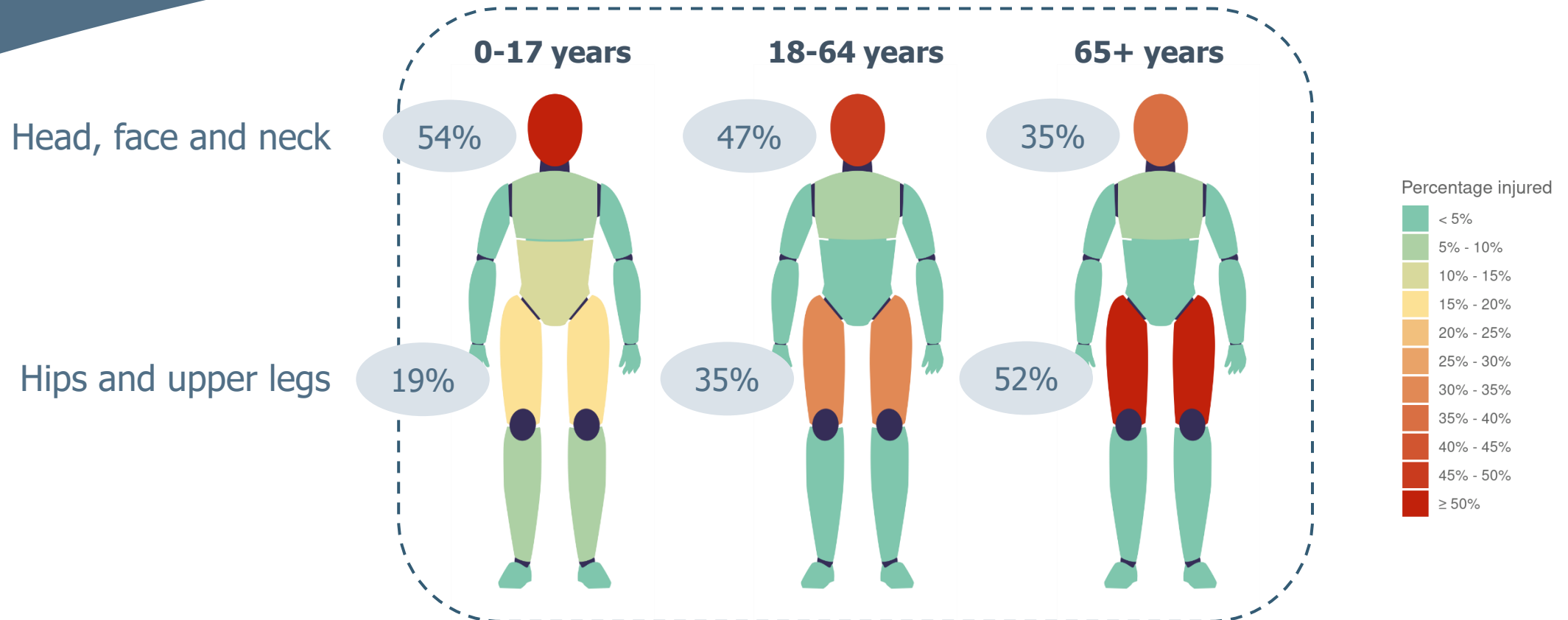
Distribution of AIS3+ injuries over body regions (2016–2023)  
**Cyclists in comparison to other road users**



# INJURY BODY PROFILES

Distribution of AIS3+ injuries over body regions (2016–2023)

By age



# INJURY BODY PROFILES

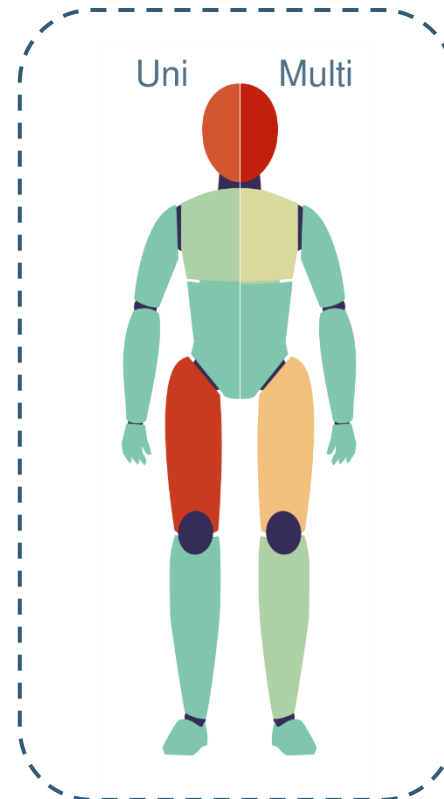
Distribution of AIS3+ injuries over body regions (2016–2023)

## Unilateral versus multilateral accidents

**40%** head, face and neck

**6%** chest

**45%** hips and upper legs

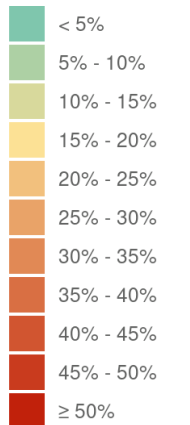


**56%** head, face and neck

**14%** chest

**23%** hips and upper legs

Percentage injured



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BOUWEN, L. (2026). LES BLESSÉS DE LA ROUTE HOSPITALISÉS EN 2023 – RAPPORT STATISTIQUE, BRUXELLES: INSTITUT VIAS

NL

BOUWEN, L. (2026). GEHOSPITALISEERDE VERKEERSGEWONDEN IN 2023 – STATISTISCH RAPPORT, BRUSSEL: VIAS INSTITUTE

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