

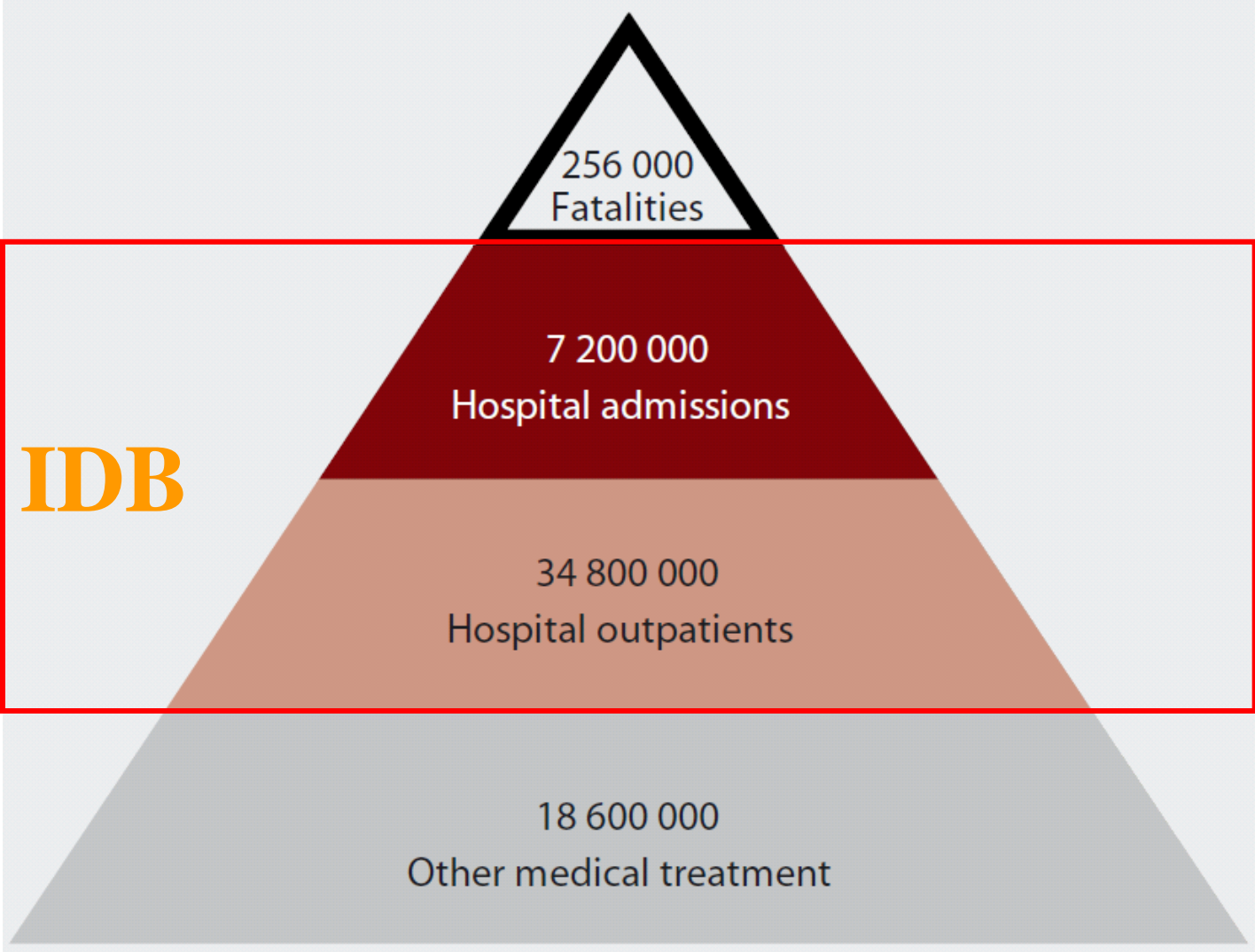


# Road Accident Health Indicators from IDB

European Road Safety Conference on Data  
and Knowledge-based Policy-making  
Athens 22/23 November 2012

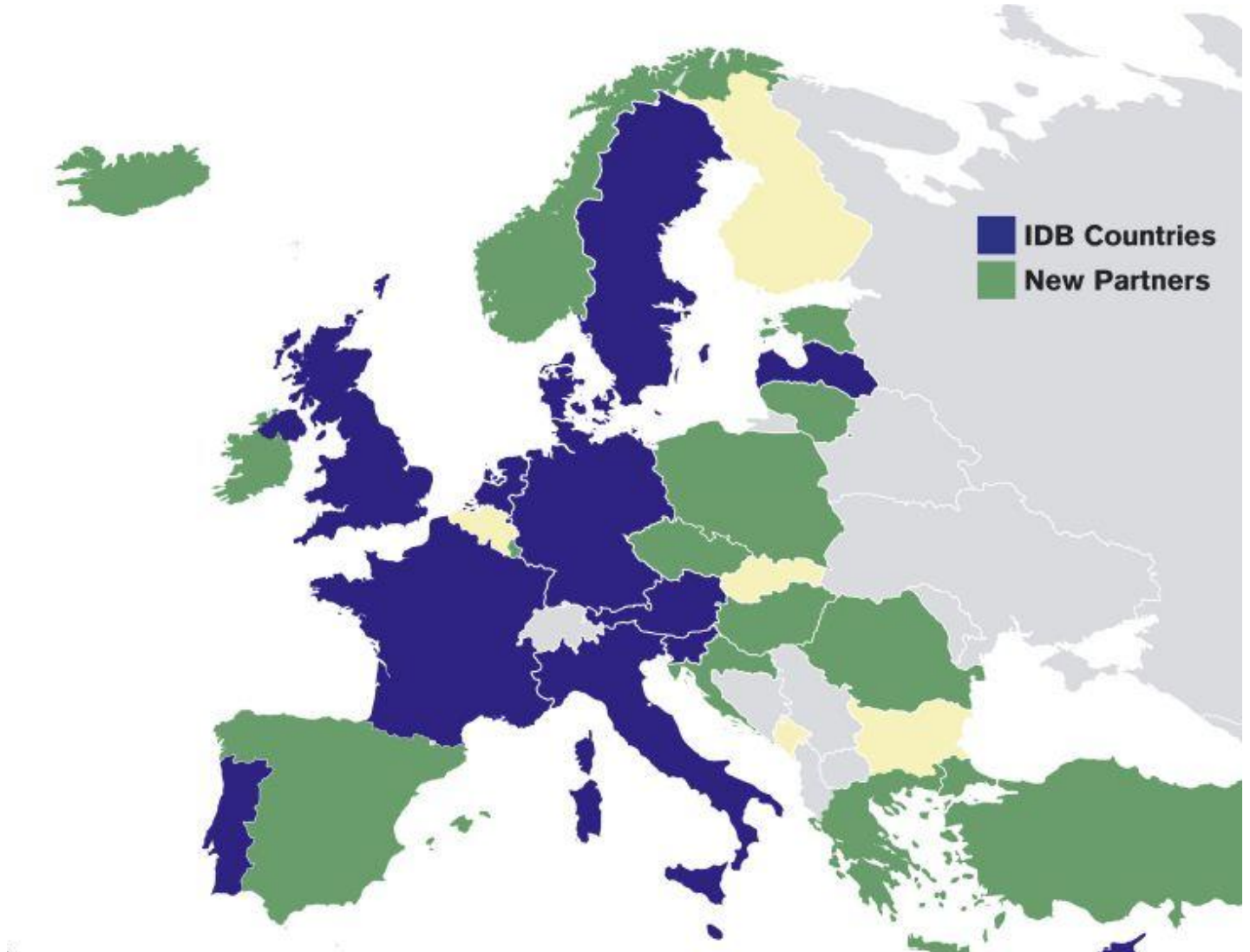
Christian Brandstaetter, Robert Bauer, KFV

# The injury pyramid for the EU & coverage of IDB data



Source: EuroSafe / KfV, 2009

# IDB geographic coverage





# IDB Full Data Set

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- Age & gender
- Place of residence
- Date of injury
- Date of treatment
- Diagnoses
- Location of injury
- Assignment to further treatment
- Injury mechanism
- Place of occurrence
- Activity when injured
- Type of sports when sport
- Triggering product
- Injury causing product
- **Details to road accident**
- Details to acts of violence
- Details to acts of self-harm
- Verbal description of incidence
- National add-ons: e.g. use of personal protective equipment

# Extended CARE/IDB Data Elements



Recording country
Unique national record number
Age of patient
Sex of patient
Country of permanent residence
Date of injury
Time of injury
Date of attendance
Time of attendance
Treatment and follow up
Intent
Transport injury event
Place of occurrence
Mechanism of injury
Activity when injured
Object/substance producing injury
Type of injury
Part of the body injured
Narrative

**Admission**  
Number of days in hospital

**Violence**  
Relation victim/perpetrator  
Sex of perpetrator  
Age group of perpetrator  
Context of assault

**Intentional self-harm**  
Proximal risk factor  
Previous intentional self-harm

**Transport**  
Mode of transport  
Role of injured person  
Counterpart

**Sports**  
Type of sports/exercise

## CARE Data Elements

- Person Class
- Gender
- Age group
- Vehicle group
- Area type
- Motorways
- Junctions
- Collision type
- Lighting conditions
- Weather conditions
- Day of the week

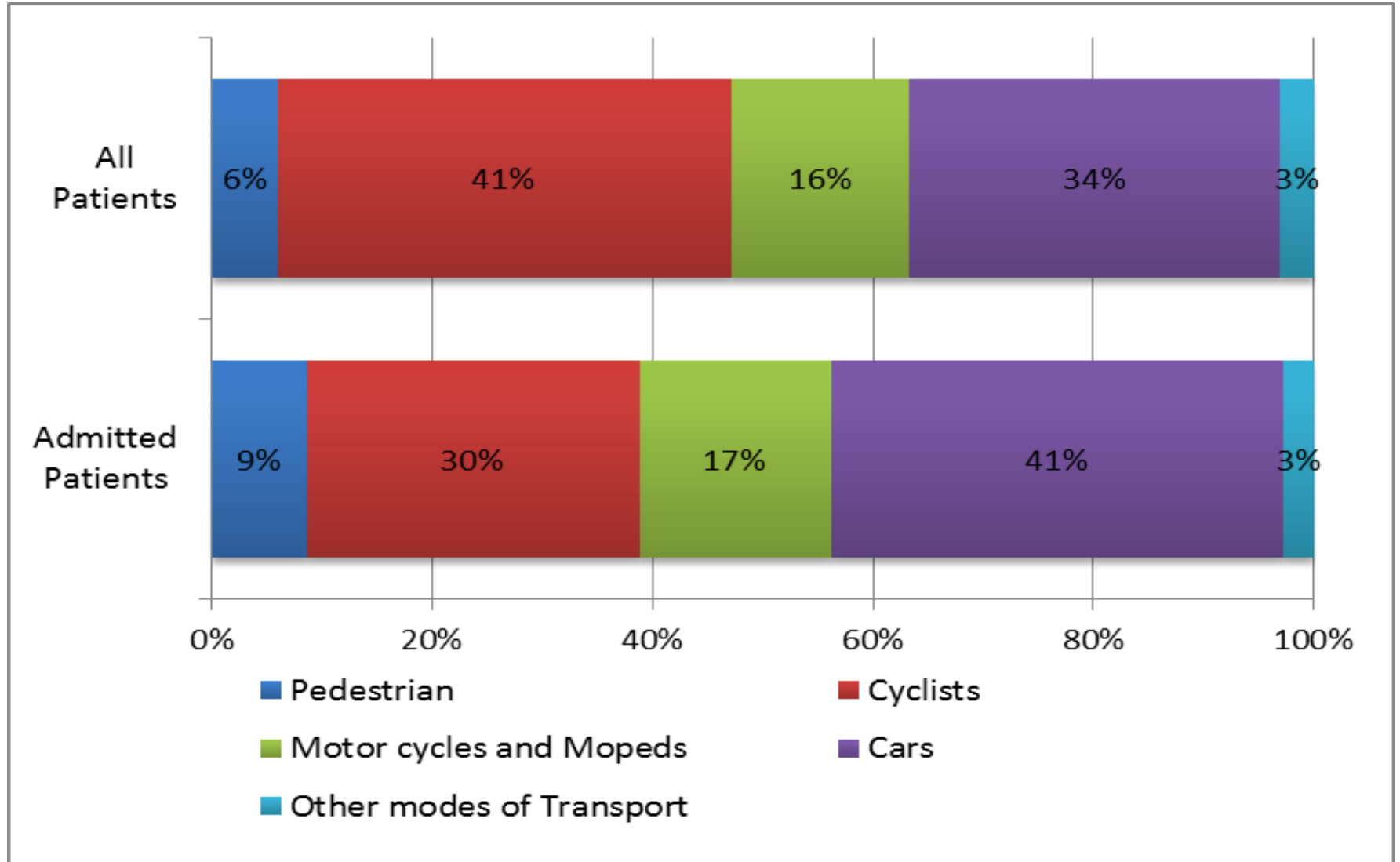
## IDB Data Elements

- Treatment and follow up
- Type of Injury
- Part of body part injured
- Number of hospital days
- Activity
- Narrative (causes, e.g. distraction)

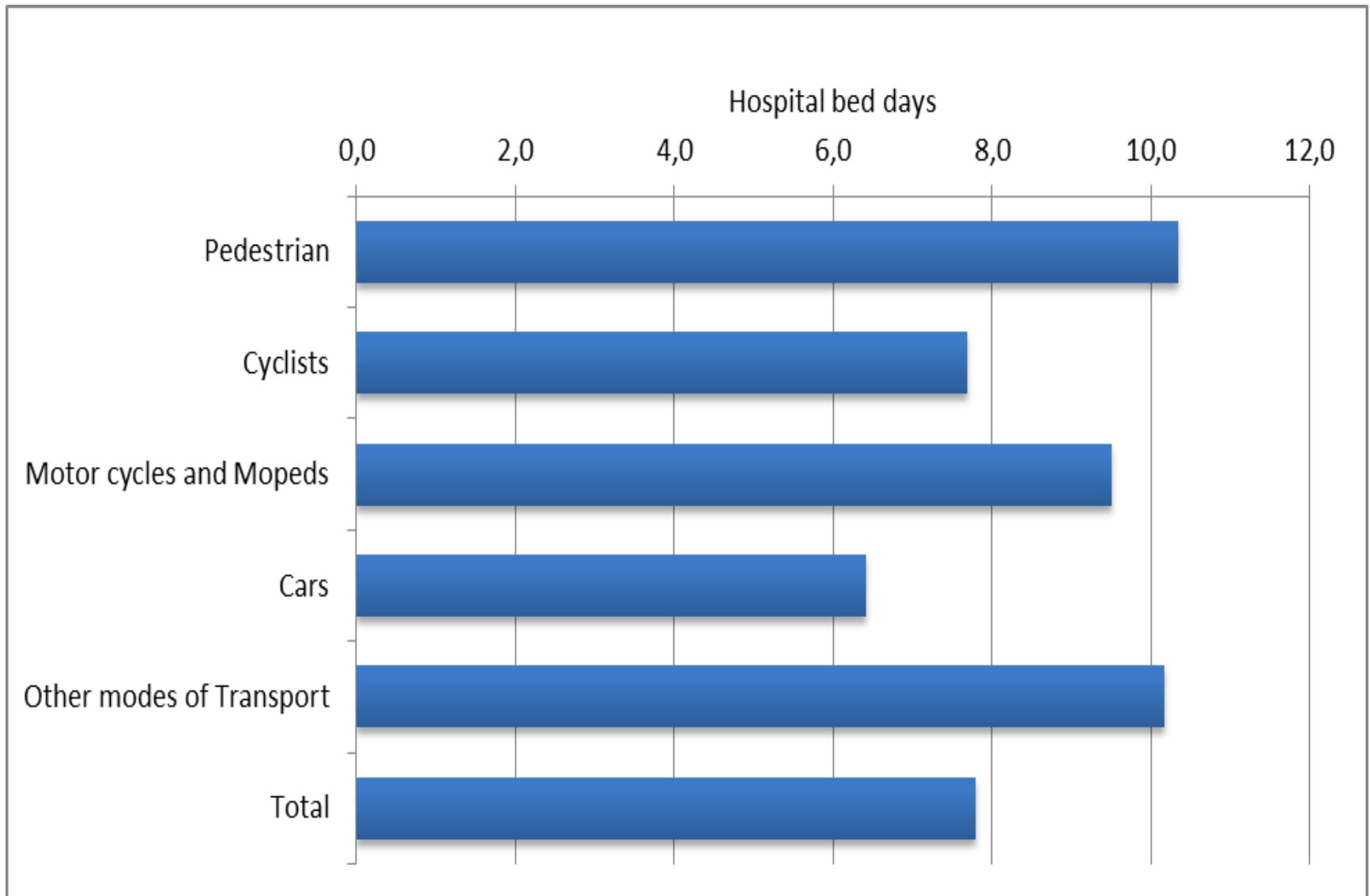
# IDB added value for accident research

IDB information	Individual level	Aggregated level
Medical information	Type of injury, Body part injured	Long term consequences, Injury severity (MAIS)
Accident circumstances & causes	Narrative	Behavioural patterns (helmet use, distraction etc.)
External causes	Activity, Mechanism	Context of trip (e.g. work)
Link to police data (via key variables or other ID)	extended IDB / Police record data set	Correction of underreporting (VRU)

# IDB Results - Treatment

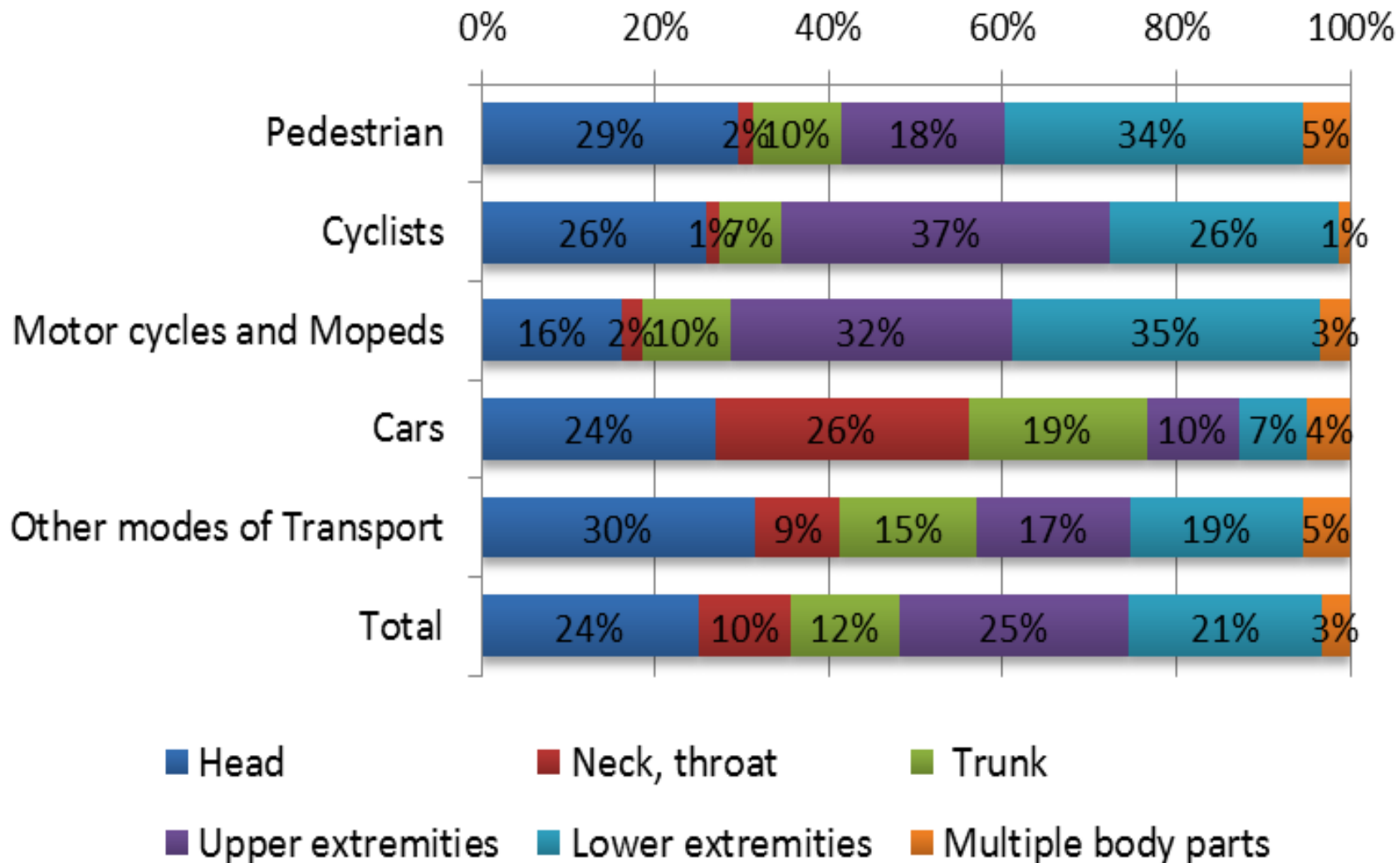


# IDB Results – Hospital length of stay

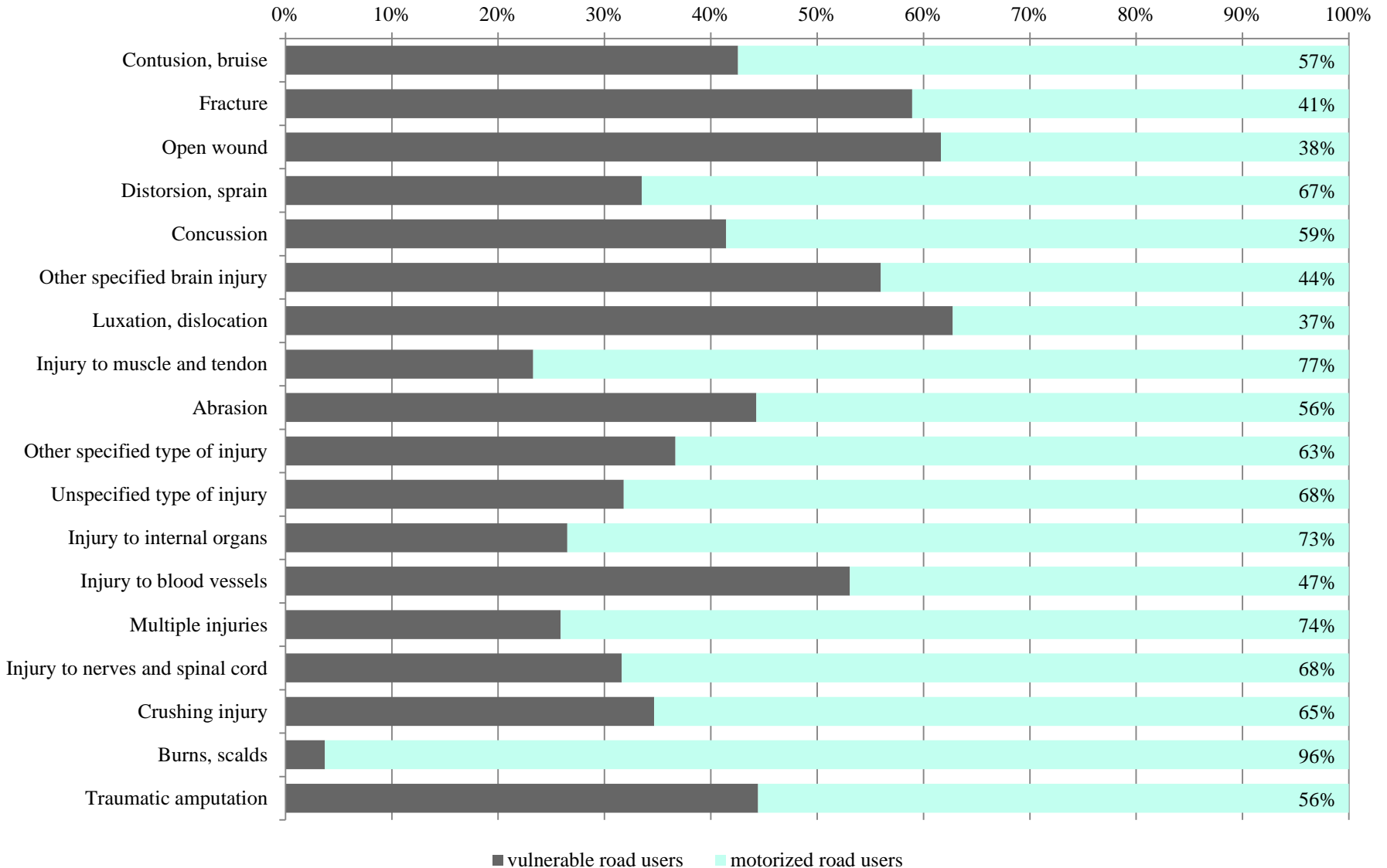




# IDB Results – Body part injured



# IDB Results - Type of injury



# More Information :

## EuroSafe

<http://www.eurosafe.eu.com>

## IDB

<https://webgate.ec.europa.eu/sanco/heidi/index.php/IDB>



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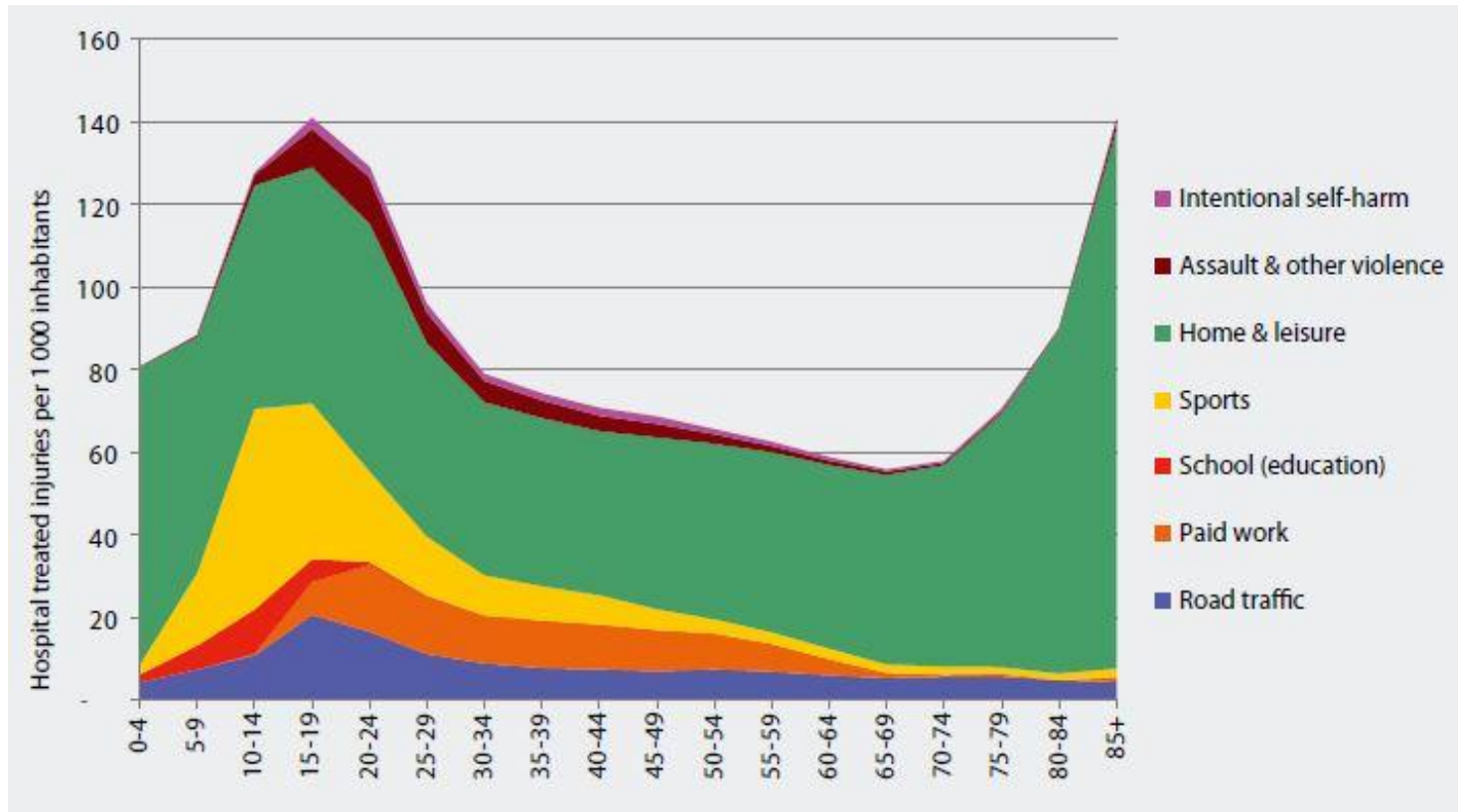
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# Example: Severity indicators by settings (%)

	Road transport	Workplace & School	Home, Leisure, & Sport
Fatalities	22	7	71
New long-term disabilities	19	13	69
Hospitalizations	7	8	84
Treatments in EDs	6	21	74

# Example: Injury incidence rates by setting and age



Source: EU IDB 2007

# Example: Bicycle accidents

Estimates according to household survey: Correction for treatments in doctor's offices

IDB Austria 2009: Based on treatments in hospitals

Austrian Road Accident Statistics 2009: Based on police reports

