Capacity Building on Maximum Abbreviated Injury Scale (MAIS)3+

WBRSO meeting, Belgrade June 21, 2024

Introduction to MAIS3+

Add Mark's slides. No country names in them @

Global status report on road safety 2023 —lessons learnt on the non-fatal injury counts

Maria Segui-Gomez



Global status report on road safety 2023



Background on country-level non-fatal injury WHO data collection

WHO reports	Qualifier	Reported numbers				
2004 (Baseline) World report on road traffic injury prevention	No country level data collected or published	"Between 20 million and 50 million people sustain an injury as a result of motor vehicle crashes each year" (Source: The Global Burden of Disease 2000 project: aims, methods and data sources [revised] Geneva, WHO, 2001 (GPE discussion paper No. 36) It cites AIS, and ICD already (page 59)				
GSRRS 2009 GLOBAL STATUS REPORT ON ROAD SAFETY TIME FOR ACTION Continued to the continued of the continued	Country level data for 178 participating countries or territories, but no recorded non-fatal or permantly disabled injuries published data. (Need to enter numbers manually from country profiles!)	"Between 20 and 50 million suffer non-fatal injuries" (Executive summary) "A few countries employ hospital staff to code injuires when the patient is discharged from care —using a standardized scoring method such as the Abbreviated Injury Scale, Injury Severity Score of the International Classficiation of Diseases codes —and then link these data to pólice/transport databases" (page 31) "There is a need for standard definitions of levels of severity of non-fatal injuries to allow them to be accurately recorded and collated. The definitions should be simple enough to be administered by both health and non-health personnel" (page 32)				

Background on country-level non-fatal injury WHO data collection (II)

(A) Departure GLOBAL	WHO reports	Qualifier	Reported numbers
GLOBAL STATUS REPORT ON ROAD SAFETY 2013 MUMORITING A DICAGO OF ACTON	GSRRS 2013	Country level data, % seriouly non-fatal victims transported by ambulance reported by 162, and permanently-disabled reported by 33 (out of 182)	"another 20 to 50 million sustain non-fatal injuries" (Background)
GLOBAL STATUS REPORT ON ROAD SAFETY 2015	GSRRS 2015	Country level data, % seriouly non-fatal victims transported by ambulance reported by 169, and permanently-disabled reported by 34 (out of 180)	"up to 50 million" (Background)
GLOBAL STATUS REPORT ON ROAD SAFETY 2018	GSRRS 2018	Country level data, but % seriouly non-fatal victims transported by ambulance not reported (saved?), whereas estimated permanent disability reported by 28 (out of 175 participating).	none
Global status report on road safety 2023	GSRRS 2023	Country level data, non-fatal reported by 107, and permanently-disabled reported by 16 (out of 172 participating)	Not reported, but non fatal injuries add up to 2 079 370 (reported fatal to non-fatal of 1:3) and % disabled ranges from 1 to 100%
BEX .			

Challenges remain

Producing a global morbidity figure for road traffic crashes is challenging, because around a third of countries report no measure for nonfatal cases, while the other two thirds report using a variety of operational definitions. Only 114 countries report having a specific definition for injuries that result from a road traffic crash. More than half of these countries (57%) use either the need for hospitalization as the operational definition (or hospitalization plus another condition) or require three or more days of leave from work. The next most common definition used by more than 10% of countries relates to standardized injury definitions such as the Maximum Abbreviated Injury Scale (MAIS) (39), the Revised Trauma Score (RTS) (40), or the Mechanism/Glasgow Coma Score (Age/ Pressure (MGAP) (41). The remaining countries report using a variety of definitions.

30%

Countries do not collect any data on non-fatal injuries

In more detail -- zoom in at WBRSO

Regional Partners

- Albania
- Bosnia and Herzegovina
- KOSOVO* (not participated in GSRRS2023)
- Montenegro
- North Macedonia
- Serbia

Observing participants

- Georgia
- Republic of Moldova
- Ukraine (not participated in GSRRS2023)

^{*} This designation is without prejudice to positions on status and is in line with UNSCR 1244/1999 and the ICK Opinion on the Kosovo declaration of independence

Do strategies set measurable targets to reduce the number of people who are killed and /or seriously injured in a road traffic crash?

		Targets	Fatality target	Seriously injured target	Seriously injured target (year)				
	Albania	No	No	No	N/A				
ners	Bosnia and Herzegovina	Yes	s N/A Yes		50% (N/A)				
Regional partners	Kosovo	No GSRRS 2023 participation							
onal	Montenegro	Yes	Yes	Yes	5% (2020-2022)				
Regi	North Macedonia	Yes	Yes	Yes	40% (2022-2030)				
	Serbia	Yes	Yes	Yes	50% (2030)				
ing	Georgia	Yes	Yes	Yes	25% (2019-2025)				
Observing	Republic of Moldova	N/A	Do not know	Do not know	N/A				
Ob part	Ukraine	No GSRRS 2	o GSRRS 2023 participation Global status report on a						

Identifying "serious" injuries

		Have a system	Requires hospital admission	Requires standard measure (e.g., MAIS, RTS, MGAP)	Requires absence of work 3+days	Requires other							
	Albania	Yes	Yes										
iers	Bosnia and Herzegovina	N/A	J/A										
Regional partners	Kosovo	No GSRRS 2023											
nal p	Montenegro	Yes		Yes		Yes (judicial textbook)							
egio	North Macedonia	Yes	Yes		Yes								
~	Serbia	Yes				Yes (ICD and expert assessment at hospital)							
ing	Georgia	No											
Observing participants	Republic of Moldova	lic of Moldova Yes Yes Yes		Yes									
Ob part	Ukraine	No GSRRS 2023	participation										

Reporting "serious" injuries (2021)

		Number	Source: Police records	Source: Hospital records	Source: ER records	Source: Other (insurance, other)					
	Albania	253	Yes								
tners	Bosnia and Herzegovina	1471	N/A N/A N/A		N/A	N/A					
Regional partners	Kosovo	No GSRRS 2023 participation									
gion	Montenegro	474	Yes	Yes	Yes						
Re	North Macedonia	792	Yes	Yes	Yes						
	Serbia	2247		Yes	Yes						
ng nts	Georgia	N/A	Yes	Yes	Yes						
)bserving articipants	Republic of Moldova	881	Yes	Yes	Yes						
)bs	Ukraine	● Global	status report on road								

Reporting long lasting disability

		Have a system			
	Albania	No			
ırs	Bosnia and Herzegovina	N/A			
Regional partners	Kosovo	No GSRRS 2023 participation			
al pe	Georgia	No			
gion	Montenegro	No			
Re	North Macedonia	No			
	Serbia	No			
ing	Georgia	N/A			
Observing participants	Republic of Moldova	No			
0b part	Ukraine	No GSRRS 2023 participation			

GSRRS 2023 PRODUCTS



The *Global status report on road safety 2023* details the scale of global road traffic deaths, and progress in advancing laws, strategies and actions to reduce them around the world.

The fifth report in a series, it provides an overview of progress between 2010 and 2021, and sets a baseline for the United Nations Decade of Action for Road Safety 2021-2030 target of halving road traffic deaths and injuries by 2020.

The report shows that the number of road traffic deaths has fallen slightly to 1.19 million per year, and that efforts

- Report EN PDF. Soon in AR, FR, SP, and RU
- Summary EN PDF. Soon in AR, FR, SP, and RU
- Country and Territory profiles EN PDF
- A one-place stop: https://www.who.int/teams/social-determinants-of-health/safety-and-mobility/global-status-report-on-road-safety-2023.
 - Profiles
 - Data (.xls)
 - Questionnaire
 - Previous reports
 - Videos and other products used at launch
- For any inquiries: sam@who.int





Global status report on road safety

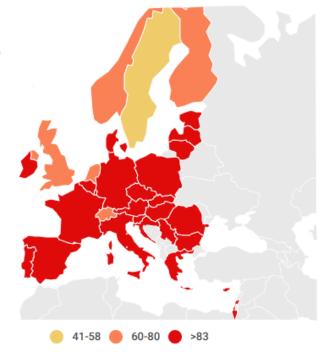
Example of customized group in platform, excludes Kosovo and Ukraine

MAIS3+ and EU funding

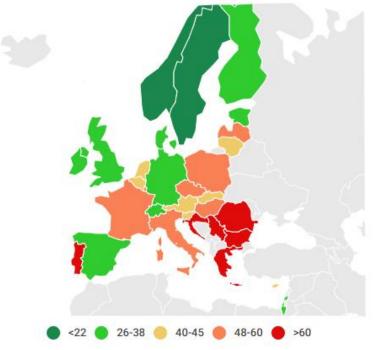
Mark & Maria

A Little history....

2002 Road deaths per 1 M population (Source: ETSC)

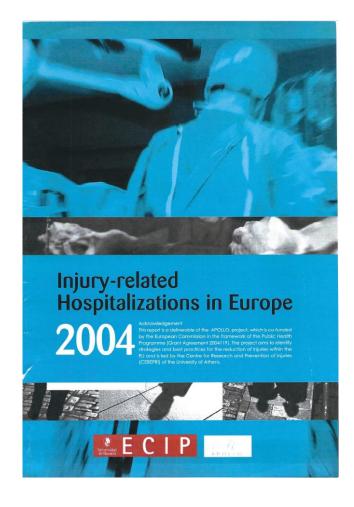


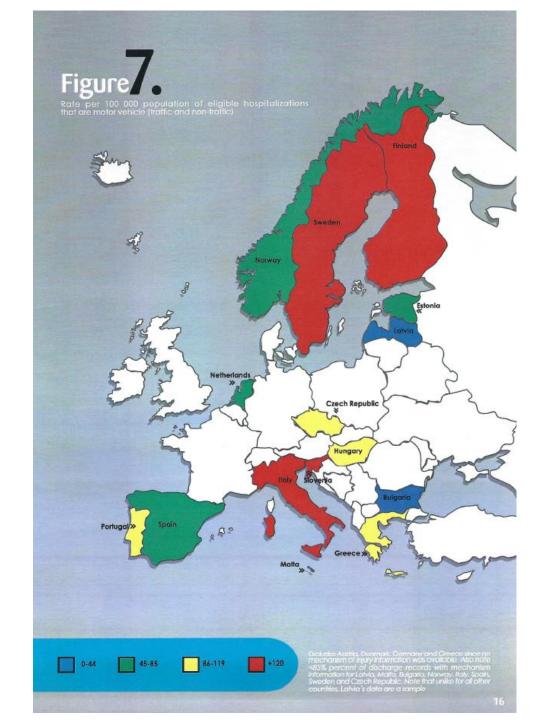
2022 Road deaths per 1 M population (Source: ETSC)



But what about counting non-fatal injuries in different ways?







Specific injuries vs. Lenght of stay vs. MAIS available



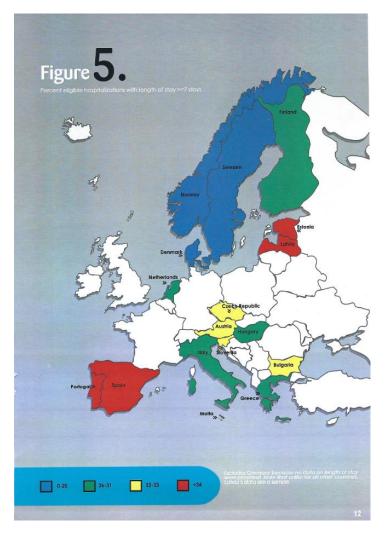
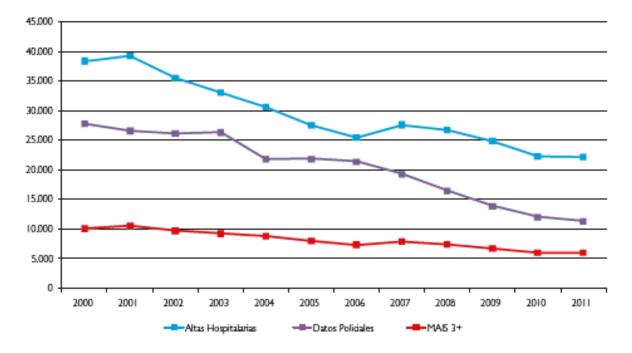






Figura 60. Evolución de los lesionados graves por tráfico (MAIS 3+), altas hospitalarias y heridos graves de los registros policiales. Año 2000-2011



HIGH-LEVEL GROUP ON ROAD SAFETY CONSULTATION ON THE DEVELOPMENT OF THE INJURIES STRATEGY

DRAFT: 1ST OCTOBER 2012

2nd Working Document

NEXT STEPS IN THE DEVELOPMENT OF THE INJURIES STRATEGY

Prepared by:

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HLG held in Jan 2013

Summary of recommended next steps

<u>Recommendation 1</u>. The *Injuries Strategy* should adopt the long-term *Safe System* goal and approach to eliminate deaths and serious injuries recommended to all countries by the main international organisations concerned with road safety.

<u>Recommendation</u> 2. The <u>Injuries Strategy</u> should adopt a simple, aspirational, interim quantitative <u>EU target to reduce serious injuries (MAIS=>3) by 2020</u> at a targeted level against baseline to be agreed.

<u>Recommendation 3</u> The *Injuries Strategy* should target key road safety problems and improved intermediate outcomes (e.g. increasing seat belt use) with evidence-based intervention packages to include EU and country actions and using an agreed set of safety performance indicators in line with international best practice.

<u>Recommendation 4</u> The national representatives of the CARE expert group should play a key role in assisting Member States, where necessary, with country management of the process of preparing for and reporting on the new common definition of serious injury as an additional field to the existing CARE database.

Recommendation 5 Subject to any further proposals by the CARE expert group, it is recommended that Member States should report on the total number of serious injuries (MAIS=>3) starting with an annual total for 2014 and agree an acceptable timescale for fuller reporting of CARE database variables. In the meantime, it is envisaged that Member States would continue contributing as usual to the CARE database.

<u>Recommendation 6</u> It is recommended that the High Level Group considers the range of identified actions on driver assistance technologies actions by the EU and Member States and which are broadly consistent with the CARS 21 strategy and the stated aims of the EU institutions. These include recommendations on EU type approval as well as good practice national actions to promote the take-up of effective new technologies.

<u>Recommendation 7</u> It is recommended that monitoring and evaluation of the effectiveness of vehicle safety technologies is included in the discussion of driver assistance measures, particularly in relation to the establishment of a Pan-European in-depth crash investigation system.

<u>Recommendation 8</u> It is recommended that the next meeting determines whether a small HLG *Injuries Strategy* working group comprising road safety policy leaders, supported by technical experts, should be established to assist the Commission in determining the scope and further development of the strategy, based on the conclusions of the next HLG meeting.

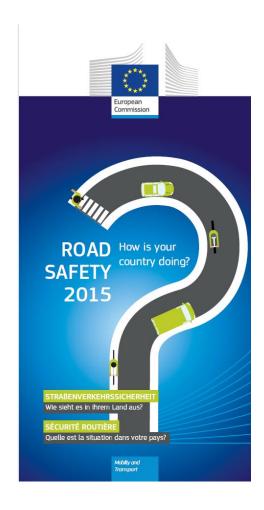




Welcome to Spain!



2015

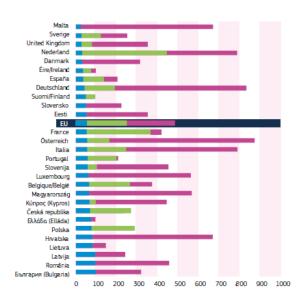




Verkehrstote, Personen behandelt im Krankenhaus und Schwerverletzte (*) pro Mio. Einwohner

Fatalities, hospitalised and seriously injured (*) per million inhabitants

Tués, personnes hospitalisées et blessés graves (*) par million d'habitants



- * Neue harmonisierte Definition basierend auf MAIS3+
- * New harmonised definition based on MAIS3+
- * Nouvelle définition harmonisée basée sur MAIS3+



2017



Valletta Declaration on Road Safety

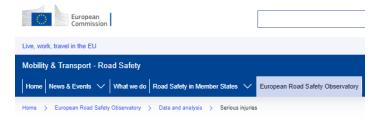
29 March 2017 Valletta



- ensure the effective deployment of the e-Call system and reduce rescue times;
- promote the undertaking of in-depth investigations using relevant samples of severe traffic collisions/accidents and analysing the data to identify priority areas for intervention;
- continue, in parallel with our efforts towards reaching the 2020 fatality reduction target, with the work towards: (i) reducing the number of serious injuries in road traffic collisions, and (ii) reporting reliable and comparable data using a common definition based on the MAIS⁶3+ trauma scale by 2018;
- set a target of halving the number of serious injuries in the EU by 2030 from the 2020 baseline using this common definition and in the framework of an overall road safety strategy for this period;
- continue developing measures to ensure post-collision care, early rehabilitation and social reintegration of road traffic accident victims, in cooperation with the relevant public policy stakeholders, in particular with those representing road traffic victims;
- k) effectively enforce road safety rules and provide support to road enforcement bodies, including through cooperation and exchange of best practices, in particular with regard to speeding, driving under the influence of alcohol or drugs, failing to comply with traffic light and traffic sign rules, being distracted while driving, e.g. by using mobile devices, and failing to use protective equipment. Particular attention should be given to preventive tools such as alcohol interlocks, and to other technical support systems;
- continue to work in international road safety bodies⁷ to help accelerate improvements in road safety through technical and non-technical means in Europe and further afield;
- ensure adequate levels of funding for future road safety policies, programmes and research in accordance with: (i) the objectives set out in national strategies and (ii) the available financial resources of the Member States;

Such as working groups of the UN Economic Commission for Europe (Working Party on Road Traffic Safety (WP.1), World Forum for Harmonization of Vehicle Regulations (WP.29), Working Party on the Transport of Dangerous Goods (WP.15)).

⁶ Maximum Abbreviated Injury Scale, an index ranging from 1 to 6.



Serious injuries

Data on serious injuries are available for most countries from the CARE database. However, there is another common definition of a serious injury which defines a serious road injury as a road traffic casualty with an MAIS (Maximum Abbreviated Injury Scale) score of 3 or more (MAIS3+). EU Member States undertook to collect data on MAIS3+, as part of the 2017 Valletta Council conclusions on road safety.

The Abbreviated Injury Scale (AIS) is a globally accepted anatomical-based trauma classification of injuries published by the Association for the Advancement of Automotive Medicine (AAAM). It is used by medical professionals to describe injuries and rank their severity on an ordinal scale from 1 (minor injuries) to 6 (non-treatable injuries), As one person can have more than one injury, the Maximum Abbreviated Injury Scale (MAIS) is the maximum AIS of all injury diagnoses for a person. There are three main methods to collect this data all of which are in one way or another based on hospital data: 1. create a link between police and hospital data; 2. report the number of injured based on data from hospitals; 3. continue to use the police data but apply a correction coefficient derived from samples of hospital data.

As part of a project in 2022, AAAM have kindly provided the European Commission with the following tools:

- a short powerpoint presentation of MAIS3+ (b);
- a video tutorial about converting ICD to AIS either with commentary (15 minute video) or a basic presentation (6);
- a recording of a live session (AAAM, European Commission and EU Member States) in December 2022 explaining AIS, ISS, Mapping Process, etc and answering specific questions from EU Member States.

See also reports from the European Road Safety Observatory

Thematic report on serious injuries 6 and Facts and Figures on serious injuries

4

- The following 13 countries attended at least one of the meetings and benefitted from the support: Belgium, Estonia, Spain, France, Ireland, Italy, Latvia, Lithuania, Netherlands, Austria, Portugal, Slovenia and Switzerland
- ICD-10-CM or ICD-9-CM to AIS2008
 - Based on USA CM

Indicador MAIS 3+. Explotación estadística desde los datos hospitalarios Unión registros hospitalarios y de agentes de tráfico

12 junio 2024 Unidad Técnica. DGT. Pilar Zori

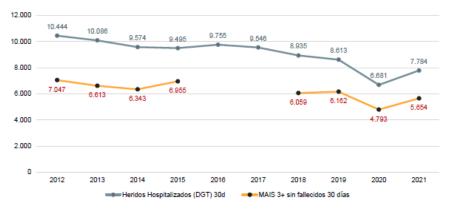


Identificación de buenas prácticas en materia de análisis de datos e indicadores.

Resultados. Evolución

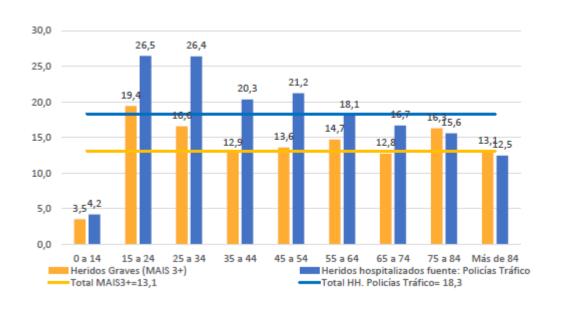


Evolución de la cifra de las personas heridas graves por siniestros viales (MAIS 3+) y de la cifra de las personas heridas hospitalizadas de los registros policiales. España, 2012-2021.



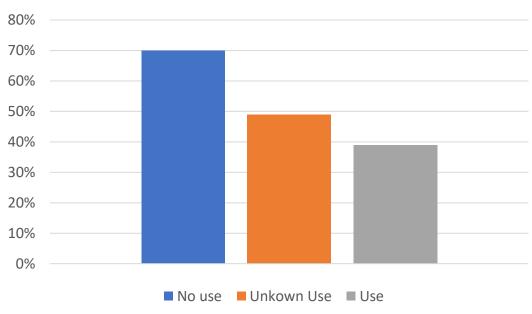
Nota: En 2016 y 2017, los datos de las altas hospitalarias en base a los cuales se calcula el MAIS3+ no son enteramente comparables para todo el territorio nacional, lo que ha motivado su exclusión de este análisis

MAIS3+ vs Hospitalizations. Road Traffic cases per 100 000 pop by age categories, 2021



2021 injured (not killed) Cylist by helmet use

Percent individuals with traumatic brain injury MAIS3+



Where we are...

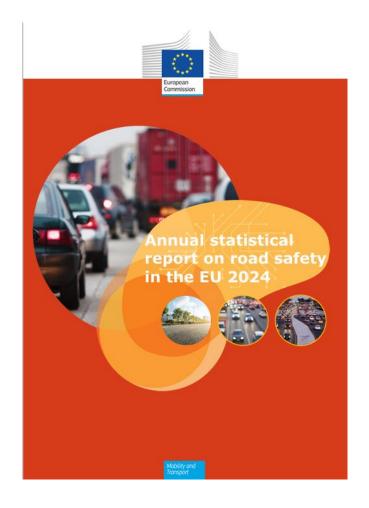






Table 3. Annual number of seriously injured by country (2012, 2018-2022).

Country	2012	2018	2019	2020	2021	2022	LT*	ST*
Belgium	4,736	3,636	3,600	2,968	3,098	3,400	-28%	-6%
Bulgaria	2,204	1,983	1,937	1,556	1,458	1,766	-20%	-9%
Czechia	2,934	2,395	2,061	1,760	1,580	1,681	-43%	-18%
Denmark	1,809	1,436	1,277	1,203	1,163	1,227	-32%	-4%
Germany	66,279	67,967	65,244	58,005	55,137	57,727	-13%	-12%
Estonia	-	-	-	-	-	-	-	-
Ireland	474	1,359	1,506	-	-	-	-	-
Greece	1,399	727	652	518	610	-	-56%	-6%
Spain	10,445	8,935	8,613	6,681	7,784	8,502	-19%	-1%
France	-	-	-	-	-	-	-	-
Croatia	3,051	2,731	2,488	2,295	2,610	2,910	-5%	17%
Italy	-	-	-	-	-	-	-	-
Cyprus	551	348	340	211	252	253	-54%	-26%
Latvia	493	542	461	490	-	-	-	-
Lithuania	-	165	308	376	392	476	-	55%
Luxembourg	339	273	248	217	267	267	-21%	8%
Hungary	4,921	5,559	5,485	4,655	4,595	5,041	2%	-8%
Malta	299	317	305	242	339	-	13%	11%
Netherlands	2,330	13,470	12,425	10,222	7,424	8,420	261%	-32%
Austria	8,017	7,631	7,384	6,650	6,945	7,258	-10%	-2%
Poland	12,049	10,941	10,633	8,805	8,276	7,541	-37%	-29%
Portugal	1,941	2,195	2,383	1,877	2,161	2,302	19%	-3%
Romania	8,860	8,144	8,125	5,491	3,796	3,690	-58%	-55%
Slovenia	848	821	814	678	784	862	2%	6%
Slovakia	1,122	1,247	1,030	894	854	866	-23%	-16%
Finland	-	485	390	408	368	-	-	-6%
Sweden	2,976	2,195	1,951	1,646	-	-	-	-
Iceland	136	183	182	149	199	195	43%	7%
Liechtenstein	-	-	-	-	-	-	-	-
Norway	699	602	565	627	569	578	-17%	2%
Switzerland	4,202	3,873	3,639	3,793	3,933	4,002	-5%	10%

^{*}LT = Long term change of last available year over 2012.

No data available for Estonia, France, Italy and Liechtenstein. Limited data available for Ireland, Latvia, Lithuania, Finland and Sweden and no data available for Liechtenstein.

Definitions and registration differ significantly between countries. Trends within a country are usually meaningful unless registration changed during the reporting time (e.g. the Netherlands). EU totals were omitted due to missing data for several Member Countries. Moreover, the data are only police-reported data.

3 Euro

Seriously injured:

Total number of seriously injured persons corrected by correction factors when needed. Injured (although not killed) in the road crash and, in principle, hospitalised for at least 24 hours within 30 days from the crash.

^{*}ST = Short term change of last available year over 2019.

		Hospital data coding (based on WBRSO baseline questionnaire)	AIS testing (based on minutes of 17th Technical Committee, April 2024)							
	Albania	ICD 10 (CM?)	The injury level can be evaluated by the MAIS3+, which in Albania is put into action by the National Center of Health Emergencies, in cooperation with the University Trauma Hospital, by evaluation of the cases and compiling the health data modules. Also, The Ministry of Health and Social Protection of Albania in cooperation with the Institute of Public Health would have to draft new policies and frameworks to present and include the implementation of MAIS3+ in various institutional levels.							
	Bosnia and Herzegovina	ICD 10 (CM?)	N/A							
	Kosovo	No GSRRS 2023 particip	No GSRRS 2023 participation							
Regional partners	Montenegro	ICD 10 (CM?)	A study on the introduction of the MAIS3+ scale was drafted as well as amendments to the Rulebook on the manner of filling in, deadlines for submission and form of reports on the established disease. The mentioned tasks were completed in cooperation with the sector for legal regulations in the Ministry of Health, based on the already legally supported AIS scale, which is the basis for the implementation of the MAIS3 + scale of injuries. There was a delay in further implementation because the Institute of Public Health hasn't approved the drafted documents yet, and that is a presumption for getting approval from the Secretariat for Legislation.							
ledoipe	North Macedonia	ICD 10 (CM?)	N/A							
ä	Serbia	ICD 10 (CM?)	In 2017, Serbia conducted research on the options for implementing the Maximum Abbreviated Injury Scale (MAIS3+) on the number of people injured in road crashes in Serbia. In 2019, the EU funded project Improving Road Safety in Serbia started, aimed at strengthening road safety management in local communities, introducing an improved injury classification system (MAIS3+ injury scale) and improving road infrastructure safety by identifying and eliminating risky road sections and dangerous locations using internationally recognized road infrastructure improvement tools and methodologies, and one of the project goals has been to establish MAIS3+ injury scale data collection. In the period December 2021- March 2022, there were 4 introductory workshops held with designated representatives from in-patient healthcare institutions providing post crash care of road trauma patients. Also, the Institute for Public Health of the Republic of Serbia "Dr Milan Jovanovic Batut" has developed and piloted MAIS3+ data intake through their portal- they have piloted the possibility of entering the MAIS3+ score in the report on hospitalization. Further steps in the education of health workers, further work on the MAIS3+ database and further steps in intersectoral data exchange are							

Are you ready? (II)

		Hospital data coding (based on WBRSO baseline questionnaire)	AIS testing (based on minutes of 17th Technical Committee, April 2024)							
g participants	Georgia	N/A	In the framework of the EU Twinning Project "Support in Establishment of Comprehensive Road Safety Database and Further Improvement of Road Safety Management in Georgia" and with the help of Lithuanian experts, several variables have been added to the test electronic version of the hospital registration form IV-066 and a MAIS3+ conversion tool has been developed to determine the total injury severity level. The medical network statisticians and managers have been trained nationwide regarding the planned changes. At this stage, work is underway on the technical details to be made in the electronic version of the registration form 066 of the patients discharged from the hospital and the required amendments to the regulatory documents.							
Observing	Republic of Moldova	N/A								
g	Ukraine	No GSRRS 2023 parti	No GSRRS 2023 participation							

Conclusions

- It is a new language and a new approach –be patient as it will take a Little time
- Others have walked the path before, take advantage of their mistakes
- Use help!

Innovations in AIS —computerized app and translation algorithms

Add Mark's slides

Engagement of multiple sectors on the road safety challenge

Maria

The proposal (GSRRS 2023)

Terms of Reference (ToRs) for National Data Focal Points (NDFPs) 5th Global status report on road safety (GSRRS2023)

- 1. Participate in the regional National Data Focal Points (NDFPs) online training.
- Should there be any need for additional translation of project documents (i.e., questionnaire and training) into local languages, assist as required and in consultation with the Regional Data Coordinators (RDC). These additional translations should be communicated to HQ. Note that translation of legislative documents is not required as part of the project.
- Work with WHO Regional Advisors (RAs) and Regional Data Codesiled work plan (in line with the global timeframe Information Booklet and in the NDFP training Special attention is to be paid documents into leading the Regional Comments in the Regional Comments and the Regiona
- 4. Identify up to ten individual road safety experts to serve as National Data Contributors (NDCs) with whom to build consensus in the responses according to guidelines to be provided. Enter NDCs contact information on project web platform to grant them access to the system. Experts may be from governmental and one governmental organizations, such as academic institutions or Non-Government Organizations (NGOs). Government representation should be obtained (through official channels) from the vital registration systems, health (including emergency care), transport (including agency responsible for national roads), vehicles, finances, and security police sectors. Should the country belong to any of the Regional Road Safety Observatories, the data coordinator for the observatory will be part of this team too.
- 5. Coordinate and supervise the collection and submission into the platform of legislative documents for your country relating to the risk factors considered and that are described in the NDFP questionnaire. Identify the relevant text relating to the risk factors in the legislation collected. Once the legislative review has been carried out (by WHO Headquarters -HQ), assist in validating this information including responding to clarifications and requests for additional legislation documents.
- Coordinate and supervise the data collection process as per the standardized methodology and tools described in the NDFPs Information Booklet and in the training.
- In collaboration with RDCs, contact NDCs (in person, by phone, online, or through the project's
 online platform) to generate consensus before submission of data to HQ.
- Organize and facilitate coordination and consensus among road safety experts to obtain their signing off on the submitted data thus completing a single national questionnaire that would reflect the views from the multiple sectors.
- Translate into any of the UN official languages any open text answers written in any other country languages
- Work with WHO RDC, WHO Country Office (WCO), and HQ where necessary to validate the data submitted.
- 11. Facilitate the clearance/ ministerial approval process of the data once WHO sends a "sign off sheet" that summarizes the data from your country. The request for clearance/ ministerial approval will be based on text that will be provided by WHO.
- 12. Communicate the estimated number of fatalities and/or non-fatal injuries based on the WHO method to relevant country stakeholders and obtain responses (or indications of "no comment").

- Respond to any questions that may arise about the
 Provide WHO (WCO and RDC)
- - r. Copies of updated national and/or sub-national road safety legislation documents updated
 - 2. Final (cleared) country questionnaire
 - 3. Copies of all supporting background documents
- 4. Financial statements of expenditures if any
- 5. (Optional) Article/report using the country level data
- 6. (Optional) Advocate for road safety using data after release of GSRRS2023

Identify up to ten individual road safety experts to serve as National Data Contributors (NDCs) with whom to build consensus in the responses according to guidelines to be provided. Enter NDCs contact information on project web platform to grant them access to the system. Experts may be from governmental and non-governmental organizations, such as academic institutions or Non-Government Organizations (NGOs). Government representation should be obtained (through official channels) from the vital registration systems, health (including emergency care), transport (including agency responsible for national roads), vehicles, finances, and security/police sectors. Should the country belong to any of the Regional Road Safety Observatories, the data coordinator for the observatory will be part of this team too.

The reality: Declared composition of teams reporting to GSRRS 2023

		•													
			NDFP	NDC1	NDC2						NDC8		NDC10		
		AINANIA	Ministry of Transport												
Regional partners	Bosnia and Herzegovina	Ministry of Transport Regional Road Safety Observatory													
	part	Kosovo	No GSRRS 2023	GSRRS 2023 participation											
onal	onal			Ministry of Infrastructure	Ministry of Interior										
	Regi	North Macedonia	Ministry of Health												
		Serbia	Lean agency	Ministry of Interior	Lead agency	Lead agency	I Pad agency	Ministry of Infrastructure	Non- Governmental Organization	Non- Governmental Organization	Ministry of Interior				
	g its			Ministry of	Non- Governmental Organization	UTDer		Ministry of Infrastructure	Ministry of Interior						
	Observing participants	Republic of Moldova	Ministry of Interior Regional Road Safety Observatory												
		Ukraine	No GSRRS 2023	participation											

The reality: contributions to GSRRS 2023

		NDFP	NDC1	NDC2						NDC8	 NDC10
	Albania	Ministry of Transport									
partners	Bosnia and Herzegovina	Ministry of Transport Regional Road Safety Observatory									
par	Kosovo	No GSRRS 2023 participation	ı								
nal	Montenegro	Ministry of Health	?	?							
Regional	North Macedonia	Ministry of Health									
	Serbia	Lead agency	?	?	?	?	?	?	?	?	
g	Georgia	Ministry of Health	?	?	?	?	?	?			
Observing participants	Republic of Moldova	Ministry of Interior Regional Road Safety Observatory									
O	Ukraine	No GSRRS 2023 participation	1								



Tabla 153. Matriz de Barell', CIE-9-MC, distribución porcentual de las lesiones por accidente de tráfico. Año 2011 (22.102 altas y 40.678 lesiones)

			Fractures	Cistopación	linguince y torondare	interno	Hedda	Amputaciones	Vesos sanculares	Contraión superficial	Aptentamiento	Overnadures	Hendos	NE	Total
	# E	Tipo 1	2,39%	- 4	- 6	4,57%	- 6	0	0	- 5	0	- 6	0		0,04%
_	12	Tipo 2	0.01%	4	- 0	5,73%		0	0		0	- 0	0		4,34%
1.6	38	Tipo 5	0,30%	6	- 0	0		0	6	9	0	- 0	0	- 6	0,52%
1	4.0	Cubers	6	- 6	- 6	0	0,91%	0	- 0	- 6	0	- 6	0,00%	0,35%	1,22%
-	64	Cere	3:90%	0,01%	0,00%	0	1,87%	0	0	9	0	- 0	0		5,79%
ΙĬ	82	Cjo	0	6	- 6	0	0,34%	0	0	0,25%	0		0,0116		0,59%
- 5	養養	Cueto	0,00%	0	0,00%	0	0,05%		0	0	0	0,00%	0,00%		0,00%
	8 2	Cubers, cars y cuello					_	_							1,19%
		NE	0		0	- 2	0		0,02%	0,91%	9	0,01%	9	0,23%	
_	1	Canital	0,18%	9		0,10%				۰	۰		0		0,20%
1 2	2	Tortokoldorsal	0,1996	9		0,02%				۰	۰		0		0,20%
1	ā	Lumber VCI	0,10%	9		0,00%				۰	۰		0		0,10%
- E-	4	Secre cossigne	0,01%	4		0,00%				9			0		0,01%
1	-	Médule/repekte ME		0		0,01%	- 0			- 0			0		0,01%
1		Candoni	1,45%	0,17%		9				9		0	0		2,70%
	13	Torticisofdonal	1,00%	0,01%	0,07%	9				9		9			1,74%
1 2	狂	Lumber VCI	2,37%	0,01%	0,00%	9				9		9			2,46%
38	a t	Secrococcigeo	0.49%	0,04%	0,00%	9				9		0			0,53%
		Medulariespelds ME	0,07%	0	- 6	0	- 0	0	0	0	0	- 0	0		0,07%
		Pecho (tórso)	7,64%	0,02%	0,01%		0,00%	0	0,00%	0,67%	۰	0,00%	0		13,19%
2	2	Abdomen	0	4	- 6	5,93%	0.11%		0,00%	0,59%		0,00%	0,01%		4,59%
Ē	Total	Palvis y urogenital	3,50%	0,07%	0,00%	0,14%	0,10%		0.01%	0,00%		0,00%	0,00%		3,93%
_	_	Trence	0,00%	9	- 0	9	0,00%			0,1486		0,01%	0	0,90%	1,17%
		Gupalda y nelges		0	0,00%	0	0,02%	0		0,26%	0,01%	0,02%	0		0,91%
	8	Hombro y bruzo	0,79%	0,00%	0,15%	9	0,10%	0,00%		0,27%	0,00%	0,01%	0	0,10%	9,50%
	Ŧ	Antabraza y codo	6,69%	0,17%	0,05%	9	0,49%	0,01%		0,07%	0,00%	0,00%	0		0,39%
4	- 3	Curpo, menos y dedos	2,44%	0,39%	0,12%	9	6,71%	0,09%		0,1996	0,00%	0,00%	0	0,00%	4,00%
13		Otros ME	0.01%	- 0		0	0,07%	0,01%	0,00%	0,20%	0,00%	0,00%	0,20%	0,05%	0,00%
11		Cuders	2,00%	0,39%	0,04%	9				0,12%			9		2,62%
1.3	2	Music	2,67%			9		0,01%		0,14%	0,01%	0,00%	9		2,95%
100	4	Rodile	0.00%	0,20%	0,25%	9				0,21%	0,00%	0,01%	9		1,50%
	_	Pierna y tobillo	11,00%	0,12%	0,25%	9		0,00%		0,10%	0,00%	0,01%	0		11,07%
		Pie y dedos dal pie	2,13%	0,18%	0,00%	9	0,31%	0,00%		0,10%	0,00%	0,01%	0		2,65%
E	3	Otros ME	0,00%	9	0,18%	o o	1,99%	0,00%	0,14%	0,41%	0,02%	0,00%	0	0,30%	2,67%
33	ğΨ	Otros / múltiple	0,04%	9		o o			0,011%	۰	۰		0,0914		0,14%
133	_	Locations to NE	0,00%	0,01%	0,00%	0,02%	0,00%	0	0.00%	3,42%	0,00%	0,04%	0,00%	0,67%	4,40%
157	38	Todo el sistema y													1 1
12.0	3 3	efectos tundios	200												0.67%
	- 1	TOTAL	50.47%	2.57%	2.40%	17,30%	0.07%	0,21%	0.50%	7,62%	0,16%	0.36%	0,42%	2,01%	100%
		IN IAL	AND AND AND	2,01700	2,40%	17,20%	10,44794	0,21196	0,40%	1,400	0,10%	0.2076	QUACURE.	2,01%	100%

Subgrupo: Todos los heridos de accidente de tráfico excluidos los fallecidos.

Hospital data use a different language. For example:

Cases maching following criteria:

-Year

-Admission type

-ICD-10 (CM) code

-ICD-10 S or T code

New admission

e identificación y selección de casos



os que cumplen con:

- · En los registros sanitarios es el año de alta en el hospital
- Hospitalización

V01 a V06 (1,9), V09 (2,3), V10 a V18 (3,4,5,9), V19 (4,5,6,9), V20 a V28 (3,4,5,9), V29 (4,5,6,9)

V30 a V38 (4,5,6,7,9) , V39 (4,5,6,9), V40 a V48 (4,5,6,7,9) , V49 (4,5,6,9), V50 a V58 (4,5,6,7,9) , V59 (4,5,6,9),

V60 a V68 (4,5,6,7,9), V69 (4,5,6,9), V70 a V78 (4,5,6,7,9), V79 (4,5,6,9),

V80 (2,3,4,5), V81 (1), V82 (1,9), V83 a V86 (0,1,2,3,4), V87 (0,1,2,3,4,5,6,7,8,9), V89 (2,3,9)

Régimen Financiación es = Accidentes de tráfico

- S00 a S99
- T07, T14(8,9), T15 a T32, T33 (0 a 9), T34 (0 a 9), T70 (0,1,2,9), T75 (0,1,4), T79 (0,A)

Se descartan los casos de ingresos programados y traslados entre hospitales

Thanks!

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