





Overview

Background

- Challenge
- Objectives
- Road Safety Data
 - Importance
 - Crash Data
 - Other Data
- The review
 - Reviewer reference
 - Preparation
 - Stakeholders to meet
 - Interview
 - Reporting













Background and objectives







Data challenge

- Varying degrees of under-reporting, completeness and lack of meaningful analysis for road safety interventions
- Lack of standardization and integration of multiple datasets, definitions, and collection methods
- Needs
 - streamlining of processes,
 - leveraging technology,
 - bridging gaps in capacity and resources,
 - addressing barriers in notification of fatalities and injuries
- Road safety indicators are not used (e.g. speed, drink-driving, safety equipment)



GLOBAL TOTALS:

Number of countries

175

Total population (000s)

7296943

Total reported deaths

629 365

Total WHO estimation

1323666



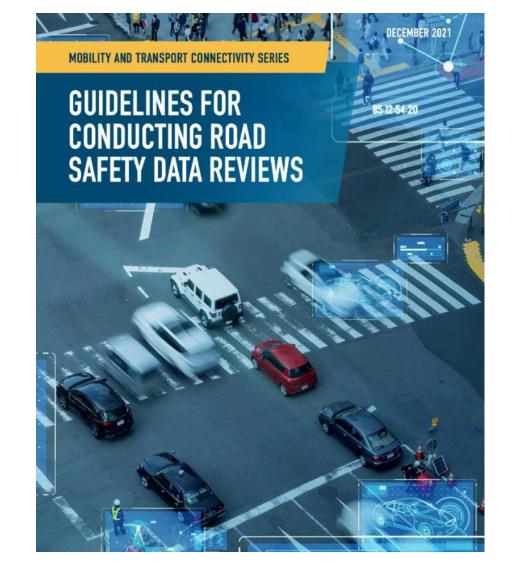


Objectives

- Support review teams in the assessment of road safety data collection ("detective work")
- Harmonize assessments
- Identify needed preparations (stakeholders to consult, activities, documents to review)
- Identify international standards
- Self-evaluation tool for observatories.

Scope

- Whole data collection process (crash investigations, reporting and registration, checking completeness and consistency, storage, analysis, use, and accessibility)
- Primary focus is crash data although other types of road safety data are considered







Road Safety Data



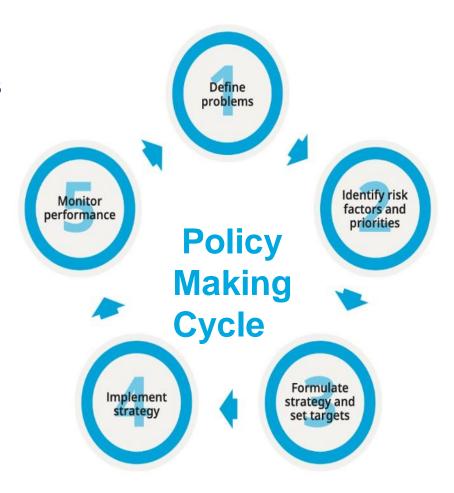




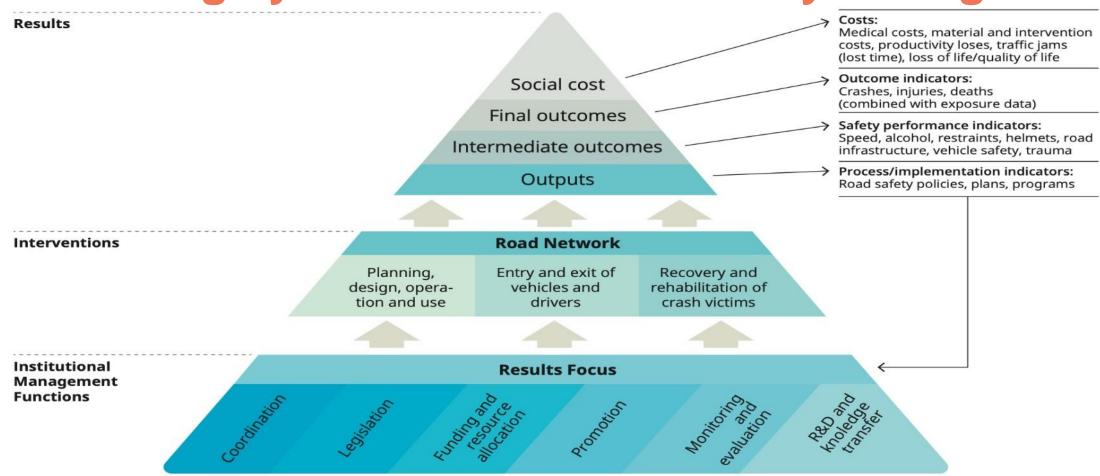
Road Safety Data: they are essential

- To prioritize road safety among other public health issues
- To assess the full nature of the road safety problem (who is at risk? When? Why?)
- To assess the real economic costs associated with road crashes
- To receive the right level of investment, and then avoid under-reporting
- To design the most (cost) effective road safety interventions
- To monitor progress and adjust work plan
- To develop and implement a systematic approach to road safety





Road Safety Data: highly linked with Road Safety Management

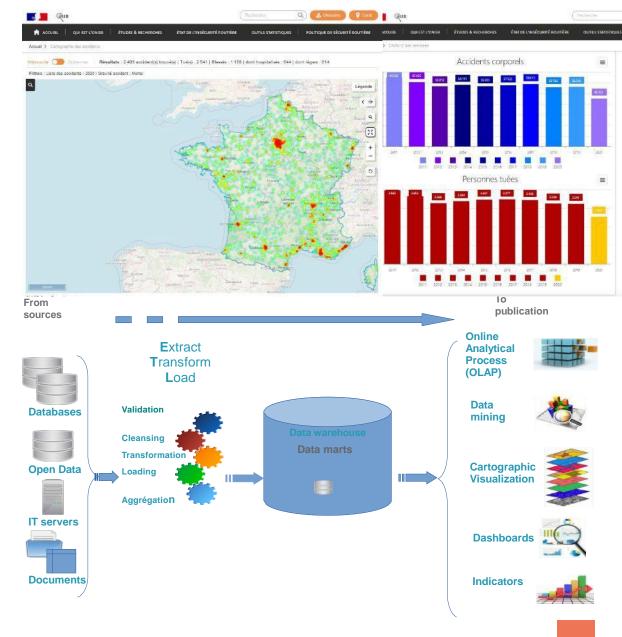






Crash and Casualty Data

- Should provide full picture of road risk, fatal and serious injury most important
- Completeness and notification
- Uniformity of definitions and collection
- Crash location
- Registration, transmission, and sharing
- Data storage
- Data querying, visualization, and analysis
- Leveraging other datasets, augmenting data







Mobility Data: Measure of Exposure to Risk

Risk= Stake(eg: number of crashes, casualties)

Measure of Exposure (eg: population, km travelled, road lengh)

- Modal share importance
- Travel distances as a gold standard
 - Ideal: surveys
 - Alternative: traffic counts
 - Surrogate: Fuel Consumption, Road Length, Vehicle Fleet, Driver Population, etc.





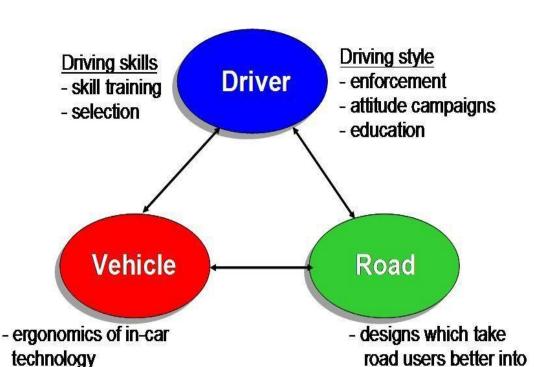


Safety Performance Indicators

account

forgiving road

WHO: a set of 12 performance targets



countries establish a comprehensive multisectoral national road safety action plan with time-bound targets.

Target 5: By 2030,

as produced, sold

or imported) and

used vehicles meet

high quality safety

standards, such as the

recommended priority

UN Regulations, Global Technical Regulations.

national performance requirements.

Target 1: By 2020, all



fatalities. or equivalent recognized



Target 2: By 2030, all

countries accede to one

or more of the core road

safety-related UN legal

instruments.

Target 6: By 2030, halve the proportion of vehicles travelling over the posted speed limit and achieve a reduction in speedrelated injuries and



Target 3: By 2030, all new

roads achieve technical

account road safety, or

meet a three star rating

standards for all road

users that take into

or better.

Target 7: By 2030, increase the proportion of motorcycle riders correctly using standard helmets to close to 100%.



Target 4: By 2030, more

existing roads is on roads

than 75% of travel on

that meet technical

standards for all road

users that take into account road safety.

Target 8: By 2030, increase the proportion of motor vehicle occupants using safety belts or standard child restraint systems to close to 100%.



Target 9: By 2030, halve the number of road traffic injuries and fatalities related to drivers using alcohol, and/or achieve a reduction in those related to other psychoactive substances.

10 2030

Target 10: By 2030, all countries have national laws to restrict or prohibit the use of mobile phones while driving.



Target 11: By 2030. all countries to enact regulation for driving time and rest periods for professional drivers, and/or accede to international/regional regulation in this area.



Target 12: By 2030, all countries establish and achieve national targets in order to minimize the time interval between road traffic crash and the provision of first professional emergency



technologies



behavioural response to new



Other Data

Road Safety Interventions

Safety engineering

- · Road sections with improved iRAP star rating
- Number of intersections improved
- Number of speed cameras operational
- Length of road with section control for speeding

Enforcement

- Number of tickets delivered
- Number of drivers checked
- Hours spent on checks

Education

- Number of downloads for educational material
- Number of children taught a course

Promotional activities

- Number of clicks on promotional video
- Minutes of air time for a spot

Driver training

- Driving lessons taken by students
- Exams attempted/ exams passed

Vehicle testing

- · Vehicles checked
- Vehicles admitted after improvements

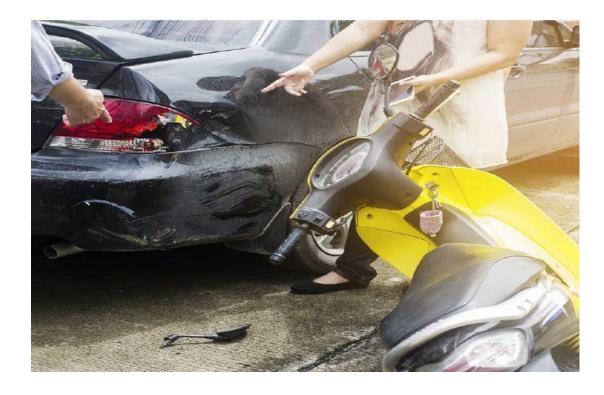
Emergency medical services

- · Crash scenes attended
- Average time to arrive at scene





Regional Road Safety Observatories: Reports and Outputs



The review

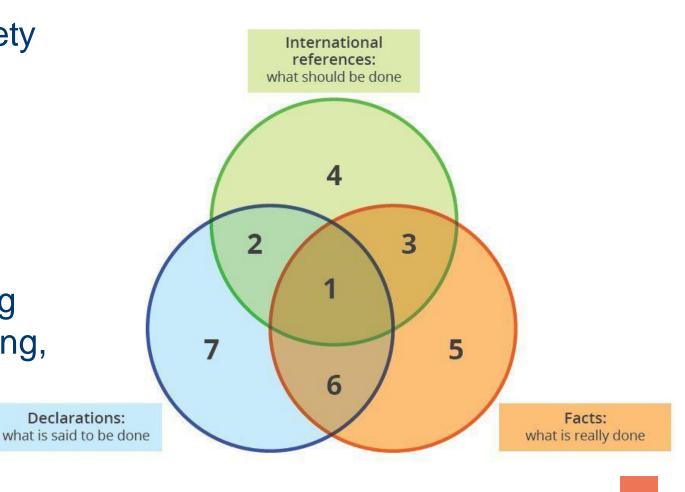






Reviewer: Situation Assessment Process

- Situate each aspect of road safety data system in the diagram and adapt recommendations accordingly
- Therefore, the review can serve several purposes:
 - From initiating a good starting point of a system in the making,
 - ...to improving an already existing system







Preparing: a key cooperation step

By the Host Team

- Table of relevant road safety data
- Documentation
- Key partners in data collection, analysis, use
- Relevant outputs: reports, maps, analysis
- Registration form
- Definitions of crach data
- Description of database(s)
- Actual crash data
- Visit preparation: meetings, appointments

By the Review Team

- Determine scope and objectives of the review
- Request relevant data and documentation from the host country
- Organize meetings ahead of the visit
- Identify stakeholders and government organization structure
- Undertake a literature review of published studies and reports
- Review existing documentation, forms, and reports
- Inspect crash data
- Assess SPIs and mobility data
- Develop a preliminary assessment and insight
- Prepare interview questions and presentations





Meeting Stakeholders

- Ministries and Government Departments
- Police
- Hospitals
- Statistics Office
- Coroners
- Insurance Companies
- Road Safety Advocacy Groups and Journalists
- Research and Academia













Interviewing

- Topics to address
 - Organization of data collection (crash and others)
 - Resources: quality and capacity
 - Data storage, integration and quality control
 - Data use
 - How?
 - Trace the whole data chain
 - Look for tangible evidence
 - Check for consistency













Reporting

- Context, key stakeholders
- Safety Data Evaluation
 - Collection, storage
 - Completeness
 - Quality
 - Links with other data
 - Uses
- Recommendations
 - Organization of data collection
 - Methods, training, communication
 - Use of existing road safety data
 - Additional data to collect







The guide

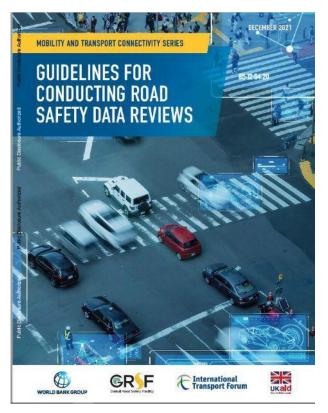


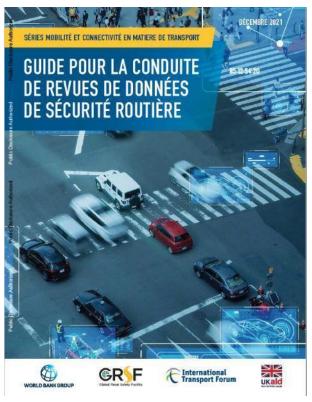




Versions

English and French versions available Spanish version to come





Martensen, Heike; Duchamp, Gilles; Feypell, Veronique; Raffo, Veronica Ines; Burlacu, F. Alina; Turner, Blair; Paala, Mirick. 2022. Guidelines for Conducting Road Safety Data Reviews. Mobility and Transport Connectivity;. World Bank, Washington, DC. © World Bank. https://openknowledge.worldbank.org/handle/10986/36835 License: CC BY 3.0 IGO





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