

# DATA SYSTEMS

A ROAD SAFETY MANUAL  
FOR DECISION-MAKERS  
AND PRACTITIONERS



World Health  
Organization



FIA Foundation  
for the Automobile and Society



GLOBAL  
ROAD SAFETY  
ACTION PLAN

THE WORLD BANK

good practice

Jonathon Passmore  
World Health  
Organization



*Department of Violence and Injury Prevention and Disability*

# Background

## 2004 launch of *World report on road traffic injury prevention*

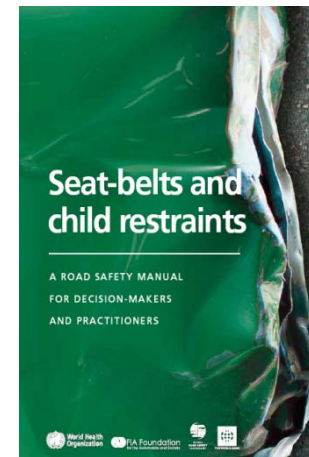
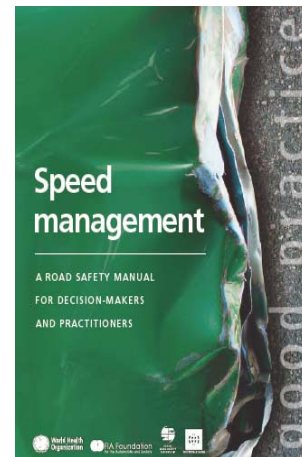
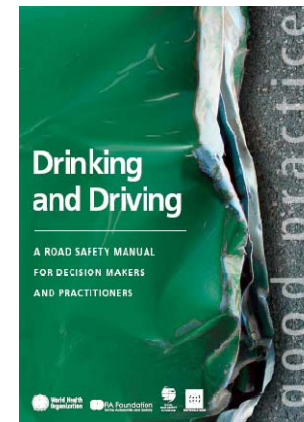
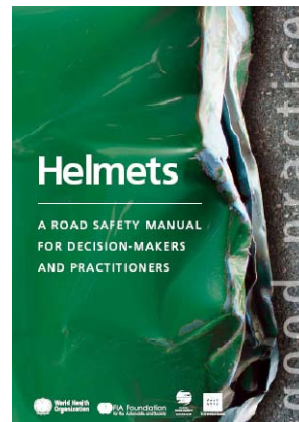
### Recommendations:

- Lead agency
- Assessment of problem, policies and institutional settings.
- National road safety strategy and plan of action.
- Allocation of financial and human resources.
- Implement specific actions.
- International cooperation.



# UN Road Safety Collaboration

- 40+ organizations dedicated to improving road safety
- GRSP, WHO, the FIA foundation and WB decide to develop a series of manuals on:
  - helmets
  - drinking and driving
  - speed management
  - seatbelts
  - road safety management
  - data collection



[www.who.int/roadsafety](http://www.who.int/roadsafety)



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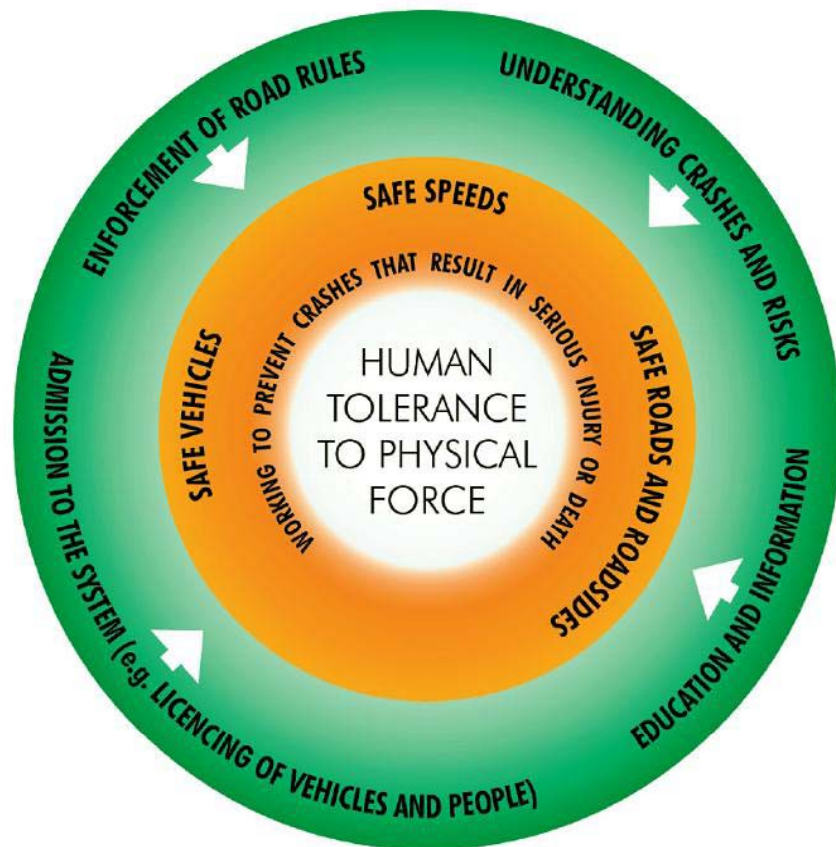


# WHY DATA?



*Department of Violence and Injury Prevention and Disability*

# Safe System Approach



Shared responsibility  
Multisectoral collaboration  
Vehicles, road  
infrastructure, road users  
Built on collection,  
analysis, interpretation of  
good data



# Module 1: Importance of data and data systems



- Quality data systems are needed to:
- Measure incidence of crashes and injuries
  - Identify characteristics (risk/protective factors)
  - Develop and test interventions
  - Link data within and across sectors
  - Facilitate multi-sectoral collaboration
  - Monitor impact



# Data manual: process

- Initial planning and conceptualization by working group of UNRSC
- Oversight by WHO Headquarters
- First draft prepared by injury epidemiologist with substantive inputs from road safety experts from transport and police backgrounds
- Revised based on feedback from GRSP/Asia workshop and select reviewers in 2008
- Pilot workshop July 2009 (NHTSA/WHO/CDC/GRSP)
- Currently under peer review
- Revision ongoing, publication by end 2009
- Dissemination of manual in 2010



# Structure of data manual

Introduction

Module 1: Why are data systems important?

Module 2: Situational assessment

Module 3: How to implement or improve a road safety data system

Module 4: Using data to improve road safety

Case Studies





# Module 2: Situational Assessment

- Why assess the situation?
- Who are the stakeholders?
- What are the objectives for data collection?
  - What data are available, what systems?
  - What are the quality of the data?
  - What resources are available?



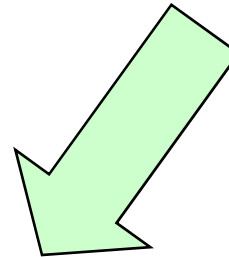
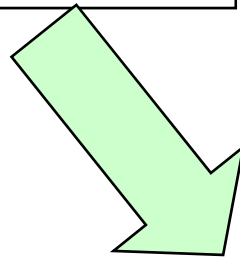
# Module 2: Situational Assessment

## Situation Assessment:

- Preliminary objectives
- Data sources and accessibility
- Data quality
- Resource availability

## Stakeholder mobilization:

- Data collectors and users convened
- Partners for data system identified
- Objectives refined



## Choose appropriate course of action:

Do existing data sources provide the data you require?

Does existing system meet your requirements? If not, is it feasible to modify/improve?



# Module 3: Design and implementation



- Mobilizing stakeholders
- Improve an existing system
  - Evaluation
  - Data collection and entry
  - Data management and analysis
- Implement a new data collection system
  - Plan for the system
  - Choose and define minimum data elements
  - Choose data collection tools
  - Designing the database
  - Develop a data management and analysis plan
  - Collect, process, disseminate and use data
  - Implement quality assurance measures



# Module 4: Using data to improve road safety

- Dissemination
- Road safety indicators
- Target setting
- Assessing the impact of interventions



# Data manual: next steps

- Peer review
- Revisions in progress
- Finalize for production
- Publication end-2009
- Dissemination early 2010
- For more info: contact Alison Harvey  
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