

Exchange
knowledges and techniques
on roads and road transportation



WORLD ROAD ASSOCIATION



www.piarc.org

Road Safety: *News from the World Road Association* **PIARC**

Brussels, Belgium March 2019



Why a Road Safety Manual?

A global crisis of death and serious injury in road crashes

A largely preventable problem

Safe Systems Approach is recommended for adoption in all countries

Leadership and institutional capacity are vital for results

An urgent development priority



Foundation: Safe Systems Approach

Shift from crash prevention in general towards prevent deaths and injuries

Directly addresses the needs of vulnerable road users and others

Encourages safety to be designed into developing road networks rather than being considered an afterthought



PIARC Online Road Safety Manual

A comprehensive resource



The screenshot shows the homepage of the PIARC Online Road Safety Manual. The header features the World Road Association logo on the left and the title 'ROAD SAFETY MANUAL' with the subtitle 'A MANUAL FOR PRACTITIONERS AND DECISION MAKERS ON IMPLEMENTING SAFE SYSTEM INFRASTRUCTURE' on the right. A green navigation bar contains the following menu items: INTRODUCTION, STRATEGIC GLOBAL PERSPECTIVE, ROAD SAFETY MANAGEMENT, PLANNING, DESIGN & OPERATION, and TOOLS. Below the navigation bar, the main content area is divided into two columns. The left column features a large green heading 'WELCOME TO THIS WORLD ROAD ASSOCIATION GUIDE' followed by a paragraph: 'THE NEW ROAD SAFETY MANUAL (RSM) IS DESIGNED TO HELP COUNTRIES AT EVERY STAGE OF INFRASTRUCTURE DEVELOPMENT TO FULFILL ROAD SAFETY OBJECTIVES.' Below this, it states the manual is aligned with the United Nations Decade of Action for Road Safety 2011-2020 and lists three pillars: Pillar 1: Road Safety Management; Pillar 2: Safer Roads and Mobility; Pillar 4: Safer Road Users. Further text describes the manual's comprehensive nature and its alignment with the Safe System approach. The right column contains a green box with the text 'ARE YOU A RESEARCHER, A STUDENT OR A PROFESSIONAL?' and a 'REGISTER' button. Below this is a photograph of a city street at night with light trails, and another 'REGISTER' button. At the bottom of the right column, there is a grey box with a double arrow icon and the text 'ACCESS TO THE KEY MESSAGES FOR THE MANAGERS', and a green box with the text 'GIVE US YOUR FEEDBACK!' and a 'SEND' button.

WELCOME TO THIS WORLD ROAD ASSOCIATION GUIDE

THE NEW ROAD SAFETY MANUAL (RSM) IS DESIGNED TO HELP COUNTRIES AT EVERY STAGE OF INFRASTRUCTURE DEVELOPMENT TO FULFILL ROAD SAFETY OBJECTIVES.

It is aligned with key pillars for the [United Nations Decade of Action for Road Safety 2011-2020](#):

- **Pillar 1:** Road Safety Management;
- **Pillar 2:** Safer Roads and Mobility;
- **Pillar 4:** Safer Road Users.

This comprehensive resource builds on the broad range of knowledge and experience provided by PIARC in the *first edition*. It includes new thinking on road safety and offers a clear argument on why adopting a Safe System approach is crucial for your country.

The Safe System approach aims for a more forgiving road system that takes human fallibility and vulnerability into account. Under the Safe System approach, everyone (public agencies, automobile manufacturers, road users, enforcement officials, and others) must share the responsibility for road safety outcomes.

The manual is split into three parts and can be downloaded in chapters.

Key principles for each of the topics are included and discussed in the sections, with case studies and links to detailed technical material and other references.

ARE YOU A RESEARCHER, A STUDENT OR A PROFESSIONAL?

CREATE YOUR FREE ACCOUNT TO ACCESS THE ADDITIONAL MEDIA MATERIALS AND RECEIVE ALERTS WHEN NEW CONTENTS ARE PUBLISHED.

REGISTER

ACCESS TO THE KEY MESSAGES FOR THE MANAGERS

GIVE US YOUR FEEDBACK!

DO YOU WANT TO SEND US A REVIEW?

SEND



PIARC Online Road Safety Manual

Good to know

- <http://roadsafety.piarc.org/en>
- Designed to help countries at every stage of infrastructure development fulfil road safety objectives
- It includes new thinking on road safety and offers a clear argument on why adopting a Safe System approach is crucial for your country
- A comprehensive, state-of-the-art international reference document and a “living” tool that can assist all countries in fulfilling key objectives
- **The Road Safety Manual has been acknowledged in United Nations' resolution A/70/L.44 on road safety**



PIARC Online Road Safety Manual

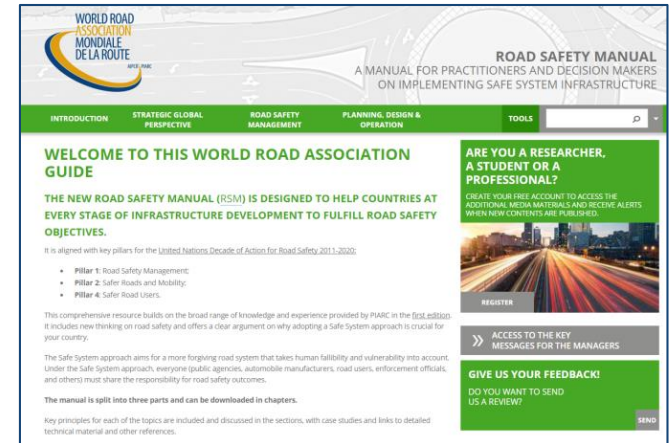
Free of charge

- <http://roadsafety.piarc.org/en>
- Free of charge
- 3 Main Parts, 12 chapters
- Case studies and links to detailed technical material and other references
- Can be downloaded and printed in chapters
- Aligned with key pillars for the United Nations Decade of Action for Road Safety 2011-2020:

Pillar 1:
Road Safety Management

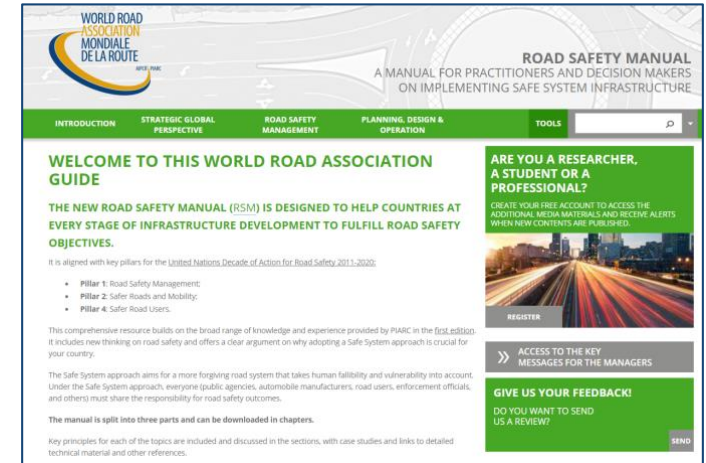
Pillar 2
Safer Roads and Mobility

Pillar 4
Safer Road user



PIARC Online Road Safety Manual Languages

- <http://roadsafety.piarc.org/en>
- RSM is available in English
- First online version launched at Seoul WRC 2015
- Updated version currently being developed by PIARC Technical Committees
- To be launched at Abu Dhabi WRC 2019
- Launch of French and Spanish versions soon
- Chinese and Farsi versions under development



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SEND

INTRODUCTION

STRATEGIC GLOBAL
PERSPECTIVE

ROAD SAFETY
MANAGEMENT

PLANNING, DESIGN &
OPERATION

TOOLS



PART 1 ↓

STRATEGIC GLOBAL PERSPECTIVE

Chapter 1: Scope of the road safety problem

Chapter 2: Key developments in road safety

<http://roadsafety.piarc.org/en>



PART 2

ROAD SAFETY MANAGEMENT

Chapter 3: The Road Safety Management System

Chapter 4: The Safe System Approach

Chapter 5: Effective management and use of safety data

Chapter 6: Road safety targets, investment strategies, plans and projects

<http://roadsafety.piarc.org/en>

PART 3

PLANNING, DESIGN AND OPERATION

Chapter 7: Roles, responsibilities, policy development, and programmes

Chapter 8: Design for road user characteristics and compliance

Chapter 9: Infrastructure Safety Management: Policies, standards, guidelines and tools

Chapter 10: Assessing potential risks and identifying issues

Chapter 11: Intervention selection and prioritization

Chapter 12: Monitoring and evaluation of road safety interventions

<http://roadsafety.piarc.org/en>

Case Studies

70+ case studies from across the world



ROAD SAFETY MANAGEMENT

SAFETY MANAGEMENT SYSTEM

THE SAFE SYSTEM APPROACH

SAFETY DATA

TARGET AND STRATEGIC PLANS

INTRODUCTION

CAPACITY TO DELIVER TARGETS

TIMEFRAMES

ASSESSING SAFETY PROBLEMS

» SETTING TARGET

PLAN IMPLEMENTATION

IMPLEMENTATION OF INTERVENTIONS

PERFORMANCE INDICATORS

MEETING TARGETS

REFERENCES

CASE STUDIES – TARGET-SETTING

Contained below are a number of case studies on target setting:

CASE STUDY - Denmark: Road Safety Commission National Action Plan

The need to reduce fatal and injury crashes in Denmark, has led to the development of a national action plan. Every Accident is one too many - a shared responsibility is the official name for the Danish Road Safety Commission National Action Plan 2013-2020. The number of road users killed or injured on Danish roads has halved since 2001. A very important player is the Danish Road Safety commission who sets ambitious road safety targets on a regular basis. The targets are then used and adopted by relevant stakeholders involved making an effort and taking responsibility for implementing the objectives to reach the target in the Action Plan. The stakeholders need to be supported by political commitment and get necessary earmarked funding for road safety to reach the target. [Read More](#) (PDF, 206 kb)

CASE STUDY - Czech Republic: Identification of hazardous road locations

On each decision-making level a road safety management system should be established and operated. Such system starts with identification of hazardous road locations, followed by their analysis, priority setting, proposal and application of countermeasures, and evaluation of effectiveness. The national research project "IDEKO" was undertaken by CDV – Transport Research Centre. Its objective was to develop methods and tools for identification and treatment of hazardous road locations. [Read More](#) (PDF, 141 kb)

CASE STUDY - England: Three star roads by 2020

Highways England and the Department for Transport identified the need to reduce road fatalities and serious injuries across their road network. In 2015, Highways England set a target to achieve 90% of travel on 3-star or better roads across the strategic road network by 2020. In 2016 the Department for Transport launched an innovative local roads fund that targets the highest risk 50 roads across the country as published by the Road Safety Foundation on an annual basis. [Read More](#) (PDF, 179 kb)



PIARC Online Safety Manual

Global Steering Committee





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Worldwide members

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UNECE: Yuwei Li, Switzerland

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European Investment Bank: Per Mathiasen, Luxemburg

Asian Development Bank: Nana Soetantri, Phillipines

African Development Bank: Girma B. Bezabeh, Ivory Coast

CAF: Paloma Ruiz, acting

ITF: Veronique Feypell De La Beaumelle, France

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Rainer Kienreich, Austria

Stuart Leggett, Scotland

John Milton, USA

Tri Tjahjono, Indonesia

Shaw Voon Wong, Malaysia (Chair TC C2)



PIARC CONGRESSES

- **26th World Road Congress**

- Abu Dhabi, United Arab Emirates
- 6 – 10 October 2019



- **16th International Winter Road Congress**

- Calgary, Canada
- February 2022





Thank you for your attention



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