

Exchange  
knowledges and techniques  
on roads and road transportation



# WORLD ROAD ASSOCIATION



[www.piarc.org](http://www.piarc.org)

***Claude VAN ROOTEN***  
***President***

# PIARC's Four key missions

- Be a **leading international forum for analysis and discussion** of the full spectrum of transport issues related to roads and related transport;
  - Identify, develop, and disseminate **best practice** and **give better access to international information**;
  - Consider within its activities the needs of **developing countries and countries in transition** fully; and
  - Design, produce, and promote **efficient tools for decision making** on matters related to roads and related transport.
- 
- The Association mobilizes the expertise of its members
  - Through operations guided by a **4-year Strategic Plan**





# Extensive membership base

- **122 National governments are members of the Association**
- **Members from a total of 140 countries**
  - Regional authorities
  - Collective members – public or private
  - Individual members
- **More than 1 200 experts are currently mobilised in our working groups**





An extensive website:  
[www.piarc.org](http://www.piarc.org)

## Services available:

- Knowledge Base
- Virtual Library
- Online road dictionary
- Congress proceedings
- Detailed information on the Association and its activities
- **Road Safety online manual**
- Etc.





# Online Manuals : Easy access to knowledge

- Four online manuals have been developed by the Association:
  - Road Safety
  - Road network operations and ITS
  - Road Tunnels
  - Asset management
- Comprehensive, state-of-the-art international references
- Assist all countries meet their objectives
- Easy and attractive to use:
  - Free of charge
  - Key principles for each of the topics are included and discussed in the sections
  - Case studies and links to detailed technical material and other references
  - Can be downloaded and printed in chapters



## 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 ref.

## ARE YOU A RESEARCHER, A STUDENT OR A PROFESSIONAL?

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ACCESS TO THE KEY MESSAGES FOR THE MANAGERS

## GIVE US YOUR FEEDBACK!

DO YOU WANT TO SEND US A REVIEW?

SEND



## WELCOME TO THIS WORLD ROAD ASSOCIATION GUIDE

Most transport modes are experiencing rising congestion and this directly affects the economies of many nations. Relief for road congestion is an issue all over the world.

Road Network Operations (RNO) concern the methods at the disposal of road authorities and highway infrastructure operators that contribute to safer and more efficient travel for road users and for society as a whole. This includes techniques such as traffic incident detection, incident management, traffic control (urban and inter-urban) traveller information (on-trip and on-line), public transport priorities, electronic payment and travel demand management techniques.

Intelligent Transport Systems (ITS) concern a wide range of services that use information and communications technology that can improve transportation and mobility.

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## WELCOME TO THE PIARC ROAD TUNNELS MANUAL

- 1. The Road Tunnels Manual
- 2. If it is your first visit
- 3. Copyright
- 4. Disclaimer

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**Beyond the Road Safety Manual PIARC produced a wide range of reports on different facts of Road Safety from organization to technical details from human factor to road construction.**

# UN resolution A/RES/72/271

## April 12<sup>th</sup>, 2018



It acknowledged the “Road Safety Online Manual” consolidated by the World Road Association as “an instrument to offer guidance to officials at various levels on measures that can enhance the safety of road infrastructure”.

According to choices assumed, road safety can sort either in a matter of political and economic interest or in a huge societal cost for Member States and citizens.



**Not contributions at global level only: the work of PIARC contributes even to the European State of the Art and Policies. For instance, the work of PIARC was acknowledged by European Institutions as grounding the European Directive on Safety of Road Tunnels - see explanatory memorandum – page 2 of directive 2004/54/CE (mentioning the PIARC report on “fire and smoke control in road tunnels”).**



# International Seminars

- Exchange of knowledge with and in low- and middle-income countries
- 26 seminars and 7 workshops organised during the 2012-2015 cycle
- Presentations are available online via the PIARC Website
- Almost 50 seminars and workshops during the 2016-2019 cycle



**Technical Committee C1 on Policies and programs for road Safety will meet tomorrow here in Brussel organizing a joint workshop with ASECAP even thank to a contribution from the European Commission**

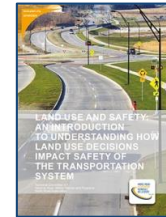


# Strategic Theme Safety

## What has happened recently? (1/2)

### 14 recent Technical Reports (2012-2015)

- Vulnerable road users: Diagnosis of design and operational safety problems and potential countermeasures
- Land use and safety: an introduction to understanding how land use decisions impact safety of the transportation system
- The Role of Road Engineering in Combatting Driver Distraction and Fatigue Road Safety Risks
- Human factors guidelines for a safer man-road interface
- Fixed fire fighting systems in road tunnels: Current practices and recommendations
- Improving safety in road tunnels through real-time communication with users
- Human factors in road design. Review of design standards in nine countries



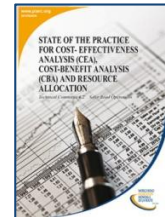
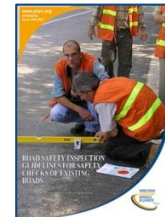
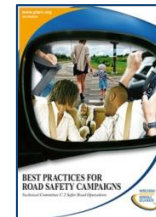


# Strategic Theme Safety

## What has happened recently? (2/2)

### 14 recent Technical Reports (2012-2015)

- Road accident investigation guidelines for road engineers
- Comparison of national road safety policies and plans
- Road safety inspection guidelines for safety checks of existing roads
- Best practices for road safety campaigns
- Improvements in safe working on roads
- State of the practice for cost-effectiveness analysis, cost-benefit analysis and resource allocation
- Best practice for road tunnel emergency exercises

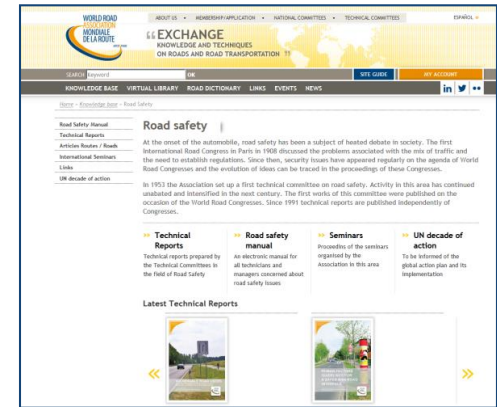


# 2016-2019 Work Plan

## What is planned?

### Six forthcoming reports

- National Road Safety policies evolution
- Vulnerable road users
- Human factors and design
- Setting credible speed limits
- Catalogue of design, operations and maintenance safety problems and potential countermeasures for LMIC
- Road Safety Audit guidelines (amended version)
- ...and an update of the Road Safety Manual!



- **26th World Road Congress**
  - Abu Dhabi, United Arab Emirates
  - 6 – 10 October 2019
  - [www.piarcabudhabi2019.org](http://www.piarcabudhabi2019.org)
- 16th International Winter Road Congress
  - Calgary, Canada - 8 – 11 February 2022
- 27th World Road Congress
  - Prague, Czech Republic - September – October 2023





***Thank you for your attention!***



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