

PIARC Road Safety Manual

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Road Traffic Accidents (RTAs) are running at unacceptable levels throughout the world. As a responsible, global industry body, the World Road Association (PIARC) is committed to reducing them by issuing practical advice on road planning and safety.

PIARC's Road Safety Committee invests heavily in high-quality independent research designed to increase road safety. It has now produced the premier edition of the Road Safety Manual, its first

step towards developing a standard industry reference source.

This comprehensive manual gives easy access to crucial, state-of-the-art information and guidance in a practical, user-friendly format. PIARC has assembled the best available materials and advice from around the world, across the range of technical organisational factors that are key to reducing the human and economic costs of RTAs.

The manual is split into four accessible parts:

Part One: Introduction to Road Safety is an overview of the problem, designed to help transportation professionals better understand the potential, as well as the limitations, of available solutions.

- Chapter 1: Scope of the road safety problem
- Chapter 2: Road safety management
- Chapter 3: Road safety factors

Part Two: Road engineering describes the complete road safety improvement process, from data collection to the impact of solutions that are available for implementation.

- Chapter 4: Data
- Chapter 5: Identification
- Chapter 6: Diagnosis
- Chapter 7: Priority ranking
- Chapter 8: Evaluation

Part Three: covers the technical relationship between safety and a range of road components and human capabilities.

- Horizon alignment
- Sight distance
- Human factors
- Vertical alignment
- Road surface conditions
- Intersection

Part Four: shows how to carry out the technical studies that form an integral part of safety analysis.

- Spot speed
- Friction
- Travel time and delay
- Traffic count
- Sight distance
- Traffic conflicts



In whichever country you practice as a transportation professional, you will find the Road Safety Manual an invaluable working tool.

The 500-page Road Safety Manual is available in English and French language, in hardback and interactive CD-ROM, which includes software applications designed to help deployment of the techniques described and automated formula calculators to aid practical use.

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