

## NEW RELEASE

### PIARC CATALOGUE OF DESIGN SAFETY PROBLEMS AND POTENTIAL COUNTERMEASURES

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The Technical Committee 3.1 *Road Safety* of the World Road Association (PIARC) has produced a Catalogue of Design Safety Problems and Countermeasures. It is particularly aimed at developing and emerging countries and countries in transition. The catalogue clearly presents well-known design errors and suggests methods to overcome these.

The catalogue can be used either as a proactive safety tool to ensure the design faults do not arise in the first place or as a reactive safety tool to assist in designing cost-effective countermeasures to deal with a problem.

The catalogue is divided into 8 sections:

1. Function
2. Cross Section
3. Alignment
4. Intersections
5. Public and Private Services
6. Vulnerable Road Users
7. Traffic Signing and Marking
8. Roadside Features

These 8 sections correspond to those of the Road Safety Audits (RSA) and Road Safety Inspections (RSI) publications with the detailed checklists published to assist their procedures. The document provides guidelines on how to use the guideline as part of either the Road Safety Audit or Road Safety Inspection procedure.

Each section is divided into specific problem areas. The problem is outlined with a summary of crash types and affected users as a result. Treatment types are defined. The relative comparative costs of the suggested countermeasures are shown for assistance in prioritisation of works. Pictorial and diagrammatic representations are used throughout to provide clearer depiction of problems and solutions.

The catalogue's presentation is colour coded such that the different sections are clearly discernable.

A table of potential crash savings is presented giving an indication of the potential reduction in incidents through successful implementation of the countermeasures presented in the catalogue.

This publication is not intended to be a detailed road safety design manual – it is a collection of common types of design failures with potential ways to overcome them. The detailed PIARC Road Safety Manual should be considered in conjunction with this catalogue and the treatments presented. The catalogue's content is provided in English only.

**This report can be accessed through PIARC's Virtual Library at:**  
[http://publications.piarc.org/ressources/publications\\_files/5/6052,2009R07.pdf](http://publications.piarc.org/ressources/publications_files/5/6052,2009R07.pdf)