





14th International Road Safety Conference

NEW DECADE - NEW ACTIVITIES - NEW TECHNOLOGIES

Gdańsk University of Technology, 29-31 May 2023

HONORARY PATRONAGE

















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MEDIA PATRONAGE

WORKSHOP ORGANIZERS















14th International Road Safety Conference GAMBIT 2023

New Decade — New Activities — New Technology

6dansk University of Technology, 29–31 May 2023

ACTIVITIES ON PIARC ROAD SAFETY COMMITTEE

John Milton, PhD, PE









Content

- Snapshot of TC 3.1 Progress
- Seminars
- Special Projects
- Partnerships
- 27th World Road Congress
- 2024-2027 Cycle



Polski Kongres Drogowy

PIARC Road Safety Technical Committee

Technical Committee T.C. 3.1: Road Safety part of ST3:

- WG3.1 Road safety issues for LMICs
- WG3.2 Proven countermeasures
- WG3.3 Update of Road Safety Audit Guidelines
- WG3.4 Implication of Connected and Automated Vehicles
- WG3.5 Update of the Road Safety Manual

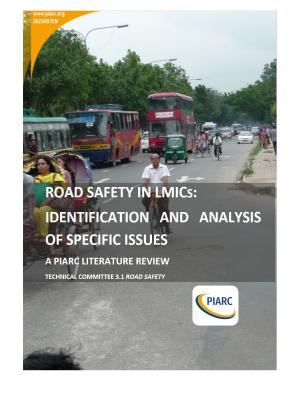


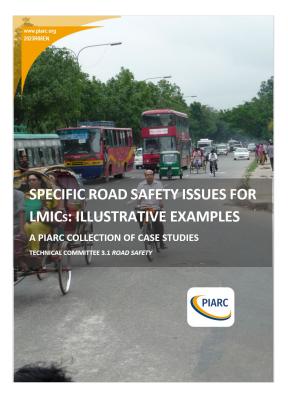




WG3.1 Specific Road Safety Issues for LMICs

- Specific road safety issues for LMICs
- Identify successful stories, paying special attention to those in LMIC countries, with specific examples of safety improvement and management of road safety (in terms of key performance indicators).
- Take into account safety of vulnerable users.
- Identify the existing tools, processes, checklist, etc. used to achieve success.
- Identify successful stories, paying special attention to LMIC





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WG 3.2 Implementation of Proven Countermeasures



- Increase road safety through the implementation of proven countermeasures to reduce accidents in motorways, rural roads and urban roads, paying special attention to vulnerable road users, speed management and fatigue.
- Describe the process for selecting countermeasures given road user consideration and define good practices in strategies related to traffic safety in urban areas, paying special attention to vulnerable road users.









WG 3.4 Update of the Road Safety Audit Guidelines

- Update the Road Safety Audit Guidelines for Safety Checks on New Road Projects (2011).
- Add sections to provide exemplar guidance to LMICs

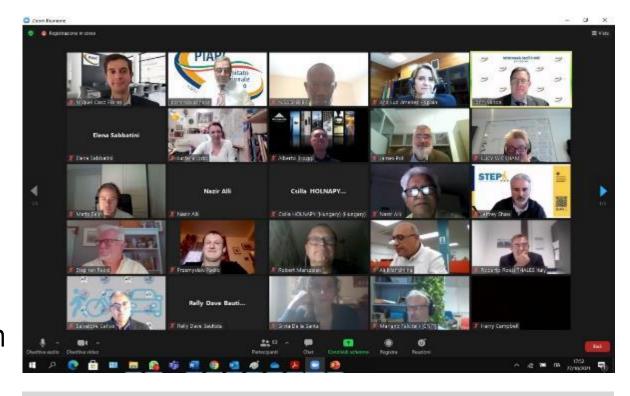






WG 3.4 Implication of the Connected and Automated Vehicles

- Analysis on classification of traffic accidents which automated vehicle can/cannot prevent.
- Evaluate implications of connected and automated vehicles in road safety from the point of view of road design considerations
- Identify best practices.
- Identify safety issues as far as transition period to automated driving concerns.



23 Speakers, a few hundred participants 2 days, 3 sessions focusing on **CAV Road Safety Implications** Psychological factor to CAV acceptance A safe and connected Infrastructure System

Internationa Road Safety





WG 3.5 Update of the Road Safety Manual

 Updates of Road Safety Manual focus on the work carry out by the TC.



· Newly released PIARC publications are highlighted throughout by providing RSM user weblinks to each of them:

1. Land use and safety: an introduction to understanding how land use decisions impact safety of the

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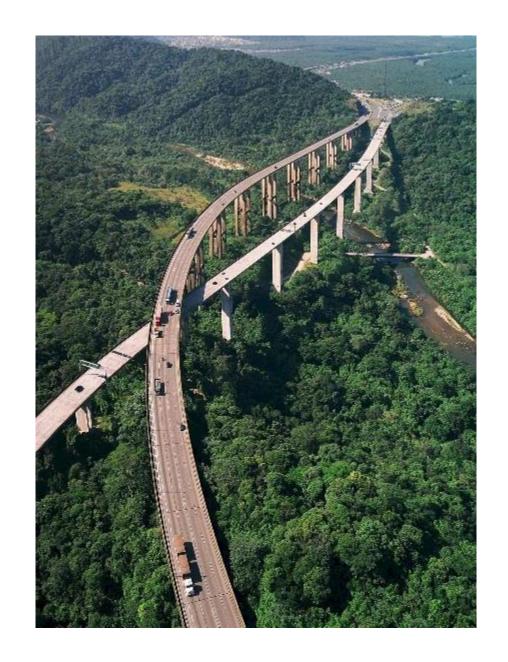
Ongoing to World Road Congress





Seminars

- Road Safety in Low to Middle Income
 Countries, 18-20 May 2021, Tunis Tunisa
- South African Road Federation 7th
 Regional Conference for Africa, Cape
 Town, South Africa







Seminar on: "Road Safety in Low- and Middle-Income Countries: Issues and Countermeasures"

- 600 participants from 94 Countries on 4 continents
- Online
- 3 Days 6 Session and 23 Presentations
- Partnership with Tunisian Road Association, Tunisian Ministry of Equipment, Housing and Infrastructure, Tunisian Ministry of the Interior via the National Road Safety Observatory





PIARC international seminar on: "Road Safety in Low- and Middle-Income Countries: Issues and Countermeasures"

- Adoption of Safe System Approach is necessary to prevent fatal and serious crashes.
- LMICs need to develop strong lead agency, robust set of local guidelines and regulations and build road safety expertise
- Important to carry out Road Safety Audits to ensure highway schemes operate as safely as practicable
- Enhance the use of technology and improve Road Safety Data Systems
- Implement a comprehensive Road Safety Assessment throughout the entire design process





2022 SARF/IRF/PIARC 7th Regional Conference for Africa Cape Town 18-20 October

- 500 Registrants from 30 Countries
- 14 Members onsite, 29 total
- 3 Days Rural Mobility and Safety
- Moderated 4 GS, 4 Safety, 3 Rural Road
- Presentations 7 Safety











Outcomes:



- Technical Committee was able to reach 30 Countries and provide technical rural safety and mobility outreach
- Positive response on seminar
- Interaction between Technical Committees on Rural Roads

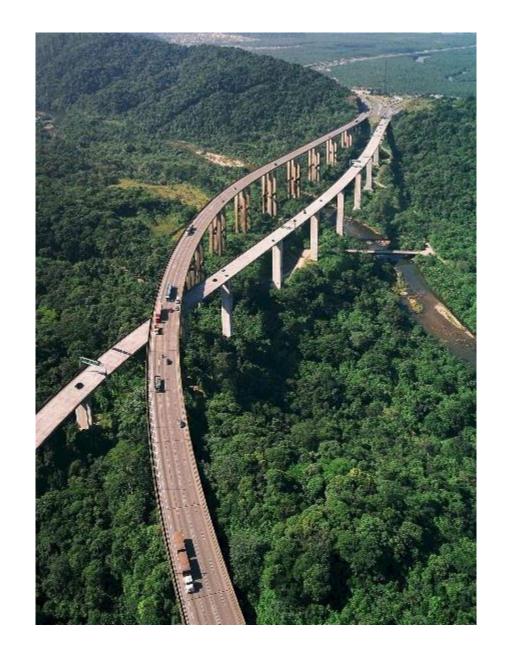




Special Projects

Safety Related Special Projects:

- Bridge and Tunnel Strikes by Oversize Vehicles'
- PIARC Global Road Safety Knowledge Exchange Project

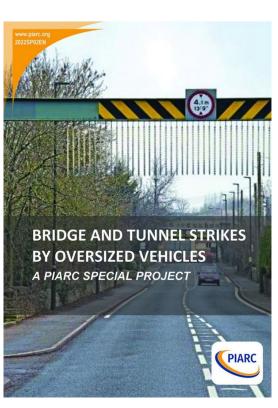






Technical report: "Overweight vehicles: Impact on road infrastructure and safety"

- Overloading is a common problem in LMICs due to limited use of WIM (Weigh in Motion) and the largest overloads occur on secondary and rural roads
- Overweight freight vehicles contribute to greater damage in case of collisions
- Prevention and mitigation solutions include four steps:
 - **Legislation** well-formulated legal text with little room for interpretation road users
 - Prevention and education comprehensive information on potential consequences of overloading
 - **Detection and enforcement** use of both static and movable scales along with law enforcement controls
 - Penalisation financial, operational or institutional penalties.
- Effective enforcement of weight limits by deployment of more staff and increase in fines could lead to higher compliance and a decrease in safety risk.







PIARC Global Road Safety Knowledge Exchange Project

- Aiming to promote knowledge sharing through appropriate implementation aids that will reflect previous work of but not limited to PIARC
- Focus on spreading road safety knowledge to Low- and Middle-Income Countries.
- With the support of National Technical University of Athens (NTUA) and Austrian Institute of Technology (AIT)





Promotion Material

- Newsletters
 - Monthly newsletters for each Road Safety Area
 - Subscribe to PIARC newsletter
- Social Media Posts
 - Weekly posts
 - Follow PIARC on LinkedIn and Twitter
- Pre-recorded webinars available on PIARC website and on YouTube
- Presentations and Handouts
- Factsheets





Tanzania Road Safety Ten Steps Project

- Consortium with International Road Federation, International Road Assessment Program, and PIARC
- Carry out Ten Steps program
- Focus on Assessment of current needs, design standards, workforce compentancy, and the development of a National Infrastrucutre Safety Strategy and Action Plan





Partnership with ITF/WB - Implementing the Safe System

- 100 road safety experts from around the world
- 17 road safety case studies were collected, and lessons of relevance to Safe System implementation documented
- A framework was developed to define Safe System components for projects, regions, countries or organisations, and map improvements





27th World Road Congress

October 2 - 6, 2023

Very rich technical content:

- Road Safety
- Committee will present their work with Papers
- Call for papers on 2 topics,
- Workshop on Safety in LMIC
- Will participate in Foresight session

An excellent opportunity to:

- Learn more about PIARC's work
- Discuss new ideas

International call for papers was in May 2022

• Great success for Safety: 85 Abstracts for presentation or poster









Committee 3.1 Issues – Subject to finalization

Recommended items (as presented to ExCom):

- Securing Safety for Vulnerable Road Users
 - Potential for individual focus on different users, such as walking, biking, motorcycles and potential solutions to address each
- Safe System in the LMIC Context
 - Safe System in action, getting started, how to advance, Issues for LMIC?.
- Diagnosing Road Safety Problem and Opportunities
 - Intersection designs to accommodate all road users in different contexts.
 - Safety of grade railroad crossings
- Update of the Road Safety Manual
 - Incorporation of the 2004 RSM version 1 and addressing gaps.
 - Update of the 2004 manual practices and procedures to supplement the RSMgrade railroad crossings





Thank you for your attention!



John Milton

Chair TC 3.1 Road Safety Committee

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