



National Technical University of Athens
Road Safety Observatory

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Road Safety Observatory

Friday
19 May
2023
13:00-17:00

Workshop
in the framework of
7th UN Global Road Safety Week

StreetsforLife
#RethinkMobility

Road Safety Research Challenges

WE DEMAND
SAFE AND SUSTAINABLE
MOBILITY

DECADE OF ACTION FOR
ROAD SAFETY
2021-2030

unroadsafetyweek.org

Global Road Safety Knowledge Exchange

Julia Roussou

Civil Engineer, PhD Candidate

Together with:

Isabela Erdelean, Andrea Schaub, George Yannis

The PIARC Global Road Safety Knowledge Exchange project

➤ 2 Project partners:

- [National Technical University of Athens](#)
[Austrian Institute of Technology](#)
- Technical support: USA, Australia, Canada Québec, South Africa, Sweden

➤ Duration of the project:

- 13 months (Aug2022 – October 2023)

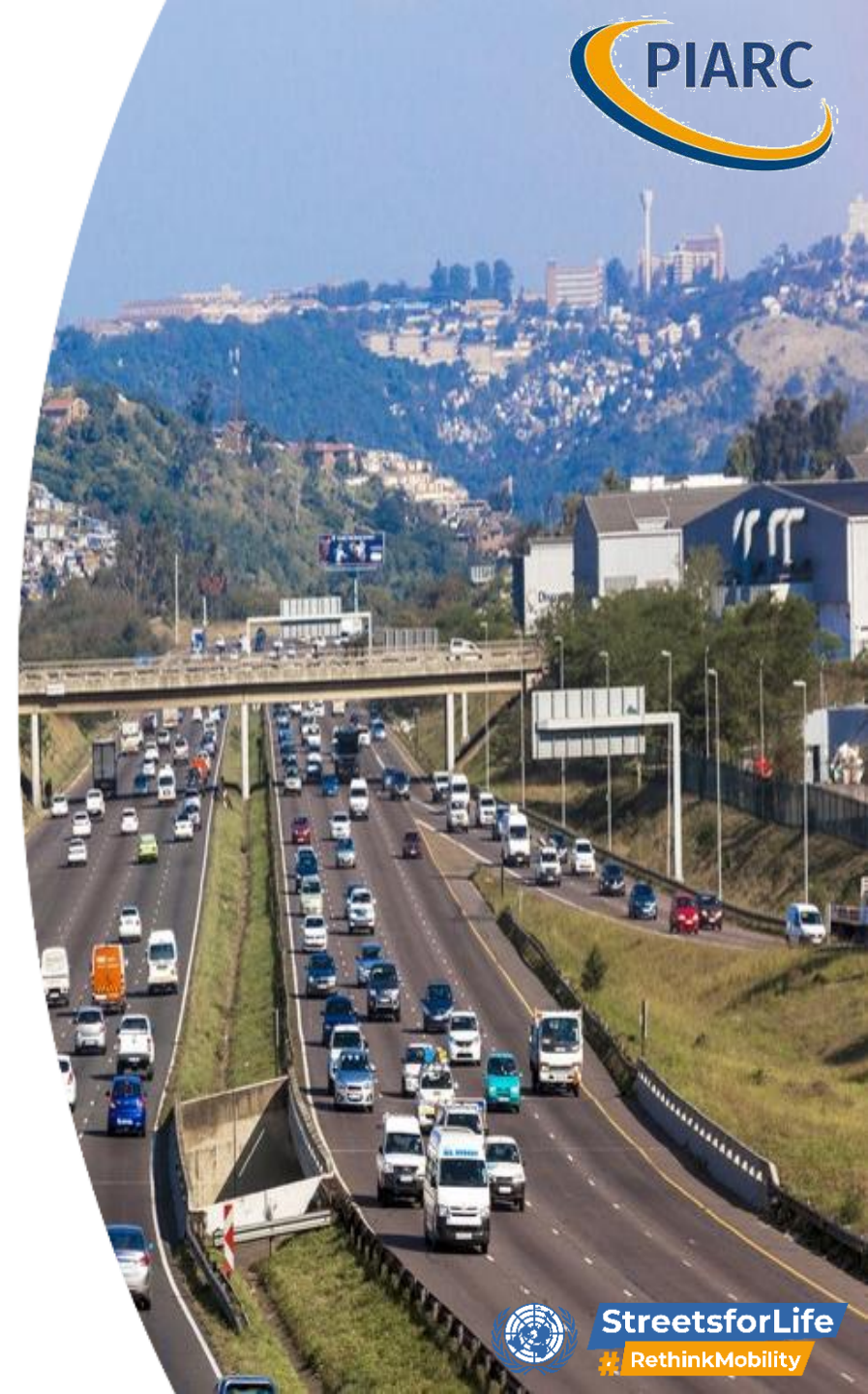
➤ Framework Program:

- [PIARC](#) – World Road Association
- Funding from USA, Australia, Canada Québec NZ



Objectives

- Aiming to **promote knowledge sharing** through appropriate implementation aids that will reflect PIARC road safety work
- Focus on spreading road safety knowledge to **Low-and Middle-Income Countries** (LMIC), where road crash **death rates** are **three times higher** than in High-Income Countries (HIC).
- More than 50 PIARC Technical Reports, Seminar Proceedings, Case Studies have been reviewed, grouped into **8 major Road Safety Areas**: Management, Infrastructure, Tunnels, VRUs, Behavior, Vehicle, Speed and Data.



Safe System Approach



- The development of an effective **road safety strategy** starts from the notion of **Safe System Approach**:
 - to ensure road safety management and leadership and build road safety expertise by developing a strong Lead Agency and a robust set of local guidelines and regulations.
- Quality **data collection** and **analysis** can facilitate the management of the road network and of the overall traffic system. Crash data and Safety Performance Indicators should support evidence based policies, programs and measures at the LMIC.



Road Infrastructure

- **Road infrastructure** is often the single most significant factor that contributes to the severity outcomes of a crash. All roads should be designed to control speeds, be self-explaining, without surprises to the driver and forgiving human errors to minimize crash severity.
- The proactive actions and reactions of those in charge of operating the **road tunnels** is a decisive factor in ensuring the safety of people during an incident. The design of tunnels and their operation should always take account of human factors.



Vulnerable Road Users

- In most LMICs, **vulnerable road users** are the majority. Road design should include a self-explaining and failure-forgiving roads according to the users' needs. To ensure compliance, combined measures of communication, education and enforcement, including special warning signs and campaigns should be employed.
- **Managing speed** is critical to the effective implementation of the Safe System approach. Speed limits must be credible to achieve driver compliance. In urban areas where there is a mix of road users a maximum speed limit of 30km/h should be established. Managing speed through behavioral change or speed compliance regulations could be done by education, enforcement, demerit points and fines to road users.



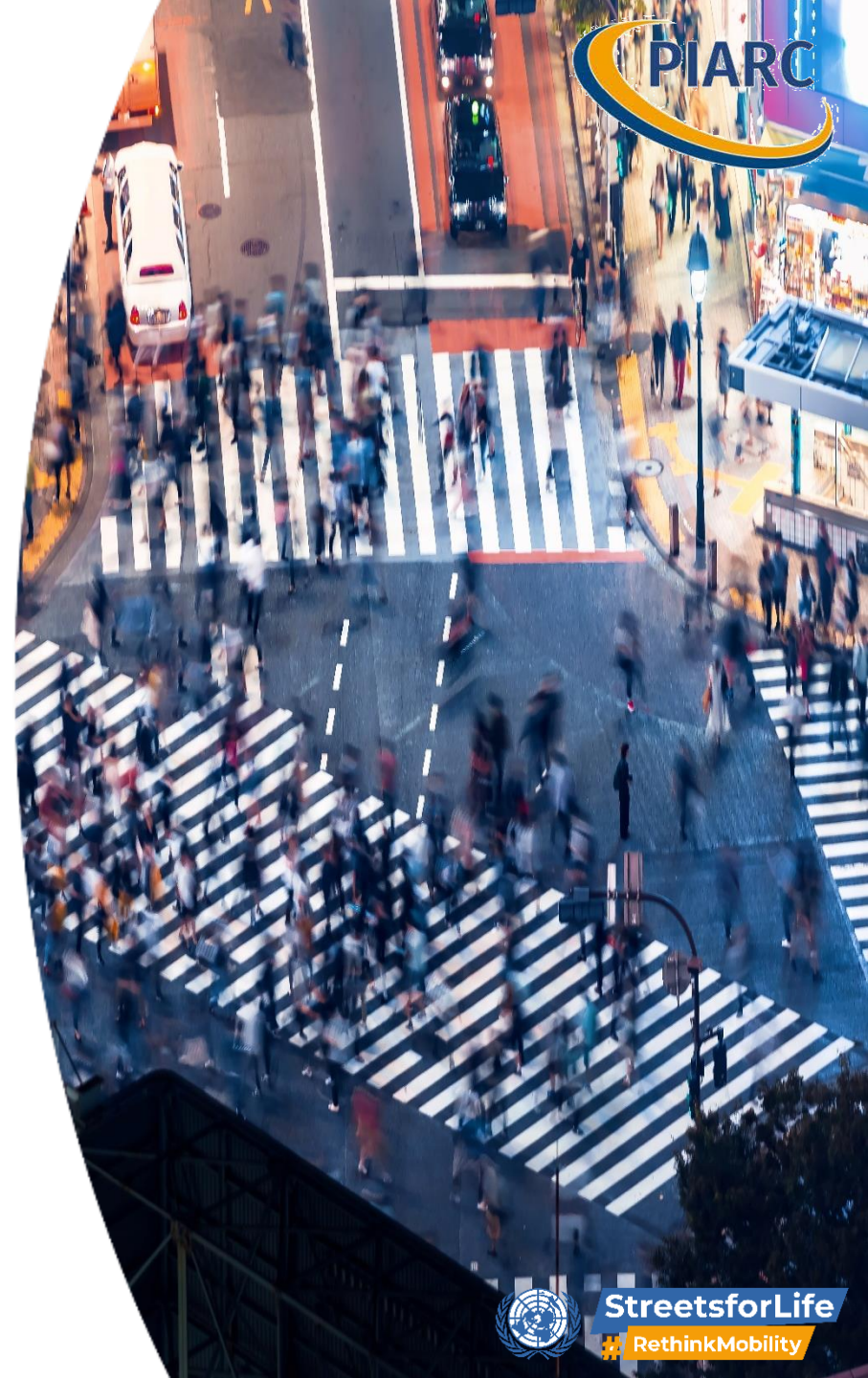
Streets for Life

- PIARC's **Road Safety Manual** is a key dissemination tool. The RSM is designed to help all countries and especially LMICs, at every stage of infrastructure development to fulfill road safety objectives.
- PIARC's **Human Factors Method** (RSE_HF), aims to include into the road design and management procedures the study of human factors and human risk-taking behaviors. This approach supports LMICs that are still at the starting phase of the road safety management process.
- PIARC has produced reports, case studies, and guidelines related to all 8 road safety areas, in order to support all countries achieve the targets set by the United Nations' (UN) **Second Decade of Action for Road Safety** and reduce road traffic deaths and injuries by at least 50% from 2021 to 2030.



Scientific and Social Impact

- This new and ambitious initiative aims to **disseminate** even more actively knowledge on road safety across the world, focusing on Low and Middle-Income Countries (LMICs).
- The project provides **monthly updates** on PIARC's road safety work on PIARC's website and social media channels.
- All road safety authorities and stakeholders will be able to **interact** with PIARC road safety experts, **engage** and **learn** more about PIARC reports and PIARC knowledge products.



Future Challenges

- The Global Road Safety Knowledge Exchange project has produced up-to-date recommendations on the 8 road safety areas, and aims to disseminate all material to LMICs road authorities through various **in-person and online actions and events**.
- Support LMICs road safety authorities with a **continuous consulting** in every step of the road safety procedures, from road design to road management.
- Organise thematic road safety **workshops and webinars** addressed to LMICs road authorities and stakeholders focused on the step-by-step implementation of PIARC produced tools and materials.





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