

UNIVERSITY^{OF} BIRMINGHAM

UNECE - Global Forum for Road Traffic Safety (WP.1) 87t Session, Tuesday 26 September 2023 Palais des Nations, Geneva

Effective infrastructure measures to improve pedestrian safety at unsignalized crossings



Background



Key facts

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Preventing injuries and violence: an overview

- Road traffic injuries are the leading cause of youth deaths
- Unsignalized crossings have high pedestrian accident rates
- Little research on the effectiveness of infrastructure measures for unsignalized crossings

 Unsignalized crossing are more required in Low-Middle Income Countries(LMICS)



Problem and Needs

- Effectiveness of infrastructure measures at unsignalized crossings affecting pedestrian safety difficult to quantify
- A systematic review of infrastructure measures for unsignalized crossings

 Propose a methodology to quantify the effectiveness of unsignalized crossings infrastructure measures in affecting pedestrian safety in Low-Middle Income Countries(LMICS)



Danish offset



Innovation and Challenges



- Systematic review identified infrastructure measures that effectively impact pedestrian safety at unsignalized crossings
- Examination of factors that specifically influence the effectiveness of pedestrian safety in Low-Middle Income Countries(LMICS)
- Identify unsignalized crossings for the right number of pedestrians, available crash data, and appropriate characteristics

Effective measures



29. In-Street Pedestrian-Crossing Signs

Outputs

- Appreciate measures to improve pedestrian safety at unsignalized crossings
- Collection of evidence that demonstrates the effectiveness of unsignalized crossing infrastructure measures
- Devise methods to quantify the effectiveness of unsignalized crossing infrastructure measures for Low-Middle Income Countries(LMICS)
- Propose ways to improve unsignalized crossings infrastructure measures based on quantitative results





Impact

- Expanding Research on Improving Pedestrian Safety at Unsignalized Crossings
- Improvement of pedestrian safety by quantifying the effectiveness of infrastructure measures at unsignalized crossings
- New tool for the choice the future design of unsignalized crossings
- Protect the valuable road users(pedestrians) who suffer most in developing countries





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THANK YOU

Effective infrastructure measures to improve pedestrian safety at unsignalized crossings

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