

Additional File 1

Overview of case studies

Case Study	Noise Legislation	Cycle Infrastructure	Mobility Hubs	Play Spaces Policy
Overall goal of the intervention	Reduction of environmental noise exposure	Improvement of bicycle infrastructure and increase in cycling behaviour	Improving use of shared mobility and supporting transport accessibility, reducing transport poverty	Provision of adequate and safe play areas for all children
Location	Slovenia with a particular focus on the city of Ljubljana	Skopje, North Macedonia	Utrecht, the Netherlands	Utrecht, the Netherlands
Intervention	Implementation of Environmental Noise Directive 2002/49/EC and preparation of Noise Action Plans in Slovenia, and in Ljubljana in particular	Bicycle traffic improvement plan for the city of Skopje	Pilot study - shared mobility hub in Kanaleneiland neighbourhood	Play neighbourhood scans - assessment and improvement of play areas in different neighbourhoods in Utrecht
Aspect of urban environment	Physical environment	Built environment, transport infrastructure	Transport infrastructure, social infrastructure	Built environment, social infrastructure
Publication	Jeram et al. (2023)	-	Tönnies et al. (2025)	This paper

Jeram S, Frigelj N, Kralj M, Ristovska G, Boljka U, Škafar M, et al. Implementation of the Environmental Noise Directive 2002/49/EC in Slovenia seen through an equity lens. 14th ICBEN Congress on Noise as a Public Health Problem. 2023.

<https://www.icben.org/2023/presenting193.pdf>. Accessed 3 Aug 2025

Tönnies J, Ahrens J, Hasselder P, van Houten P, van Eerten JJ, White M, et al. Tackling transport poverty with offers for shared mobility – a qualitative analysis on mobility needs and barriers in the context of a new mobility hub in a deprived neighbourhood. Cities & Health 2025.

<https://doi.org/10.1080/23748834.2025.2539608>