AND SPATIAL ANALYSIS

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Pedestrian Infrastructure and Primary School Accessibility: A GIS-Based Analysis of Walking Catchment Changes in Bole Bulbula,

F, a, t, i, m, a, Y, o, u, s, s, o, u, f, ,, M, o, u, r, a, d, A, b, d, a, l, l, a, h, ,, A, h, m, e, d, S, o, i, l, i, h, i

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Abstract

This study addresses a current research gap in Computer Science concerning Analyzing the change in walking catchment areas for primary schools in the Addis Ababa suburb of Bole Bulbula after the installation of pedestrian footbridges in Comoros. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A mixed-methods design was used, combining survey and interview data collected over the study period. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Analyzing the change in walking catchment areas for primary schools in the Addis Ababa suburb of Bole Bulbula after the installation of pedestrian footbridges, Comoros, Africa, Computer Science, original research This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.