



Virtual Reality Training Programmes in Nairobi's Slums: Adoption and Simulation Performance Assessment

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Abstract

Virtual reality (VR) training programmes have gained traction in various sectors as a cost-effective and immersive learning tool. In Nairobi's slums, where access to formal education is limited, VR has been piloted for disaster response operations. A mixed-methods approach combining surveys with observational studies was employed to gather data on user experience, satisfaction levels, and performance outcomes. Focus groups were also conducted to understand contextual barriers and facilitators. The survey revealed a significant adoption rate of VR programmes among community members (85% reported using the programme), with young adults aged 18-30 showing higher engagement compared to older age groups (69% vs. 7%). VR training programmes showed promising performance metrics in disaster response simulations, particularly in areas requiring quick decision-making and situational awareness. To enhance adoption rates and improve simulation outcomes, it is recommended that VR content be tailored to local contexts and that ongoing support mechanisms are established for users.

Keywords: *Sub-Saharan, Nairobi, Virtual Reality, Simulation-Based Learning, User Adoption Analysis, Educational Technology Evaluation, Gamification*

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