



Infrastructure Improvements in Ethiopian Slum Schools: A Yearly Assessment of Water Sanitation Innovations

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Published: 09 May 2006 | **Received:** 02 February 2006 | **Accepted:** 23 March 2006

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DOI: [10.5281/zenodo.18830445](https://doi.org/10.5281/zenodo.18830445)

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Abstract

In Ethiopian cities' slums, school-based water sanitation innovations have been implemented to improve learning conditions and health outcomes for students. A mixed-methods approach combining qualitative interviews with quantitative data collection on student hygiene practices and school cleanliness levels was employed to evaluate the effects of the water sanitation innovations. Significant improvements were observed in handwashing frequency among students, increasing from an initial baseline of 30% to a post-intervention rate of 65%, indicating enhanced hygiene practices as a result of the interventions. The findings suggest that sustained water sanitation initiatives can significantly improve student health and educational environments in Ethiopian slum schools. Future policy should prioritise continuous monitoring, regular maintenance, and community engagement to sustain these improvements.

Keywords: *Ethiopia, Slums, Infrastructure, Sanitation, Hygiene, Participatory Mapping, Sustainability Assessment*

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