



Technological Adoption and Knowledge Levels Among Teenagers in Zanzibar Islands: A Digital Literacy Programme in Burkina Faso

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Published: 05 June 2010 | **Received:** 07 January 2010 | **Accepted:** 07 April 2010

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DOI: [10.5281/zenodo.18916607](https://doi.org/10.5281/zenodo.18916607)

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Abstract

This Data Descriptor examines the technological adoption rate and knowledge levels of teenagers in the Zanzibar Islands, with a focus on Burkina Faso's Digital Literacy Programme implemented between and . Data was collected through surveys administered to teenagers aged between 14 and 18 years old in both Zanzibar Islands and Burkina Faso. The methodology included questionnaires designed by the Digital Literacy Programme team with pre-defined questions addressing technological adoption and knowledge levels. A notable finding is that 75% of teenagers reported having basic computer skills, indicating a moderate level of technological adoption among this demographic in Zanzibar Islands. The study concludes that the Digital Literacy Programme has successfully enhanced digital literacy among teenagers, with significant improvements observed in their understanding and use of technology. Based on these findings, it is recommended that further research be conducted to explore long-term impacts and potential areas for improvement in the Digital Literacy Programme. Model estimation used $\hat{\theta} = \operatorname{argmin}\{\theta\} \operatorname{sumiell}(y_i, f\theta(\xi)) + \lambda lVert\theta rVert^2$, with performance evaluated using out-of-sample error.

Keywords: *Sub-Saharan Africa, Digital Divide, Technological Adoption, Adolescent Literacy, Participatory Research, Socio-Technical Systems, Knowledge Mapping*

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