



Community-Based Natural Resource Management in Botswana: Successes and Challenges

Chirwa Makwala¹, Motsete Motshabi^{1,2}, Mogapeng Mogomotsi^{3,4}, Modiga Mokgobu⁴

¹ Botswana International University of Science & Technology (BIUST)

² Botswana University of Agriculture and Natural Resources (BUAN)

³ Department of Research, Botswana International University of Science & Technology (BIUST)

⁴ Department of Interdisciplinary Studies, Botswana International University of Science & Technology (BIUST)

Published: 05 June 2005 | **Received:** 21 February 2005 | **Accepted:** 18 April 2005

Correspondence: cmakwala@yahoo.com

DOI: [10.5281/zenodo.18812521](https://doi.org/10.5281/zenodo.18812521)

Author notes

Chirwa Makwala is affiliated with Botswana International University of Science & Technology (BIUST) and focuses on Environmental Science research in Africa.

Motsete Motshabi is affiliated with Botswana University of Agriculture and Natural Resources (BUAN) and focuses on Environmental Science research in Africa.

Mogapeng Mogomotsi is affiliated with Department of Research, Botswana International University of Science & Technology (BIUST) and focuses on Environmental Science research in Africa.

Modiga Mokgobu is affiliated with Department of Interdisciplinary Studies, Botswana International University of Science & Technology (BIUST) and focuses on Environmental Science research in Africa.

Abstract

This study addresses a current research gap in Environmental Science concerning Community-Based Natural Resource Management (CBNRM) Successes and Challenges in Botswana in Botswana. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured review of relevant literature was conducted, with thematic synthesis of key findings. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Community-Based Natural Resource Management (CBNRM) Successes and Challenges in Botswana, Botswana, Africa, Environmental Science, review article This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African savannas, pastoralism, conservation economics, participatory monitoring, tenure reform*

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