



# TEK in Conservation: A Theoretical Framework for São Tomé and Príncipe's Context

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## Abstract

This study addresses a current research gap in Environmental Science concerning The Role of Traditional Ecological Knowledge (TEK) in Conservation Practices in São Tomé and Príncipe. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. 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. The Role of Traditional Ecological Knowledge (TEK) in Conservation Practices, São Tomé and Príncipe, Africa, Environmental Science, theoretical This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The empirical specification follows  $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *São Tomé, Príncipe, Geographical Indicators, Indigenous Knowledge Systems, Conservation Biology, Methodological Frameworks, Ecological Mapping Techniques*

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