



# Water Scarcity Mitigation Framework in the Nile Basin of Ethiopia: A Theoretical Approach

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## Abstract

The Nile Basin in Ethiopia is facing significant water scarcity challenges, exacerbated by climate change and population growth, leading to potential conflicts over resources. This article employs qualitative analysis and scenario modelling to explore potential solutions under varying conditions of climate and socio-economic factors. The theoretical framework identifies critical areas for intervention, including infrastructure development, policy alignment, and community engagement, which are essential for effective water resource management in the Nile Basin of Ethiopia. Implementing a multi-stakeholder approach within the proposed framework is recommended to address the complex challenges posed by water scarcity in the region.

**Keywords:** *Ethiopia, Nile Basin, Scarcity, Conflict, Sustainability, Transboundary, Governance*

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