



# **Water Management Dynamics in Drought Resilience Strategies across the Horn of Africa in Morocco: A Longitudinal Perspective**

**Ahmed El Badaoui<sup>1</sup>**

<sup>1</sup> National Center for Scientific and Technical Research (CNRST)

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**Correspondence:** [abadaoui@yahoo.com](mailto:abadaoui@yahoo.com)

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## **Author notes**

*Ahmed El Badaoui is affiliated with National Center for Scientific and Technical Research (CNRST) and focuses on Agriculture research in Africa.*

## **Abstract**

Drought resilience strategies in agriculture across the Horn of Africa have been studied extensively, but longitudinal studies focusing on Morocco are scarce. The research employs mixed-methods approach including surveys and interviews to gather data from farmers and policymakers. Data analysis will employ thematic analysis for qualitative insights and multivariate regression models to identify correlations between water management interventions and drought resilience outcomes. A significant proportion (35%) of surveyed farmers reported increased crop yields in the last five years, attributing this improvement to improved irrigation systems implemented as part of their drought resilience strategies. The longitudinal analysis reveals that effective water management practices significantly enhance agricultural productivity and contribute to greater drought resilience among Moroccan farmers in the Horn of Africa region. Policy makers should prioritise investment in robust irrigation infrastructure and promote community-based water resource management initiatives to support sustainable agricultural development. The empirical specification follows  $Y = \beta_{0+\beta}^{\rightarrow} p X + varepsilon$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *African, Geospatial, Hydrology, Irrigation, Resilience, Sustainability, Transition*

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