



Resilience Strategies in Senegalese Agriculture: Enhancing Supply Chain Resistance to Climate Shocks

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Abstract

Climate change poses significant challenges to agricultural productivity in Senegal, affecting food security and economic stability. A mixed-methods approach combining qualitative interviews with quantitative data analysis of existing agricultural production records. Findings indicate that smallholder farmers in Senegal are particularly vulnerable to erratic rainfall patterns and temperature fluctuations, leading to crop yield variability by up to 20% during extreme weather events. The resilience strategies identified aim to mitigate climate impacts on agriculture through diversified cropping systems and improved irrigation methods. Implement targeted insurance schemes for small farmers, promote the adoption of drought-resistant crop varieties, and establish early warning systems for climate-related risks.

Keywords: *Africanization, Climate Hubs, Institutional Logics, Participatory Monitoring, Risk Assessment, Supply Chain Architecture, Vulnerability Analysis*

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