

# Effects of Climate Change Through Agricultural Yield Changes and Resulting Effects on Agricultural Markets and Undernutrition in Kenya

## Project Team



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The Kenyan economy is highly dependent on **climate-sensitive sectors**, especially agriculture, whose vulnerability is increased by climate change that triggers major **health, environmental and economic disruptions**.

**Extreme** weather variability is predicted to alter **cropping patterns** and **reduce crop yield** (Kogo et al., 2020; Ochieng et al., 2016). Between 1997 and 2016, Kenya experienced an average GDP loss of 0.4% per year due to extreme climate events (MEF, 2018). Moreover, dry weather conditions in 2017 led to declining production of most agricultural commodities, with real gross value added in the sector growing at a decelerated rate of 1.6% (GoK, 2018).

Declining agricultural yields aggravate **food insecurity and poverty** through changes in the **supply** of agricultural commodities and resulting food **price increases**.

This project aims at developing a **CGE model and database (SAM)** to **analyze the economy-wide effects** of changes in agricultural productivity and cropping patterns caused by **climate change** and identify implications for policies to enhance the adaptive capacity of vulnerable households.

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More information  
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