# How do alternative livelihood activities impact poverty reduction in forest-based households? Evidence from Omo Biosphere Reserve, Nigeria

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## Introduction

□ In recent times, the effect of socio environmental threats on biodiversity has emerged as a central issue in ecological and environmental sciences.

# Study area $\int_{R_{0}^{0}} \frac{4207244}{R_{0}^{0}} \frac{4377032}{R_{0}^{0}} \frac{4546820}{R_{0}^{0}} \frac{471600}{R_{0}^{0}} \int_{R_{0}} \frac{1}{R_{0}^{0}} \frac$

Methodology



Fig1: Anthropogenic activity in Omo Biosphere Reserve

□ Efforts are being made by policymakers, donors, and experts to link sustainable development with biodiversity conservation through promoting alternative livelihood strategies.



Fig2: Study area showing selected samples

- Includes a 460 ha Strict
  Nature Reserve plus about 6
  500 ha of enclaves
- A total of about 20,000 inhabitants majorly farmers, forest resource traders and artisans.
- Biosphere Reserve
  - Core,
  - Buffer
  - Transition Zones



□ In 2014, UNESCO/ Korean International Cooperation Agency (KOICA) funded the project "Green Economy in Biosphere Reserves (GEBR): A Means To Poverty Reduction, Biodiversity Conservation and Sustainable Development in Sub-Saharan Africa"



Fig3: Sampling procedure and technique

#### Data analysis

- □ Foster, Greer and Thorbecke (FGT) poverty model
- □ Propensity Score Matching Model (PSM)
- □ Endogenous Switching Regression Model (ESR)

## **Expected Result**

The poverty status (severity and extent) as well as the impact of

□ To explore the effect of alternative livelihood income activities

on the poverty status and welfare of rural communities in Omo

Biosphere Reserve in Nigeria.

GEBR project on the livelihood of the benefiting household would be established.

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