

Introduction

Research Question:

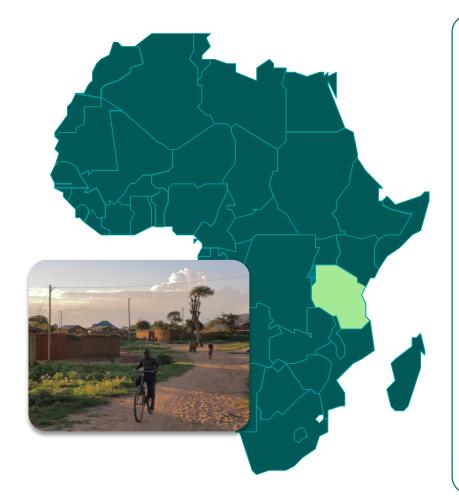
- 1. What are the determinants of rural electricity consumption?
- How can rural electricity consumers be segmented, and served respectively?

Hypothesis:

- There exists large disparity among rural electricity consumers and they need to be further segmented.
- 2. 16 factors are studied as electricity consumption predictors.

Methodology:

- t-test, ANOVA, and regression are used to test the significance level of each factor.
- Field interviews were conducted individually and in groups



Hypothesized Determinants of Electricity Consumption

Income predictor

- ••• Occupation
- **Education**
- Gender

Asset ownership

- Acreage of land
- Livestock ownership
- Car ownership
- Motorbike ownership
- House type

Expenditure

- Mobile phone expenditure
- Transportation expenditure
- Food expenditure
- School fee expenditure

Demand

- Number of household members
- Number of rooms
- Use of other solar energy
- Connection purpose



Market Segmentation of Rural Electricity Consumers for Mini-Grid Business

