

Conference on International Research on Food Security, Natural Resource Management and Rural Development organized by the University of Natural Resources and Life Sciences, Vienna (BOKU), Austria

## Introduction

✓ Food loss and waste (FLW) in Ghana contribute significantly to food insecurity and environmental challenges  $\checkmark$  Research shows that up to 25% of all food crops are lost after harvesting in Ghana (Darfour & Rosentrater, 2016)



To explore the impact of food loss and waste on food security, the livelihood of farmers, and environmental sustainability in Ghana.

# Materials and Methods

✓ Secondary Data ✓ Systematic Review P - preferred **R-**Reporting I- Items for **S-** Systematic Review M-Meta A-Analysis (Caulley et al., 2020),

- ✓ It affects:
- Food security
- Sustainable livelihood
- Environmental sustainability

# Conclusion and outlook

- ✓ FLW reduction increases income.
- ✓ FLW ensures sustainable Livelihood.
- ✓ FLW ensures environmental sustainability.
- ✓ Stakeholders should invest in

TITLE: Preserving **Resources, Securing** Livelihoods: **Reducing Food Loss** and Waste for Sustainable Development in Ghana

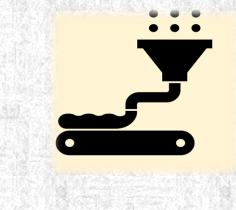
## Results and Discussion



Inefficient harvesting methods



Poor Consumer Behavior



Inadequate processing techniques

Poor Storage facilities

AGRICULTURAL & MECHANICAL COLLEGE



## technologies that promote Packaging

## Storage

Reduction of Food Loss and Waste

## FOOD RECOVERY HIERARCHY

SOURCE REDUCTION FEED HUNGRY PEOPLE SOURCE FEED HUNGRY PEOPLE REDUCTION Cooking using fresh Donating to food banks ingredients in FEED ANIMALS small batches Trayless dining and FEED ANIMALS taking only what Using food scraps INDUSTRIAL USES you're going to eat as animal feed COMPOSTING

## Poor post-harvest handling

### Causes of FLW

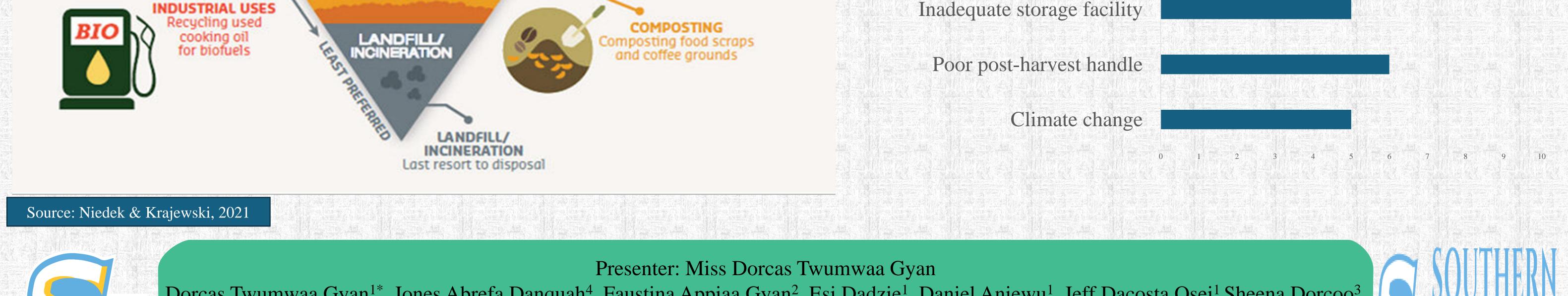
**Poor Transportation Issues** 

Market imbalance

#### **Production Issues**

Poor consumer behavior

Inadequate technological tools



Dorcas Twumwaa Gyan<sup>1\*</sup>, Jones Abrefa Danquah<sup>4</sup>, Faustina Appiaa Gyan<sup>2</sup>, Esi Dadzie<sup>1</sup>, Daniel Aniewu<sup>1</sup>, Jeff Dacosta Osei<sup>1</sup> Sheena Dorcoo<sup>3</sup>, <sup>1</sup>Southern University and A&M College, Department of Urban Forestry, Environment and Natural Resources, Baton Rouge, LA 70813, USA <sup>2</sup>Department of Business and Social Science Education, University of Cape Coast, Ghana. <sup>3</sup> Center for Climate Change and Sustainability Studies, University of Ghana, Legon-Ghana. <sup>4</sup> Department of Geography and Regional Planning, University of Cape Coast, Ghana.