

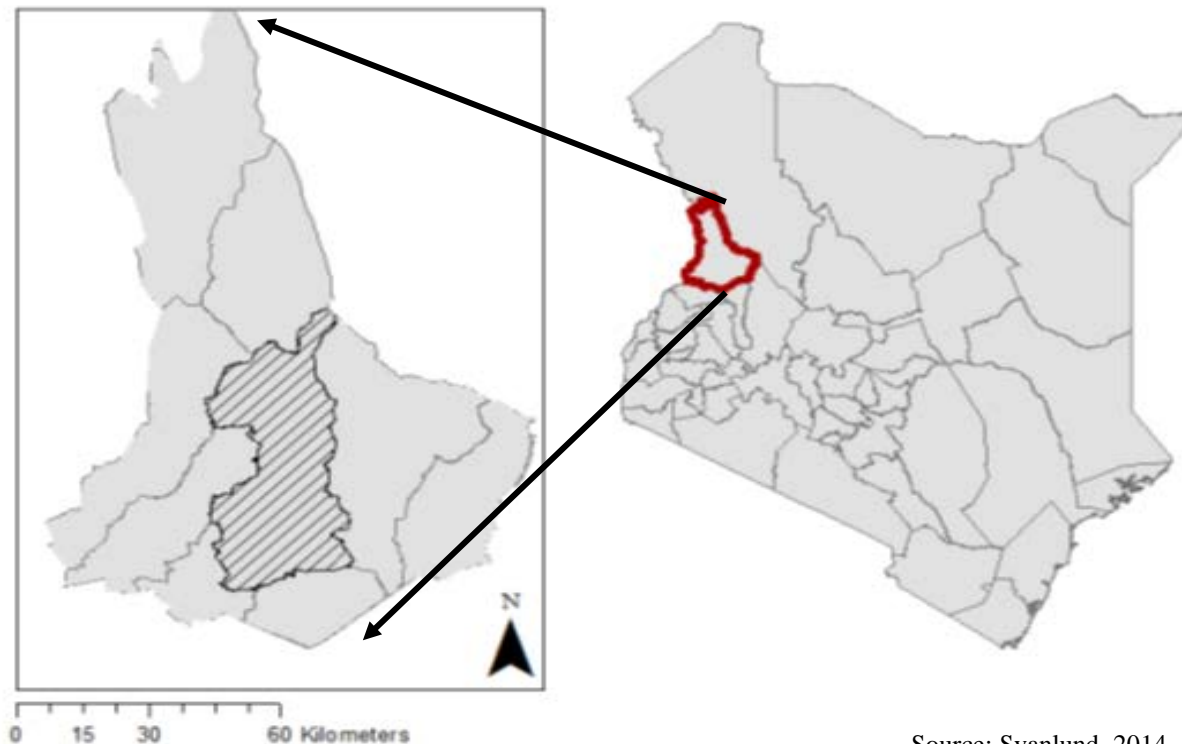
# Assessing the impact of restorative land transformations on household nutrition: A qualitative study of Chepareria, West Pokot, Kenya

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# INTRODUCTION

Chepareria 1987 Degraded land → Vi starts work: Enclosures + Agroforestry  
(inhabitants: nomadics) (Restorative land transformations-NSA)



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## **Main objective**

To assess the impact of restorative land transformations on household nutrition using a qualitative approach in Chepareria, West Pokot County, Kenya.

## **Specific objectives**

- i) To assess the impact of land restorative transformations, specifically enclosures and agroforestry on household nutrition in Chepareria.
- ii) To consequently develop a list of items that should be quantified in a quantitative survey in assessing impacts of land transformations on household nutrition, so as to capture in a better way, the effect of NSA interventions on household nutrition in Chepareria.
- iii) To demonstrate whether when the 2 restorative transformations are combined (enclosures and agroforestry), if it's possible to show impacts of each, or whether when both have been done in the same area, then the benefits are entangled.

## JUSTIFICATION

- Kenya (Chepareria)- Agric backbone+ majority farmers: Agric justified
- Enclosures + Agroforestry = participatory + NSA; NSA impacts still a gap
- Prior research not addressed nutritional contributions well

# METHODOLOGY

Purp  
Sam

mes

Triar

- H
- D



## RESULTS & DISCUSSION: HOUSEHOLD SURVEY

<b>Education level</b>	Most none
<b>HH size</b>	Most 4-10
<b>Employed</b>	5%
<b>Farm size(acres)</b>	Most 1-10
<b>FHFC</b>	Most 1/week
<b>FHVC</b>	Most daily
<b>Livelihood source</b>	87.5% farmers
<b>Food secure months</b>	Mostly 7-9
<b>Common crops</b>	Maize, beans; millet , sorghum
<b>Fruits</b>	Bananas, mangoes, pawpaws, avocados
<b>Vegetables</b>	Kales, A. nightshade, cowpeas, B. aegyptiaca
<b>Effects of increased water access</b>	Hygiene, fruits, riparian agric



## RESULTS & DISCUSSION: FGD THEMES

Themes observed	Themes not observed but came out as important
Poverty	Nutritional education
Importance of agroforestry	
Extension education	
Food security	
Women welfare	
Sustainability: supplemental income, tree planting, soil conservation, climate change, fuelwood consumption	
Benefits from the NSA interventions: Yield	

## RECOMMENDATIONS

- Reafforestation
- Energy efficient cooking systems
- Participatory discussion of prior+ present research
- Provision of extension education
- Improved infrastructure
- Ex ante analysis + proper targeting
- Value addition; Balanite aegyptiaca
- Livestock centered agroforestry
- Future: possibility of an RCT + potential negative externalities



# STRENGTHS AND WEAKNESSES OF THE STUDY

## Strengths

- Insider view- vital for successful interventions
- Interesting views: lower interval between children + goat bites lead to bitter cassava

## Weaknesses

- Problematic speech and problematic silence
- Not generalizable
- Time consuming + complex

# CONCLUSION

## Specific objective 1

Impact of household nutrition;

- reduction in poverty
- improving food security
- provision of agricultural extension education and services
- improvement in women welfare
- increased production (grass, crop yield, and healthier animals)
- increased growth and utilisation of *Balanite aegyptiaca*
- improved soil fertility
- Improved water access.

**Nutrition education important avenue but it is not being achieved.**

## CONCLUSION

### Specific objective 2

- Quantification of themes observed (individually or in 1 research)
- Pathways suggested by Ruel et al. (2013) as a guideline
- Quantification of indicators: FIES, FCS + DDS (Diet Diversity Score).

**Well done baseline reports, promote accurate quantification.**

**The items identified were not conclusive so more research needed to get a conclusive list.**

### Specific objective 3

- Impacts of these 2 NSA interventions have occurred simultaneously, thus cannot be separated.



# THANK YOU