DEPARTMENT OF AGRICULTURAL ECONOMICS: INSPIRA RESEARCH GROUP

Lucy Apiyo Adundo[1,2], Ramona Teuber[2], Tosin Akingbemisilu[3], Joost Dessein[1]

[1]Ghent University Belgium, Department of Agricultural Economics; [2]Justus-Liebig University Germany, Institute of Agric. Policy and Market Research; [3]The Alliance of Bioversity International and CIAT Kenya, Food Environment and Consumer Behaviour (FECB)

A PHOTOVOICE STUDY ON THE INFLUENCE OF THE BUILT FOOD ENVIRONMENT ON INDIVIDUALS' FOOD CHOICES

Introduction

The **food environment** (FE) is the interface within the wider food system where consumers interact for food acquisition and consumption. This study addresses how consumers connect their **food choices** to their food environment.
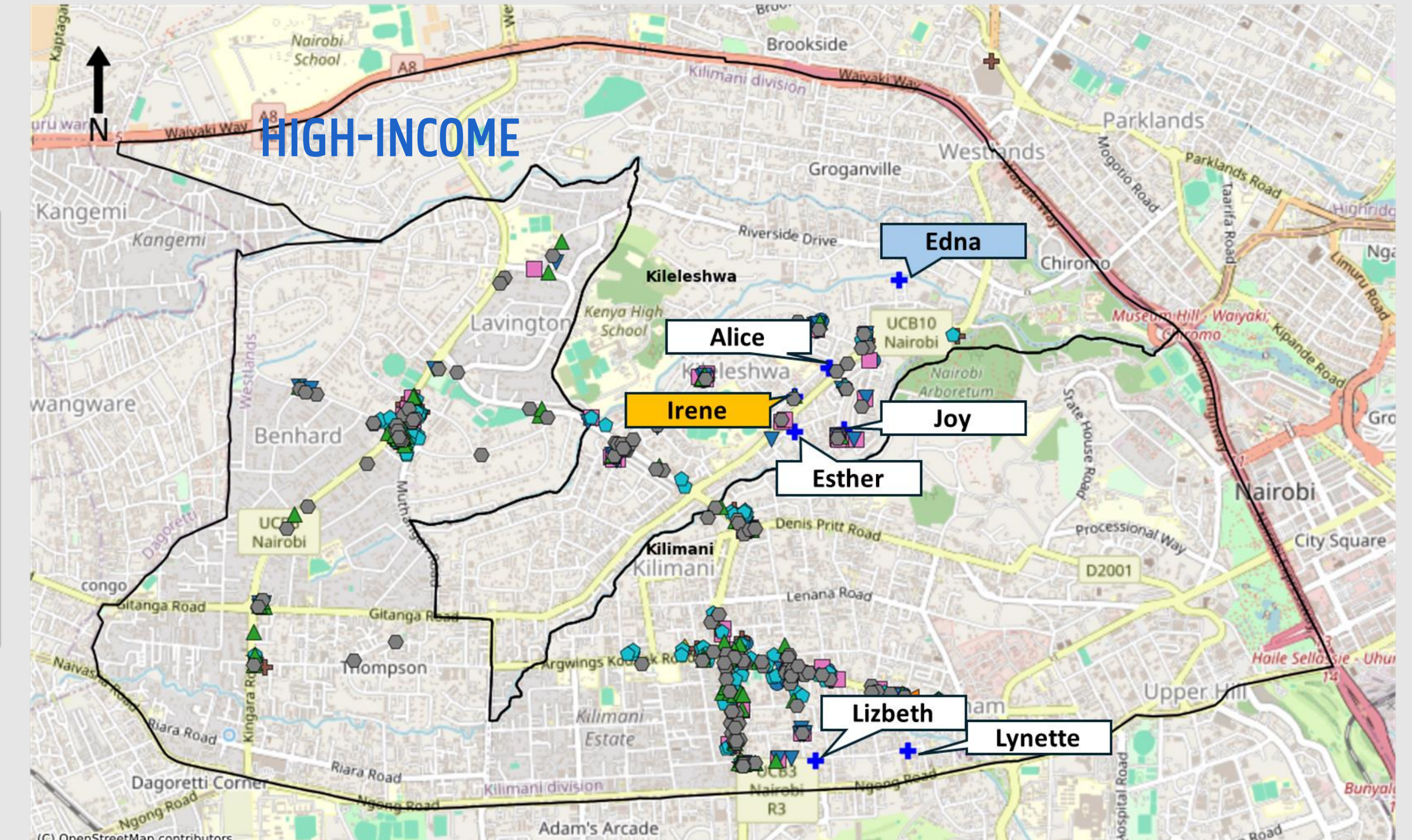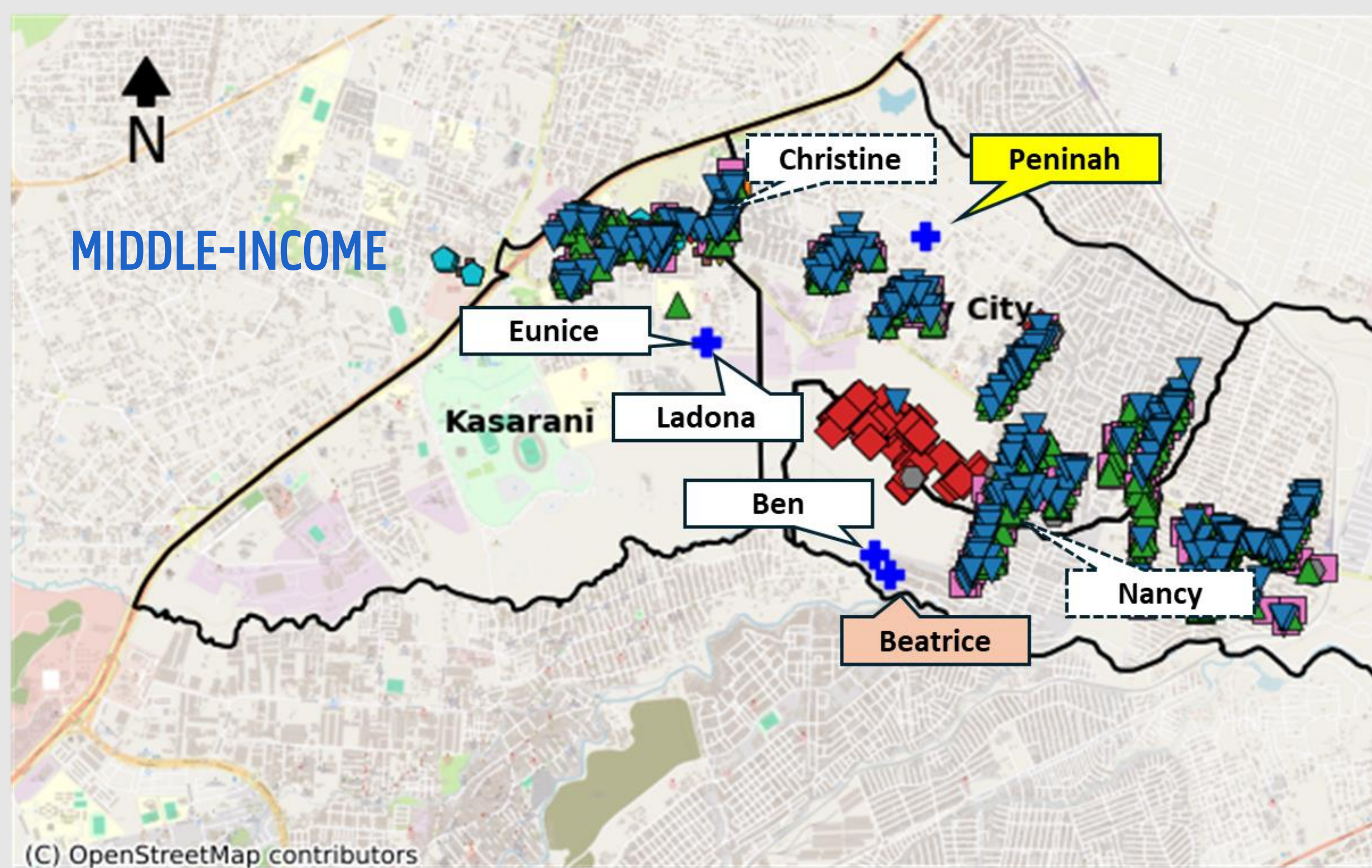
External FE – distribution, density and dispersion.

Spatial proximity - geospatial analysis to understand the spatial distribution, clustering, and dispersion of vendors and households.
Qualitative analysis – blending techniques of **Photovoice** and textual-visual thematic analysis of food pictures and interviews.
Personal FE – accessibility, affordability, desirability of food.

Methodology

- **Structured & semi-structured questionnaires** were deployed
- **Sample size** – 3,458 vendor outlets and 24 consumers
- **Study area** – Nairobi: Westlands (high-income – 508 vendors)
  Kasarani (middle-income – 1,757 vendors)
  Viwandani (low-income – 1,193 vendors)

Vendor Type
- Butcher
- Cereal shop
- Cooked food street vendor
- Direct sale from the farm
- Home vendor
- Hypermarket/supermarkets
- Kiosk
- Mobile Vendor
- Mom-and-pop shops
- Mordern restaurant
- Stalls/Tabletop
- Wholesalers
- Respondent

MIDDLE-INCOME — Kasarani (Christine, Peninah, Eunice, Ladona, Ben, Beatrice, Nancy)

HIGH-INCOME (Edna, Alice, Irene, Joy, Esther, Lizbeth, Lynette)

(C) OpenStreetMap contributors

PREPARATION

… growing up as a Kikuyu, … in a Kikuyu household mostly Githeri, Mukimo.
… this is like beans and like maize … First of all, you **boil** them … there are people who like **frying** the githeri with, like, tomatoes, oil and onions…
(**Virginia – low-income**)

FAVOURITE FOOD

Um, because it … represents what I like…**veggies** … Um, so whenever, like, I go shopping, I fill my trolley with **lettuce** and **French beans**…
(**Edna – high-income**)

Consumption of animal-based products and "Sugar-sweetened beverages" - **high-income**

High consumption of "Legumes and pulses" among **low-** and **middle-income**

Low consumption of eggs, vitamin A-rich fruits and vegetables across **all income regions**

Consumption of "Grains, roots and tubers", "Meat, poultry and fish" and "Other vegetables" across **all income regions**

For people… like 35, 40 and above…. A bit of **nutrition information** … if they are consuming a lot of **processed food** that might actually lead to **obesity**… Also, the portions you are consuming that might lead to obesity. So processed food and there is the word junk food, a lot of oil… Not being **active** might contribute to **obesity**.
(**Peninah - middle-income**)

LOW-INCOME — Viwandani (Virginia, Victor, Francis, Benson, Gloria, Esther)

(C) OpenStreetMap contributors
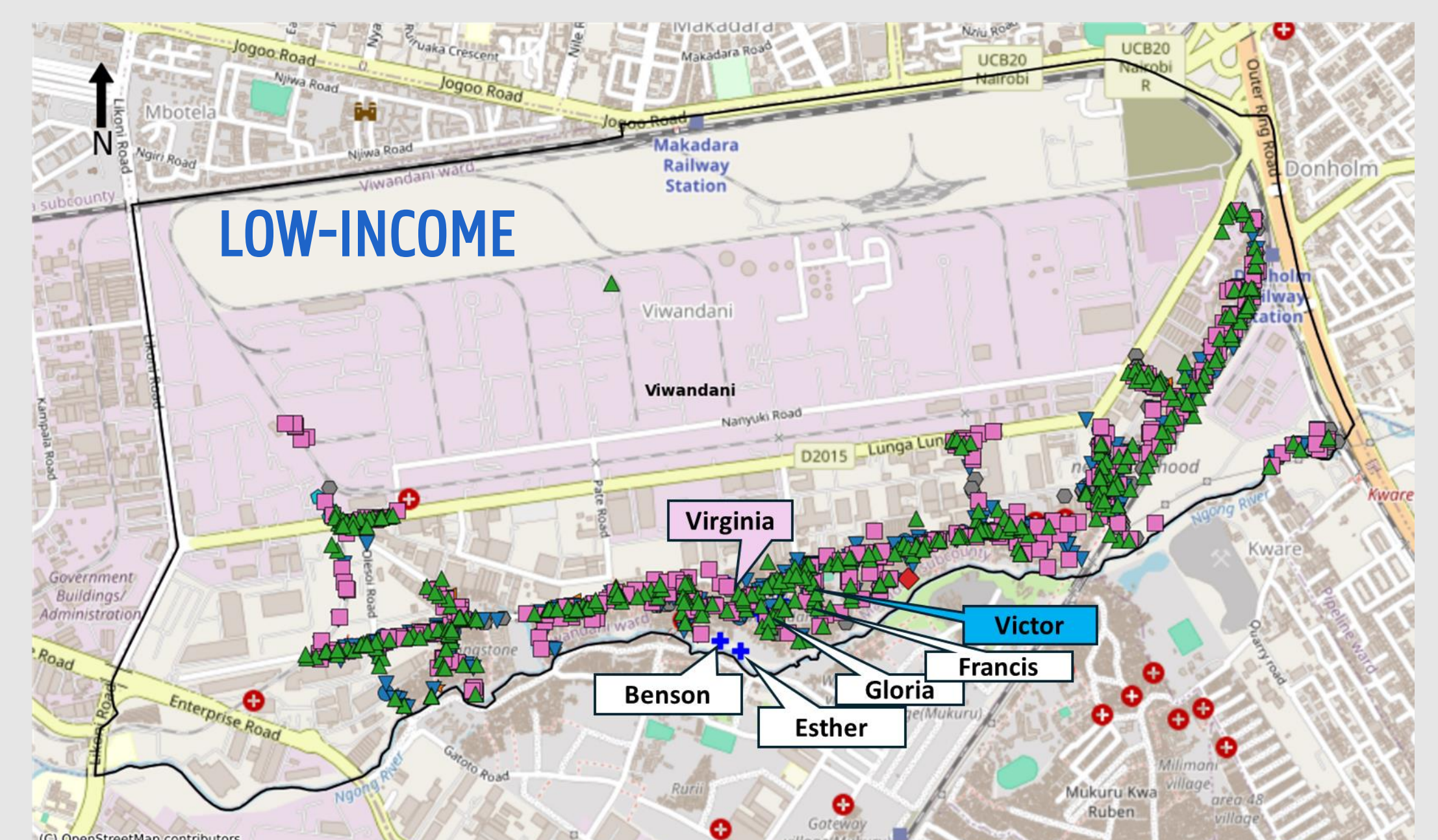
Conclusion

- Cooked street food vendors – **closest food vendors** to most households in the three income regions
- Westlands – Mobile vendors, modern restaurants and tabletop vendors/ mama mboga were also closer
- Kasarani – tabletop vendors/ mama mboga and kiosks were also closer to households
- Makadara – closer proximity to kiosks, cooked food street vendors

Contact details
Lucy.A.Adundo@nu.uni-giessen.de
lucyapiyo.adundo@ugent.be

f Universiteit Gent

in Lucy Apiyo Adundo

References
Braun & Clarke (2022) – Thematic analysis. A practical guide
Trombeta & Cox (2022) – The Textual-Visual Thematic Analysis: A Framework to Analyze the Conjunction and Interaction of Visual and Textual Data
Turner et al. (2018) – Concepts and critical perspectives for food environment research: A global framework with implications for action in low- and middle-income countries

GHENT UNIVERSITY

fwo Research Foundation Flanders — Opening new horizons

JUSTUS-LIEBIG-UNIVERSITAT GIESSEN