

# Influence of Disasters on the Urban Poor's Food Environments and Security Evidence from Sri Lanka

#### Nisha Arunatilake

Health, Education and Labour Institute of Policy Studies of Sri Lanka

## **Rationale and Objectives**

#### **Rational**

- High undernutrition in Sri Lanka.
  - 15% of children under 5 years of age are affected by wasting (Global Nutrition Report, 2022).
  - Three forms of malnutrition: under-nutrition, over-nutrition, and micro-nutrition deficits.
- USS residents are identified as one of the most nutritionally vulnerable populations.
- Food systems and environments are key drivers of unhealthy eating, malnutrition and obesity
- Urban poor, face disproportionate barriers to accessing healthy food.

## **Objectives**

 How have various crises in Sri Lanka influenced the retail food market, food security, and eating patterns of urban underserved settlements (USS) populations?

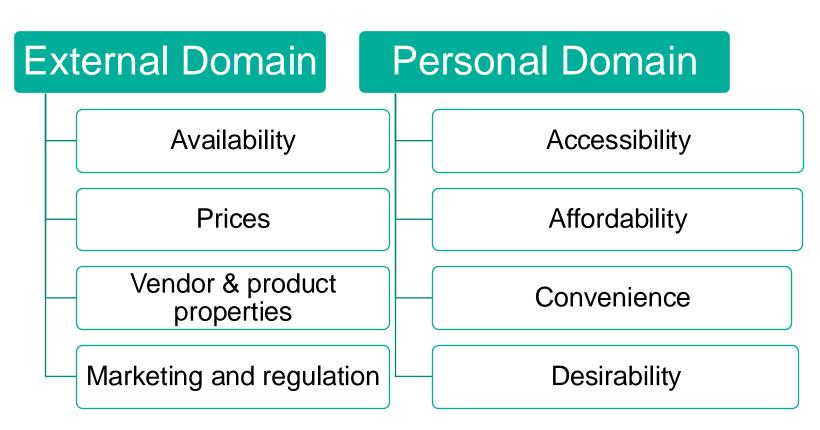
## Methods/analysis



## **Conceptual Framework - Food Environments**

# "Healthy retail food environments

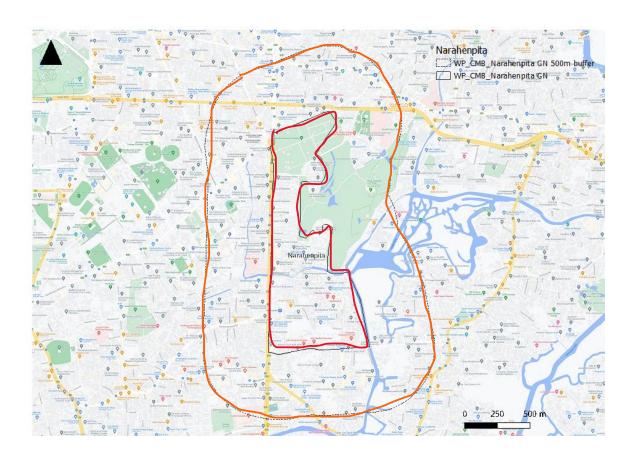
encourage healthy diets by supporting relatively greater availability, affordability, and promotion of healthier compared to less healthy alternatives (Cameron, et al., 2020)



Source: Adapted from Turner, et al. (2018).

## **Study Design**

- The study period:
  - December 2021 (end of Covid-19) and February 2022 (onset of Economic Crisis)
- **Study locations** three randomly selected under-served settlements plus a 500m buffer in the Colombo district:
  - Orugodawatta, Narahenpita, Wilawala



#### **Methods**

- Food outlets (grocers, supermarkets shops and eateries) in and around the three GNs.
  - 383 restaurants & eateries
  - 209 retail outlets
  - A purposively selected 18 households

#### Methods

- Key informant interviews; 24-hour dietary recall; Shopping baskets
- Purchase patterns about food availability, prices, vendor/product properties, marketing & regulation
- Scoring system for food outlets to assess the availability, affordability, and promotion of health/ unhealth food

#### **Analysis**

- Descriptive analysis
- Deductive approach

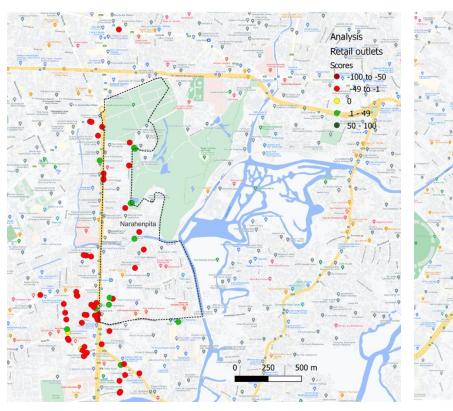
# **Results/findings**

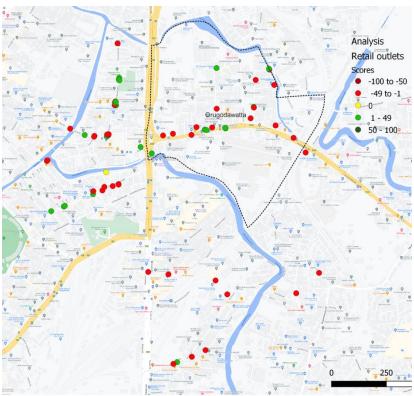
#### **Characteristics of the Study Sample**

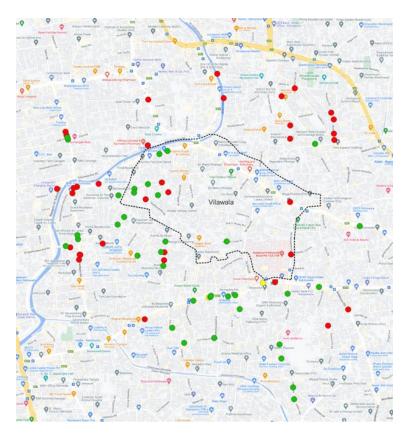
- 45% Daily Wage Earners
- 85% Experienced income losses during the pandemic
- Over half of the sampled households were poor or near poor
- 53% of the income was spent on food, on average



## **External Domain Findings**







#### **Personal Domain Findings**

#### **Accessibility**

- Purchasing at big markets is costly due to high transport and daily purchases
- (Pandemic) accessibility to fruits and veg. increased due to mobile vendors
- Shortages of imported goods due to import restrictions

#### **Affordability**

- Lower due to the high prices
- Affordability of fruits, and vegetables low (perishable)
- Prices of processed food with longer shelf life are less affected
- Purchase of smaller quantities of essentials

#### Convenience

- Pre-cooked food consumption declined (high cost, health concerns)
- Cooking for several meals in one go (to save energy)

#### **Desirability**

- Children eat refined carbohydrates as they do not like pulses and grains
- Frying popular due to desirability and low cost

# **Conclusions/Implications**

#### **Conclusions**

- Food-security and nutrition security of USS affected during crises due to lower quantity and quality of food consumed
- USS hhs purchased food from nearby shops mostly due to daily purchases and transport costs. (which lowered variety and increased prices)
- The food choices of USS were mainly dependent on affordability and not on nutrition value or healthiness.
- Desire for refined carbohydrates lowered consumption of healthy food (children)
- Consumption of unhealthy cooked foods declined due to high cost and safety
- Accessibility to fruits and vegetables increased due to mobile vendors (pandemic)

## **Implications**

- More widespread distribution of fresh produce so that families can purchase perishable items in locations within their neighborhoods.
- Nurturing healthy dietary habits among children is necessary
- Introduce low-cost, healthy food options
- Reform the current approach to promoting nutrition security (see below) to be inclusive of USS
  - promoting the cultivation of healthy food;
  - promoting home gardening and animal husbandry;
  - · reducing food wastage; and
  - promotion of quality food production, including food fortification