

World Food Programme



SAVING LIVES CHANGING LIVES

Fill the Nutrient Gap Analysis How HCES data are used 14 October 2022



Analytical process to understand **drivers** affecting availability, cost, and affordability of nutritious diets

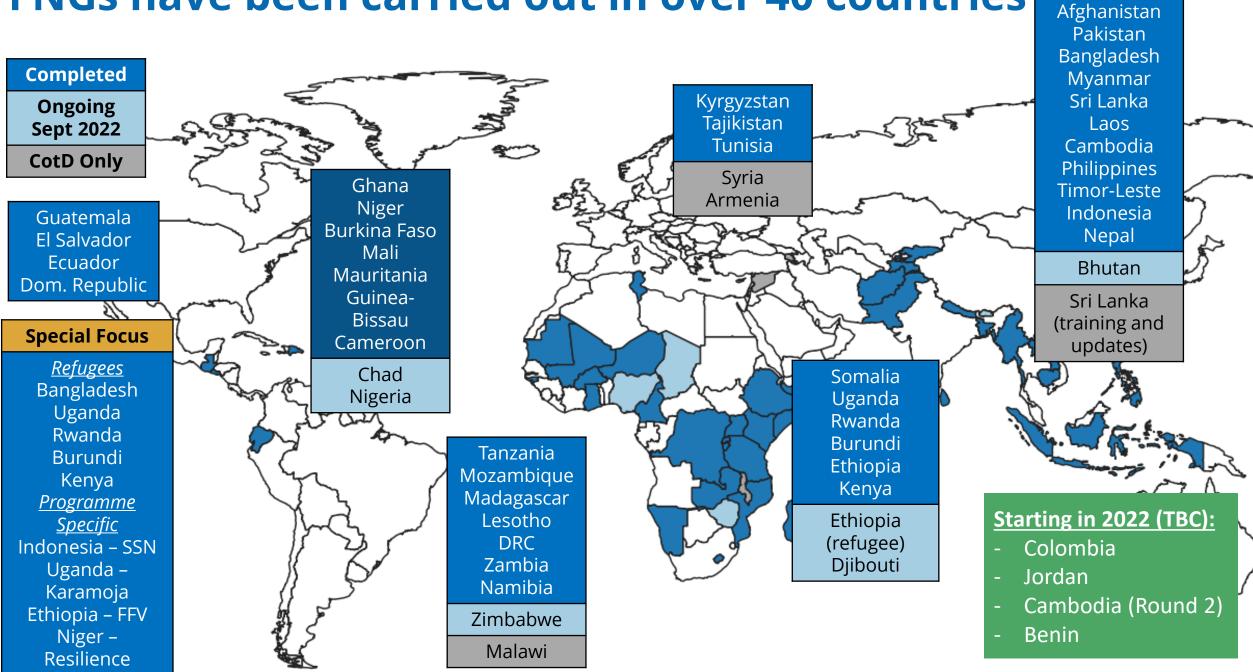
Assesses **multi-sectoral solutions** for improving affordability of nutritious foods and quantifying potential impact

Uses systems approach **to inform programmes**, **policies and actions** to improve diets and nutrition with a **focus on the most vulnerable**

Convenes multi-sectoral stakeholders and make recommendations to policymakers



FNGs have been carried out in over 40 countries



The FNG Analytical Framework



Secondary Data Analysis

Are nutritious foods available, accessible and chosen for consumption?

- Information about Food Systems
- Database, reports, peer-reviewed articles, grey literature

Cost of the Diet Analysis

What does a nutritious diet cost and is it affordable?

Price data

Expenditure data

Identify possible interventions ______And entry points Estimate minimum cost of nutritious diet and economic accessibility

Understand the challenges Model interventions to improve access and affordability of nutritious diets Inform a prioritization of interventions across sectors

Cost of the Diet estimates the minimum cost of meeting the nutrient requirements of a household with locally available foods

2 3 Least expensive Data on locally **Data imported Diet cost** combination available into software compared to food items & their food expenditure to optimise of foods food combinations to estimate market prices at that meets sub-national and model diets affordability nutrient requirements (admin 1) level of all members in a modelled household OF THE DIET

Size and composition of modelled household

5 person household

- 1. Child 12-23 months
- 2. School-age child 6-7 years
- 3. Adolescent girl 14-15 years
- 4. Adult woman (lactating)
- 5. Adult man



Cost of the Diet estimates the minimum cost of meeting the nutrient requirements of a household with locally available foods

Data on locally available food items & their market prices is imported into the software for linear optimisation



Market **Data requirements** monitoring / Data CPI data Retail prices sources (preferred) • At least 60 items Good diversity of food items from all Primary data food groups collection • Fresh/raw foods (from (not already markets) cooked) • Weighed (to allow for calculation per Prices/unit 100g) cost Geographically calculated representative from HCES

Estimating non-affordability and the affordability gap: Diet cost is compared to food expenditure

Expenditure

on food

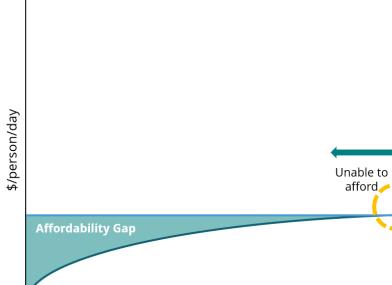
Cost of the

nutritious diet

Able to

afford

afford /



Percentiles

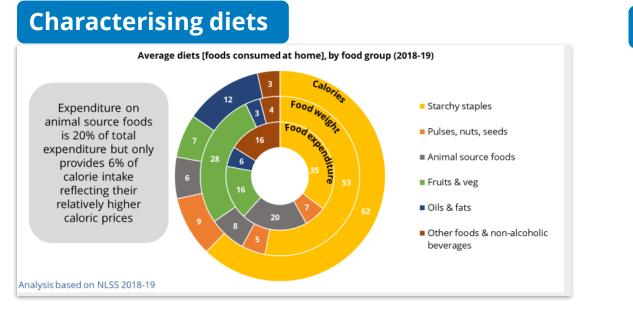
Data requirements

- Representative of geographic level of interest (region)
- Household size to calculate expenditure per capita
- Expenditure divided into food and nonfood
- Adjusted using food CPI to match price levels with point in time of price data

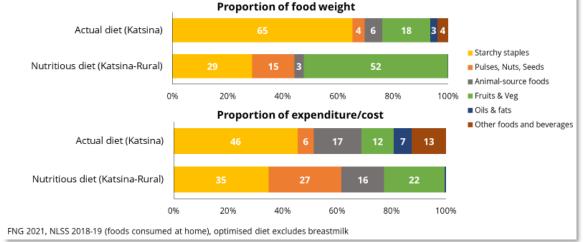
Data sources

- Already available HCES data
- Primary data collection for specialised FNGs

Understanding current food consumption and dietary patterns



Comparing to nutritious diet / healthy diet



For Minimum Expenditure Basket

Examples of HCES data used in recent FNGs

Prices

- **Zimbabwe** Poverty, Income, Consumption and Expenditure Survey 2017
- Indonesia SUSENAS March 2019

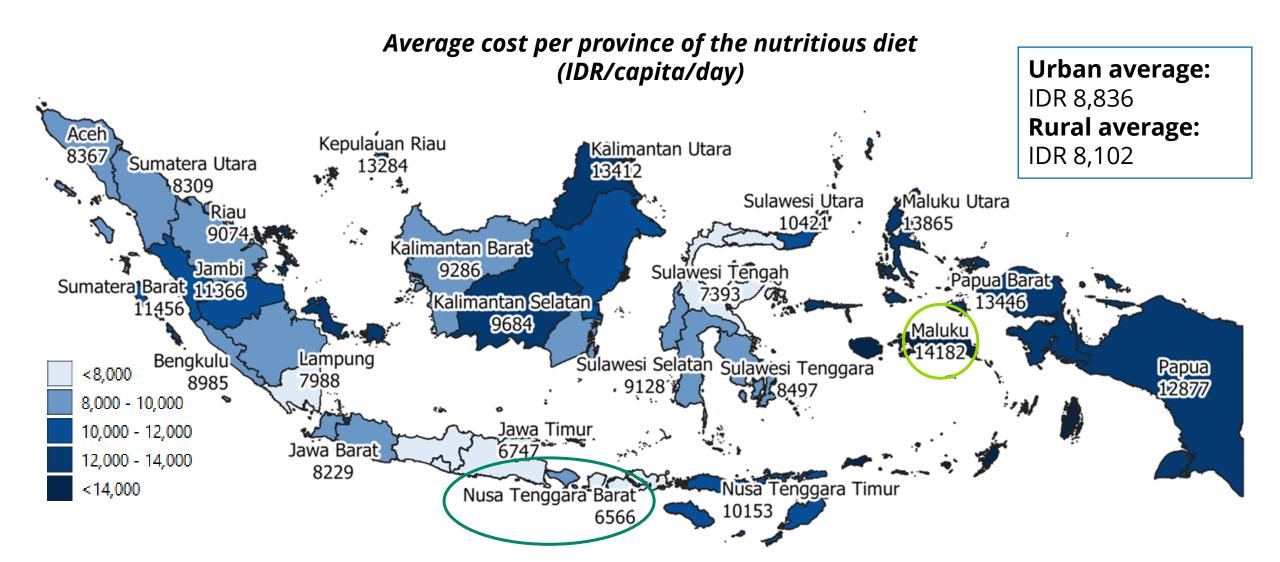
Bangladesh, Kyrgyz Republic, Mozambique, Pakistan, Rwanda, Uganda, Indonesia, Zimbabwe ...

Food expenditure

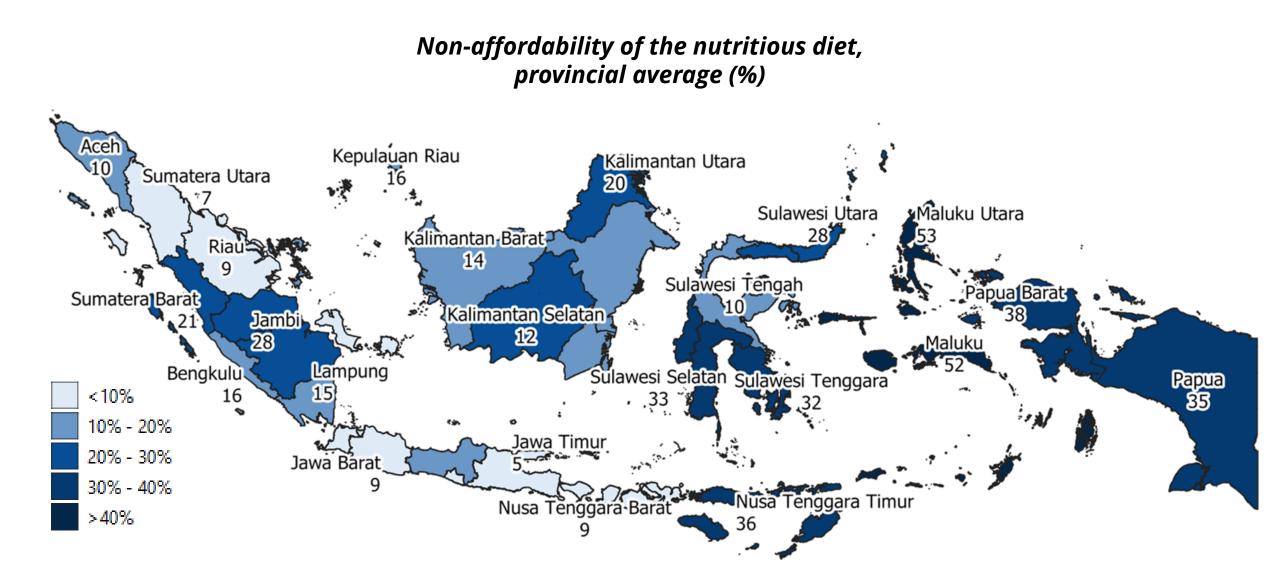
- **Nigeria** Nigeria Living Standards Survey 2018-19
- Ghana Comprehensive Food Security and Vulnerability Assessment 2020
- Zimbabwe Poverty, Income, Consumption and Expenditure Survey 2017
- Indonesia SUSENAS March 2019

And many others..

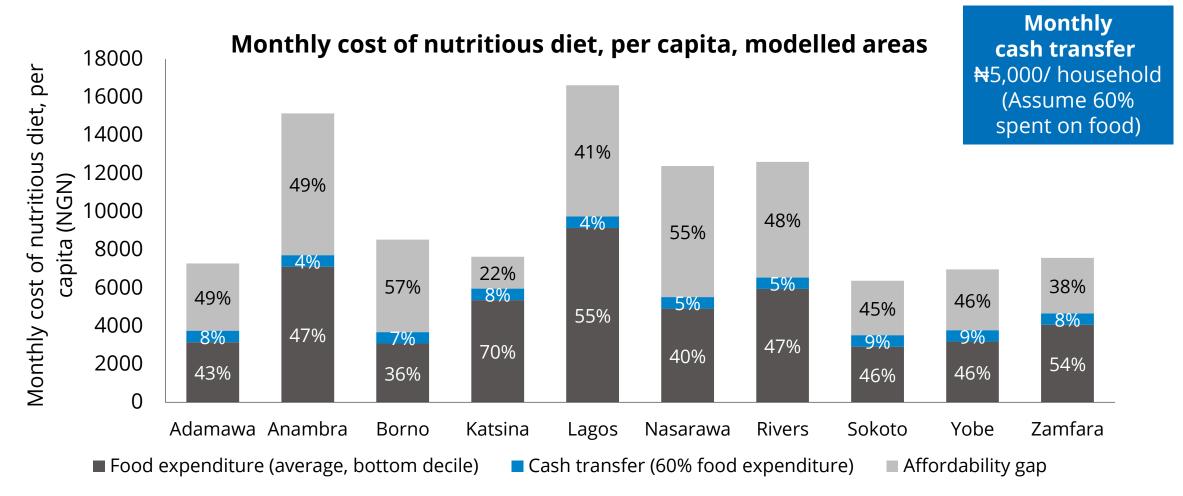
Indonesia: Nutritious diet cost across provinces



Indonesia: non-affordability across provinces



Nigeria: affordability gap for households with the lowest food expenditure (bottom 10 percentile)



New project which will draw upon HCES data

MIMI proposes to help close gaps in the LSFF data landscape by modelling and mapping a novel index for overall risk of inadequate micronutrient intake, to inform nationallevel decision making on LSFF (the need & the potential contribution).





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