



Addressing the mismatch between food and nutrition policies and needs in Tanzania

Roselyne Alphonce¹

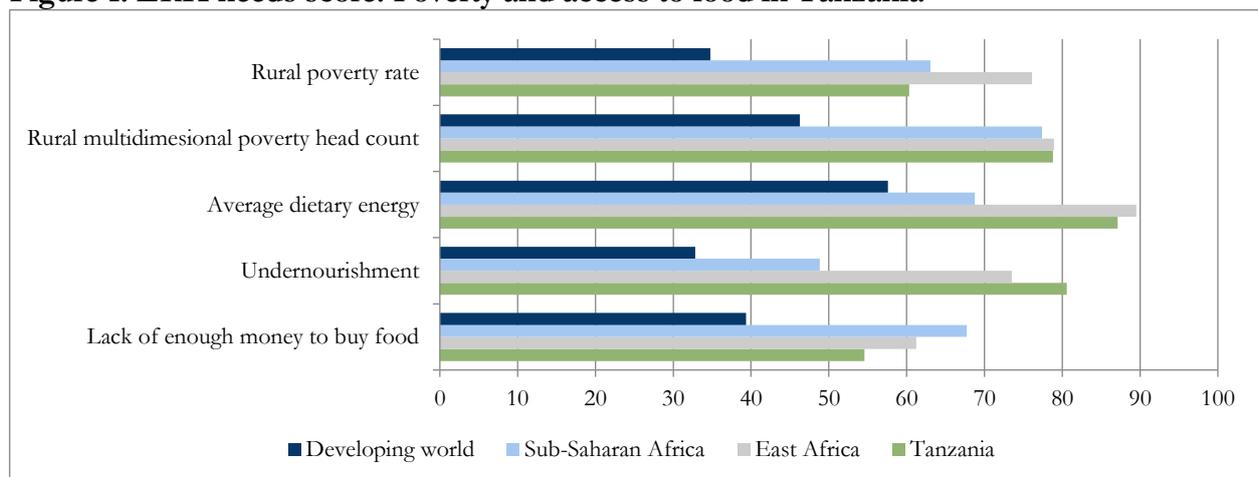
Ending hunger is an ambition that has been formally enshrined in the Sustainable Development Goals (SDG), specifically SDG2, which focuses on ending hunger, achieving food security, improving nutrition, and promoting sustainable agriculture by 2030.

Tanzania, like other developing countries, has a large rural population: More than 67 percent of the total population lives in rural areas and depends on agriculture and agriculture-related activities as their primary employment and source of food. This population is under a high nutrition deficit: Nearly three-quarters of the country's undernourished and 80 percent of its hungry are found there (FAO 2016). By mapping the specific FNS need and policies in Tanzania, the ERH (Ending Rural Hunger) project under the Brookings Institution identifies gaps and recommends policies for achieving food and nutrition security (FNS).

Food and nutrition security gaps in Tanzania

Low access to food, high nutritional needs, the agricultural productivity gap, and vulnerability to environmental shocks are the most salient problems facing the rural population in Tanzania. A significant proportion suffers from undernourishment (39.3 percent), low average dietary energy intake (33.9 percent), and poverty (26.7 percent) (NBS, 2014). The ERH database shows undernourishment in the country to be even higher than the government's statistic (81 percent) (Figure 1). Even though Tanzania is food self-sufficient at the national level, food is not accessible to all: Indeed, 34 percent of the

Figure 1. ERH needs score: Poverty and access to food in Tanzania



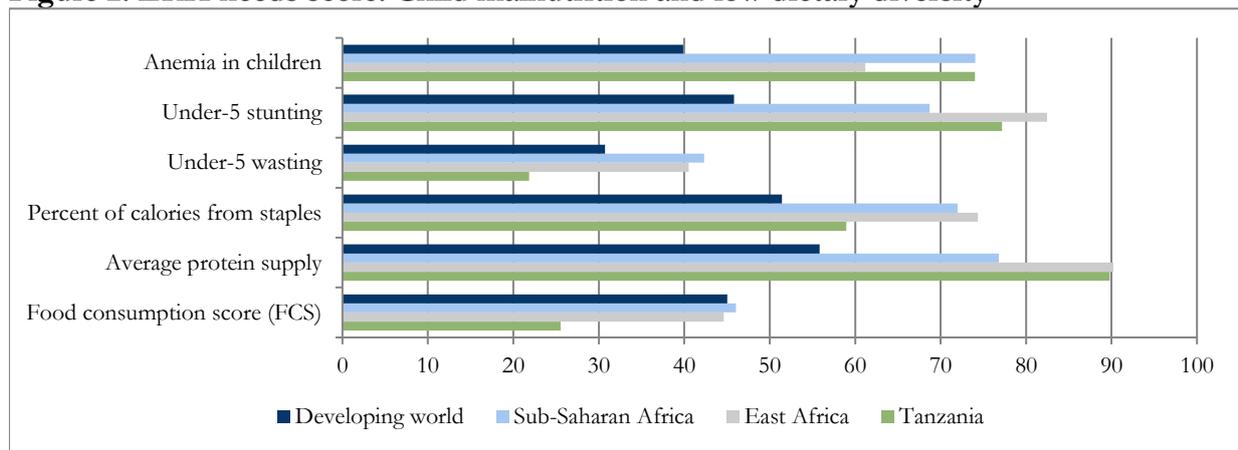
Note: Higher score = greater needs.
Source: ERH data, 2016.

¹Lecturer, Department of Agricultural Economics and Agribusiness, School of Agricultural Economics and Business Studies, Sokoine University of Agriculture.

population is not able to meet its daily caloric requirements. The reasons for this low supply include poverty—Tanzania has high rural poverty and multidimensional poverty rates (Figure 1)—logistical barriers due to poor road networks; and low productivity due to drought, disease, inadequate inputs, and rudimentary technology.

Equally important, Tanzania is also nutrition insecure. Poor availability of diversified foods and poor food utilization due to low nutrition knowledge confront the country’s rural population. As a result, high rates of malnutrition are observed, especially among children under five, leading the country to have above-average malnutrition rates compared to other countries in the region. On average, Tanzania scores 90² on average protein supply needs and 59 on calories extracted from staples as a percentage of total energy supply in the ERH database. Furthermore, under-5 stunting³ and anemia⁴ in children are also prevalent in Tanzania; where Tanzania has above and the same prevalence as sub-Saharan Africa, respectively (Figure 2).

Figure 2: ERH needs score: Child malnutrition and low dietary diversity



Note: Higher score = greater needs.

Source: ERH data, 2016.

Micronutrient deficiency loses the country around 2.65 percent of GDP (equivalent to \$518 million every year). Deficiencies are highest among women of reproductive age (between 15-49 years) and children under five, and are highest in iron and vitamin A. In line with findings from the ERH database, 58 percent and 45 percent of children and women respectively are anemic; and 33 percent and 37 percent of children and women, respectively, are deficient in vitamin A (Ministry of Health and Social Welfare, 2014).

In terms of agricultural production, the country performs poorly compared to the rest of sub-Saharan Africa, especially in cereal productivity, labor productivity, and the ratio in which agricultural land is allocated to family farms. These poor performances often stem from a number of factors, including low investment in research and development and high dependence on rudimentary technology (around 70 percent of Tanzanians still depend on hand hoes for cultivating their crops). Another factor at play is the poor access to improved seeds and fertilizer; in 2016/17 the use of fertilizer was around 19 kilograms per hectare, a rate below the 50 kg/h set by the the Comprehensive Africa Agriculture Development Program.⁵ A third influential factor is the poor access to finance in agriculture-related activities; only 8.5 percent of rural households have accessed agricultural loans in recent years (Cambridge, 2016).

² The higher the score, the greater the need. Countries scoring close to 100 reflect greater need. To be able to compare data across indicators, raw data from the ERH database for the different indicators assessing needs and policy were transformed to a common 0-1 scale, through a “distance to frontier” methodology. The distance to the frontier methodology computes how far Tanzania’s indicated value is relative to global best value. In essence, this indexing methodology involves transforming each indicator onto a common 0-1 scale by identifying each country’s best score across the sample years (2009-2013) to create a frontier sample.

³ This indicator measures the percentage of children under five whose weight for height is more than two standard deviations below the median for the international reference population for ages 0-59.

⁴ This indicator measures the percentage of children under 5 with hemoglobin levels of less than 110 grams per liter at sea level.

⁵ For more on this continent-wide effort, see <http://www.nepad.org/cop/comprehensive-africa-agriculture-development-programme-caadp>.

Regarding vulnerability to environmental shocks, the country faces relatively fewer risks compared to other countries in the region, owing to the fact that the country is endowed with water bodies suitable for irrigation. However, this opportunity is largely unexploited, as much of the agriculture is rain fed (90 percent), and only 450,392 hectares out of 29.4 million hectares of land with the potential for irrigation are actually under irrigation—a situation that exposes the country to volatility in agricultural production and cereal crop yields (Shekighenda, 2016).

Adequacy of country policies to address food and nutrition needs

Assessing the role played by the country’s policies in addressing its food and nutrition security needs is one of the very important aspects in tracking the country’s progress in achieving SDG2. Tanzania does not have a strategy that is solely aimed at achieving SDG2, but rather its strategies are fragmented and embedded in various national and development policies and programs.⁶ These strategies can be seen in the Tanzania Development Vision (TDV 2025), which is implemented in five year phases; CAADP, which translates to the Food Security Development Plan (TAFSIP); ASDPI and II; the National Multi-sectoral Nutrition Action Plan (NMNAP), District Agricultural Development Plans (DADPs), Land Tenure Support Programme (LTSP), and the Southern Agricultural Growth Corridor of Tanzania (SAGCOT).

Despite the good policies, strategies, and programs that are put in place to address the country’s poverty, food and nutrition security, and agriculture productivity still do not match the current needs. In-depth interviews with stakeholders identified a mismatch between policy formulation and actual implementation; poor coordination among agriculture-related ministries and between regulatory bodies; and insufficient resource allocation and commitment. Government allocation of resources is also small—many of the agriculture development strategies and programs are donor funded. Other explanations for the large gaps are related to poor infrastructure development—particularly roads, electricity, and irrigation—and low-quality human resources (unskilled labor and low technical know-how).

While improved resource commitment, implementation, coordination, infrastructure, policies and the pace of reform, and an improved business environment contribute to reaching SDG2 by 2030, some interviewees in the Tanzania ERH case study felt that, to be able to close the gaps, the government needs to operate like the private sector (i.e., be profit-oriented) and allow the private sector to drive the agriculture sector.

Conclusions and recommendations

Although Tanzania has a number of strong strategies, programs, and policies relevant for combating rural poverty, hunger, and food and nutrition insecurity, the country has yet to close the gaps and reach SDG2 by 2030. To do so, the Tanzania ERH case study recommends six priority areas:

1. The country must increase access to food and nutrition through:
 - Food distribution by investing in good road networks;
 - Education on food quality/utilization by investing in education campaigns and emphasizing the importance of the different food groups in diets (especially for pregnant women and children); and
 - Social marketing campaign to farmers and small-scale food processors on the importance of supplying nutritious foods through fortification, soil nutrition, and growing bio-fortified crops and different food groups.

⁶ Please refer to the case study for a full list of policies, strategies, and programs that are in place.

2. Tanzania should aim to reduce vulnerability to environmental shocks in rural areas by increasing the capacity of small-holder farmers to exploit the vast irrigation potential available in the country.
3. The government and development partners should commit more resources in activities/programs/infrastructure related to boosting agricultural growth.
4. The pace of policy reforms should go hand-in-hand with changes in other issues affecting the economy like demographic changes, climate change, urbanization, and changes in the income distribution.
5. There should be improved coordination and complementarity between related ministries, donor projects, NGOs and between regulatory authorities in the agri-food systems.
6. Tanzania should ensure an up-to-date implementation plan, including regular monitoring and evaluation of the stated plan/programs/strategies and policies.

References

- Arslan, Aslihan, Belotti, Federico, Asfaw, Solomon, Karfakis, Panagiotis, and Leslie Lipper. 2016. *Welfare impacts of climate shocks: evidence from Tanzania*. ESA Working Paper No. 16-04. Rome, Italy: FAO. <http://www.fao.org/3/a-i6000e.pdf>.
- Cambridge Economic Policy Associates Ltd. 2016. *Global Agriculture and Food Security Program (GAFSP) Private Sector Window: Agribusiness Country Diagnostic –Tanzania*. Washington, DC: International Finance Corporation. <http://documents.worldbank.org/curated/en/291131490093290550/pdf/113628-WP-GAFSP-IFC-Agribusiness-Tanzania-PUBLIC.pdf>.
- Ending Rural Hunger (ERH). 2016. Ending Rural Hunger Database. Washington, DC: Brookings Institution. <https://endingruralhunger.org/>.
- Shekighenda, Lydia. 2016. “Irrigated area to reach one million hectares.” *The Daily News*, 07 Dec 2016. <http://www.dailynews.co.tz/index.php/home-news/47078-irrigated-area-to-reach-one-million-hectares>.
- United Republic of Tanzania (URT) Ministry of Health and Social Welfare. 2014. *Tanzania National Nutrition Survey 2014*. Dar es Salaam, Tanzania: Tanzania Food and Nutrition Centre. https://www.unicef.org/esaro/Tanzania_National_Nutrition_Survey_2014_Final_Report_18012015.pdf.
- United Republic of Tanzania (URT) National Bureau of Statistics (NBS). 2014. *National Panel Survey Wave 3, 2012-2013 Report, Ministry of Finance*. Dar es Salaam, Tanzania: NBS. http://www.nbs.go.tz/nbs/takwimu/Statistical_Methods_and_Standards/NPS_Wave_3%20_Final%20_Report.pdf.