Global hotspots:

how the evolving nutrition and agricultural landscape is changing the story of development for 2030

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Disclaimer

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Objectives

- Identify and prioritize hunger, malnutrition, and nutrition security hotspots where food and nutrition policy and agricultural development meet to inspire social action on realizing the Sustainable Development Goals.

- Describe trends, drivers, and challenges of the global agricultural landscape in the emerging development context.

- Discuss the impact of evidence-informed worldview on changing population behavior towards food, nutrition and agricultural policy choices and actions within everyday practice.
How many people are there in the world?

a. 8 Billion
b. 7 Billion
c. 6 Billion
What is the number of hungry people in the world?

a. 1 billion
b. 800 million
c. 700 million
What percentage of the world population is hungry?

a. 6.25 % (about $\frac{1}{16}$th of the World Population)

b. 11 % (about $\frac{1}{9}$th of the World Population)

c. 25 % (about $\frac{1}{4}$th of the World Population)
In the last 20 years, the proportion of the world population living in extreme poverty has:

- [ ] Almost doubled
- [ ] Remained more or less the same
- [ ] Almost halved
In the last 20 years the proportion of the World population living in extreme poverty has...

- □ Almost doubled
- □ Remained more or less the same
- ✔ Almost halved
Over the last 200 years, poverty rate fell continuously coupled with a 7-fold increase in world population.

Every day 250,000 people graduate from extreme poverty
+ 300,000 get electricity for the first time
+ 250,000 get access to clean water

(worldbank.org)
The decline of global poverty
2030: year of zero-hunger
Mapping progress towards eradicating world hunger

Global Hunger Index, 2016
Mapping progress towards eradicating world hunger

Per map, the higher the score, the larger the circle size. The African region has the greatest number and size of circles indicating highest hunger scores.
Under-5 Mortality Rate

The African region has the highest number of labels and possesses the greatest under-5 mortality rates.
The stunting rate of children under 5 years of age (%)

The stunting rate of children under 5 years of age (%)
Key drivers of hunger

- Poverty
- Conflict
- World population
- Food and agriculture policy
- Climate change
Trends in World agricultural production
A combination of sea-level rise, rapid population growth in coastal zones worldwide, and more intense storm surges associated with more severe winter and tropical storms will increase the numbers of people at risk from coastal flooding. Regions likely to be especially affected by coastal flooding include small islands and Asian megadeltas, such as the Ganges-Brahmaputra and the Zhujiang (Adger et al., 2007). The low-elevation coastal zone (LECZ: >10 m above mean sea level) contains about 10% of the world’s population while only accounting for 2.2% of total land area (McGranahan et al., 2006). Asia has by far the greatest population in the LECZ, and 10 of the 25 countries studied by McGranahan et al. (2006) have more than 50% of their population in the LECZ (see also McGranahan et al., 2007). The greatest impacts proportional to population size will likely be on low-lying small island states in the

**FIGURE 5:** a) Food production per capita in Africa, b) the rest of the world (McGranahan et al., 1995).
Trends in per capita food production

The developing country regions have not all made equal progress.
World cereal production has picked up.
Food shortages in the Greater Horn of Africa, including South Sudan, Somalia, and Yemen
The agricultural trade deficit of Least Developed Countries is widening.
Link between agricultural and rural development and food security

Countries with worsening levels of undernourishment have seen a declining agricultural GDP.
Processes are needed to address complexity and multi-sectoral approaches
AS PART OF THE NEGOTIATIONS ON THE POST-2015 DEVELOPMENT AGENDA, WE CALL ON GOVERNMENTS TO:

- Include nutrition at goal level in the agreement with specific 2030 targets on wasting and stunting in under-fives.

- Agree on a new wasting target that builds on the 2025 WHA target and aims to reduce by at least half the number of children under-5 globally who are acutely malnourished. (This equates to a reduction in the global prevalence of wasting to below 4%.)

- Include a specific indicator on coverage for the treatment of severe acute malnutrition under a post-2015 health target on ending preventable child deaths.

- Adopt targets and indicators in other key sectors that will help in the fight against undernutrition. (E.g. health; food security; agriculture; water and sanitation; and gender equality.)
Goal 2. End hunger, achieve food security and improved nutrition, and promote sustainable agriculture.

By 2030 end all forms of malnutrition, including achieving by 2025 the internationally agreed targets on stunting and wasting in children under five years of age, and address the nutritional needs of adolescent girls, pregnant and lactating women, and older persons.
Business as usual will not work
Refugees queue for food parcels in Yarmouk, Syria. Photograph: Reuters
Context Matters
Tracking population movement
Contextual relevance and impact

Typhoon Haiyan – Philippines 2013

Conflict IDP and food security crisis South Sudan 2013-present

Ebola epidemic Sierra Leone, Liberia, Guinea 2013-2015

Syrian Refugees in Amman, Jordan, 2011-present

Sahel Food insecurity 2011-present
Key topics covered

• Mapping hunger, malnutrition, nutrition security hotspots using geographic information systems
• Linking agricultural development to improving food and nutrition security
• Trends, drivers, and challenges of agricultural development, including: global population, income, food consumption patterns, food supply chain, prices of agricultural commodities, food shortages and food emergencies
• Implications of agricultural development on meeting the Zero Hunger Challenge with emphasis on contribution to cross-cutting issues and multi-sectoral action
• Application of evidence-informed facts in the context of population behavior change
“Amid horror, there are sparks of joy and moments of life and sharing that we do our best every day to make them happen,”
• The world is evolving and professionals/educators’ perceptions need to evolve with it.
• There is dire need to know the facts of the past in the context of shaping the story of the future for realizing the Sustainable Development Goals.
• Knowledge alone is not enough. There are new skills, features and behaviors to possess for driving population engagement through data and emerging media.