Challenges and Impacts of Poor Nutrition



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WHAT IS THE MALNUTRITION BURDEN?



Malnutrition in all its forms is a large scale and universal problem



2 billion

people lack key micronutrients like iron and vitamin A



2.1 billion

adults are overweight or obese



151 million children are stunted

38 million

children are overweight



51 million

children are wasted

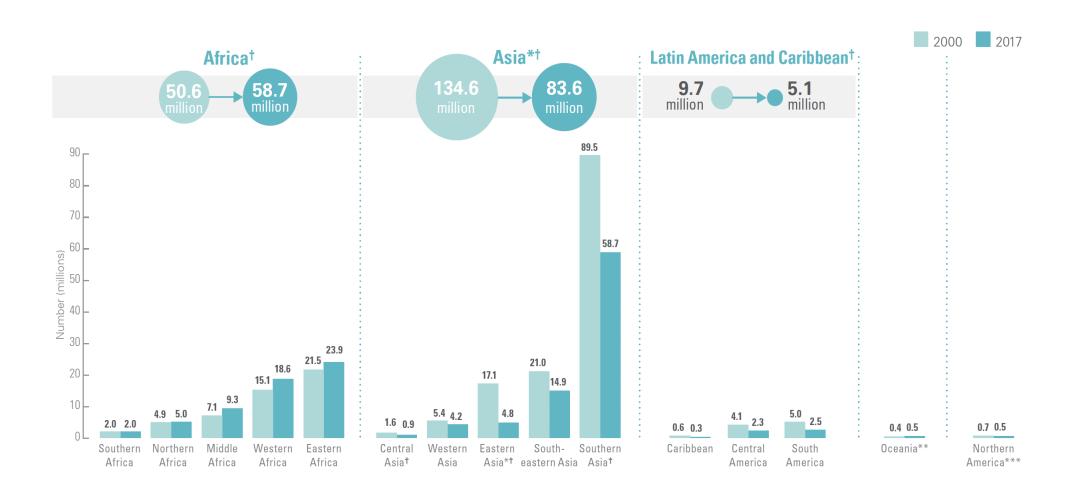


88%

of countries face a serious burden of either two or three forms of malnutrition

Burdens have changed over time

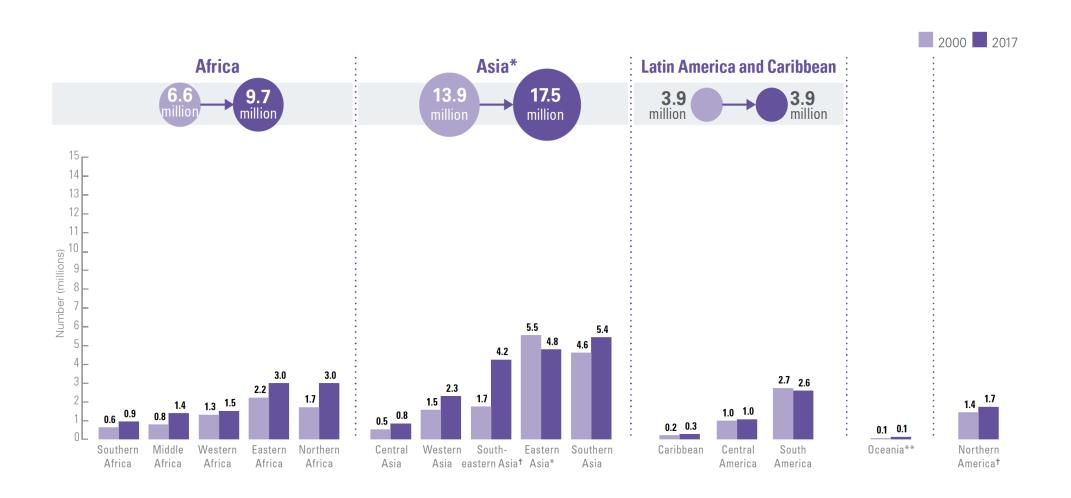
Stunting trends in children under the age of five



Source: UNICEF / WHO / World Bank Group: Joint child malnutrition estimates 2018

Burdens have changed over time

Overweight trends in children under the age of five

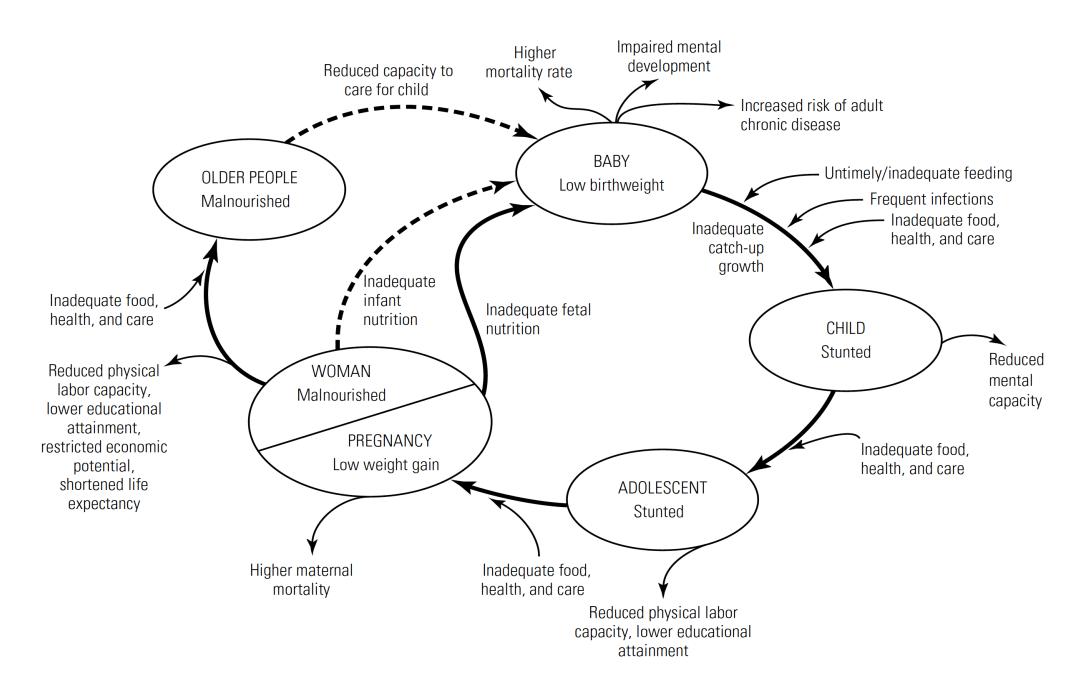


Source: UNICEF, WHO, World Bank Group joint malnutrition estimates, 2018 edition.

WHO IS VULNERABLE?

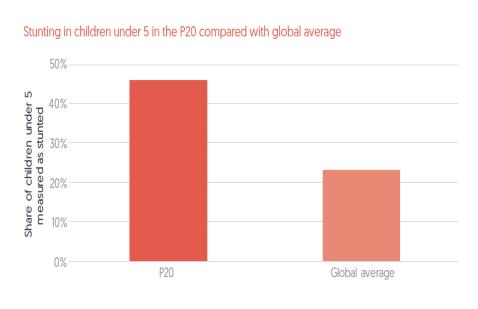


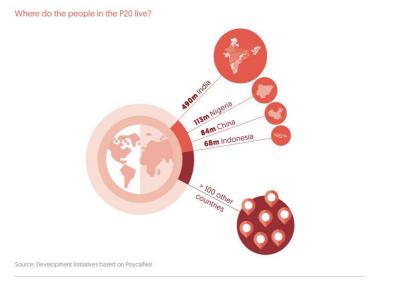
Women, children, adolescents



The poor are nutritionally vulnerable

- While some regions of the world have been successful in terms of reducing poverty, gains have not been even.
- P20: 1.4 billion men, women and children who are the poorest 20% of the global population living below the international poverty line (\$1.90/day) plus the people who are most vulnerable to falling back into extreme poverty. They hold the stunting burden.
- In high income countries, the obese tend to be poor.

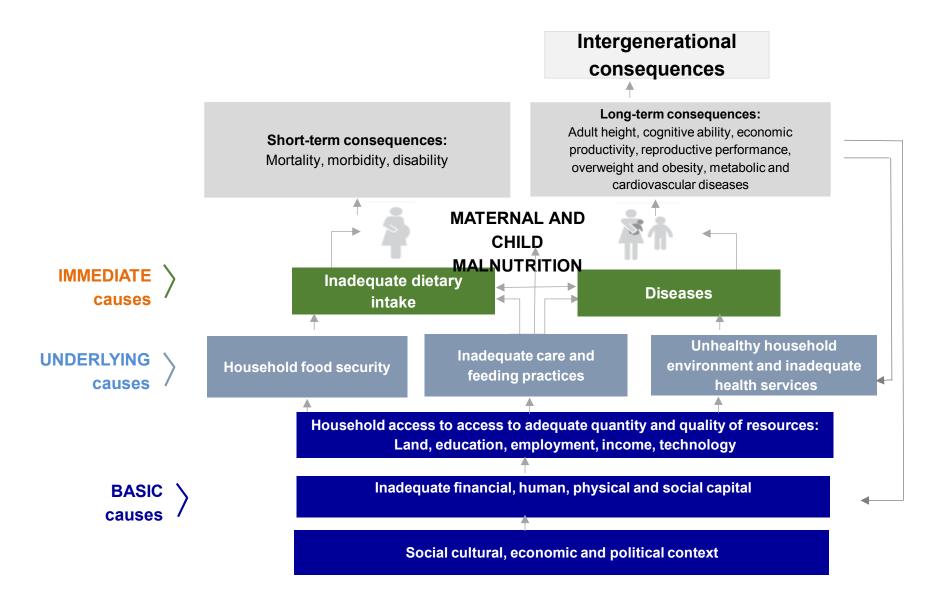




WHAT ARE THE CONSEQUENCES?



Causal pathway of malnutrition



Three consequences

1. HEALTH

- With overweight/obesity and undernutrition, higher risk of morbidity, mortality, disability and low quality of life
- With undernutrition, particularly stunting as a proxy, higher risk of lifelong cognitive impairments
- Undernutrition increases risk and pace of being obese and suffering from NCDs into adulthood = double fate

2. SOCIAL

- With undernutrition, 22 45% reduction in lifetime earnings
- 1% loss in adult height = 1.4% loss in productivity
- With overweight/obesity and undernutrition, higher lifetime health costs

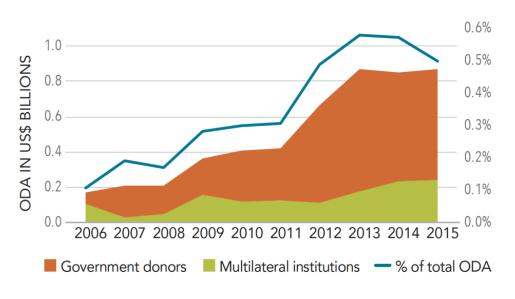
3. ECONOMIC

• Estimated to range from 2-3% of GDP, to as much as 16% in most affected countries

Societal costs to overcome malnutrition

- Cost of ending hunger: estimates range from US\$7 billion to US\$265 billion annually to 2030.
- Cost to (1) reduce the number of stunted children by 40%; (2) reduce the number of women of reproductive age with anemia by 50%; (3) increase the rate of exclusive breastfeeding up to 50%; and (4) reduce and maintaining child wasting to a level of less than 5%: **US\$7 billion** annually to 2025.
- Global obesity costs an estimated 2 trillion annually or 2.8% of global GDP.
- We need more financing for nutrition: ODA only 0.5% on undernutrition, 0.01% on NCDs.

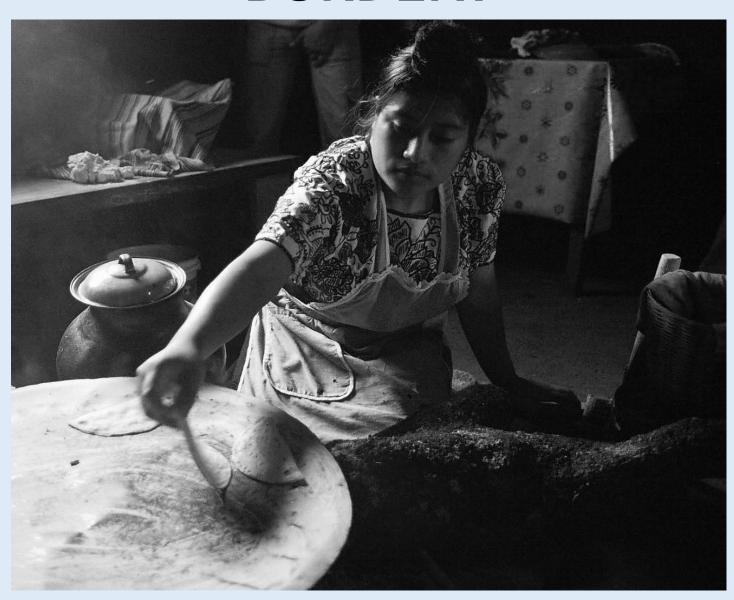
Government and multilateral ODA spending on nutrition-specific interventions, 2006–2015



Source: Development Initiatives based on OECD DAC Creditor Reporting System.

Adapted from D. Mason-D'Croz et al., "IMPACT Projections of Investments in Agriculture and Implications for Reducing Hunger in Africa by 2030: Results from the IMPACT Model, Version 3.3," project report, Washington, DC: IFPRI, 2016; Global Nutrition Report 2017; Shekar et al World Bank estimates on nutrition WHA targets 2016; Tremmel et al 2017

WHAT IS A MAJOR DRIVER OF THE BURDEN?



Diets and food systems are transforming

Traditional Food Systems Receding Famines

Rural, subsistence, smallholder farming

Diets high in grains, tubers, low in animal source foods, seasonal access to local fruits & vegetables

High labor intensity jobs on farms, mines

Cook food at home with less fuel efficiency

High stunting, micronutrient deficiencies and communicable diseases, shorter life expectancy

Mixed Food Systems Transitioning Economies

Peri-urban, urban, service-based economy

More processed & packaged foods, street food, vegetable oils and sugar

Increased sedentary-type work, increase public transport and cars

Eat prepared foods away from home, cook less

Increased obesity, noncommunicable diseases, longer life expectancy but more disability

Modern Food Systems

Mainly urban or connected, small town living

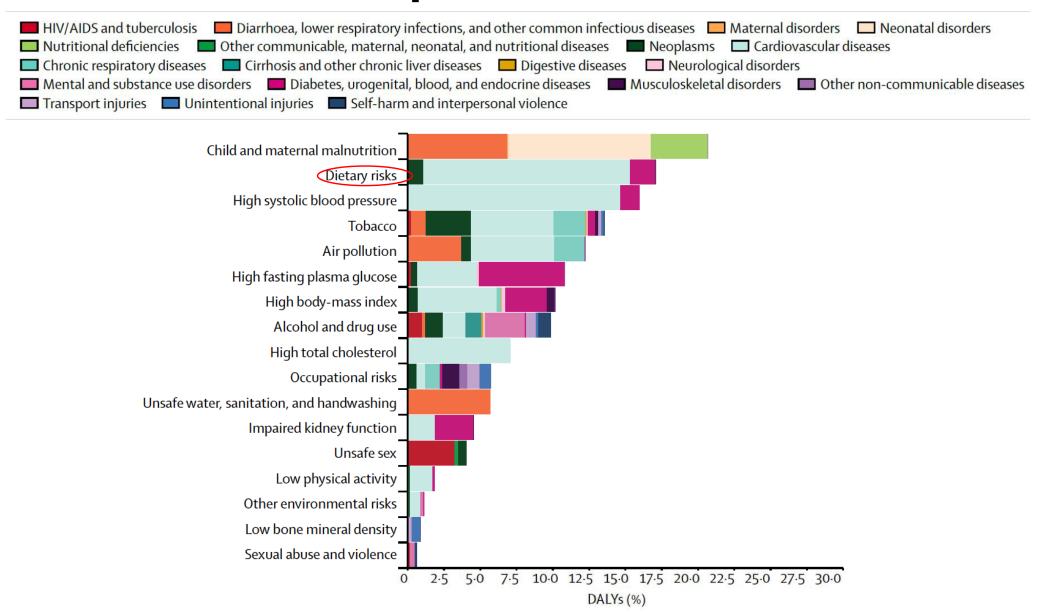
More dietary diversity and variety, access to animal source foods, fruits and vegetables

Greenspace, bike pathways, purposeful physical activity

Eat away from home, food deliveries

High obesity and noncommunicable disease burden, but better health care, thus higher life expectancy

Diets are a top risk factor of disease



Source: GBD 2016 Risk Factors Collaborators (2017). Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016. Lancet

WHERE IS THERE AN OPPORTUNITY?

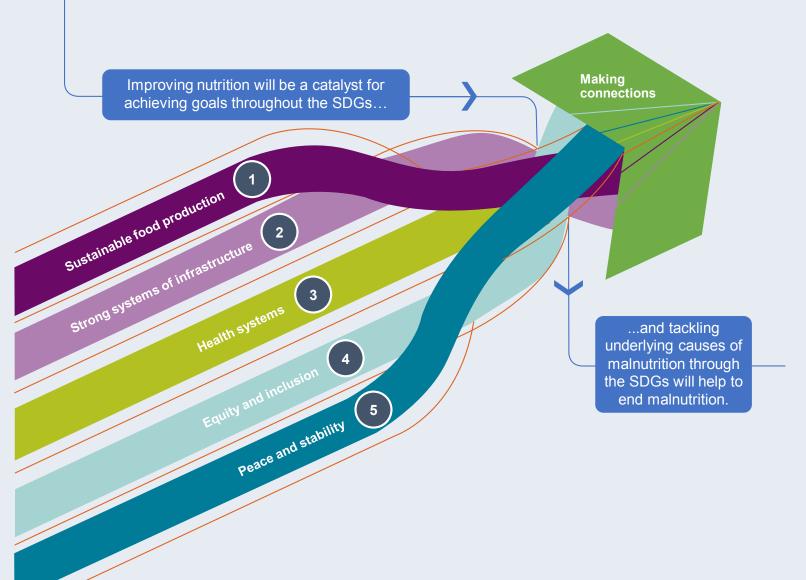


Leaving no one behind: The SDGs

"These are universal goals and targets which involve the entire world, developed and developing countries alike. They are integrated and indivisible. The interlinkages and integrated nature of the Sustainable Development Goals are of crucial importance in ensuring that the purpose of the new Agenda is realized... As we embark on this collective journey, we pledge that no one will be left behind."



Integrate nutrition into the SDGs



The motivation to act

- The scale of malnutrition raises alarms.
- The societal costs of unhealthy diets and their health outcomes are considerable.
- Food systems face enormous challenges as well as opportunities.
- Solutions and evidence to act are available and leadership must come from governments and intergovernmental organizations.
- We need <u>disruptive change</u> and <u>action cannot wait</u>.
- Seize this moment to make the SDGs impactful.

Thank you!

