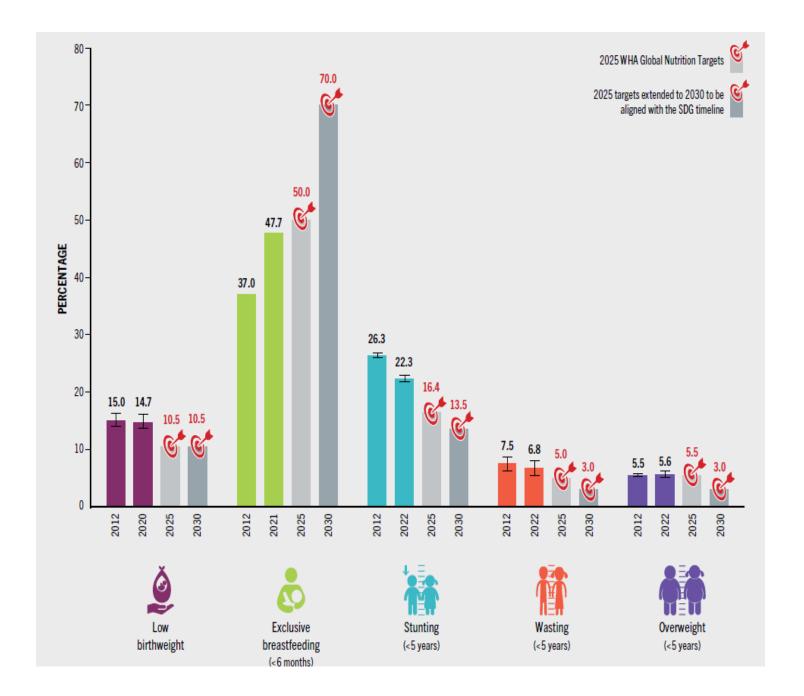
Healthy diets: What are they and what can be done to achieve them?

Lynnette M Neufeld, PhD
Director, Food and Nutrition Division
Food and Agriculture Organization of the United Nations (FAO)

Content

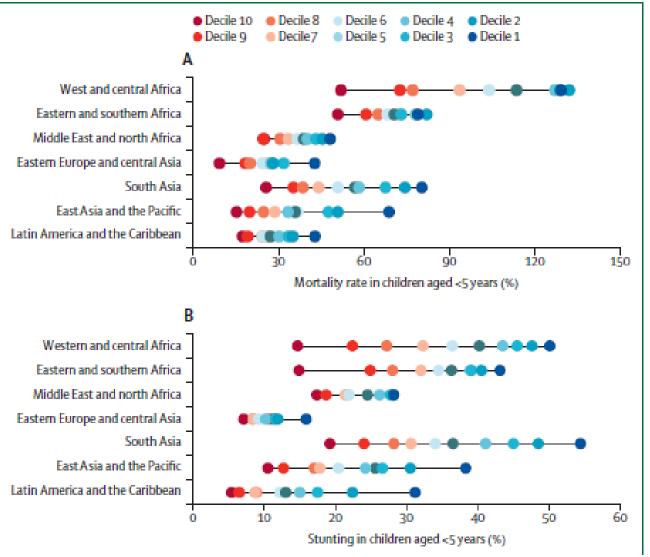
- Brief overview of the current nutrition situation globally
- Principles of a healthy diet
- Food systems actions to enable healthy diets

The world is off track to meet most of the globally agreed nutrition goals



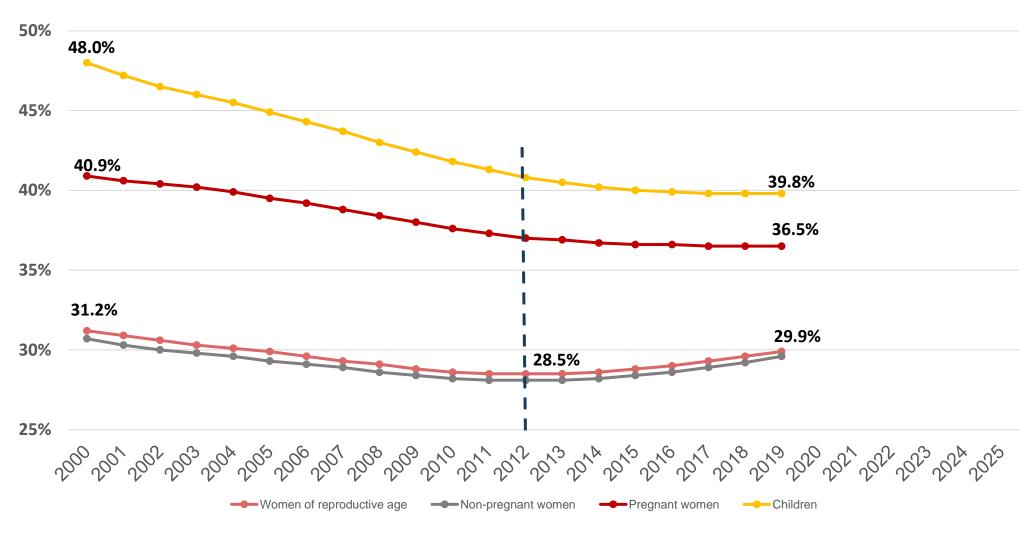
Global data mask enormous issue of persistent inequities in all world regions

Child mortality and stunting by wealth decile and world region



Victora *et al.* 2022. Effects of early-life poverty on health and human capital in children and adolescents: analyses of national surveys and birth cohort studies in LMICs. *The Lancet*, 399(10336): 1741–1752. https://doi.org/10.1016/S0140-6736(21)02716-1

Essentially no progress on anaemia reduction in the past 10 years



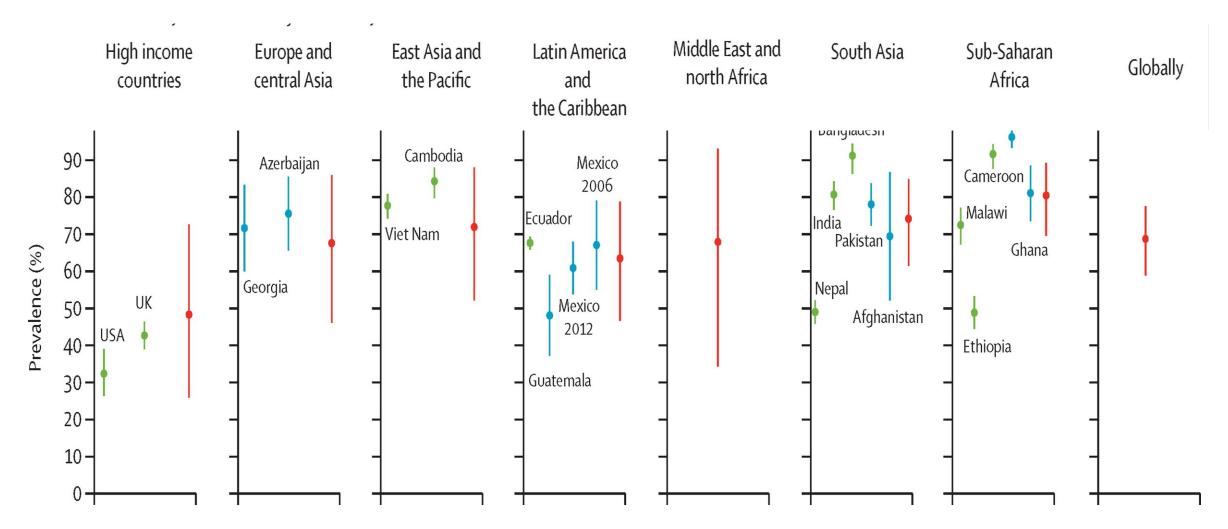
This is only the tip of the malnutrition iceberg

1.6 billion women and preschool aged children are deficient in one or more vitamins and minerals

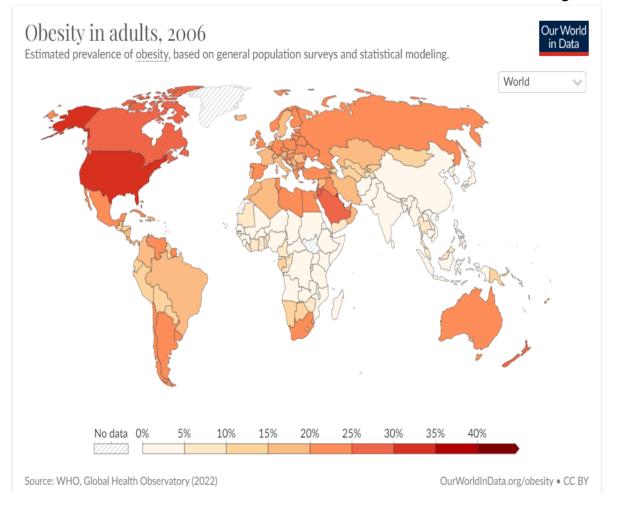
This affects most countries, including high-income

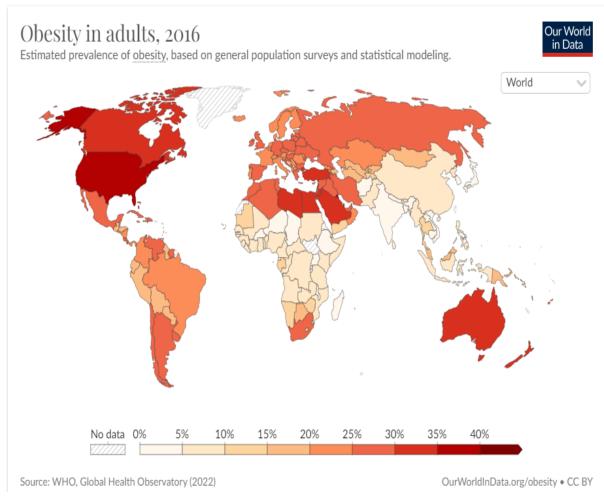


Global and regional micronutrient deficiency prevalence among women aged 15–49 years: estimates modelled from available data for Iron, Zinc, Folate in 20 countries

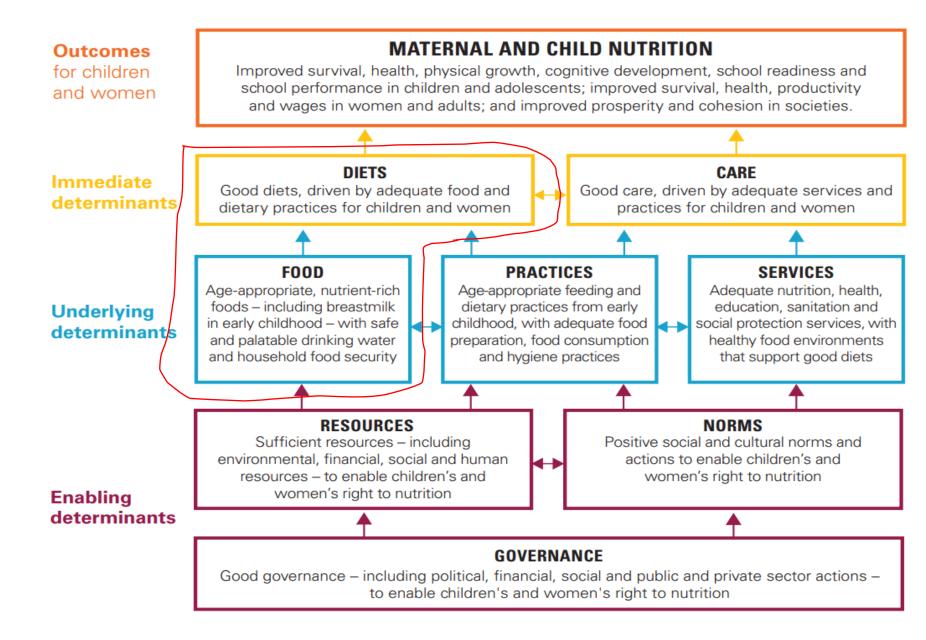


Prevalence of obesity in adults 2006 and 2016





All forms of malnutrition have complex aetiology, but unhealthy diets are a common cause of them all



Diets themselves are risk factors

••••

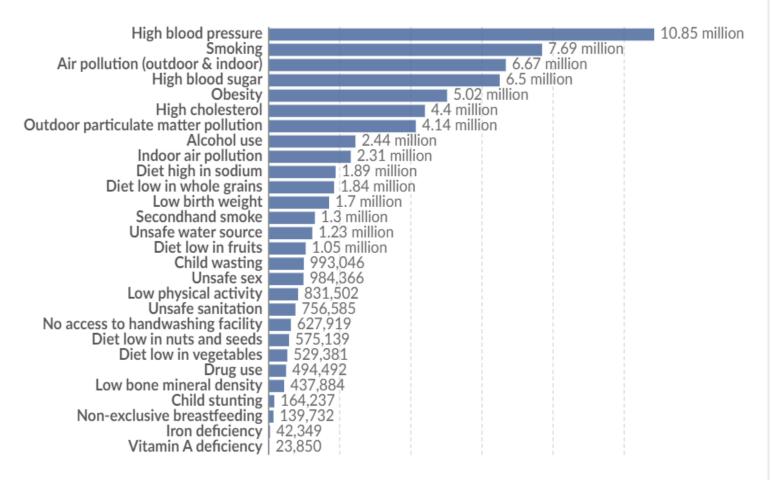
but such estimates rely heavily on modelled diétary data, with many important limitations*

Deaths by risk factor, World, 2019



The estimated annual number of deaths attributed to each <u>risk factor</u>. Estimates come with wide uncertainties especially for countries with poor vital registration.

Change country or region



Source: IHME, Global Burden of Disease (2019)

OurWorldInData.org/causes-of-death • CC BY

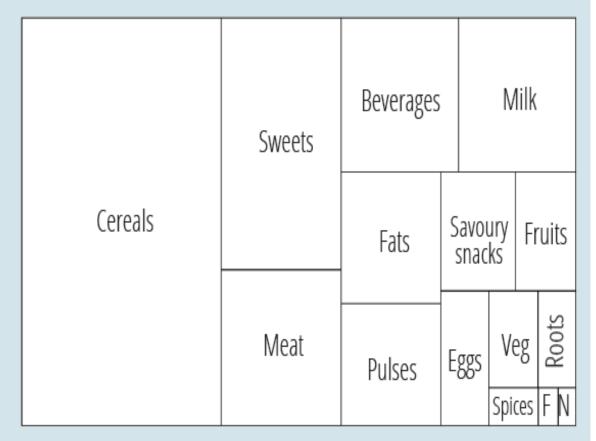
Note: Risk factors are not mutually exclusive: people may be exposed to multiple risk factors, and the number of deaths caused by each risk factor is calculated separately.

^{*} Beal, T., Herforth, A., Sundberg, S., Hess, S.Y. & Neufeld, L.M. 2021. Differences in modelled estimates of global dietary intake. *The Lancet*, 397(10286): 1708–1709.

Data needed to study health risks and plan programs: quantitative estimates of usual dietary intake

Figure A Contribution to energy intake by food group

Mean proportion of total energy intake by FAO/ WHO GIFT food groups



NOTES: F = fish. N = non-disaggregated composite dishes. Data is for rural girls aged 10–13 years in Mexico in 2012.

Figure B1 Prevalence of micronutrient intake adequacy Percentage with intakes at or above the average requirement. NOTE: Data is for calcium intake of rural girls aged 10–13 years in Mexico in 2012.

Figure 1. Map of dietary surveys carried out in low- and middle-income countries from 1980 to 2019

Few countries have such quantitative data at national level

- Many surveys old
- Highly variable methods of collection
- Inconsistency in reporting

Meet Bridget Holmes to discover more about FAO's work on dietary data sharing

FAO and Intake. 2022. Global report on the state of dietary data. Rome. https://doi.org/10.4060/cb8679en

Dietary data for adolescents particularly scarce

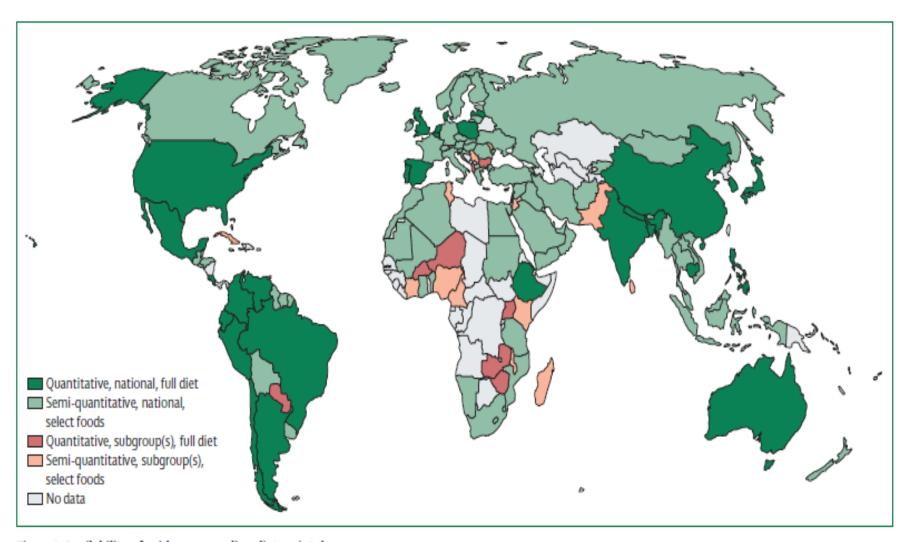


Figure 4: Availability of evidence regarding dietary intake

Meet Wendy
Gonzalez and
GAIN's work with
adolescents to
promote healthy
food choice

Knowing what we know about the importance of diets, why are healthy diets and nutrition not central in all food systems actions?

Insufficient capacity and skills to identify opportunities to embed nutrition actions, and to design actions with high potential for impact

Meet Diana Carter and the FAO e-learning Academy resources

Inconsistent messaging,
particularly in the media
(but sometimes also
among nutrition
experts), on what
constitutes a healthy diet

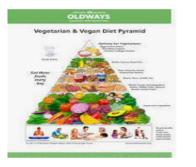
Continued debate on what constitutes a healthy diet and how to measure it is an important constraint to progress...

...mixed and sometimes contradictory messages in public media

















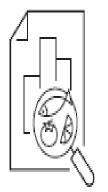


Resolving apparent contradictions and providing appropriate guidance (to government, the food industry, the public) requires consensus on what constitutes a healthy diet and how to measure it









TOWARDS CONSENSUS ON MEASUREMENT OF THE HEALTHFULNESS OF DIETS

The Healthy Diets Monitoring Initiative commissioned and managed jointly by FAO, UNICEF, and WHO

https://www.who.int/groups/who-unicef-technical-expert-advisory-group-on-nutrition-monitoring/healthy-diets-monitoring-initiative

What makes diets healthy (or not) for humans?

"Healthfulness of diets"

- A set of core underlying principles of what constitutes healthy for the human body
- Universal (for humans)

Adequacy:

All nutrient requirements are met for all nutrients, without excess

Balance:

In dietary energy intake from carbohydrates, proteins, fats

Diversity:

Within and across food groups

Moderation:

In intake of nutrients and foods associated with poor health outcomes

How does that translate into what we eat??

"Dietary patterns"

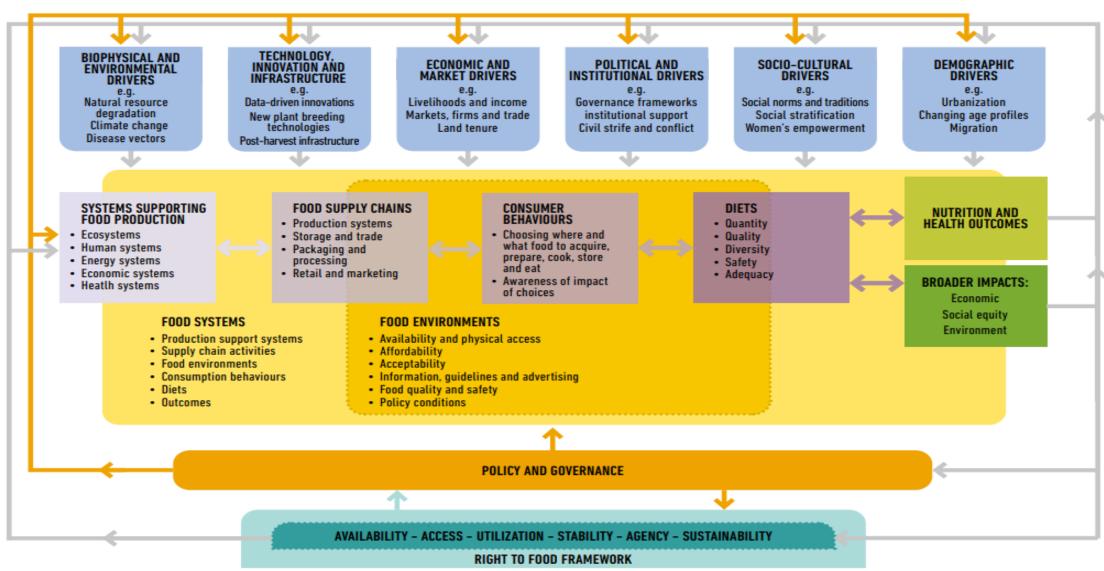
- The way in which foods are combined into diets over time
- Highly contextual
- Influenced by availability, affordability, preferences, culture, traditions, religion etc.
- May be motivated by social, environmental or other considerations of food production



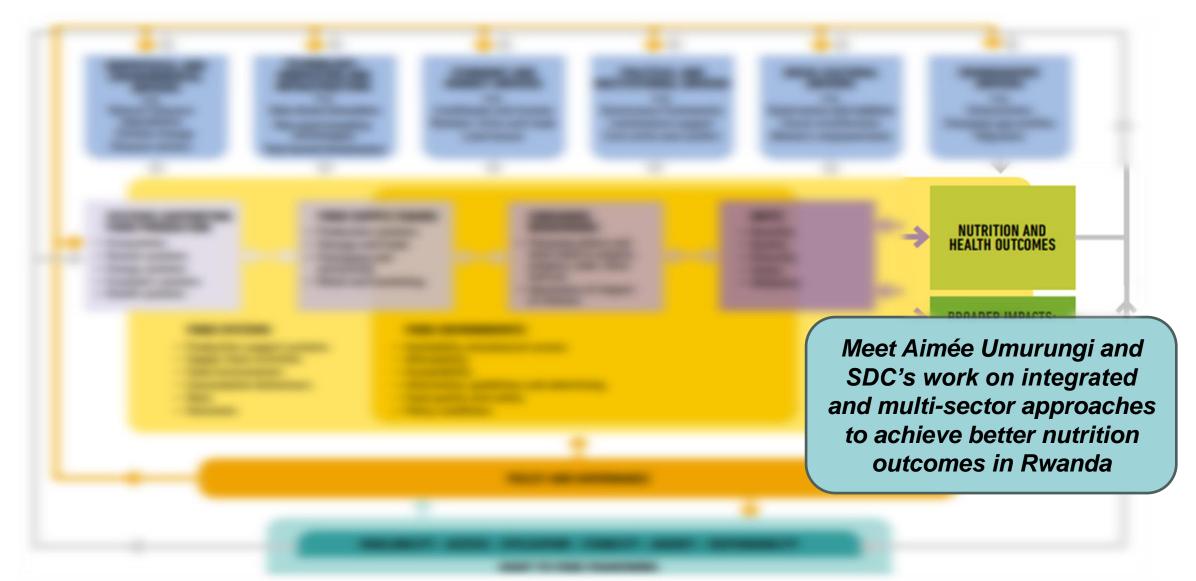
Used to develop contextually appropriate dietary recommendations, while incorporating environment and equity consideration and using a food systems approach

Meet Fatima Hachem and FAO's new methodology for development of Food Systems based Dietary Guidelines

Such data and resources should be central to informing actions for food systems transformation



Ultimately actions must come together to deliver results for better nutrition



Demand and supply focused actions are critical...

Better dietary choices

 Respecting the rich diversity of dietary patterns that are or can become healthy

Better production systems

- Environmentally sustainable
- Enabling healthy diets



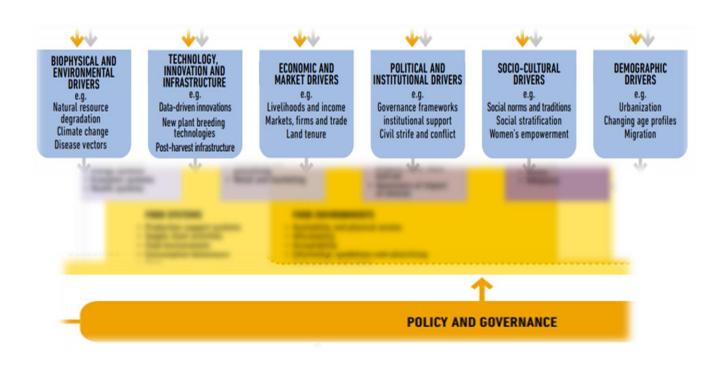
Meet Monique Beun and SNV's work to empower communities to diversity diets

....but must be underpinned by effective policy and governance

Policy and governance

 Must address contextual realities at macro and micro levels

> Meet Helen Prytherch and Swiss TPH's work on food systems governance in cities



E-learning modules on nutrition-sensitive agriculture and food systems:

- Nutrition, food security and livelihoods. Basic concepts
 - elearning.fao.org/course/view.php?id=194
- How to conduct a nutrition situation analysis
 - <u>elearning.fao.org/course/view.php?id=393</u>
- Improving nutrition through agriculture and food systems
 - <u>elearning.fao.org/course/view.php?id=307</u>
- Design and monitor nutrition-sensitive agriculture and food systems programmes
 - <u>elearning.fao.org/course/view.php?id=603</u>
 - Agrifood system pathways to healthy diets: A stepwise approach
 - https://elearning.fao.org/course/view.php?id=976
 - Sustainable Food Value Chains for Nutrition
 - https://elearning.fao.org/course/view.php?id=566

Additional e-learning modules available @ FAO E-learning Academy:

- Small and Medium Enterprises and Nutrition making the business case https://elearning.fao.org/course/view.php?id=725
- Small and medium enterprises and nutrition upgrading business models https://elearning.fao.org/course/view.php?id=816
- Food loss analysis case study methodology <u>elearning.fao.org/course/view.php?id=374</u>
- Building a common vision for sustainable food and agriculture elearning.fao.org/course/index.php?categoryid=28
- Agreeing on causes of malnutrition for joint action <u>elearning.fao.org/course/view.php?id=192</u>
- Food Composition Data <u>elearning.fao.org/course/view.php?id=191</u>
- Nutritional status assessment and analysis <u>elearning.fao.org/course/view.php?id=189</u>
- Enhancing participation in CODEX activities <u>elearning.fao.org/course/view.php?id=178</u>
- Home Grown School Feeding <u>elearning.fao.org/course/view.php?id=529</u>
- Linkages between food security, nutrition and social protection: An introduction to basic concepts and principles https://elearning.fao.org/course/view.php?id=874
- The ISPA-FSN tool: Assessing social assistance programmes for better food security and nutrition https://elearning.fao.org/course/view.php?id=875

Additional resources:

- FAO/WHO GIFT website for sharing dietary data: https://www.fao.org/gift-individual-food-consumption/en/
- FAO/WHO GIFT mini video: https://www.youtube.com/watch?v=qcqe6OpzqV
- Food composition mini video: https://youtu.be/TCF mFIX6BIE?feature=shared



FAO/WHO GIFT | Global Individual Food consumption data Tool





Additional resources:

- A global repository of around 100 dietary guidelines from the different regions: https://www.fao.org/nutrition/education/food-based-dietary-guidelines
- Regularly updated



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Food-based dietary guidelines

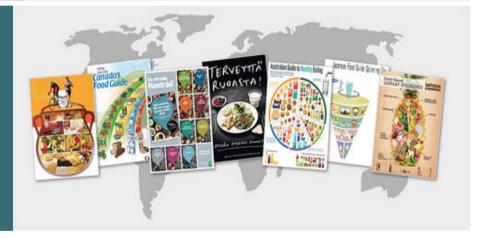


Background

Regions Resources

Capacity development

Food-based dietary guidelines (also known as dietary guidelines) are intended to establish a basis for public food and nutrition, health and agricultural policies and nutrition education programmes to foster healthy eating habits and lifestyles. They provide advice on foods, food groups and dietary patterns to provide the required nutrients to the general public to promote overall health and prevent chronic diseases.



FAO assists Member Countries to develop, revise and implement food-based dietary guidelines and food guides in line with current scientific evidence. FAO also carries out periodic reviews on progress made in the development and use of dietary guidelines, tracking changes in their overall focus and orientation.

More than 100 countries worldwide have developed food-based dietary guidelines that are adapted to their nutrition situation, food availability, culinary cultures and eating habits. In addition countries publish food guides, often in the form of food pyramids and food plates, which are used for consumer education <u>Read more</u>

Please note that individual country pages are only available in English.

Thank you

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