

# Food Systems For Health: The Nutrition Transition Some expériences from Sub-Sahara Africa

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#### Food for Thought; Did you know?

- Globally agriculture systems produce enough food to feed all citizens of the world adequately
- Yet hunger and malnutrition remain pernicious and a threat to humanity and development
- The most malnourished people in this world are farmers and their families, especially women and children
- 12 people die of hunger and malnutrition every minute (UNICEF) higher than other causes
- Malnutrition has huge human, social and economic consequences and costs GDPs suffer
- Food is very political and continues to be worsening!





# Agriculture production, Food Systems and Nutrition are intrinsically linked-Yet...

There are other systems to consider that include inter-alia

- Geopolitical
- Health
- Education
- Social Protection
- Gender and Youth
- Trade
- Culture and Knowledge Systems





### Why Nutrition?

- Adequate nutrition is essential for health and well-being
- Every person on this planet has a right to food that is safe, sufficient and nutritious and to be free from hunger and malnutrition in all its forms
- Yet, 1 in 3 persons globally suffers from at least one form of malnutrition undernutrition, micronutrient deficiencies, overweight and obesity
   Malnutrition is estimated to rise to 1 in 2 people if current trends continue (GLOPAN, 2016 Foresight Report)
- Different forms of malnutrition now co-exist within the same country, community, household or individual
- Combatting malnutrition in all its forms is one of the greatest challenges that countries are facing







#### Why focus on nutrition even more now?

The status of hunger, malnutrition and poverty is worrisome

- Complexities of the current crises;
  - Conflicts in Africa and beyond Ukaine
  - Climate change
  - Cost of food
  - COVID-19
  - Cost of fuel
  - \*\*\*Coordination, Cooperation and Collaboration across multiple sectors.







#### What are we really dealing with here?





### MALNUTRITION is a global problem

BILLION

adults are overweight or obese

BILLION

people suffer from some form of micronutrient deficiency

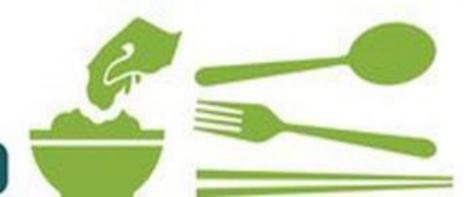
161 Million children under the age 5 are too

short for their age

Million people do not get the food they need to live a healthy life

**UNHEALTHY DIETS** 

are one of the leading causes of global malnutrition





### Visualizing the multiple burden of malnutrition





- 143 countries ( ere there is data) experience at least one form of malnutrition at high levels
- 124 countries en prience high levels of at least two forms of malnutrition
- Of the 124 countries, **37 experience high levels of all three forms of malnutrition**, mainly in Africa



## 30 out of 41

countries that struggle with high levels of all three forms of malnutrition are in Africa

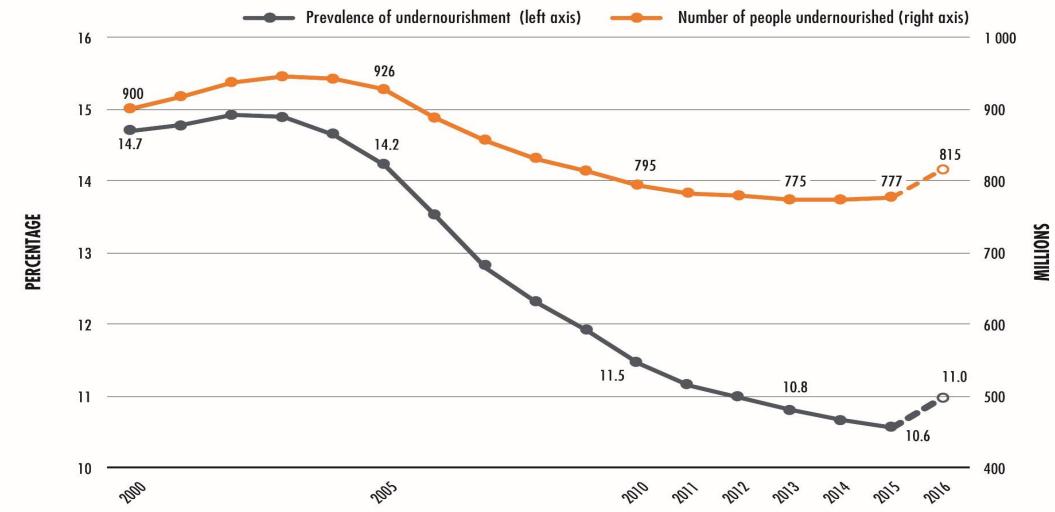
globalnutritionreport.org

Coexisting burdens of malnutrition affect millions of children, increasing their risk of poor health outcomes.

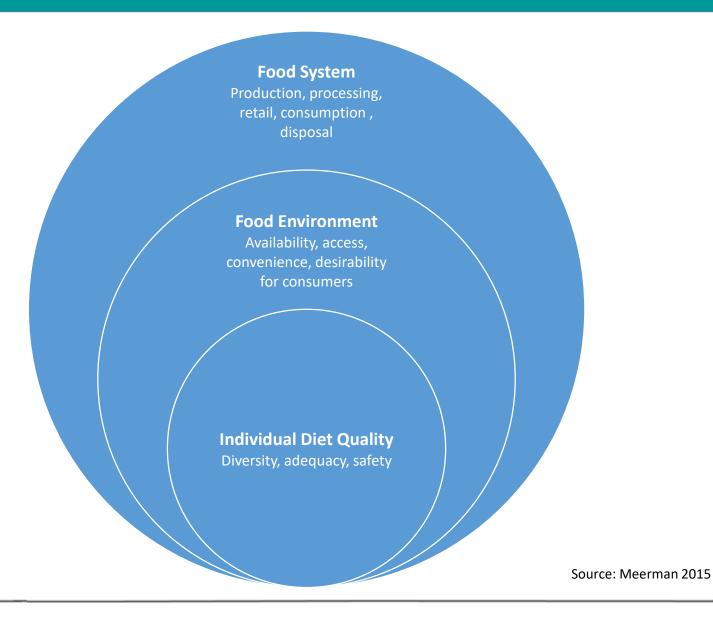




### GLOBAL NUTRITION SITUATION After a long decline, hunger is increasing



### HEALTHY DIETS ARE NOT THE DEFAULT Food environments are shaped by food systems





Low quality diets contribute to all forms of malnutrition

The food system presents a huge opportunity to act to improve diets

While the GLOBAL FOOD SYSTEM has succeeded in feeding a growing population in terms of providing enough dietary energy...

Ensuring availability and accessibility of a variety of foods and food products that contribute to healthy diets and good nutrition remains a challenge

Food systems need to be repositioned: from feeding people to nourishing people well

**GLOPAN**, 2016





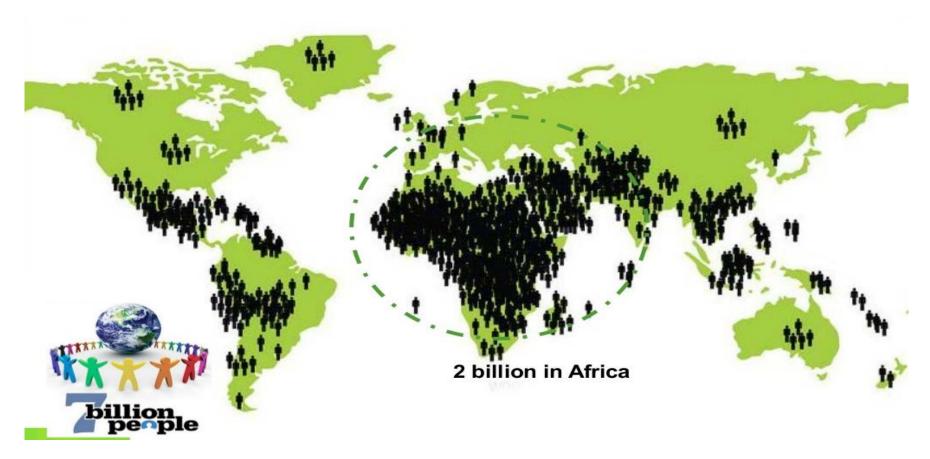
### Global Food Systems: Where we are and how we got here?





#### Agriculture faces growing challenges

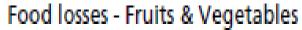
**Demographics**: Global population to increase to 9 billion by 2050

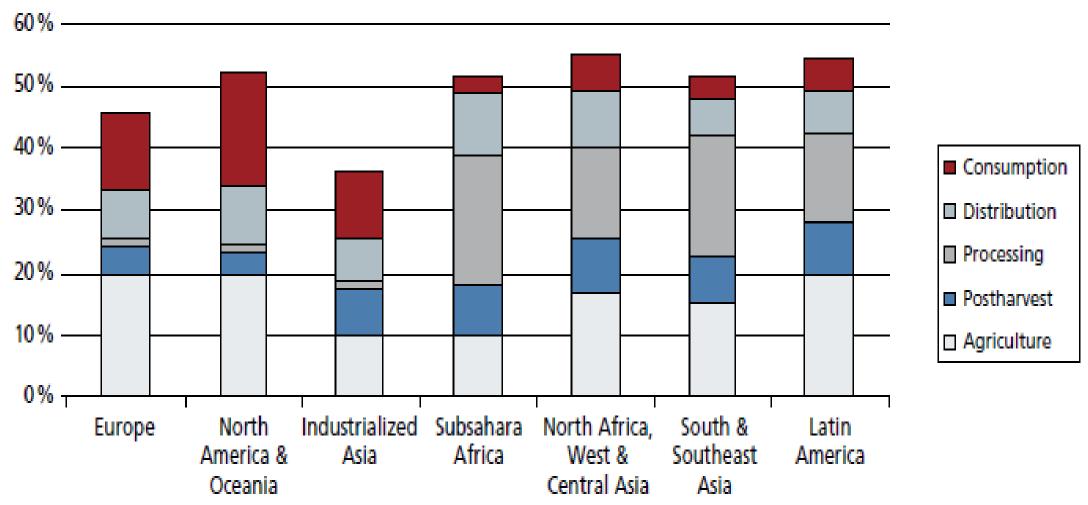


• Climate change: Depending on extent of temperature rise, Africa risks being able to produce only 13% of its food needs by 2050



#### Extent of food losses and waste







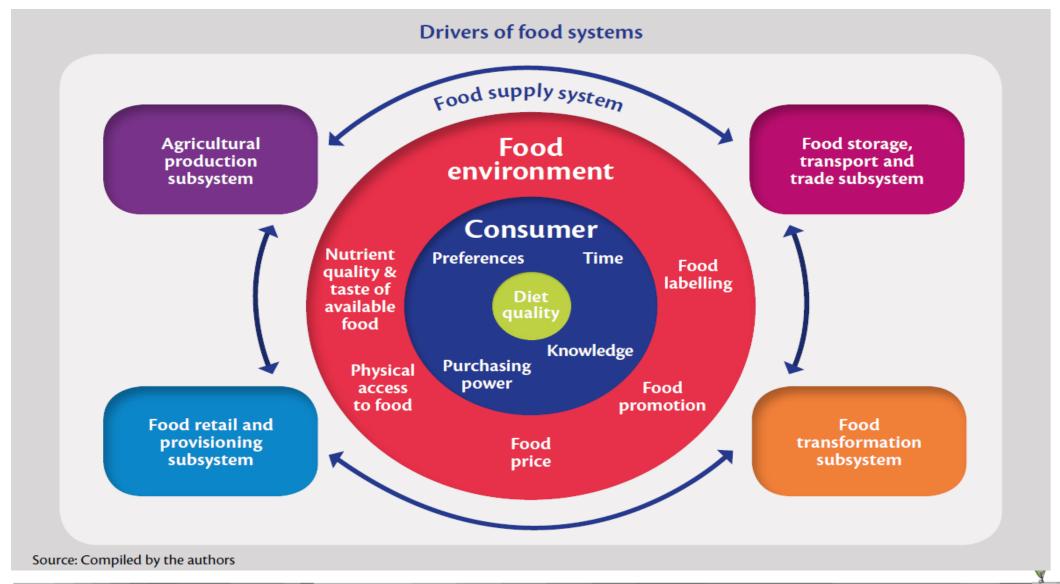


# Ways to address nutrition across the food Systems





### Links between diet quality and food systems (source: Global Panel, 2016)

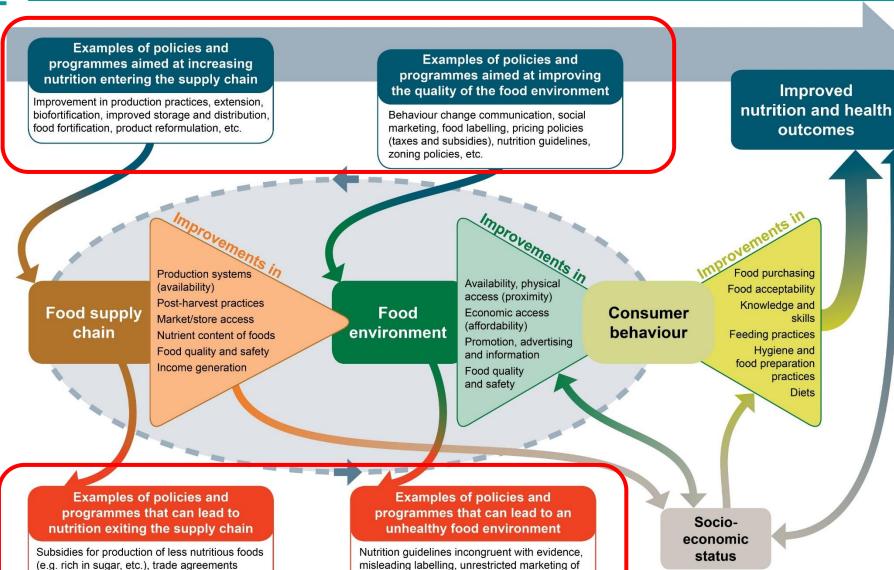




that limit 'policy space' for policies aimed at

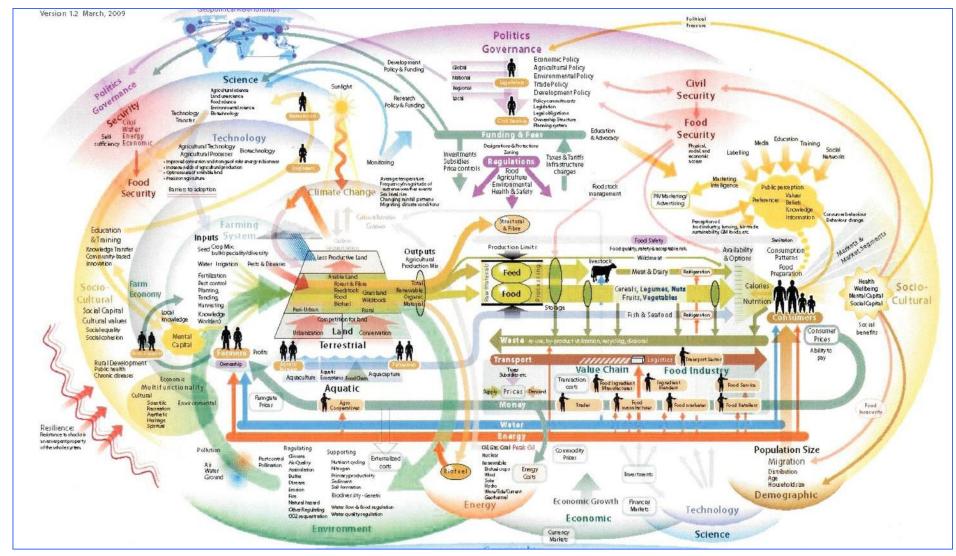
improving nutrition, etc.

### MUSE Improved food systems for better diets and nutrition od & Health



food and beverages to children, etc.

### HEALTHY DIETS ARE NOT THE DEFAULT Food environments are shaped by food systems





#### The actors — Across various pathways

- Policy makers
- Parliamentarians
- Programme implementors
- Farmers/Farmer Associations
- Community Leaders
- Private sector (processing etc.)
- Civil Society
- Media (advocacy, communicators)

Scientists

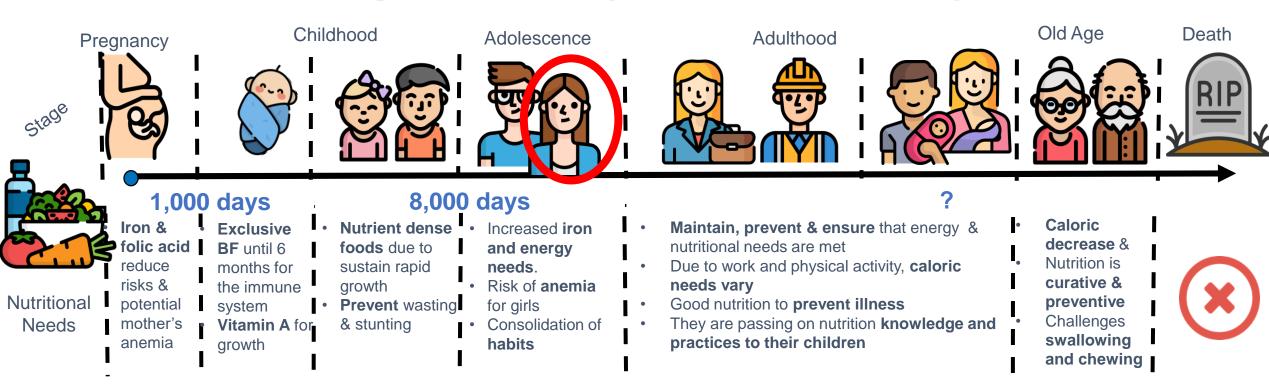
Researchers
Influencers (from science to



#### **Nutrition from womb to tomb**

**KIM Food & Health** 

### Requirements for **energy and micronutrients change throughout the life cycle: Horticulture is key!**



**Nutritional** 











#### NUTRITION OBJECTIVES IN AGRICULTURAL POLICIES AND PROGRAMS. Food & Health

### INCREASING AVAILABILITY AND AFFORDABILITY OF NUTRITIOUS, HIGH QUALITY FOOD











### Maintaining agro-biodiversity of traditional food systems is key























### Some Current ongoing Initiatives

- CAADP Maputo 2005 (6% Ag growth and 10% budget)
- CAADP Malabo Declaration
- ICN2 Rome Declaration and 17 Action Areas
- 2019 CFS Voluntary Guidelines on Food Systems and Nutrition
- 2021 UN Food Systems Summit
- 2021 Africa Common Position on Food Systems and Nutrition
- 2022 Africa Year of Nutrition
- Pan African Parliament



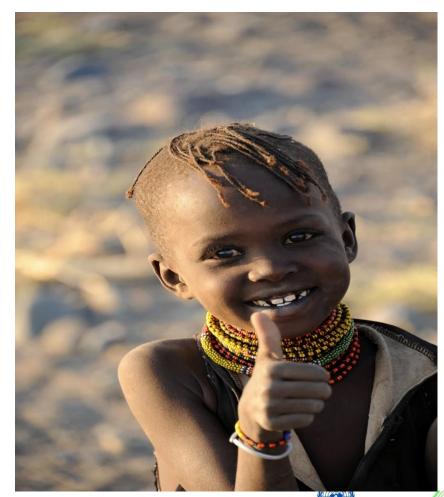


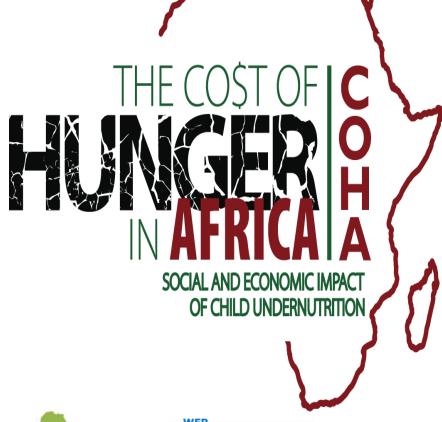
### Programmes, Projects & Guideline SIM Food & Health

- Home Grown School Feeding Programmes (over 40 Countries implementing)
- Food Safety, Standards and Regulation
- Fortification and Biofortification
- Maternal and Child Nutrition (1st 1000 Days and 8000 Days)
- Overweight, Obesity and Non-Communicable Diseases
- Communicable Diseases; COVID-19, HIV/AIDS, TB, Malaria, Ebola
- Policy and Advocacy
- Public Consumer Nutrition Education and Media Engagement













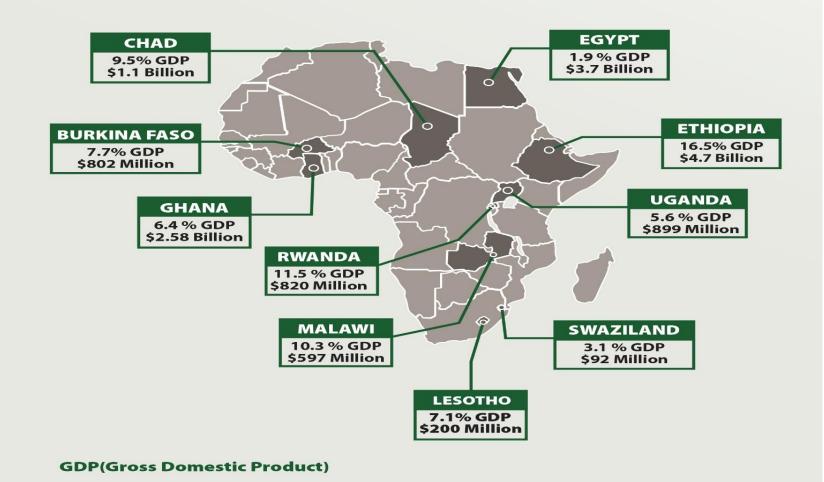








### ECONOMIC IMPACT OF CHILD UNDERNUTRITION





#### Health costs of undernutrition

Country	Total Health Cost in Millions (USD)	% GDP
Burkina Faso	122	1.17
Chad	340	2.78
Democratic Republic of Congo	229	0.59
Egypt	213	0.11
Eswatini	7	0.24
Ethiopia	155	0.55
Gambia (The)	6	0.40
Ghana	199	0.49
Guinea Bissau	17	2.30
Kenya	212	0.34
Lesotho	4	0.15
Madagascar	169	1.59
Malawi	46	0.80
Mali	17	0.15
Mauritania	6	0.11
Mozambique	188	0.63
Niger	60	0.80
Rwanda	106	1.49
Sudan	800	1.03
Uganda	259	1.62
Zimbabwe	72	0.50
Total	3,227	

The treatment of undernutrition and related illnesses is a critical recurrent cost to health systems.

It is estimated that 24.5 million clinical episodes in the 21 Member States that have undertook the study, were associated with the higher risk present in undernourished children resulting an estimated cost of about USD 3.2 billion.

A large proportion of costs related to undernutrition are borne by families (USD 1.84 billion) while the cost to the health system amount to about USD 1.39 million bringing the total health cost to about USD3.2 billion.

Source: Model estimations based on 21 Member States that undertook the study



#### Total costs of undernutrition

Country	Productivity	Education	Health	% of GDP
Burkina Faso	\$ 743	\$ 1.73	\$ 122	8.3%
Chad	\$ 804	\$ 18	\$ 340	9.5%
DRC	\$ 1,467.51	\$ 74.21	\$ 228.86	3.9%
Egypt	\$ 3,423	\$ 49.22	\$ 213	1.9%
Ethiopia	\$ 4,538	\$ 7.92	\$ 155	16.5%
Ghana	\$ 2,376	\$ 8.30	\$ 199	6.3%
Lesotho	\$ 184	\$ 11.74	\$ 4	6.5%
Madagascar	\$ 1,353	\$ 11.43	\$ 169	12.8%
Malawi	\$ 537	\$ 13.86	\$ 46	10.3%
Mali	\$ 416.29	\$ 17.76	\$ 16.85	4.1%
Mauritania	\$ 750.31	\$ 1.47	\$ 6.46	13.5%
Mozambique	\$ 1,390.85	\$ 41.62	\$ 188.15	5.4%
Rwanda	\$ 710	\$ 3.87	\$ 106	11.5%
Swaziland	\$ 84	\$ 0.70	\$ 7	3.1%
Uganda	\$ 647	\$ 9.68	\$ 259	5.7%
Zimbabwe	\$ 1,569.89	\$ 12.58	\$ 72.23	11.5%
Niger	\$ 478.46	\$ 1.40	\$ 59.78	7.1%
Gambia (The)	\$ 70.20	\$ 0.02	\$ 5.92	4.6%
Kenya	\$ 4,004.59	\$ 36.78	\$ 211.79	6.9%
Guinea Bissau	\$ 52.30	\$ 0.96	\$ 17.30	9.4%
Sudan	\$ 1,191.03	\$ 24.31	\$ 800.14	2.6%
Total (In millions)	\$ 26,791.54	\$ 347.84	\$ 3,227.90	\$30,367.28

The methodology is used to analyse the impact of child undernutrition in different stages of the life cycle, without generating overlaps. As a result, the individual sectoral costs can be aggregated to establish a total social and economic cost of child Undernutrition.

• In the 21 Member States, the total losses of undernutrition is estimated at approximately **USD 30,4 billion**.

The largest share of productivity loss is as a result of **reduced productivity** 

In the respective reference years, these losses varied from 1.9% of GDP (Egypt) to 16.5% of GDP (Ethiopia)



### The 2030 Agenda for Sustainable Development: KIM Food & Health "...We pledge to leave no one behind"

### SUSTAINABLE G ALS



































Goal 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture

Goal 3: Ensure healthy lives and promote well-being of all at all ages





#### Nutrition is central to the SDGsKIM Food & Health

Nutrition as a direct objective

Nutrition as an enabler for related goals

Nutrition as an enabler for all goals







#### **SDG** Vision for nutrition:

End all forms of malnutrition, address the nutritional needs throughout the lifecourse, give universal access to safe and nutritious food sustainably produced and ensure universal coverage of essential nutrition actions.





#### Agenda 2063 – The Africa We Want

"Agenda 2063 is a strategic framework for the socio-economic transformation of the continent over the next 50 years. It builds on, and seeks to accelerate the implementation of past and existing continental initiatives for growth and sustainable development."





### Developing Trends in Diets in Africakim Food & Health

- Still a lot of Focus on staple cereals, roots and tubers (high carb diet)
- Not enough Livestock, Fish and Acquaculture products
- Not enough Horticulture consumption (esp. Fruits and Vegetables)
- Consumption of products from the wild e.g. crickets, carterpillars, termites, grasshoppers etc., leafy vegetables, fruits etc.

#### Highly processed foods;

- High in Sugar
- High in Saturated fats
- ❖ High in Salt
- High in addatives and preservatives





### What about the links between income and nutrition?

- Better economic monetary income DOES NOT Equal
- Better food security DOES NOT Equal

Better and improved nutrition

\*\*\*Vulnerability and risk mitigation and to hunger and food insecurity:

Reduced food intake, less number of meals, and compromised meal quality leading different forms of malnutrition, ill health and low productivity.

A combination good food systems and social protection can be a real game changer!







### The Importance of Data and information

Cost of Hunger in Africa

Cost of Nutrition

Filling the Nutrient Gap

 Household Food Security Access Scale

 Global Dietary Quality (Gallup, Harvard University and GAIN)

Other innovative tools





#### Where to next? A holistic approach is required... KIM Food & Health

- Working with the entire agriculture and food systems+
- Multi-sectoral and inter-disciplinary approach, with links to health systems, education, and social protection
- Policy coherence between agriculture, food, health, trade, education, social protection, youth, gender, environment etc.
- Increased investments for food systems and nutrition programming
- Capacity building at all levels and across sectors
- Continued advocacy by all to all
- Telling good stories for impact: good stories are usually not well covered in the news.
- Agriculture taking centre stage for optimum nutrition beyond quantity
- Promoting good governance for food systems and nutrition
- Holding ourselves (individually and collectively) to account





# We Need Functional and Effective Agro-Food Systems to Deliver

- Healthy Diets
- Healthy People
- Productive Populations
- Healthy Planet





### Thank You!

Food Systems and Nutrition: Putting people at the heart of our work









### Questions and Comments Welcome!

