

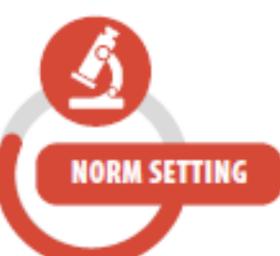


# ABOUT US

The Nutrition and Food Safety (NFS)
Department is addressing the burden
of disease from physical, chemical and
microbial hazards in food and
unhealthy diets, maternal and child
malnutrition, overweight and obesity.

Joint FAO/WHO Expert Committee on Food Additives (JECFA), Joint FAO/WHO Meeting on Pesticide Residues (JMPR), and Joint FAO/WHO Expert Meetings on Microbiological Risk Assessment (JEMRA).

















Food systems transformation for better nutrition and health







Food systems affect health in many ways. For example, worldwide 690 million people are hungry, 2 billion people have micronutrient deficiencies and there are 677.6 million adults with obesity; each year **zoonoses** are responsible for **2.5** billion cases of human illness and 2.7 million human deaths worldwide; at least 700 000 people die due to drug-resistant diseases; 44% of farmers are poisoned by pesticides; and at least 170 000 agricultural workers are killed.







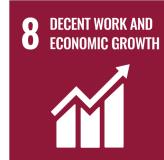














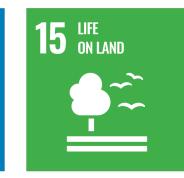
















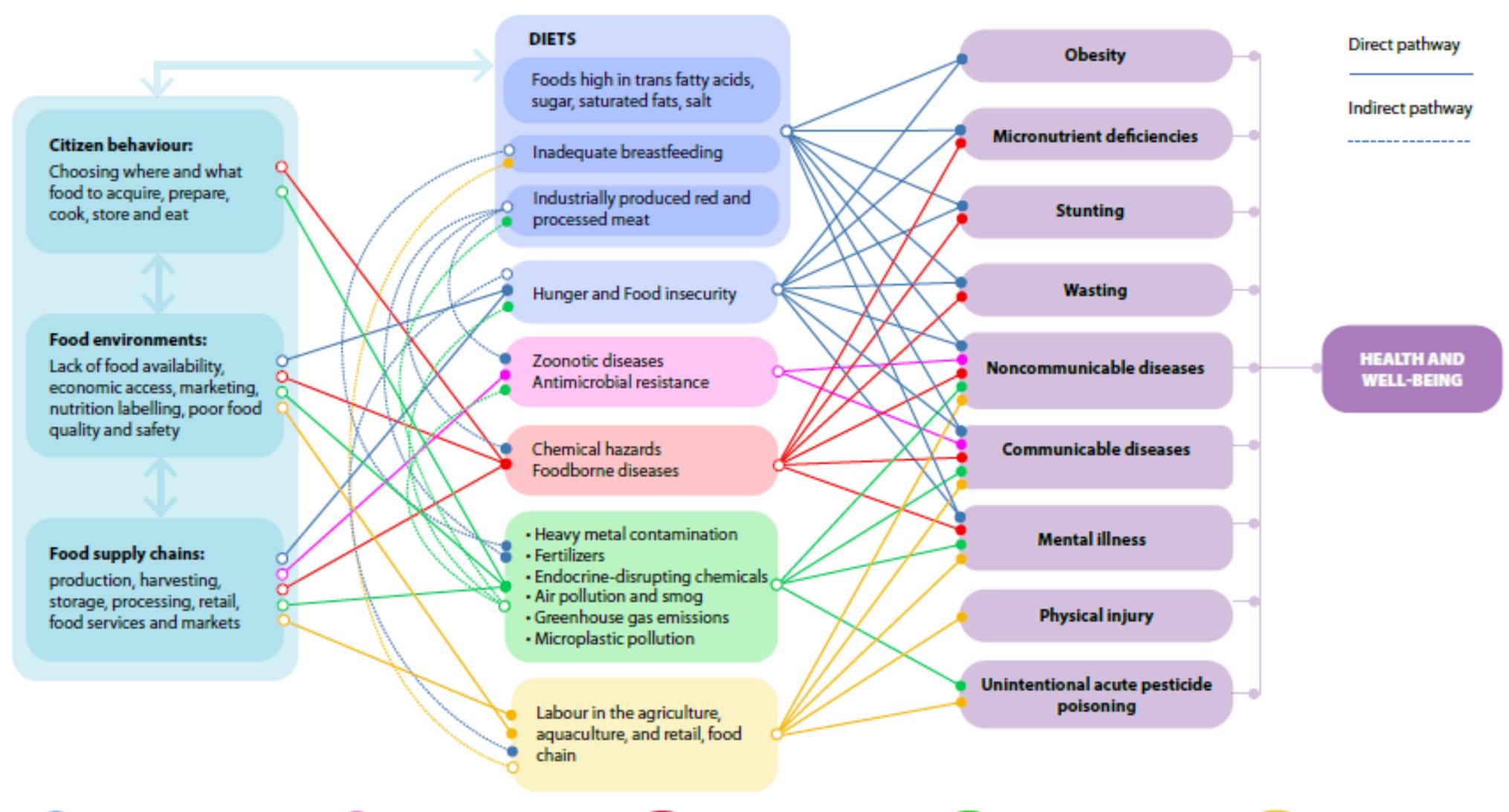


### MALNUTRITION

Malnutrition in all its forms is a leading cause of death and disability worldwide, undermining social and economic development, and disproportionately impacting on the world's most vulnerable populations. No country is immune.

Today, 3.1 billion people cannot afford a healthy diet (SOFI, 2022)

#### POOR HEALTH OUTCOMES



PATHWAY 1

Unhealthy diets and food insecurity



**PATHWAY 2** 

Zoonotic pathogens and antimicrobial resistance (AMR)



PATHWAY 3

Unsafe and adulterated foods



PATHWAY 4

Environmental contamination and degradation



PATHWAY 5
Occupational hazards

Current trends in food production and consumption are causing the ecosystems which support humanity to collapse. But it is possible to make the shift to a more sustainable food system; all it needs is political will, and science and evidence-based action.



Significant dietary changes will be necessary to transition to sustainable healthy diets



More sustainable agriculture practices



Decreasing food waste



Circular economy



More sustainable farming practices



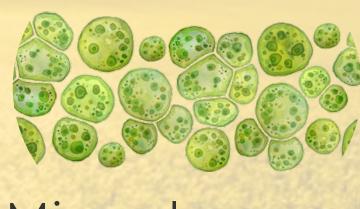
Plant based food



meat produced in bioreactors



Insects



Microalgae

SCIENTIFIC EXCELLENCE



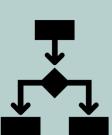
TRANSPARENT



INCLUSIVE

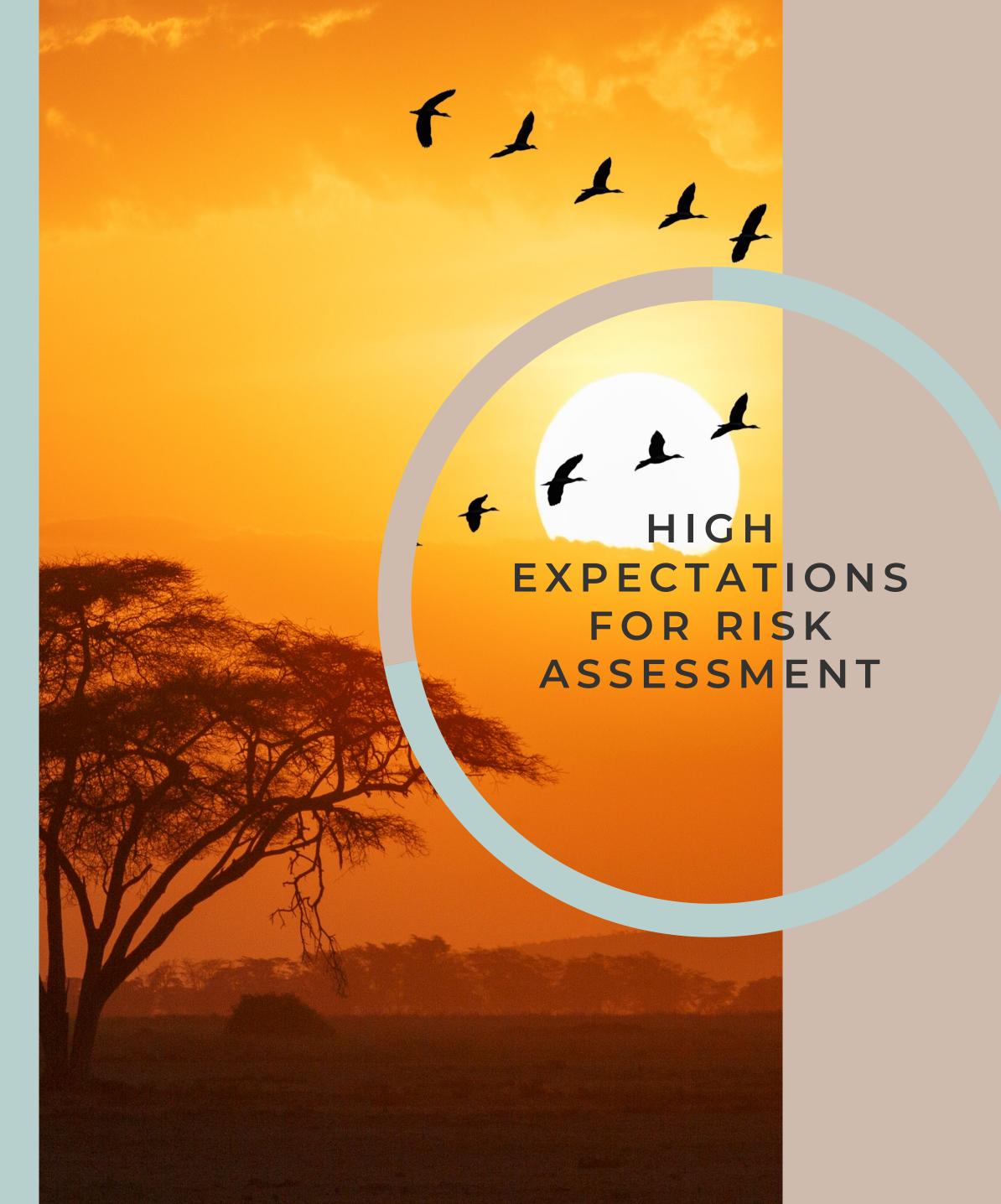


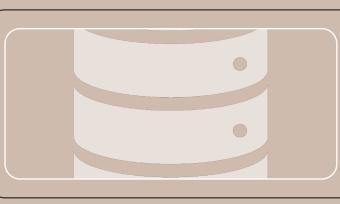
**OPERATIONAL** 



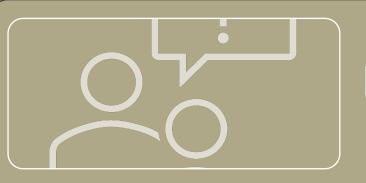
RAPID RESPONSE



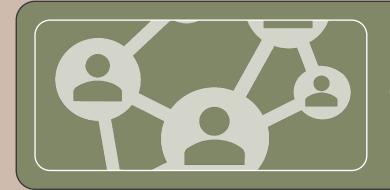




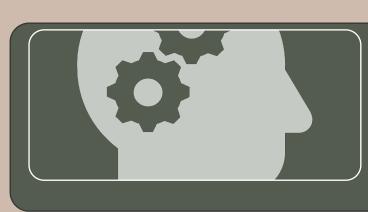
### Data Access and Sharing



Uncertainty & Strength of Evidence



Cross-disciplinary approaches



Scientific Experts



Increased complexity



CHALLENGES



INFORMED DECISIONS

### DATA-DRIVEN

The capacity to collect, process and draw relevant conclusions from different sources data is vital to developing effective policies..



"Today's speaker is an expert on distribution."

# "IF WE HAVE DATA, LET'S LOOK AT DATA. IF ALL WE HAVE ARE OPINIONS, LET'S GO WITH MINE." Jim Barksdale CEO of Netscape Communications

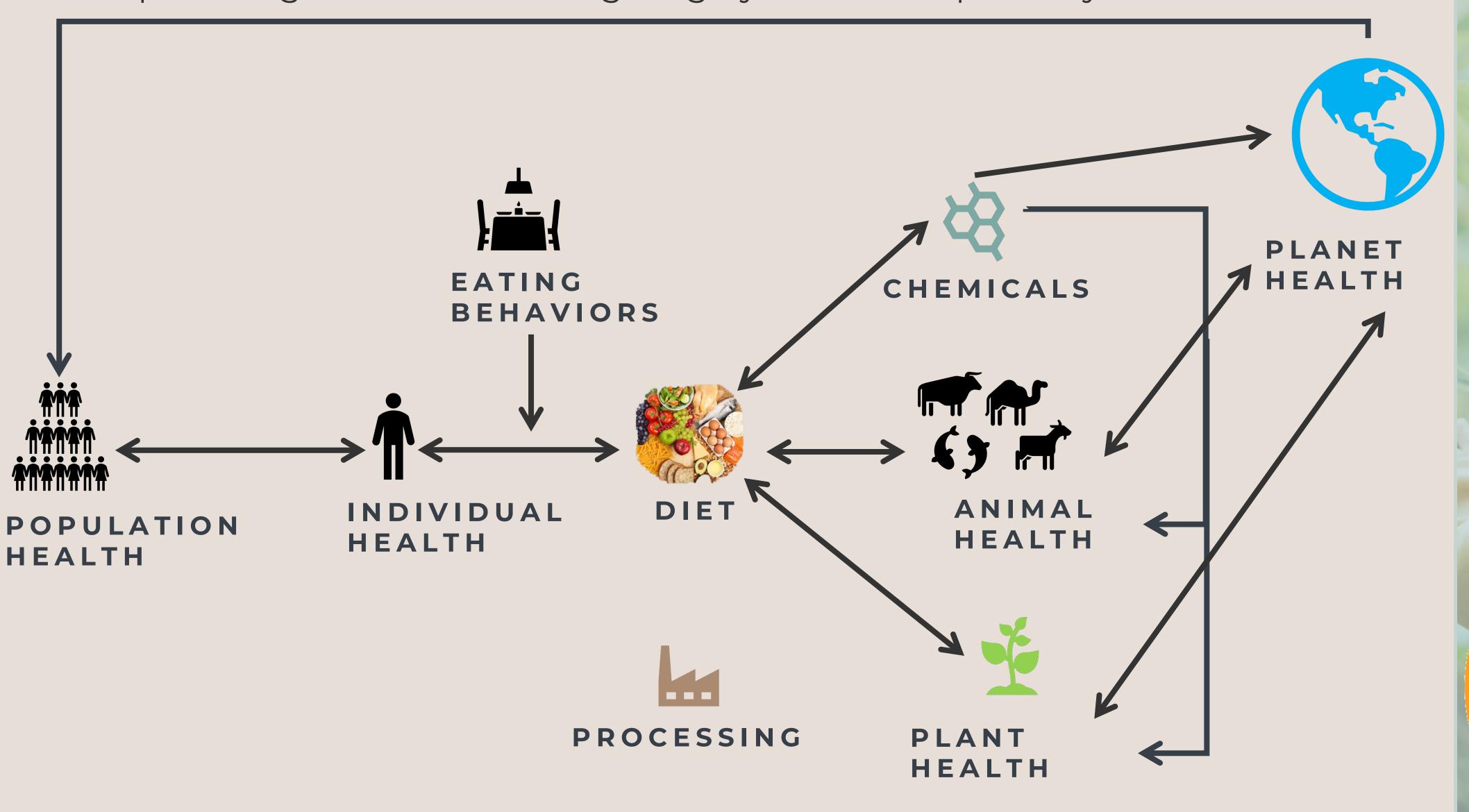


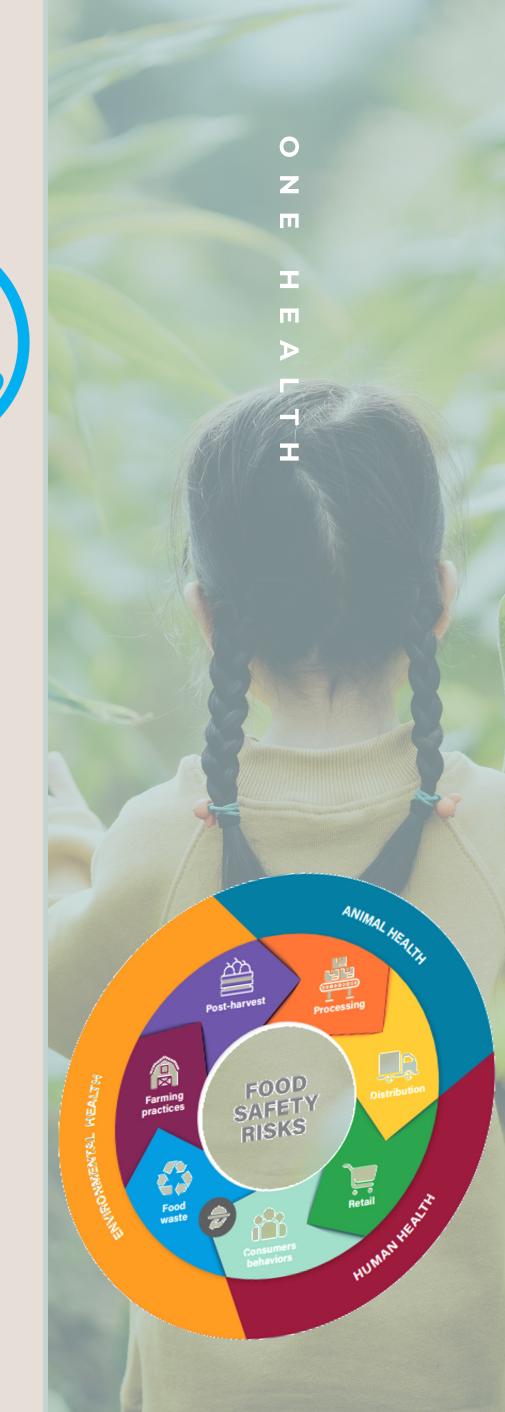
SAFER AND HEALTHIER FOOD

#### HEALTHY DIET

- HIGHEST LEVEL OF HEALTH AND WELL-BEING
- HEALTHY GROWTH AND DEVELOPMENT
- PREVENTS NON-COMMUNICABLE DISEASES
- PREVENTS FOODBORNE DISEASE
- PROMOTES WELLBEING (culturally acceptable, social relations, mental health)

Global health impact of diet. Individual diet choices can collectively impact all aspects of global health through highly connected pathways



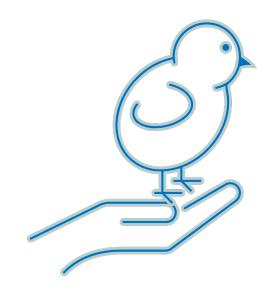




# The Promises of Cell Culture-Derived Foods and Food Ingredients













Nutritious and healthy

**Animal Welfare** 

**Sustainable** production

**Food Safety** 

Consumer Experience

Existing frameworks struggle to strike a balance between health, safety and the environment, as well as food innovation.

Current global diet\* 18% 20% 7% 1% 5% 4% The change in die profile requires Global shifts in food consumption and diet 00 000 towards healthy and sustainable diets Total = 2503one-third Sustainable healthy diets recommendations 60% 86% Producing **a kilogram** of beef takes an average of Roots, tubers Fruits and Dairy and eggs Fis 15,415 litres and pulses vegetables (excl. butter) Integrated Approach to Risk Benefit Assessment

# Global Risk Assessment Forum

The GLORIA will be a platform for organizations which provide risk assessment/science advice on food and nutrition to share information and work on the development of innovative scientific methodology and best practices for assessing risk or benefit to humans

WHO is willing to hold the GLORIA Forum, which will bring together scientists and experts from a variety of fields to discuss current and future problems and concerns in risk assessment, as well as to develop consensus proposals for improving the process.

and the environment.



# THANKS

Moez SANAA PRESENTATION