



Food and Agriculture
Organization of the
United Nations

SUSTAINABLE
DEVELOPMENT
GOALS



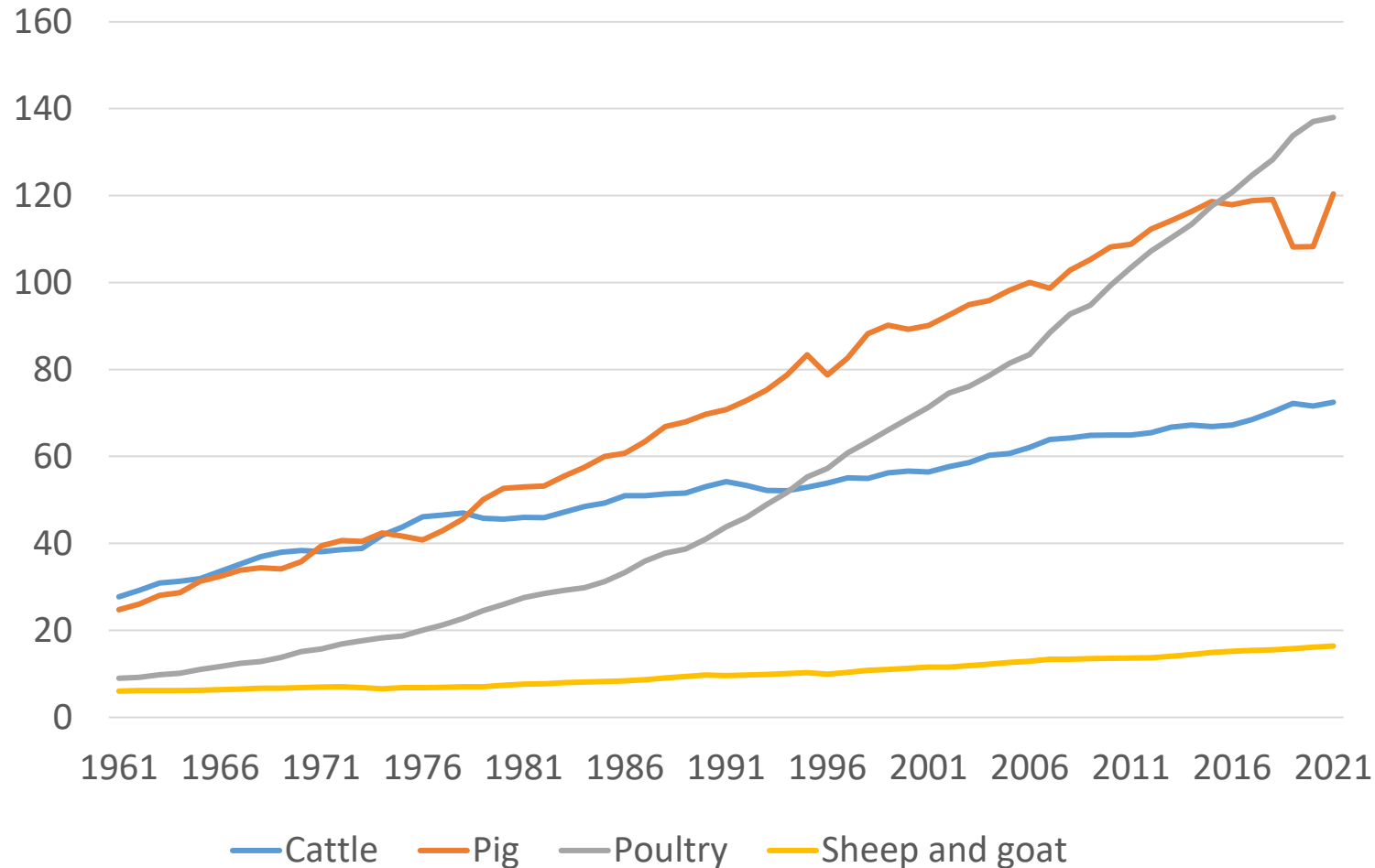
ONE FAO – ONE HEALTH – ONE LIVESTOCK



FAO's work on Animal Production & Health: Sustainable Livestock Transformation Initiative

Julio Pinto
Animal Health Officer
Animal Production and Health Division

Global meat production growth



Source: FAO, 2023

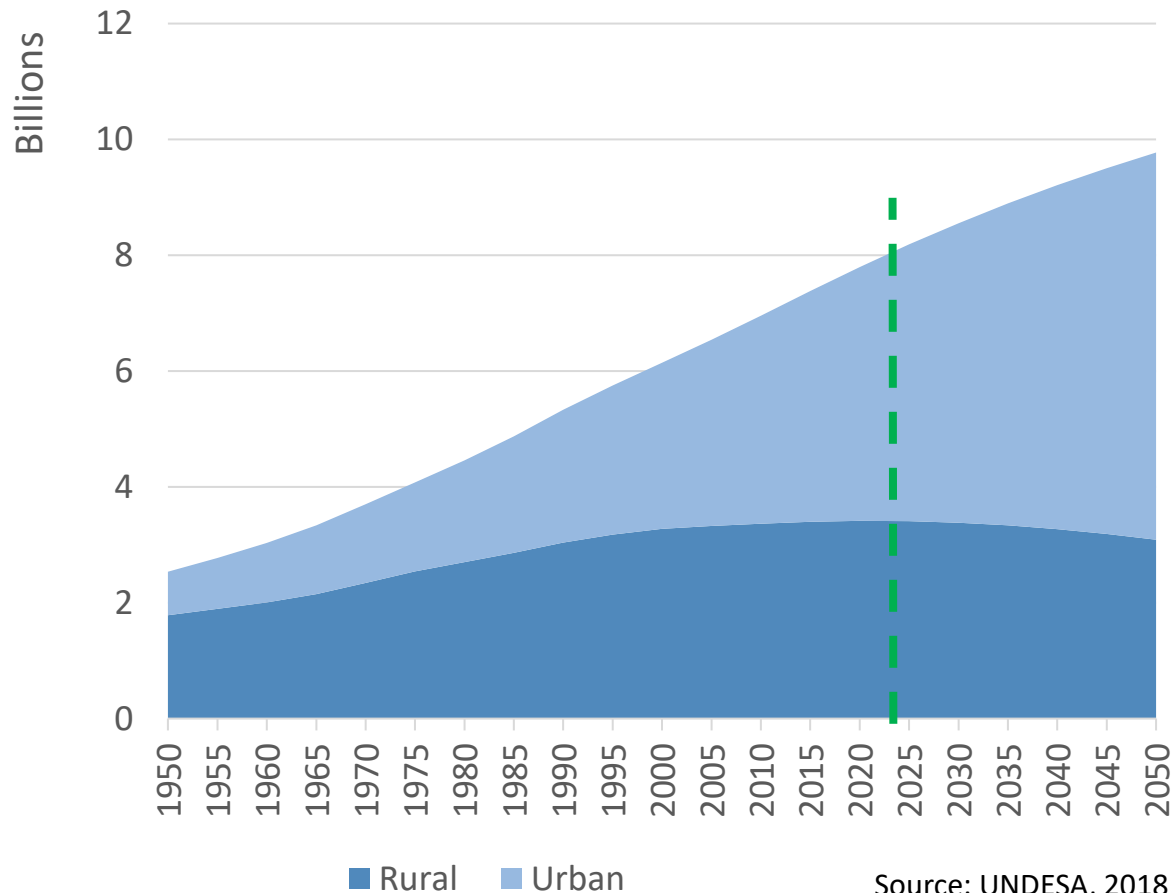
Global average annual growth rate in production 1970 — 2020

Beef and buffalo meat	+1.2%
Pig meat	+2.3%
Poultry meat	+4.5%
Sheep and goat meat	+1.7%
Eggs	+3.1%
Cow milk	+1.4%

Source: FAO, 2022

Trends towards 2050

Population growth

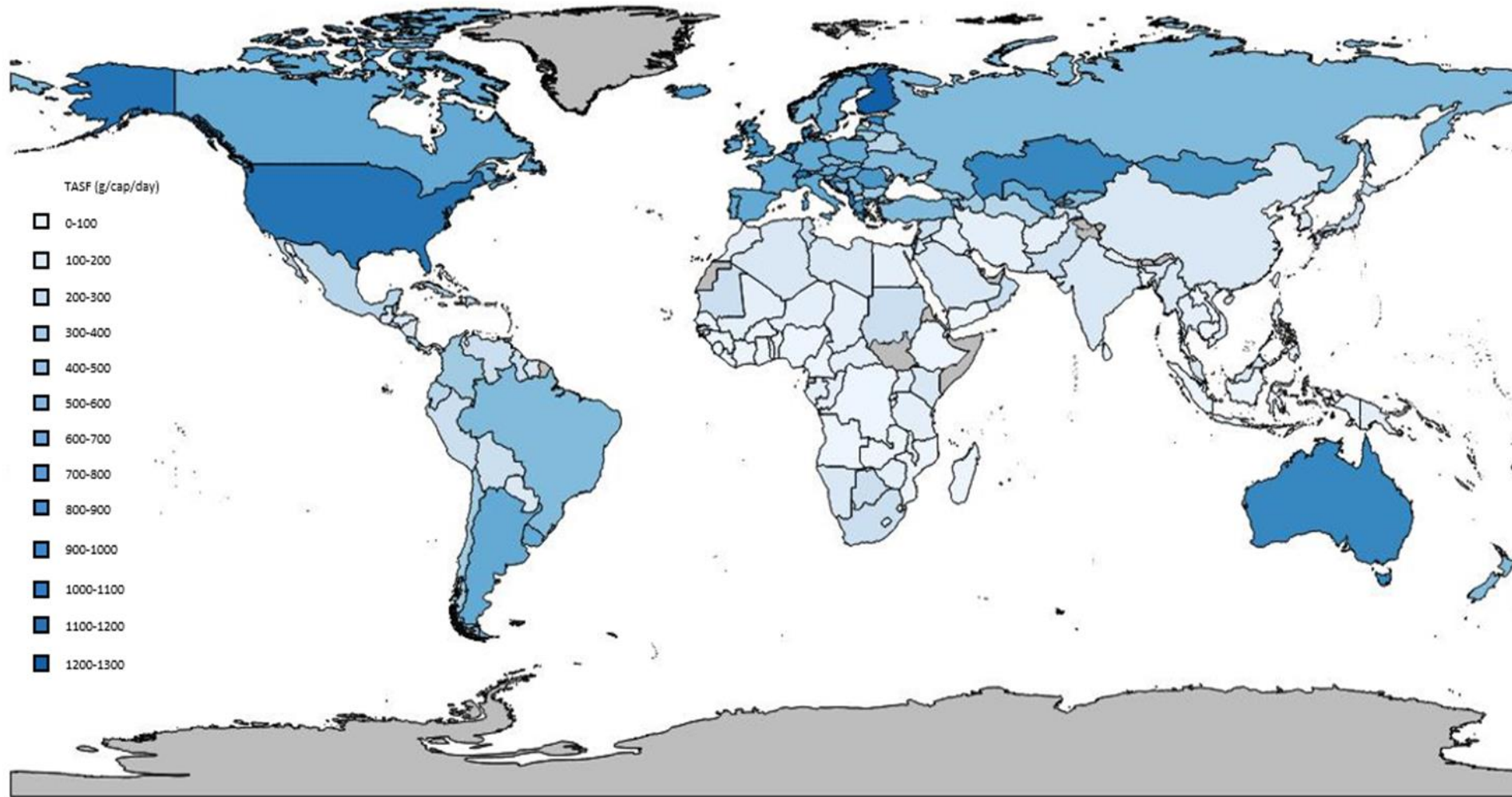


Meat production & consumption (2012-2050)*

Regions	Consumption	Production
High-income countries	+26%	+28%
Low- & middle-income countries	+66%	+65%
Sub-Saharan Africa	+200%	+336%
South Asia	+100%	+80%
Latin America and Caribbean	+44%	+52%

*Under a business-as-usual scenario (FAO, 2018)

Terrestrial animal source food (TASF) availability in national food supplies

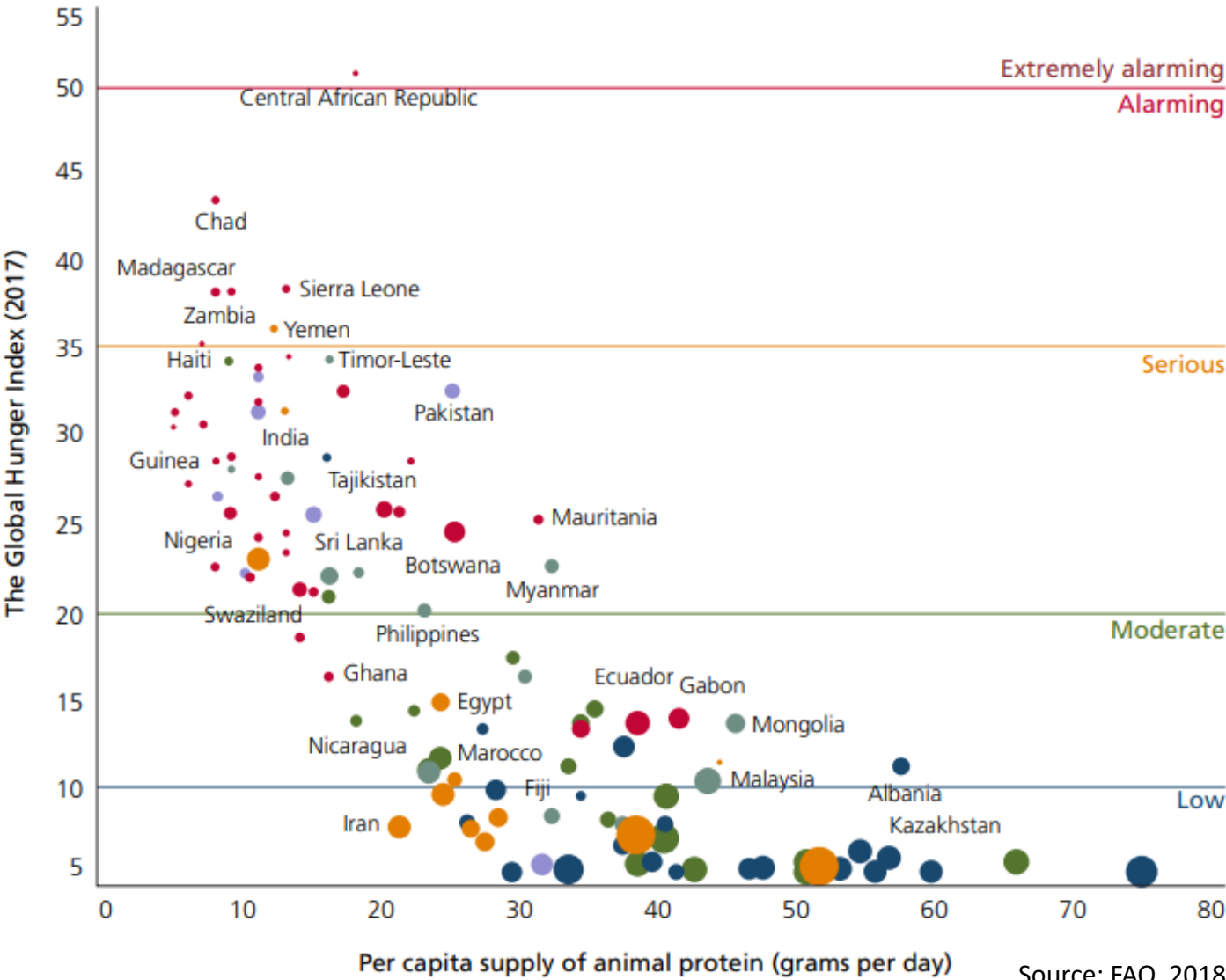


Average TASF in world food supply is 383 (g/cap/day).

TASF include: bovine meat, mutton and goat meat, pig meat, poultry meat, meat other, eggs & milk-excluding butter.

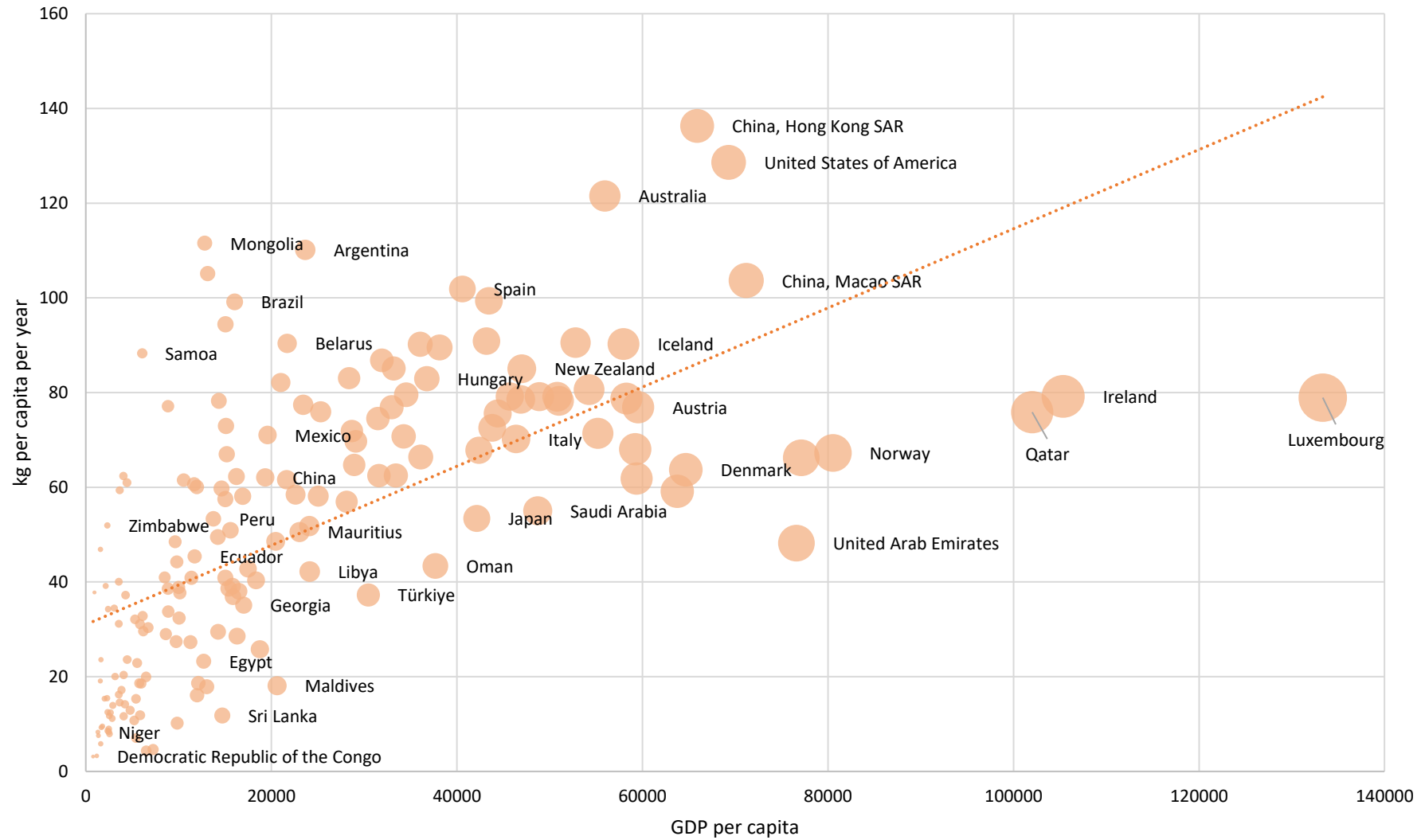
Source: Source: FAO, 2021

Consumption of animal protein and food insecurity



Source: FAO, 2018

Meat supply and GDP

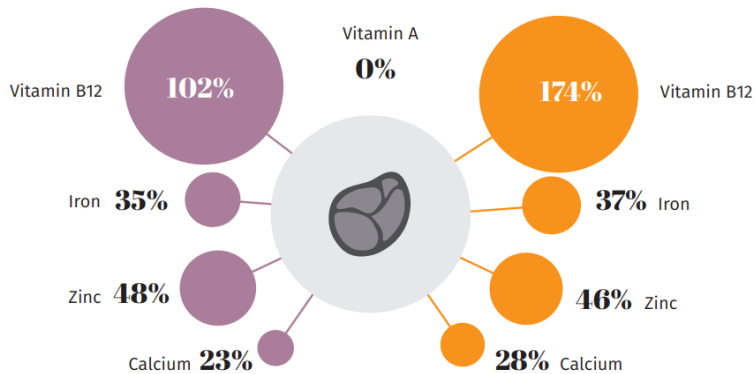


Source: FAO, 2023 (upcoming)

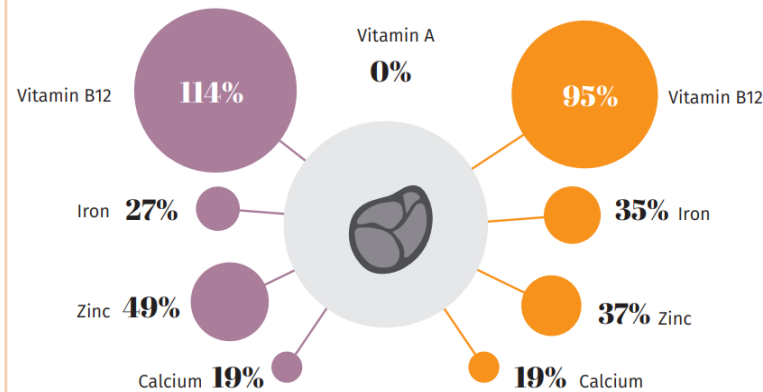
Meat contributes to recommended nutrient intakes

A serving of 100 grams of meat provides

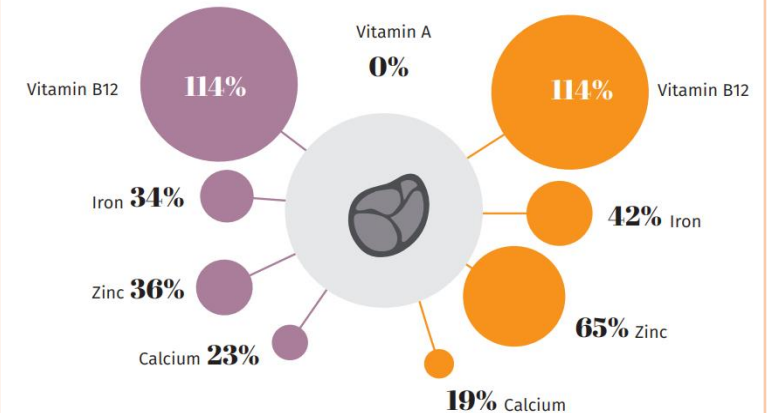
Pregnant and lactating women & infants and young children



Adolescents & School-age children



Adults and older adults



Source: [Animal source foods contribute to healthy diets over the life course \(fao.org\) \(1\)](#); [Animal source foods contribute to healthy diets over the life course \(fao.org\) \(2\)](#); [Animal source foods contribute to healthy diets over the life course \(fao.org\) \(3\)](#)

Meat is rich in iron, a micronutrient essential to life

- Iron deficiency can cause lower cognitive development in children and extreme fatigue in adults
- **More than 1 in 10 people** in the world suffer from iron deficiency

How to prevent iron deficiency?

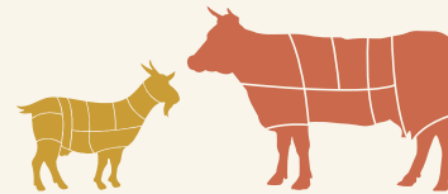


Dietary iron helps to curtail iron deficiency anaemia, especially through **meat** supplementing diverse plant-based diets



Dietary iron improves nutrition and reduces prevalence of anaemia (SDG 2.2.3)

Why is meat a key solution?



A serving of meat contributes to the daily intake recommendation of iron



Heme iron is only found in meat and organ meat, and it is absorbed 2 or 3 times more than non-heme iron (the only iron form found in plant-based foods)



When meat is included in the meal, it increases absorption of iron contained in plant foods



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FAO Global Conference on
Sustainable Livestock Transformation
25-27 September 2023

Outcomes from the FAO Global Conference on Sustainable Livestock Transformation 25-27 September 2023



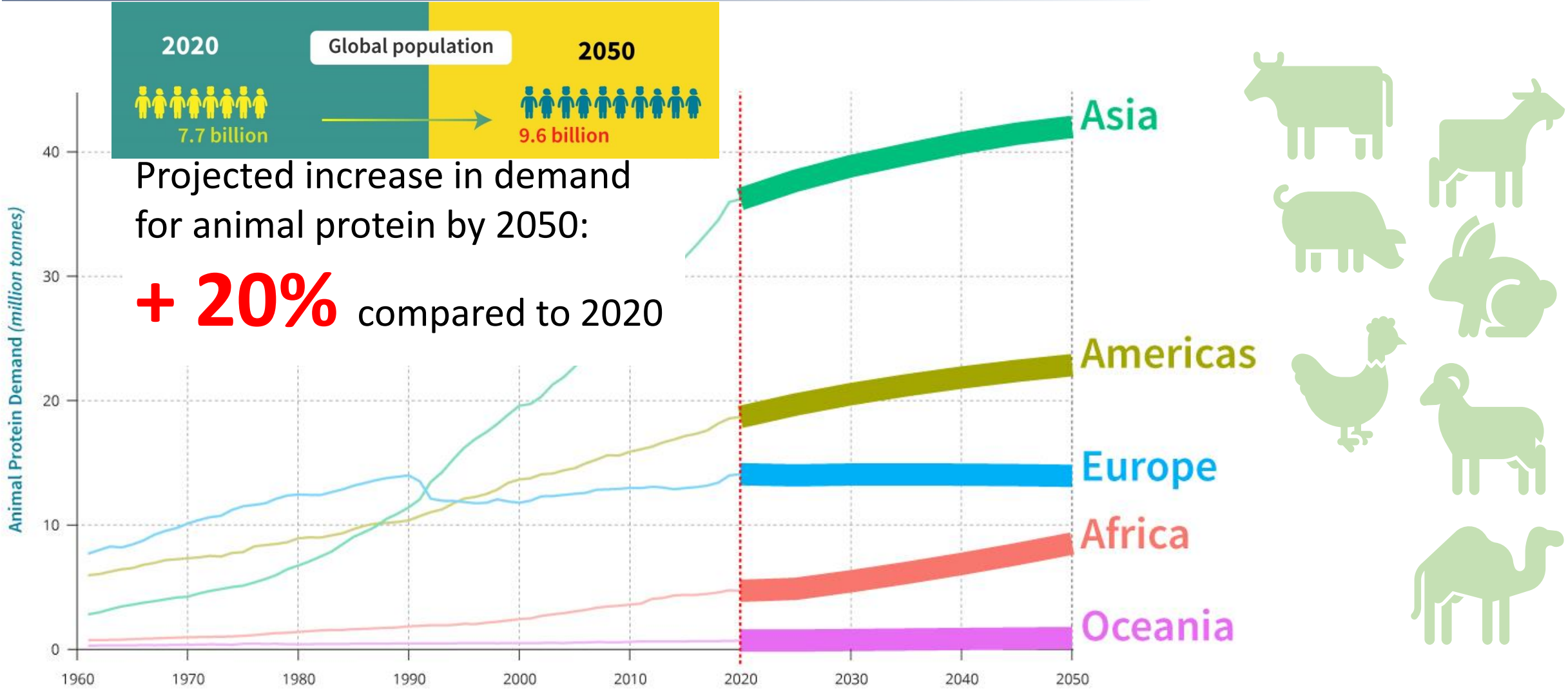
- About 740 people in-person from 96 countries
- 17 Ministers and high-level representatives of FAO Members
- 112 representatives of non-state actors
- 85 resource people (e.g. speakers, panellists)
- 150 young people from over 40 countries at the Global Youth Dialogue on Sustainable Livestock Transformation
- Over 15,000 views of virtual participation





Policy makers talked about Sustainable Livestock Transformation

Increasing demand for animal-source foods



Challenges: why do we need the livestock sector to transform?



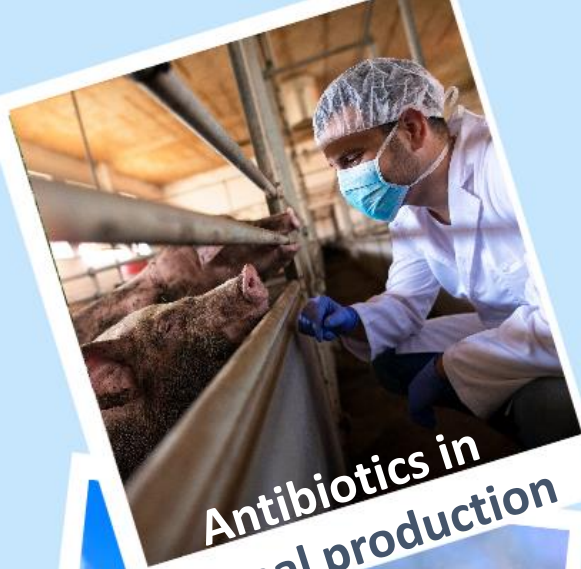
Animal welfare



**Animal diseases
Pandemics**



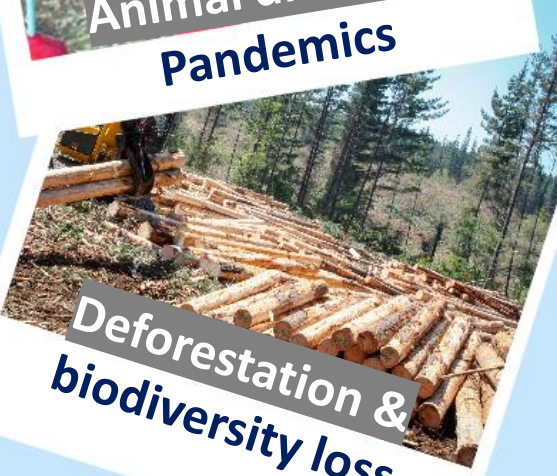
**Hunger &
malnutrition**



**Antibiotics in
Animal production**



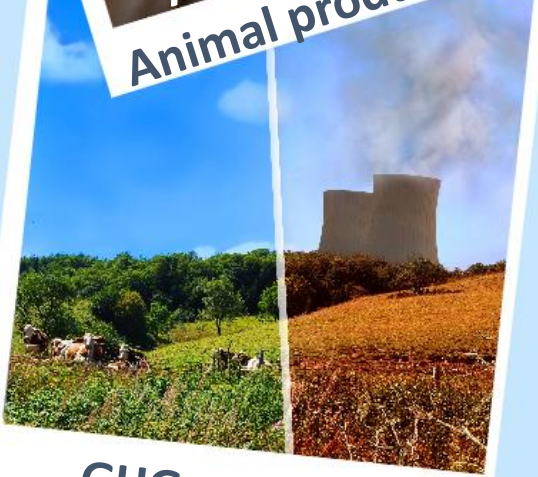
**Foodborne
Diseases**



**Deforestation &
biodiversity loss**



**Soil & water
pollution**



GHG emissions



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Livestock is part of solutions for Agri-food Systems
Transformation for **4 Betters**

“Sustainable Livestock Transformation Initiative”



**BETTER
PRODUCTION**



**BETTER
NUTRITION**



**BETTER
ENVIRONMENT**



**BETTER
LIFE**





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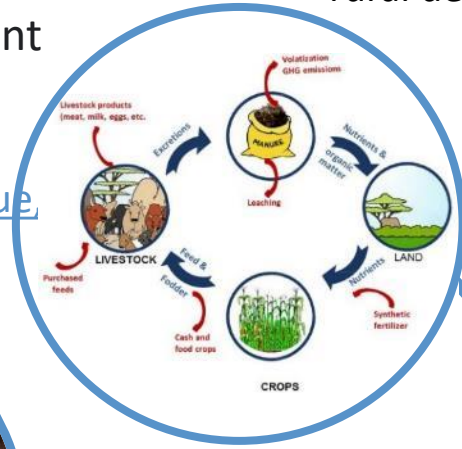


Livelihood, women &
youth employment,
rural development

Livestock's contribution to healthy people and planet

Crop-Livestock-Soil Nutrient
Cycling Systems

Biomass, Bio fertilizer,
Soil health, Use of crop residue,
Zero waste



Pastoral systems and
livestock in drylands &
rangelands

Biodiversity &
Ecosystem services



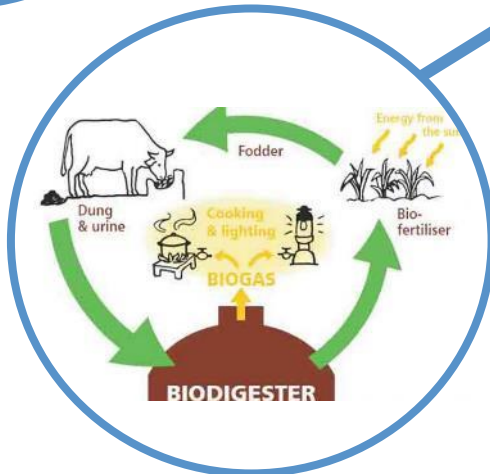
Balanced &
healthy diets



Food &
nutritional
security, essential
micronutrients



Biogas &
renewable
energy



Integrating livestock
with agroforestry
Grazing with trees





ONE FAO – ONE Health – ONE Livestock



Building more sustainable, efficient, inclusive, and resilient livestock sector for all



Sustainable Livestock Transformation Initiative

1.

Building a global balanced narrative on Sustainable Livestock
(science and evidence based)

2.

Increasing investment in the livestock sector
(Livestock Master Plans)

3.

Strengthening sustainable pathways and frameworks for subsectors
(dairy, beef, poultry, egg, pig, goat, feed, small-scale farming and pastoralism)

4.

Integrating work on animal production and health
(incl. One Health, AMR, nutrition, biodiversity, climate actions, crop-livestock-soil nutrient cycling, dryland, market access)

5.

Enhancing good practices and knowledge sharing
(Members, producers and private sector)

Cross-cutting and mechanisms: Strengthened the work through FAO's strategies on One Health, Climate, Science and Innovation, Biodiversity, Nutrition, Youth, Policy on Gender Equality, Partnership and Investment, Private Sector Partnerships, Food Safety, AMR, Global Plan of Action for Animal Genetic Resources



Enhancing good practices and knowledge sharing

- **Support livelihoods and resilience of small-scale livestock producers**, including pastoralists, women, youth and other vulnerable groups
 - *Enhance small-scale livestock productivity and pastoralism*
- Facilitate **climate actions**
- Support **efficient use** of natural resources and reduction of **environmental footprint**
- Disseminate **good practices of sustainable livestock production**

