

Livestock Production

Global and Regional Perspectives



Dr. Sonevilay Nampanya

Livestock Development Officer, Regional Office for Asia and the Pacific Food and Agriculture Organization of the United Nations (FAO)

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We will be looking at....

- Food security
- Current state of livestock production
- Challenges climate change and TADs
- Opportunities
- Final thoughts



FAO's Mandate

- Improve nutrition food security
- Increase agricultural productivity and growth
- Raise the standard of living in rural populations
- Contribute to global economic development







FAO Strategic Objectives



Help eliminate hunger, food insecurity and malnutrition



Enable inclusive and efficient agricultural and food systems



Reduce rural poverty



Make agriculture, forestry and fisheries more productive and sustainable

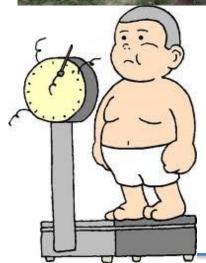


Increase the resilience of livelihoods to threats and crises



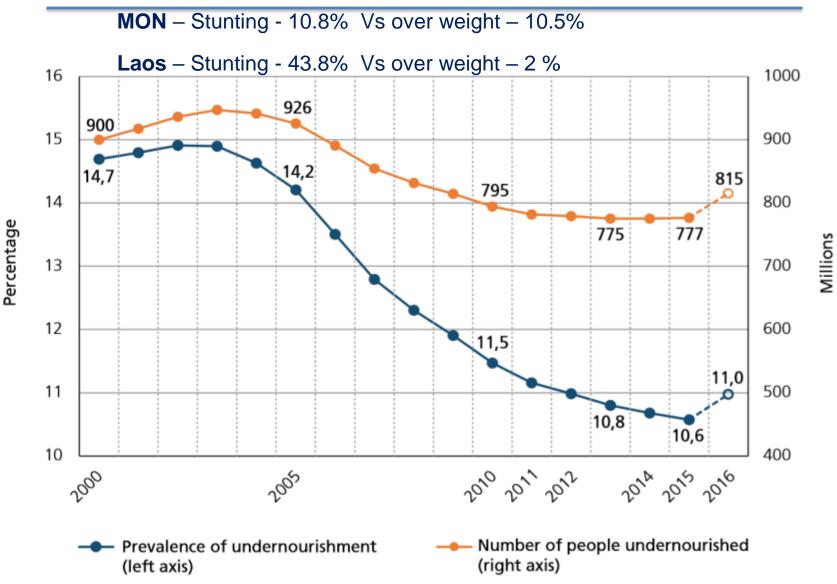
Food Security... Stunting Vs Type 2 diabetes





Exists when populations have access on an ongoing basis to sufficient, safe & nutritious food to meet their dietary needs & food preferences for an active & healthy life. (FAO)

Food and Agriculture Organization The current food security status of the United Nations



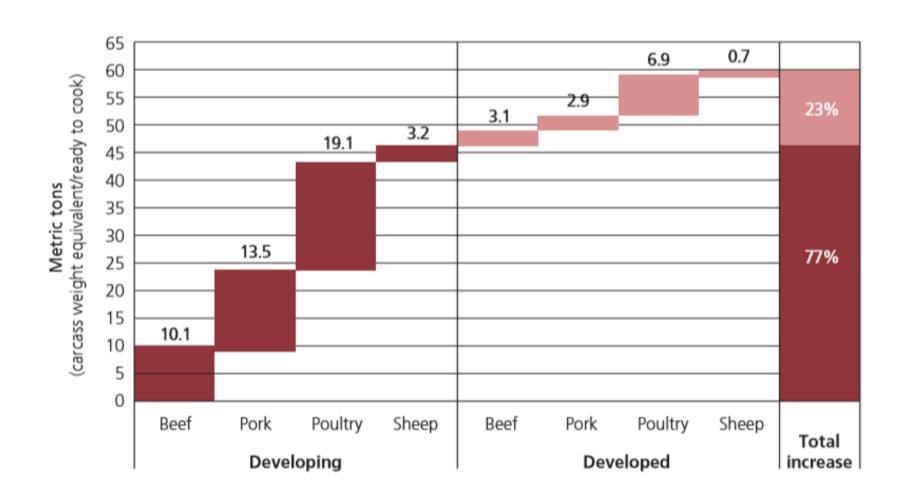
Source: FAO, 2017 The State of Food Security and Nutrition in the World

Food and Agriculture Organization Role of livestock and food security

Meat, milk and eggs Food-Nutrition provide more than protein. Livestock production They also provide essential helps make optimal use of Environment micronutrients that are less all the planet's biomass. available in plant-based exploiting its full ecological foods. This makes potential and supporting a livestock-derived foods circular, regenerative food highly valued in poor production system where households subsisting nothing is wasted. While almost wholly on livestock production high-carbohydrate starchy inherently produces foods, and particularly greenhouse gases, there valuable for infants in their are major opportunities to first 1,000 days of life, from mitigate such emissions. conception to 2 years old. _ivelihoods One billion people are Livestock enhance human Health involved in livestock value. health in developing chains globally, with countries by providing more than half of these nourishing foods, which are dependent on livestock for the foundation of good their livelihoods. Most health and help the body livestock-dependent people live in protect itself against, and developing countries and farm or recover from, disease. In herd cattle and other ruminants. addition, farm animals give Globally, livestock contribute an people viable ways to make average of 40% to agricultural a living, which allow them to GDP, with this percentage make better dietary and rising fast in developing health choices and to pay countries. for good medical care.



Global meat production





Food and Agriculture Organization Increase in meat consumption of the United Nations

'Livestock revolution' = increasing demand for animal protein

Growth rate: 3.1% & 3.0% pa

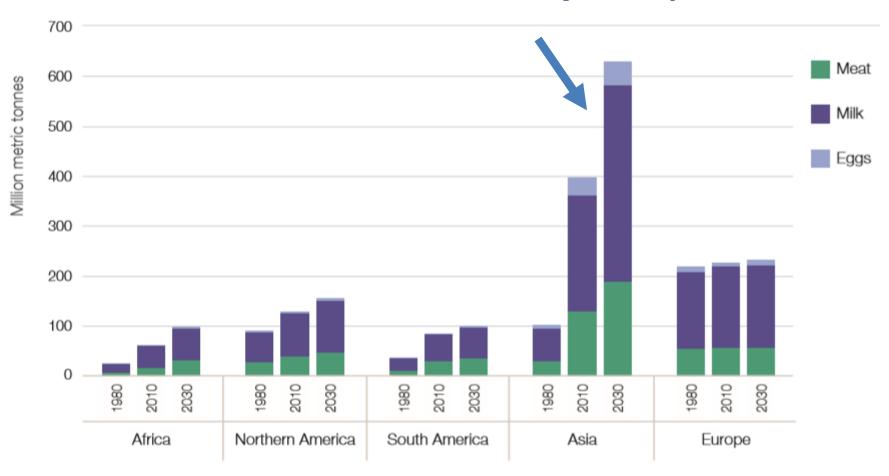


Total meat consumption kg per capita pa:

	1997	2009	2020 est.
China:	43	58	73
SE Asia:	18	26	30+?



Increase in meat consumption (cont





What that means to smallholder farmers....

This offers trade opportunities for smallholders to

 Increase livestock income through improving livestock productivity & trade (livestock holders to livestock producers ???)

- Contributing to alleviate rural poverty

Improve regional food security





What that means livestock Producers and livestock businesses.....

This offers trade opportunities for livestock producers to

 Establish and develop livestock sector (pigs and poultry in Thailand, Vietnam & China as example) for domestic and international market

- Industrialised livestock production:
 - Confinement feeding of animals
 - Separation of feed an livestock production
 - Specialization (breeding, fattening etc)
 - Large size and emergence of big companies
 - Close vertical linkages with buyers



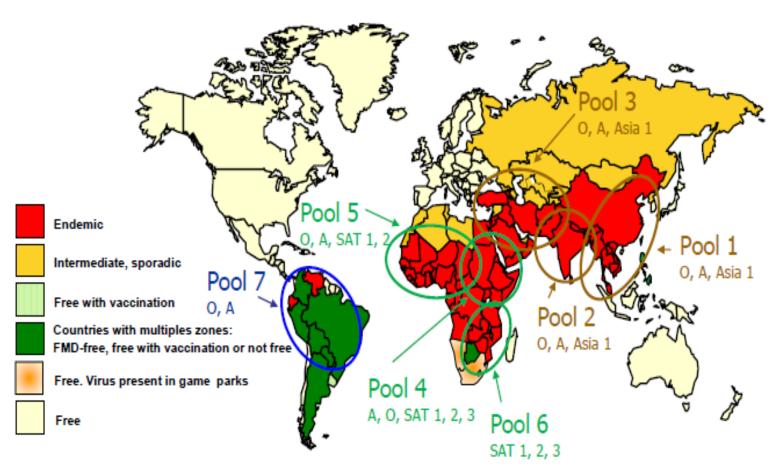
Challenges

- Land resources: 7%; degradation, ownership
- Water resource constraints
- Phosphorus & Energy peaked
- Climate change variability & shocks
- Waste, Loss of biodiversity





FMD is a disease of poverty in developing countries = failure of food security system and Trade! HPAI, PPRS, PPR, ASF to be considered??



Pool positions are approximate and colours indicate that there are three principal pools, two of which can be subdivided into overlapping areas

14



Declining in young people participating in agriculture and livestock



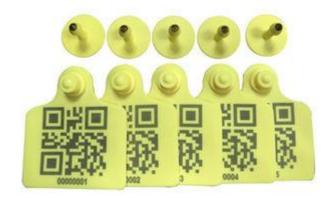




Opportunity – integration & innovation in livestock production

- Climate Smart Livestock (more productive, less prone to disease, more resilience, and reduce GHGs)
- Improved animal feeding and feeding management,
 breeding & genetics
- The use of technology and innovation to improve livestock health and production
- Reduce the use of antimicrobials and enhance animal production and health
- Improve quality assurance and traceability system









Final thoughts

- Livestock and livestock development in Asia provide a key role in addressing food security and poverty reduction, also supply increasing meat demand in other regions
- Multiple interventions and approaches for improving health & production & trade development (farm management, quality assurance and traceability, livestock identification system, processing etc)



Final thoughts (cont)

- Livestock farmers cannot only produce quantity livestock products (meat, eggs, milks etc) but they have to ensure that they produce quality and safe livestock products to the region demand and beyond. Farm to plate approach:
 - ✓ Good livestock husbandry practices including animal welfare
 - ✓ Good processing livestock products (farm to consumers-slaughter houses, traceability, livestock identification, quality assurance etc)
 - ✓ Nutritious and safe livestock products
 - ✓ Reasonable and fair price to all stakeholders in the market chain: producers, businesses and consumers
 - ✓ Mitigate / reduce impact of climate change.

Sustainable Livestock Production = Food Security and Healthy & Well-beings Asia



Thank you!

