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A multi-stakeholder multi-disciplinary approach for sustainable livestock sector growth and transformation Lessons from Ehiopia and Nigeria

Ulaanbaatar, 8th MSP Meeting 11-15 June, 2018







Outline

- One Health
- Livestock Sector Policies: A One Health Approach
- Evidence from Nigeria
- Evidence from Ethiopia
- The way forward in six African countries: the Africa Sustainable Livestock 2050
 Initiative



One Health in Theory

 One Health is "the collaborative efforts of multiple disciplines working locally, nationally, and globally to attain optimal health for people, animals, plants and our environment"

American Veterinary Medical Association (2008): Report of the One Health Initiative Task Force

- One Health encompasses three intertwined dimensions:
 - Public health
 - Environment
 - People's livelihoods

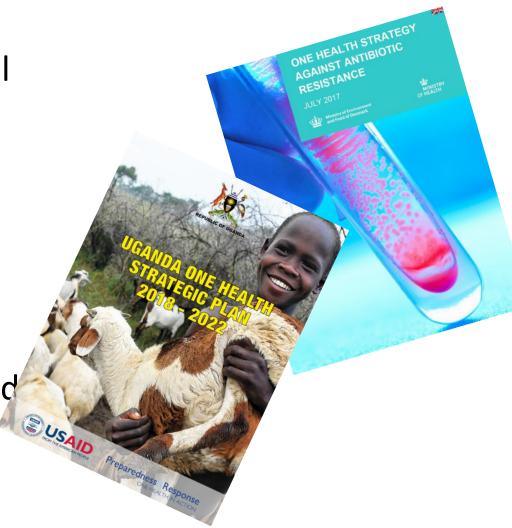


One Health in Practice

A multitude of global, regional and local
 One Health Initatives / Platforms

 Several countries have formulated One Health Strategic Plans / Strategies

 But we are still on a « learning » trajectory: how to best design and implement « one health » strategies and policies?



Ethiopia, Nigeria and ASL2050

 Ethiopia and Nigeria – as well as Burkina Faso, Egypt, Kenya and Uganda – have joined forces with the FAO Africa Sustainable Livestock Initiative (ASL2050)

 Formulation of one health policies that support a sustainable development of livestock, whose outcomes are sustainable from a public health, environmental and social perspective



One Health Policies in Ethiopia and Nigeria: Approach

Multi-stakeholder approach

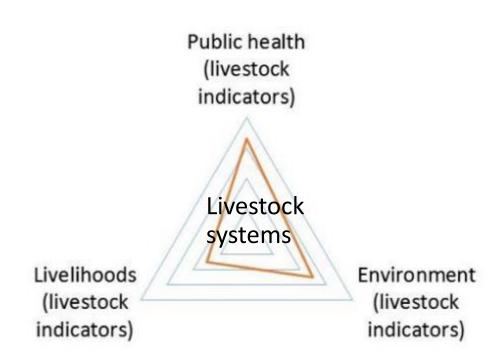
- National Steering Committees, comprising at least representatives of Ministries in charge of livestock, the environment and public health
- Regular stakeholder consultations (government, private sector, academia, NGOs, civil society; etc.)





One Health Policies in Ethiopia and Nigeria: Approach

Integrated four-step approach

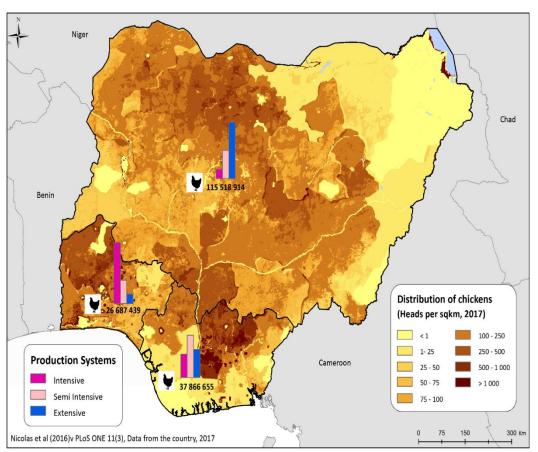


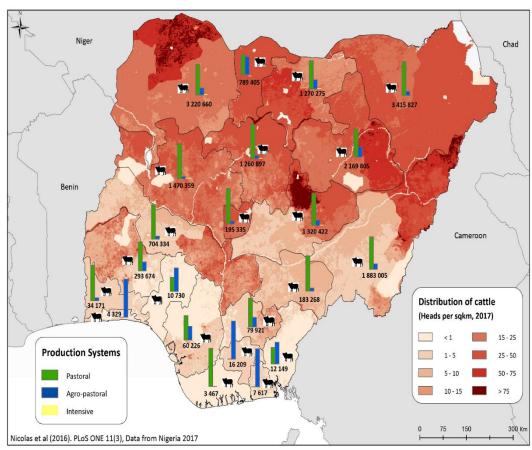
- Characterization of livestock systems, jointly agreed by all stakeholders
- 2. Assessment of impact of livestock systems on public health
- 3. Assessment of impact of livestock systems on the environment
- 4. Assessment of impact of livestock systems on livelihoods



Nigeria: ASL2050 Outputs

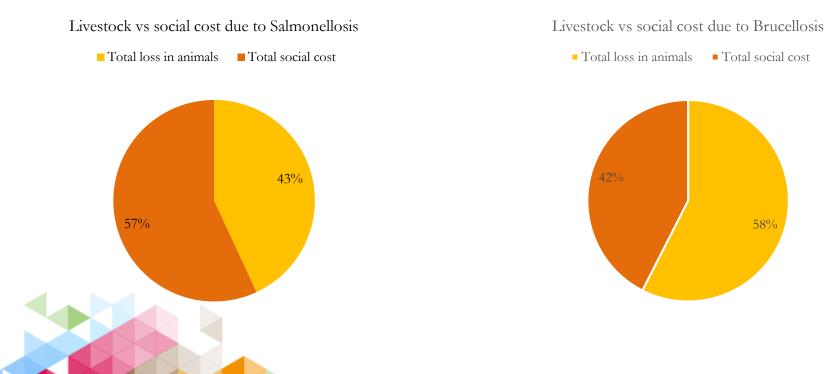
Map of Nigerian poultry and cattle production systems





Nigeria: ASL2050 Outputs

 Public Health indicators: Monetary loss calculated for selected zoonoses, including losses in production, animal stock and loss due to morbidity and mortality of livestock keepers and consumers. Share of animal and human related losses in total loss for Brucellosis in cattle and Salmonellosis in poultry:

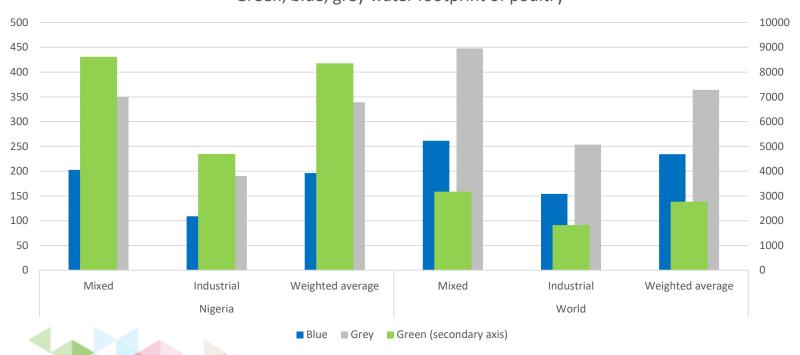


Source: FAO-ASL2050 Expert Elicitation Protocol (forthcoming)

Nigeria: Outputs

Water use of poultry in Nigeria





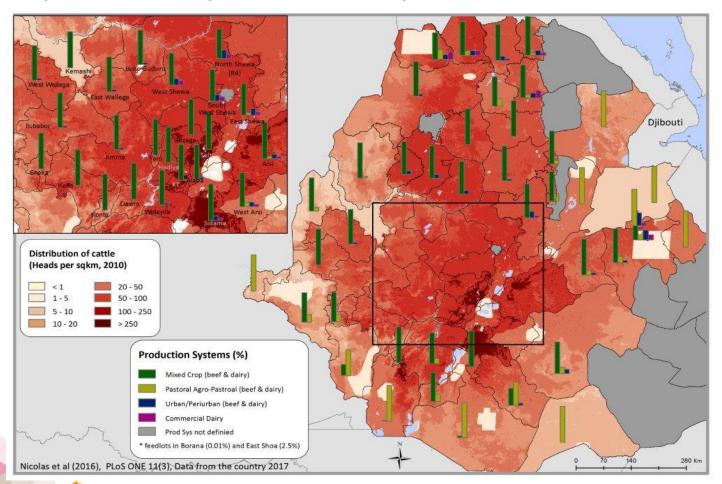
Green water= rainwater
Blue water= surface and
ground water
Grey water= water pollution

Green water is the biggest component of water consumption in both Nigeria and the global average (note the secondary axis). Blue and grey water consumption, is lower in Nigeria than the world average.

Source: Mekonnen and Hoekestra (2010 and 2012)

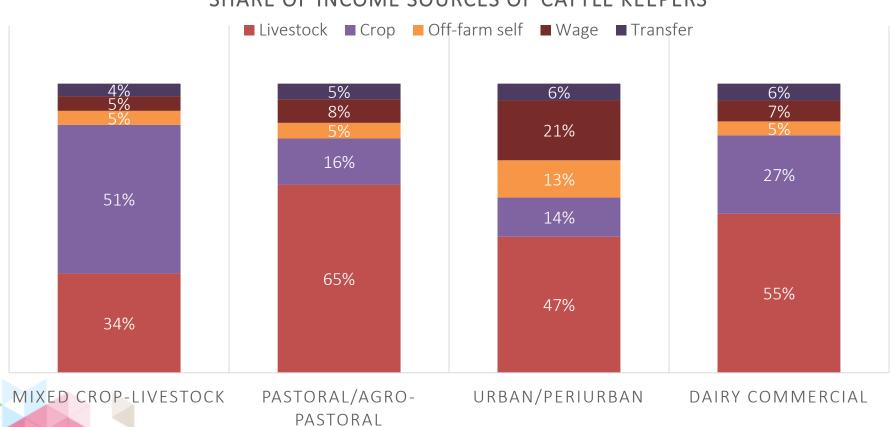
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Map of cattle production systems in Ethiopia at the zonal level



Livelihoods: cattle is an important income source

SHARE OF INCOME SOURCES OF CATTLE KEEPERS



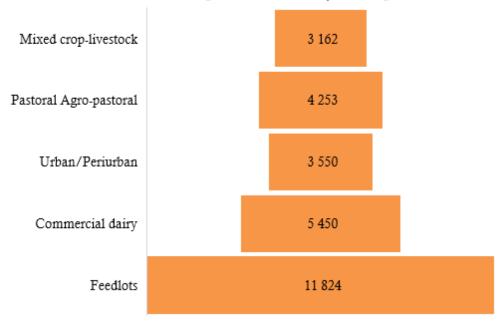
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 Livelihoods: cattle is an important source of nutrition. In the poorer quintiles, households consume less dairy on average, and depend highly on own production.

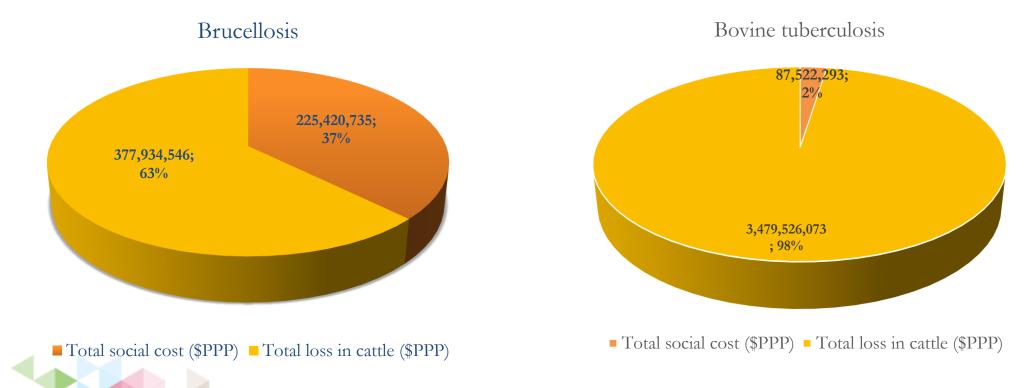
Income group	Consuming dairy	Consumption per capita per week (g)	Share of own production in consumption
Poorest quintile	30%	324	71%
Moderately poor quintile	34%	427	72%
Middle quintile	45%	592	62%
Moderately rich quintile	44%	714	53%
Richest quintile	57%	779	31%

 Environment: Greenhouse Gas emissions by sector. Per head of cattle, emissions are higher in intensive systems than in extensive ones, but due to higher productivity, the emissions per unit of produce are lower in the intensive sector.





 Public Health: Monetary loss calculated for selected zoonoses, including losses in production, animal stock and loss due to morbidity and mortality of livestock keepers and consumers. Share of animal and human related losses in total loss for Brucellosis and bovine TB in cattle



Lessons: understanding trade-offs

Livelihoods: Income Consumption

Environment:
GHG

Livestock
production
systems

Public Health:
Value of
production loss
Value of
morbidity and
mortality in
humans

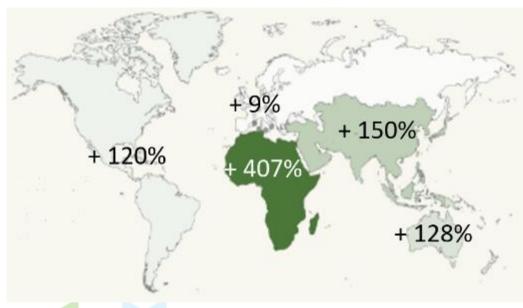
- All stakeholders including Ministries responsible for livestock, environment and public health – have a common understanding of the livestock sector and its impact on society
- All stakeholders are now in a position to appreciate how policies that support livestock sector development have different effects on livelihoods, environment and livelihoods
- Stakeholders understand trade-offs and can take better decisions

emissions Water footprint

Lessons: livestock impact on society, today and tomorrow

Livestock Projections (2050) FAO Global Perspectives

2015-2050 % change in beef consumption



Source: Courtesy of FAO Global Perspective Studies Unit

- The livestock sector beyond being a major provider of food - has a major impact on society today from an environmental, public health and environmental perspective
- Africa is anticipated to undergo dramatic changes in the future
- coming trends of livestock sector growth and transformation to develop forward-looing policies, that by anticipating coming changes will ensure a sustainable growth of livestock in the coming decades



Thank you



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