WEBINAR SERIES

Livestock & Livelihoods

TUESDAY, SEPTEMBER 21 9 A.M. EST | 4 P.M. EAT

The Critical Crossroads of Animal, Human, and Environment Health: Scaling Up One Health





VENTURE 37

Tech Tips

- Put your full name and organization Tsehay Gashaw (ILRI)
- Closed captioning has been enabled
- Microphone off when not speaking, please.
- If you can't hear or see: close and restart zoom, close other programs.
- Use the chat to post comments or questions during the presentations. Create a conversation!
- The session is recorded audio, video and chat and any private chats are also visible to the organizers.







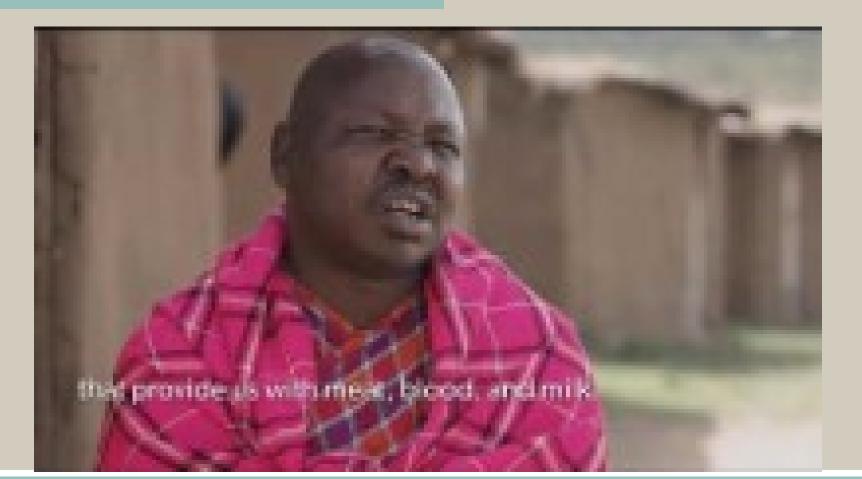
Mark Mitchell

Director of Livestock & Dairy Venture37





Video: One Health: Wildlife, Livestock, and Human Health in the Mara-Serengeti Ecosystem





Webinar Series: Livestock & Livelihoods





Kristina Roesel Scientist, Animal and Human Health ILRI





Presenters:



Bernard Bett Senior Scientist, Animal and Human Health ILRI



Lasha Avaliani Deputy Chief of Party Venture37



Bedasa Eba Research Officer, Pastoralism and Rangeland ILRI



Webinar Series: Livestock & Livelihoods





Bernard Bett

Senior Scientist, Animal and Human Health, ILRI





Scaling One Health practices and policies in Africa – opportunities and challenges

Bernard Bett

Co-investigators: Lian Thomas Kristina Rosesel Arshnee Moodley Delia Randolph Hung Nguyen







Federal Ministry for Economic Cooperation and Development BMZ

Background:

• One Health scaling – an ambition or process of expanding the coverage of One Health, either through:

 \odot Institutionalization (national, sub-national levels), or

- \circ Horizontal expansion
- Quality refinements or improvements, as opposed to spreading out
- Scalable unit need to identify microsystems/mesosystems/an organizing system that can be scaled





Vertical scaling

Support initiatives in place through:

- Evaluation of One Health platforms
 - Commenced in 6 countries: Kenya, Uganda, Tanzania, Ethiopia, Malawi, Burkina Faso, Senegal and Mali
 - Network for Evaluation of One Health tool -- competencies on One Health: planning, thinking, working, sharing, learning
 - \circ Interventions based on gaps identified
- Research for development business case for One Health
- On-line training modules





Horizontal scaling

- One Health graduate fellowship program:
 - PhD and MSc students leaders of One Health in their countries
 - Technical trainings
 - Research partnerships
- Development of One Health training curricular in local universities
- Research partnerships
- Community outreach (capacity building efforts)





Opportunities and challenges

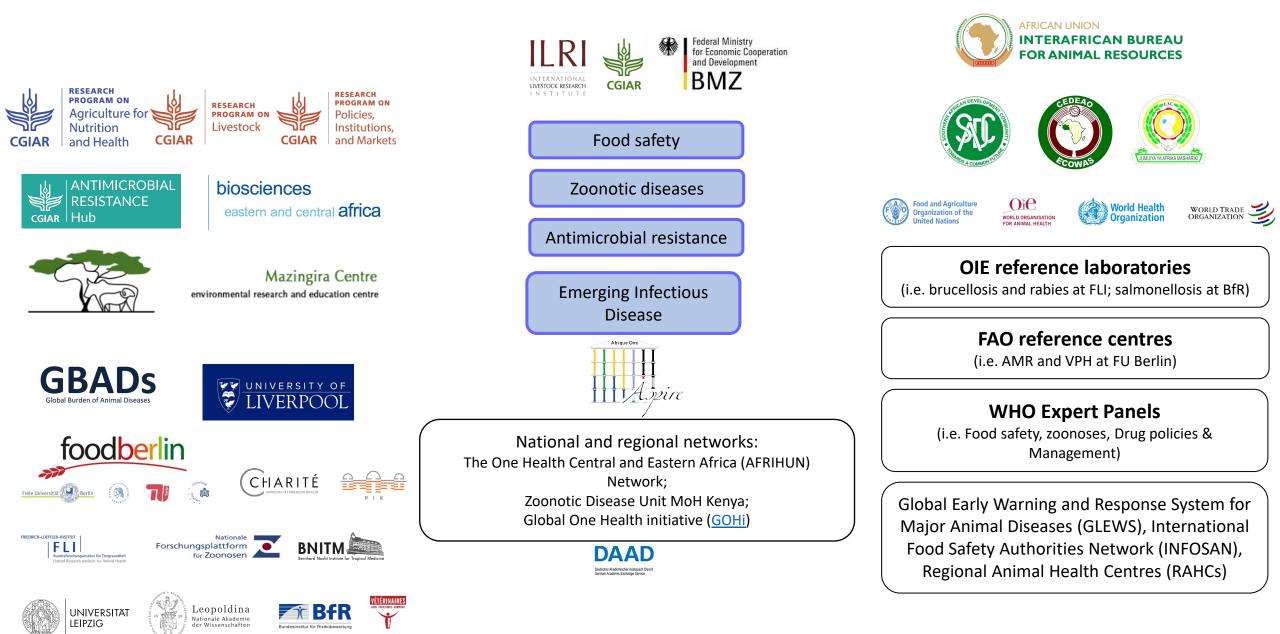
Opportunities

- Existence of many One Health platforms and networks with local and international development partners
- Skilled manpower in mainstream government departments and the private sector
- $\circ~$ Strong interest to engage on One Health
- Challenges
 - Poor financing of health systems
 - $\,\circ\,$ Difficulties in conceptualizing One Health and its scalable unit
 - $\,\circ\,$ Lack of reliable tools for assessment
 - $\,\circ\,$ Low demand for preventative services at the community level





Partners & Prospective





Visit the following sites for more information: <u>https://a4nh.cgiar.org/our-research/flagship-5/</u> <u>https://a4nh.cgiar.org/category/flagships/improving-human-health/</u>



Lasha Avaliani

Deputy Chief of Party, USDA Safety and Quality Investment in Livestock (SQIL) program, Venture37





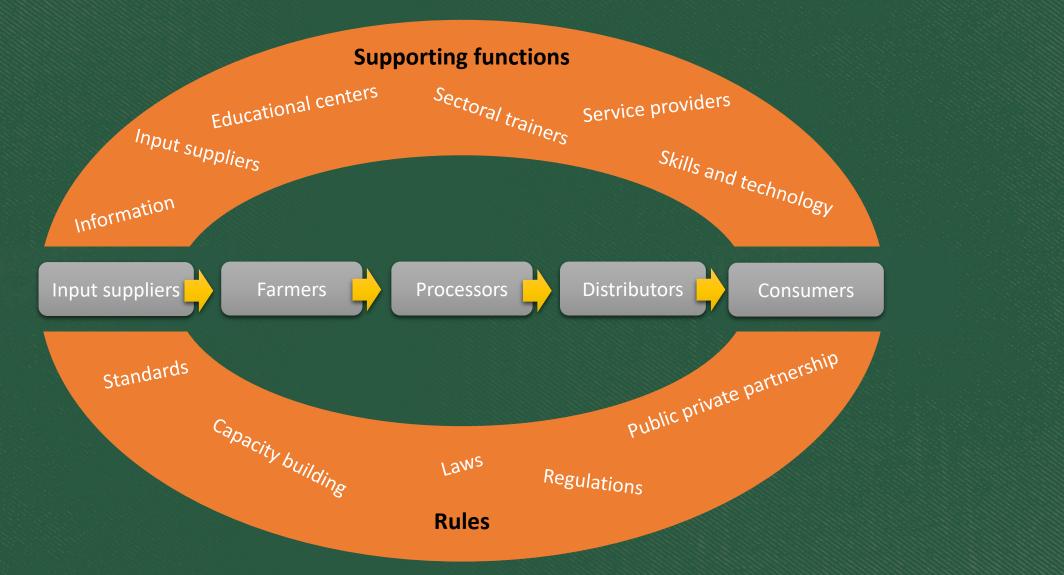


Safety and Quality Investment in Livestock

One Health: Putting Theory into Practice within the country of Georgia



One Health in Market Systems





SQIL Training Activities

- Training state inspectors in HACCP principles and audit
- Food safety system in dairy processing facilities
- Hygiene principles for animal-based food producers
- COVID-19 and food safety
- Training slaughterhouse veterinarians
- Promoting modern standards in primary production
- How to build and operate cattle farm
- ToT Interactive training delivery





SQIL Awareness Activities - Manuals



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SQIL Educational Activities - Manuals

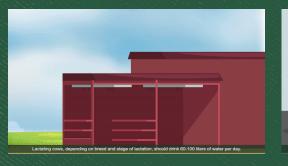
- Manual for proper use of VMPs in livestock farm
- Guideline on how to purchase safe beef
- Practical manual for slaughterhouse veterinarians
- Manual on How to Protect Farm from Chronic Disease
- Manual on prevention and control cattle mastitis
- Manual on tick born diseases prevention (pending)





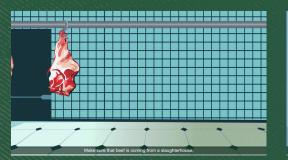
SQIL Awareness Activities - Videos

- Short animated videos on the selected topics from the developed manuals
- Disseminated via social media and regional televisions













la allocates personal space for each animal, having enough drinking trough, laying and walking areas.





Thank you for your attention



Bakhmaro, SQIL training 2021



Bedasa Eba

Research Officer, Pastoralism and Rangeland, ILRI









Linking rangeland management to One Health in Ethiopia



The critical crossroads of Animal, Human, and Environment Health: Scaling Up One Health webinar

21 September 2021

Bedasa Eba, Rangelands Scientist, International Livestock Research Institute



SANS FRONTIÈRES member of VSF International





INTERNATIONA LIVESTOCK RESEARCH **CGIAR** INSTITUTE

Webinar Series: Livestock & Livelihoods





Why rangeland health is important for One Health?





Photo credit: ILRI

- Rangelands cover more than half the world's surface.
- Livestock production systems cover 84% of rangelands
- Healthy rangelands are important for livelihoods.
- More than 50 million pastoralists rely on rangelands.
- The One Health approach, that brings together

rangeland, human and animal health, provides a good

opportunity for improved rangeland management.



The One Health for Humans, Environment, Animals and Livelihoods (HEAL) Project

OH 4 HEAL

Aim: enhancing the well-being and resilience to shocks of vulnerable communities in pastoralist and agro-pastoralist areas of Ethiopia, Kenya and Somalia.

Approach: HEAL project is the first to integrate land health into the health of humans and animals.

Outcomes: Members of pastoral communities are engaged in defining sustainable, demand-driven and need-based One Health Units (OHUs).

- Context-specific cost-effective One Health service delivery models are in operation
- HEAL-OHUs is recognized as a solution for service delivery for pastoralist communities in the Horn of Africa by policymakers and investors



Photo credit: HEAL



Participatory Rangeland Management (PRM) for One Health

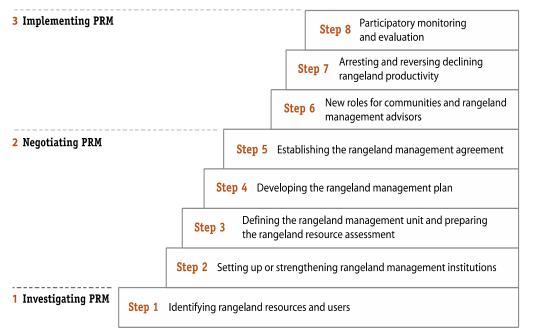


Figure I: Stages and steps of PRM (Flintan and Cullis 2010)

Mapping and integrated plan management:

 Tick infestations and tsetse (trypanosomiasis)/livestock health issues rangeland degradation /bush encroachment



Example from Arda Olla rangeland unit of Moyale district of the Somali regionOne Health and grazing: Movement, concentration,

displaced grazing (farms, exclosures, degradation, toxic plant, diseases/parasites)



Institutional roles, service delivery and the OH service centre

- Institutional roles
 - HEAL, MSIPs, OHUs, local rangeland institutions, local government
- Service delivery
 - \circ $\,$ PRM for OH $\,$
 - Land use planning
 - Grazing management
 - Active restoration
 - Confirmed relevance of three strategies to
 One Health intervention in Arda Olla

Why?

- Maintain adequate pasture area and reduce concentration of livestock
- Reduce degradation and initiate restoration
- Limit spread of diseases and parasites



How can we further improve rangeland health and livestock health?

- Integrative, 'win-win' actions will be most effective for people's livelihoods
- These actions are developed through interdisciplinary collaboration in HEAL
- They will rely in part on information systems, also in development

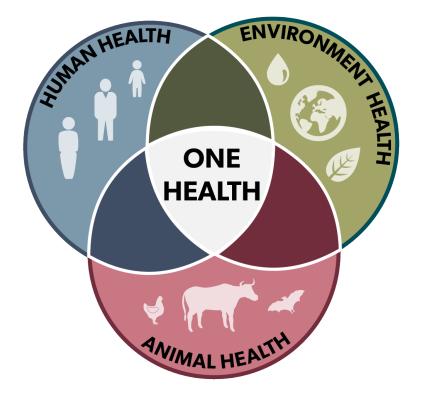




Conclusion and key messages

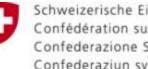


- Rangeland health is key to improving the productivity of the agro-livestock production system.
- The entire value chain benefits from improved rangeland management. Healthy rangelands lead to healthy animals, healthy livestock products and healthy people.



For more information Visit our website: www.oh4heal.org Email us: heal@vsf-suisse.org Follow us on twitter: @OH4HEAL YouTube channel (past webinars):

https://www.youtube.com/channel/UCUMCG6JPVbudjgaF53jdNKw?view_as=subscriber



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Swiss Agency for Development and Cooperation SDC





RESEARCH **PROGRAM ON** Livestock





Panel Discussion



Christine Jost

Global Health Security Initiative 3 Senior Livestock Technical Advisor, a contractor with the United States Agency for International Development Bureau for Humanitarian Assistance





Thank you!

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