



INITIATIVE ON
One Health

CGIAR Initiative on One Health: Ethiopia stakeholder
workshop, 26 April 2023



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Cover photo: Participants at the CGIAR Initiative on One Health Ethiopia stakeholder workshop, Addis Ababa, Ethiopia, 26 April 2023 (credit: ILRI/Apollo Habtamu) <https://www.flickr.com/photos/ilri/52886094188/>

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Introduction

On 26 April 2023, the CGIAR Initiative on One Health held a stakeholder workshop at the Addis Ababa campus of the International Livestock Research Institute (ILRI), with some participants joining online via Microsoft Teams. The list of participants is in Annex 1.

The objective of the workshop was to review the progress of the initiative's research in the target countries, with a focus on the work in Ethiopia, and explore how the initiative can better support One Health activities in the country and the region at large. The agenda of the meeting is in Annex 2.

This report presents a summary of the presentations and discussions at the meeting. The presentations may be accessed from [Google Drive](#).

Workshop proceedings

Opening remarks

Dr Siboniso Moyo, Deputy Director General Research and Development – Biosciences, ILRI

Dr Siboniso Moyo began by welcoming the workshop participants to the ILRI Addis Ababa campus on behalf of Dr Namukolo Covic, the ILRI Director General's Representative to Ethiopia, and conveyed Dr Covic's apologies as she was unable to be present due to work commitments elsewhere.

Dr Moyo noted that a One Health approach is critical to address global public health challenges like COVID-19, and through this workshop organized by the CGIAR Initiative on One Health, participants would be able to review the progress of the initiative's research in the seven target countries, with a focus on the work in Ethiopia, and explore how to better support One Health activities in the country and the region at large.

She highlighted that Ethiopia has had successful food safety technology interventions and that ILRI has over 45 years of One Health research experience and a portfolio of research projects that are aligned with the CGIAR Initiative on One Health. She urged the participants to consider the role of the environment and water in disease transmission during their deliberations. She concluded by thanking the organizers and all who participated in planning the event and wished everyone fruitful deliberations and a successful meeting.

Dr Feyesa Regassa, Ethiopian Public Health Institute and Chair, National One Health Steering Committee

Dr Feyesa Regassa noted that both local and global health challenges are becoming increasingly complex with significant impacts on human well-being. The best example of this is the COVID-19 pandemic. For this reason, tackling current and future health challenges requires a systematic and integrated approach such as the One Health approach. One Health activities in Ethiopia are in the framework of the global health security agenda. The National One Health Steering committee has played a significant role since its formation. He reiterated that collaboration and partnerships are

important for institutionalization of One Health from national level down to the community, emphasizing that “One Health is not an option, it is a must.”

Mr Miresa Midaksa, representing the Director General, Addis Ababa Food, Medicine and Healthcare Administration and Control Authority

Mr Miresa Midaksa began by mentioning the commitment of the Government of Ethiopia towards achieving the targets of the Sustainable Development Goals related to health. Acknowledging the high prevalence of foodborne and waterborne diseases in Addis Ababa, he noted that improving food and water safety is a key focus area for upgrading of food safety practices and food establishments in the city. He acknowledged the efforts of the CGIAR Initiative on One Health to improve the hygiene and safety of meat sold in informal markets in Addis Ababa. He welcomed the opportunity to partner with the initiative and other organizations on the planned intervention study on food safety hygiene and sanitation.

Overview of the CGIAR Initiative on One Health

Presenter: Dr Hung Nguyen-Viet

The presentation set the context for the meeting by highlighting the rationale of the CGIAR Initiative on One Health amid the prevailing global public health challenges of emerging zoonoses, foodborne diseases and antimicrobial resistance. An overview was then given of the initiative’s objective, work packages, target countries, research partners, theory of change, end-of-initiative outcomes, impact forecast, linkages with other CGIAR initiatives, and team members. The latter part of the presentation covered the key achievements of 2022 in global advocacy at high-level conferences and progress in research by the five work packages. The key work package activities in 2022 covered research on wildlife value chains and health risks in Côte d’Ivoire and Vietnam, food safety interventions in Ethiopia and Vietnam, antimicrobial resistance in poultry farms in Kenya and aquaculture farms in Bangladesh, modelling of microbial pollution in watersheds in Ethiopia and India, and the impact of information on demand for safer food in Kenya.

Overview of the One Health Initiative work packages

Emerging and neglected zoonoses

Presenter: Dr Bernard Bett

The presentation began by noting that there is an increased global risk of emerging infectious diseases and neglected zoonotic diseases. In Africa, outbreaks of zoonoses increased by 63% between 2012 and 2022 compared to the previous decade. The drivers of zoonotic diseases include food systems transformation, increasing human population and climate change. Therefore, the key objective of the zoonoses work package is to produce new knowledge on the drivers and burden of zoonotic diseases and associated risk factors towards improving the prevention and control of these diseases. The work package also seeks to develop tools for zoonotic disease surveillance and build capacity in their use. In addition, the work package seeks to build partnerships and collaborative arrangements to deploy One Health interventions at national and sub-national levels. The focal countries for this work package are Côte d’Ivoire, Kenya and Vietnam. In Côte d’Ivoire, the research is on zoonoses and nutritional risk management in the wildlife sector. In Vietnam, the work is on risk-based surveillance systems for emerging infectious diseases along wildlife value chains. In Kenya, the

team is developing a mobile phone-based surveillance system to report notifiable diseases in slaughterhouses.

Food safety

Presenter: Dr Hung Nguyen-Viet

The aim of the food safety work package is to reduce the burden of foodborne diseases with a focus on animal-source foods in informal and traditional food systems. A gender-sensitive approach is supporting food value chain actors to improve food safety from production to consumption through creation of enabling environments with non-punitive governance, building capacity through training and developing simple technologies, and motivating for behaviour change and improved food safety practices. The focal countries for this work package are Côte d'Ivoire, Ethiopia, India, Kenya, Uganda and Vietnam. Activities include testing interventions to improve food safety in pig slaughterhouses and pork shops in Vietnam, testing vendor-based interventions to improve the safety of food sold by meat vendors in Addis Ababa and analysing the role of water in food safety in watershed areas of Ethiopia and India.

Antimicrobial resistance

Presenter: Dr Arshnee Moodley

The antimicrobial resistance work package takes a multi-pronged approach to reducing antimicrobial resistance by (i) reducing antimicrobial use, (ii) reducing the availability of poor quality antimicrobials and (iii) reducing transmission of antimicrobial resistance. It also focuses on improving understanding of how the environment acts as a reservoir for antimicrobial resistance. To reduce antimicrobial use in the agricultural sector in low- and middle-income countries, we can take an ecosystem approach aimed at changing and improving the system. Alternatively, we can use on-farm interventions aimed at changing and improving farmers' behaviour so that they use antimicrobials only when needed, thereby reducing the development of resistance. The focal countries for this work package are Bangladesh, Kenya, Malawi, Uganda and Vietnam. Activities cover poultry vaccines, antimicrobial resistance governance, veterinary supply chains, antibiotic and feed quality, and gender dimensions of antimicrobial use in agricultural settings.

Water

Presenter: Dr Javier Mateo-Sagasta

The water work package takes a systems approach to analyse water food systems. The main focus is to improve waste and water management, and in particular, to reduce pollution of water bodies from livestock and aquaculture (including zoonotic pathogens, antimicrobial residues and antimicrobial resistance) in order to mitigate the risk to human health through livestock and fish food value chains. The main focal countries for this work package are Ethiopia (Akaki watershed) and India (Song watershed) with some work in Bangladesh and Vietnam.

Economics, governance and behaviour

Presenter: Dr Vivian Hoffmann

This work package assesses the impacts of capacity building, market incentives and governance structures on the behaviours of food value chain actors and government personnel relevant to zoonoses transmission, food safety and antimicrobial resistance. In Addis Ababa, the focus is on evaluating the business impacts of food safety capacity building and voluntary grading system for

butchers. The interventions will be assessed through three experimental groups: one group will receive training plus basic food safety technology, the second group will receive training plus advanced food safety technology and the third group will receive training, basic food safety technology plus an intervention called Scores on Doors. The Scores on Doors intervention builds on the existing food grading system being implemented by the Addis Ababa Food, Medicine and Healthcare Administration and Control Authority in which food businesses are given a food safety grade. We will use a simplified version of this grading system focused on food hygiene whereby food vendors will be given a sign with a rating which they can display at their premises to attract consumers. This work package also has projects in collaboration with the other work packages, such as the economics of antimicrobial use in Bangladesh and Kenya (with the antimicrobial resistance work package) and bonuses for good hygiene practices at slaughter in Kenya (with the zoonoses work package).

One Health Initiative research in Ethiopia

Overview of water quality monitoring and modelling antimicrobial resistance in the Akaki catchment, Ethiopia

Presenter: Dr Alemseged Haile

The objective of water quality monitoring in the Akaki watershed is to evaluate the spatiotemporal distribution of selected pathogens and antimicrobial-resistant strains and generate data for calibration and validation of models. Under water quality modelling, the objective is to assess the transport and fate of *Escherichia coli* or *Salmonella*. Zoonotic pathogens will be assessed through monitoring of antimicrobial resistance, key indicator microbiological tests and zoonotic pathogenic microorganism tests. Spatiotemporal evaluations will be done three times a year. The activities that have been completed so far are stakeholder analysis, an inception workshop, rapid assessment of the Akaki catchment, preliminary sampling and laboratory analysis.

Food safety

Presenter: Dr Kebede Amenu

The food safety work is being undertaken under the banner of Strengthening Capacity, Incentives and Institutions for Food Safety in Ethiopia (SCIIFS). The objectives of the SCIIFS randomized controlled trial (RCT) are to (i) assess the effectiveness of three packages (T1 = basic technology with basic motivation; T2 = advanced technology with basic motivation; T3 = basic technology + advanced motivation based only on 'Scores on Doors/Cards') of vendor-based interventions to improve the safety of food sold by meat vendors in Addis Ababa, in a context of engaging with food safety authorities and developing recommendations for current government food inspection and scoring scheme and (ii) explore critical success factors for the interventions and potential for sustainability and scalability. This is based on the 'three-legged stool' approach that includes an enabling environment, capacitating through training and technology, and motivating through incentives and 'nudges'. Research methods will be scoping literature review, multivocal literature review, formative behavioural research and RCT. In 2022, the study design was completed, ethical approval received for the RCT, hygiene kits for pilot study obtained, a behavioural and sampling firm commissioned and a PhD student recruited. For 2023, the team plans to complete the training material and carry out formative research and the RCT baseline.

ILRI-led One Health projects in Africa

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

Presenter: Dr Siobhan Mor

The goal of the HEAL project is to improve access to quality human and veterinary health services and sustainable natural resource management in vulnerable communities in agro-pastoralist areas of Ethiopia, Kenya and Somalia. The project objectives are to (i) engage agro-pastoralists in defining sustainable, demand-driven and needs-based One Health units, (ii) implement context-specific and cost-effective service delivery models and (iii) provide evidence to policymakers and investors on One Health units as solutions for service delivery for agro-pastoralist communities.

The One Health units are integrated health service delivery models which promote the integration of human, animal and rangeland health services. The implementation sites are in Ethiopia (Oromia and Somali regions), Kenya (Isiolo and Marsabit counties) and Somalia (Gedo region). The HEAL project partners are Vétérinaires sans Frontières Suisse (consortium lead and livestock and animal health technical lead), Amref Health Africa (human health and public health technical lead) and ILRI (rangeland health, training and research technical lead).

Achievements to date (within the first two years of the 12-year program) include the establishment of 16 One Health Units; capacity building of 86 One Health service providers, 312 government officials and 400 community members; over 35,000 people reached with health education; over 47,000 people received curative services; over 24,000 people received nutrition screening, over 1 million livestock vaccinated; over 263,000 livestock received curative services; and drought response to 807 households in Ethiopia, 400 households in Kenya and 252 households in Somalia.

Capacitating One Health in Eastern and Southern Africa (COHESA)

Presenter: Dr Delia Grace

COHESA is a four-year project (2021–2025) working in 11 countries in eastern Africa (Ethiopia, Kenya, Rwanda, Tanzania and Uganda) and southern Africa (Botswana, Namibia, Malawi, Mozambique, Zambia and Zimbabwe). It is being undertaken by a consortium comprising ILRI (lead), CIRAD (the French agricultural research centre for international development) and the International Service for the Acquisition of Agri-biotech Applications AfriCenter. The project has four objectives: (1) to improve our knowledge of One Health, (2) to improve One Health governance and cross-sectoral collaboration, (3) education and training of the future One Health workforce and (4) delivery of One Health solutions to beneficiaries. The project works with service providers ('multipliers') to deliver on its objectives.

One Health Research, Education and Outreach Centre in Africa (OHRECA)

Presenter: Dr Bernard Bett

OHRECA (2020–2025) supports applied research and builds capacity to generate new knowledge, develop skills and identify incentives to strengthen One Health policies and practices in Africa. The project works in eight countries (Burkina Faso, Ethiopia, Kenya, Malawi, Mali, Senegal, Tanzania and Uganda) and has three work packages: (1) hazards: evidence that counts; (2) interventions, implementations and assessments and (3) networks and partnerships. In Ethiopia, there are two graduate fellowship projects ongoing: one on comparing concurrent *Campylobacter* spp. infection in chickens and children and another that is evaluating food safety interventions.

Presentations on national One Health landscapes

One Health platforms in West Africa

Presenter: Dr Bassirou Bonfoh

Dr Bonfoh is the advisor of the One Health platform in Côte d'Ivoire and advisor of the Economic Community of West African States (ECOWAS). Eleven of the 15 ECOWAS member states have established national One Health coordination mechanisms; these are Benin, Burkina Faso, Cape Verde, Côte d'Ivoire, Guinea, Liberia, Niger, Nigeria, Senegal and Sierra Leone (Togo has a different model). The One Health platforms are coordinated at the presidential level and some at the level of Prime Minister or Minister of Health. For the regional One Health coordination mechanisms, important areas include governance, resource sharing, and monitoring and evaluation of the effectiveness of the platform. Afrique One-REACH (Research Excellence for African Challenges in Health) was established in 2009 with the aim of building pan-African research capacity in One Health. Afrique One has been involved in training researchers at Master's, PhD and postdoctoral level on livestock and One Health.

Overview of One Health implementation in Ethiopia

Presenter: Dr Feyesa Regassa

In the Ethiopian context, the main health threats include endemic zoonotic diseases, emerging and re-emerging zoonotic epidemics, antimicrobial resistance and foodborne diseases. The interdisciplinary One Health approach is a timely health security initiative to move beyond the traditional 'downstream' silo approach towards a more holistic 'upstream' approach to manage the prevention and control of disease emergence and transmission in people and animals.

Among the key country initiatives and achievements are the establishment of a regional and national One Health system, the development of a national One Health strategic plan (2018–22), zoonotic disease re-prioritization in 2019 (anthrax, rabies, brucellosis, Rift Valley fever and highly pathogenic avian influenza), spillover research, joint disease outbreak investigation and response, and disease eradication programs.

Areas to continue building upon include the development of a One Health roadmap and assessment of the first One Health strategic plan, strengthening partner engagement, increasing resource mobilization, developing a system for data and information sharing, capacity building, advocacy, operational One Health research and spillover research on neglected tropical diseases targeted for elimination.

Institutionalizing One Health in Kenya

Presenter: Dr Mathew Muturi

The initial focus of the Zoonotic Diseases Unit in Kenya was on zoonoses but over time, the focus has expanded to include other One Health issues. The national One Health strategic plan has three objectives: (1) to strengthen implementation of the One Health approach, (2) to strengthen prevention, surveillance and response and control of zoonoses and (3) to promote applied research using the One Health approach. Some of the unit's key activities include revising the Rift Valley fever feedback contingency plan, establishment of sub-national One Health units, operational research and

publication of papers on neglected tropical diseases and zoonoses (anthrax and Rift Valley fever) and research in Kenya at the human–wildlife–livestock interface.

Status of One Health in Uganda

Presenter: Dr Musa Sekamatte

Uganda has been implementing the One Health approach for investigation, response and control of zoonotic disease outbreaks since the 1990s. Coordination of One Health activities in Uganda led to the establishment of the Coordination Office of Trypanosomiasis Control in Uganda and the Veterinary Public Health division in the Ministry of Health.

However, using the One Health approach to tackle endemic, emerging and re-emerging infectious diseases and other public health events was not well coordinated at both national and district levels. This led the country to set up a coordination structure—the National One Health Platform (NOHP)—in 2016 for effective coordination and implementation of national and district One Health activities. The NOHP brought together the Ministry of Health, the Ministry of Agriculture Animal Industry and Fisheries, the Ministry of Water and Environment, and the Uganda Wildlife Authority. The main areas of focus are zoonoses, antimicrobial resistance, biosecurity and biosafety, food safety and gender.

Key achievements include the development of the One Health framework (2017), a Memorandum of Understanding (2018), a national One Health strategic plan (2018–2022), a One Health communication strategy (2018) and a One Health risk communication strategy (2018). In addition, the platform published paper on prioritization of zoonotic diseases in Uganda in *PLOS ONE* (May 2018) and has been involved in outbreak investigations.

Panel discussion: One Health landscape in Côte d’Ivoire, Ethiopia, Kenya and Uganda

Panellists

- Dr Feyesa Regassa, Chair, National One Health Steering Committee, Ethiopia
- Dr Musa Sekamatte, Coordinator, National One Health Platform, Uganda
- Dr Bassirou Bonfoh, Advisor, National One Health Platform, Côte d’Ivoire
- Dr Mathew Muturi, Zoonotic Diseases Unit, Kenya

Moderator: Dr Silvia Alonso, senior scientist, ILRI

What is the single main One Health challenge that the One Health Initiative should address?

- Health threats at the human–animal–environment interface
- Prioritization of zoonotic diseases
- Emerging global health security threats
- Coordination and engagement
- Preparedness and response
- Capacity development of practitioners
- Supporting resource mobilization for One Health platforms

How should the One Health Initiative engage efficiently with national/government agencies?

- A memorandum of understanding between the One Health Initiative and the national One Health platforms should be the starting point to function as a feedback mechanism.
- Collaboration with key One Health sectors in government and the community is needed. This requires good governance and coordination at all levels. For example, a ministerial task force could be set up to oversee a One Health secretariat at the national level.
- Stakeholder analysis would help to foster strategic engagement with key One Health sectors.

Closing remarks

Hung Nguyen-Viet closed the meeting with a brief word of gratitude to all the attendees for their active participation and especially the national partners and ILRI Addis Ababa for hosting the event.

Annex 1: List of participants

Name	Institution
Genet Belete	Addis Ababa Abattoir Enterprises
Seid Endris	Addis Ababa Abattoir Enterprises
Lakech Haile	Addis Ababa Environment and Protection Authority
Abadi Abraha	Addis Ababa Food, Medicine and Health Care Administration and Control Authority
Aschalew Adugna	Addis Ababa Food, Medicine and Health Care Administration and Control Authority
Aster Alemu	Addis Ababa Food, Medicine and Health Care Administration and Control Authority
Miresa Midaksa	Addis Ababa Food, Medicine and Health Care Administration and Control Authority
Tadesse Wordofa	Addis Ababa Food, Medicine and Health Care Administration and Control Authority
Mulugeta Kibret	Bahir Dar University
Bahailu Getachew	Busara
Bassirou Bonfoh	Centre Suisse de Recherches Scientifiques, Côte d'Ivoire
Daba Gudeta	Ethiopian Agricultural Authority
Alganesh Tola	Ethiopian Institute of Agricultural Research
Aderajew Mekonnen	Ethiopian Public Health Institute
Ayalew Buzeneh	Ethiopian Public Health Institute
Feyesa Regassa	Ethiopian Public Health Institute
Mesfin Wossen	Ethiopian Public Health Institute
Behailu Goshime	Ethiopian Wildlife Conservation Authority
Vivian Hoffmann	International Food Policy Research Institute
Annie Cook	International Livestock Research Institute
Arshnee Moodley	International Livestock Research Institute
Bernard Bett	International Livestock Research Institute
Biruk Alemu	International Livestock Research Institute
Delia Grace	International Livestock Research Institute
Dishon Muloi	International Livestock Research Institute
Eugene Ibayi	International Livestock Research Institute
Ha Nguyen	International Livestock Research Institute
Hung Nguyen-Viet	International Livestock Research Institute
Hussein Abkallo	International Livestock Research Institute
Ijudai Jasada	International Livestock Research Institute
Kebede Amenu	International Livestock Research Institute
Lilian Otoigo	International Livestock Research Institute
Mathew Muturi	International Livestock Research Institute
Meseret Bekele	International Livestock Research Institute
Silvia Alonso	International Livestock Research Institute
Siobhan Mor	International Livestock Research Institute
Siboniso Moyo	International Livestock Research Institute
Steven Lam	International Livestock Research Institute
Terry Amaya	International Livestock Research Institute
Tezira Lore	International Livestock Research Institute
Trang Le	International Livestock Research Institute
Wacera Ndonga	International Livestock Research Institute
Alemseged Tamiru	International Water Management Institute
Habtamu Mulat	International Water Management Institute
Javier Mateo-Sagasta	International Water Management Institute
Jemila Mohamed	International Water Management Institute
Kominist Asmamaw	International Water Management Institute
Mihret Mersha	International Water Management Institute
Moushumi Hazra	International Water Management Institute
Yohannes Zerihun	Ministry of Water and Energy, Ethiopia
Musa Sekamatte	National One Health Platform, Uganda
Laura Khor	WorldFish

Annex 2: Agenda

Time	Item	Person responsible
0830–0900	Registration of participants	Yodit Girma and Abdi Keba (ILRI)
		Moderator: Dr Silvia Alonso (ILRI)
0900–0910	Welcome and opening remarks	Dr Siboniso Moyo, Deputy Director General, Research and Development – Biosciences, ILRI
0910–0930	Opening remarks	Dr Feyesa Regassa, Director, Public Health Emergency Unit, Ethiopian Public Health Institute
0930–0950	Opening remarks	Mr Miresa Midaksa, representative of the Director General, Addis Ababa Food, Medicine and Healthcare Administration and Control Authority
0950–1000	CGIAR One Health Initiative overview and country implication	Dr Hung Nguyen-Viet, lead, CGIAR Initiative on One Health and co-lead, Animal and Human Health program, ILRI
1000–1025	Work package (WP) presentations <ul style="list-style-type: none"> • Zoonoses • Food safety • Antimicrobial resistance • Water • Economics, governance and behaviour 	WP leads: Dr Bernard Bett Dr Hung Nguyen-Viet Dr Arshnee Moodley Dr Javier Mateo-Sagasta Dr Vivian Hoffmann
1025–1105	Deep dive: Initiative research activities in Ethiopia <ul style="list-style-type: none"> • Food safety • Water 	Dr Kebede Amenu Dr Alemseged Tamiru Haile
1105–1200	One Health platforms in Africa <ul style="list-style-type: none"> • Ethiopia • Kenya • Uganda • Côte d'Ivoire <p>Key ILRI-led One Health initiatives in Africa</p> <ul style="list-style-type: none"> • HEAL • COHESA • OHRECA 	Dr Feyesa Regassa Dr Mathew Muturi Dr Musa Sekamatte Dr Bassirou Bonfoh Dr Siobhan Mor Dr Delia Grace Dr Bernard Bett
1200–1230	Panel discussion	Dr Silvia Alonso (moderator)
1230–1245	Next steps and closing	Dr Hung Nguyen-Viet
1245	Lunch and departure	

Annex 3: Photos





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