

# Conceptual Framework

## Africa PPP Forum in the Veterinary Domain

Rahul Srivastava  
PPP Project Manager  
Capacity Building Department

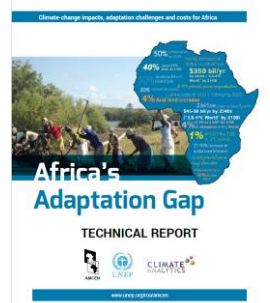
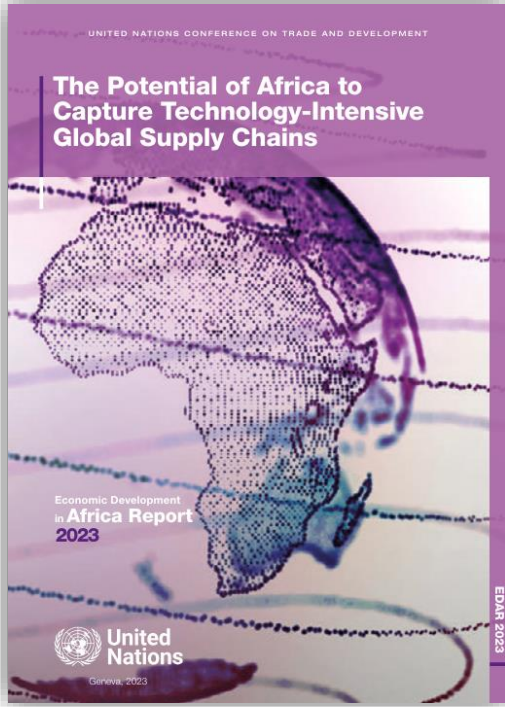
4 April 2024, Nairobi, Kenya



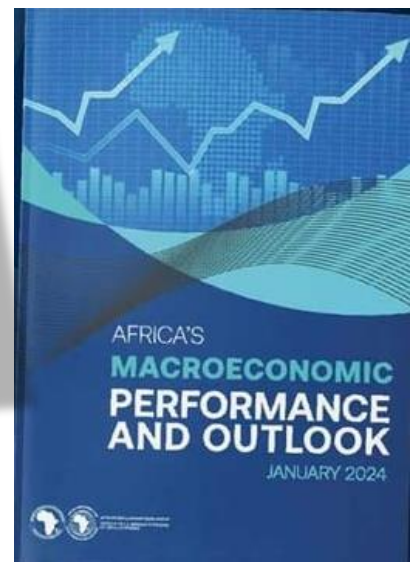
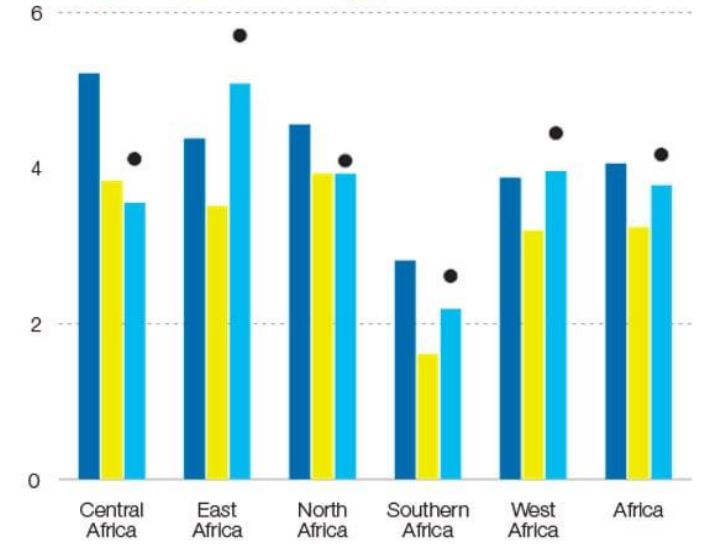
World  
Organisation  
for Animal  
Health  
Founded in 1924

Organisation  
mondiale  
de la santé  
animale  
Fondée en 1924

Organización  
Mundial  
de Sanidad  
Animal  
Fundada en 1924



Percent ■ 2022 ■ 2023 (estimated) ■ 2024 (projected) ● 2025 (projected)



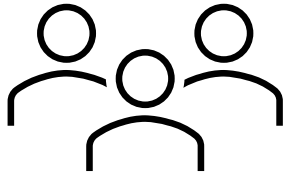
22<sup>nd</sup> International Economic Forum on Africa

Investing in Africa for inclusive growth and sustainable development

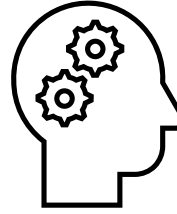
Tuesday, 31 October 2023

Africa dominates list of the world's 20 fastest-growing economies in 2024—African Development Bank says in macroeconomic report

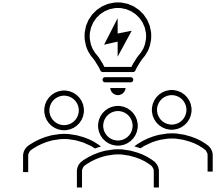
- Report forecasts stronger growth for Africa in 2024, outpacing projected global average.
- Continent is second-fastest-growing region after Asia.



If you are a **policy** maker, **executive** leader, **implementer**, **financial** or **development** professional or an organisation passionate about the **veterinary domain in Africa**.



If you seek to understand the **critical gaps in Veterinary Services** across African countries and explore the **potential** of PPPs to deliver VS more effectively and efficiently



And if you are **interested** by the possibilities of addressing present and **future** challenges in VS through innovative and emerging technologies

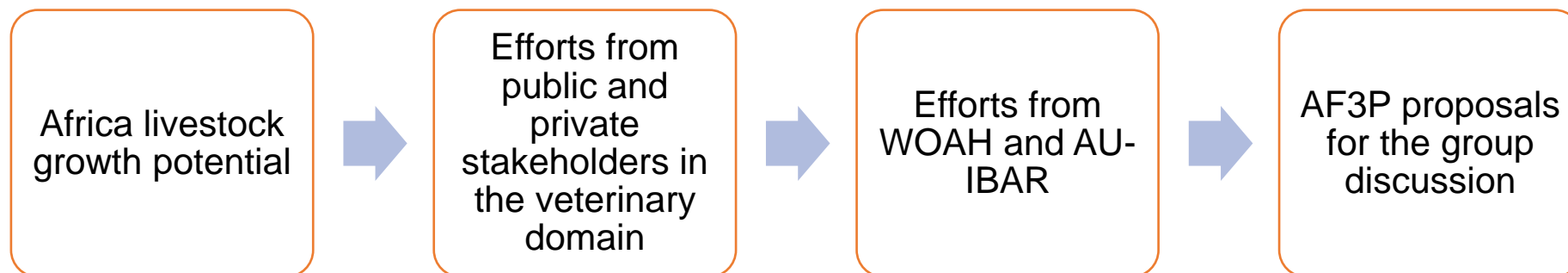
You may struggle to know the initiatives in Africa from diversified stakeholders from public and private sectors dealing with animal health, welfare, sustainable production and food safety.

Currently, there is no single platform to view ongoing PPPs in the veterinary domain in Africa.

## The objective of this presentation

1. Why do we need 'Africa PPP Forum in the veterinary domain'?
2. What is the basic conceptual framework of this forum?

## Outline of the presentation



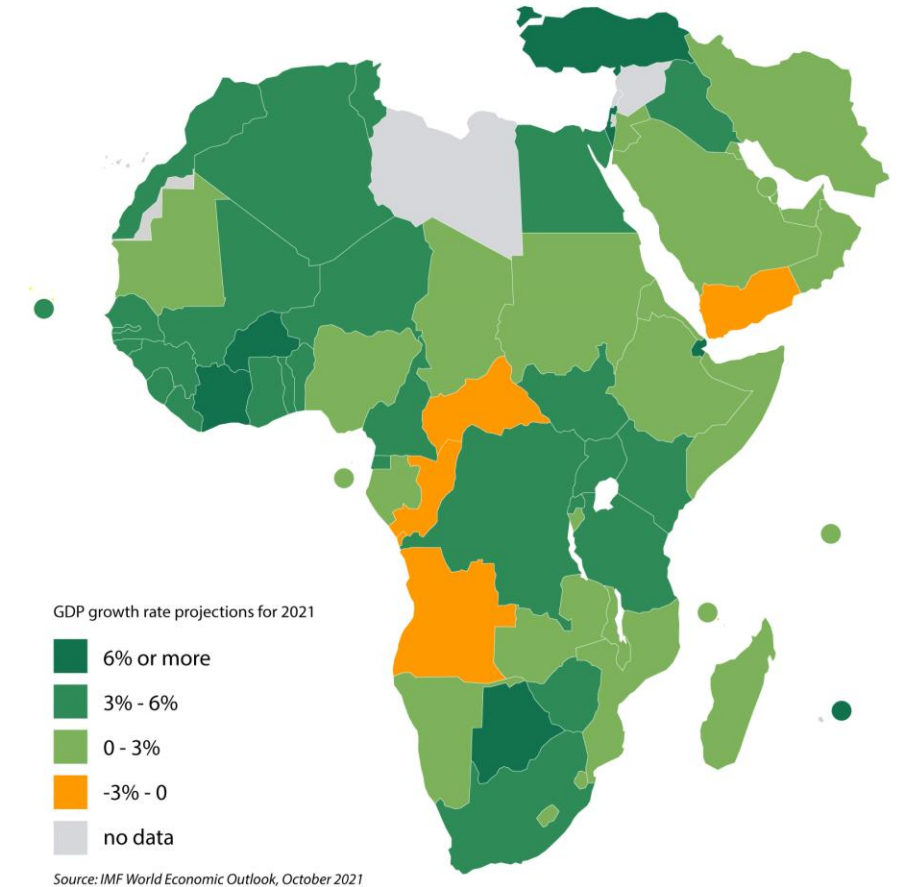
## Expectations for today's meeting

In today's meeting, we will discuss the important aspects of the forum and finalise the launch in November 2024.

## Growing Africa

Livestock,  
Workforce development,  
Women,  
Young people

1. **Africa's livestock sector** will be worth USD 150 billion in 2050
2. Livestock contribute on average **40% of agricultural GDP**
3. **55%** of sub-Saharan Africa's workforce is **employed** in agriculture
4. About **250 million** people directly engaged in livestock production
5. Only 23% of African's women have access to credit, and 15% access to land
6. Sub-Saharan Africa lost **\$2.5 trillion** (11% of total wealth) in 2014 because of **gender inequality\***
7. Current estimates: in Africa by 2030 as many as **140 million jobs for women in livestock\*\***
8. In 2018 over **40% of Africa's 1.2 billion** people were **under 14 years old\*\*\***



\* Data on gender inequality and wealth from: <http://documents.worldbank.org/curated/en/172021527258723053/pdf/126579-Public-on-5-30-18-WorldBank-GenderInequality-Brief-v13.pdf>

\*\* Data on land and credit from: <https://blogs.afdb.org/investing-gender/using-data-close-gender-gaps-and-accelerate-women%E2%80%99s-empowerment-africa-1>

\*\*\* FAO. 2018. The future of Africa's agriculture rests with the youth.

# Africa centric Initiatives and reports from Intergovernmental organisations and research institutions

Food and Agriculture Organization of the United Nations

English

## Africa Sustainable Livestock 2050

The project | Countries | Resources | Partners | News and Events

In the next 30-40 years the demand for animal source foods will grow rapidly in the African continent due to growth in human population, increasing consumer purchasing power and urbanization. As a response, producers and other actors will make significant investments in livestock farming systems and value chains. The impact of these investments on people's livelihoods, public health and the environment will be unprecedented. The future of African livestock will influence the development of the entire continent. We must build today the foundations to steer livestock on a sustainable development trajectory in the future.

Events

- Conference of the International Society for Economics and Social Sciences of Animal Health (ISESAH)
  - Helsinki, Finland
  - 13 June 2023 - 15 June 2023
- Co-creation workshop to scale up biosecurity practices in poultry farms
  - Machakos, Kenya
  - 25 May 2023 - 26 May 2023

Documents

- Awareness of livestock sector
- Business models along the poultry
- Biosecurity and public health
- Laws and flaws, implementation
- Women and biosecurity

## OECD-FAO Agricultural Outlook 2021-2030

OECD

Food and Agriculture Organization of the United Nations

INTERNATIONAL JOURNAL OF AGRICULTURAL SUSTAINABILITY  
2023, VOL. 21, NO. 1, 2247776  
<https://doi.org/10.1080/14735903.2023.2247776>

Routledge  
Taylor & Francis Group

OPEN ACCESS

## Contribution, prospects and trends of livestock production in sub-Saharan Africa: a review

Mammo Mengesha Erdaw

Ethiopian Institute of Agricultural Research, Debre-Zeit Center, Bishoftu, Ethiopia

**ABSTRACT**  
The aim of this paper is to deliver summarized information on livestock production, trends and prospects to the stakeholders/beneficiaries, in sub-Saharan Africa (SSA). It is always suggested that around 70–80% of agricultural land is required to produce both pasture and feeds. The African livestock sector contributes about 30–80% to its Agricultural Gross Domestic Products. From the world's total, around 85% of livestock keepers are found in SSA countries. Although it produces only 2.8% of the world's meat and milk outputs, SSA contributes more than 14% of the world's livestock resources. By 2050, a projected demand for poultry meat, in the selected

**ARTICLE HISTORY**  
Received 7 December 2022  
Accepted 8 August 2023

**KEYWORDS**  
Animal products; feed demands and supply; livestock economy; per-capita protein consumption; productivity; intensification

LD4D  
LIVESTOCK DATA FOR DECISIONS

- About us
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  - Who we are
  - What we do
  - Contributors
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- Explore
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  - Publications
  - All resources

## Improving the landscape of livestock data

## Livestock Data for Decisions

The LD4D network aims to drive informed livestock decision-

## West African Papers

### The Structure of Livestock Trade in West Africa

SEPTEMBER 2020 NO. 29

SAHEL AND WEST AFRICA Club of Africa Secretariat

OECD

Contents lists available at ScienceDirect

ELSEVIER

## Global Food Security

journal homepage: [www.elsevier.com/locate/gfs](http://www.elsevier.com/locate/gfs)

## Africa: The livestock revolution urbanizes

Lucia Rita Latino\*, Ugo Pica-Ciamarra, Dominik Wisser

FAO, Viale delle Terme di Caracalla, Rome, Italy

**ARTICLE INFO**

**ABSTRACT**

**Keywords:**  
Africa  
Rural-urban consumption  
Animal source food  
Urbanisation

Population growth, rising income and urbanisation have fueled a significant increase in demand for animal products in developing countries since the early 1970s. The phenomenon, dubbed as the Livestock Revolution, is anticipated to slow down in the coming decades, except in Africa where the Revolution is expected to continue and urbanize. This paper examines the urbanization of the Livestock Revolution in Africa. It estimates that in 2050 almost 70% of total meat and milk consumption will likely come from cities, with urban dwellers demanding, compared to today, 26 and 47 additional million metric tons of meat and milk, respectively. The consequent transformations of the livestock value chain serving urban and peri-urban areas may pose unprecedented public health and environmental challenges to policy-makers.

and many more...

# Various initiatives on different aspects




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ARTICLES / PRESS RELEASE

## Pathways to dairy net zero: Promoting low carbon and climate resilient livestock in East Africa

Regional initiative that aims to leverage USD 500 million to help communities boost livestock productivity while reducing methane emissions




ALLIANCE FOR SCIENCE

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## Climate change threatens livestock, the foundation of rural Africa

BY JOSEPH MAINA  
MAY 12, 2022

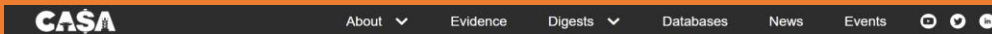


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## About us

The Solutions Broker for Adaptation Action




CASA

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## What CASA Does

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### CASA aims to facilitate global investment in climate-smart agri-food systems that increase incomes for smallholder farmers, especially in Asia and Africa.



MALABO MONTPELLIER PANEL

## MEAT, MILK AND MORE:

Policy innovations to shepherd inclusive and sustainable livestock systems in Africa



A Malabo Montpellier Panel Report 2020

### Perspectives

## Livestock sustainability research in Africa with a focus on the environment

Mulubrhan Balehegn,<sup>1,2</sup> Ermias Kebebew,<sup>1,1</sup> Adugna Tolera,<sup>1</sup> Sarah Hunt,<sup>3</sup> Polly Eriksson,<sup>4</sup> Todd A. Crane,<sup>5</sup> and Adegbola T. Adesogan<sup>6,7\*</sup>

<sup>1</sup>Feed the Future Innovation Lab for Livestock Systems, University of Florida, Gainesville, FL  
<sup>2</sup>Department of Animal, Rangeland and Wildlife Sciences, Mekelle University, Mekelle, Tigray, Ethiopia  
<sup>3</sup>Department of Animal Science, University of California Davis, Davis, CA  
<sup>4</sup>Hawassa University, Hawassa, Ethiopia  
<sup>5</sup>International Livestock Research Institute, Nairobi, Kenya  
<sup>6</sup>Department of Animal Sciences and Food Systems Institute, University of Florida, Gainesville, FL

#### Implications

- Livestock in African countries contribute to about 10% of enteric methane emissions from dairy cattle worldwide despite producing only 3.9% of the world's milk.
- Livestock in Sub-Saharan Africa also cause extensive land degradation with 48% of rangelands in SSA degraded due to overgrazing.
- Strategies for sustainable intensification of livestock such as improving quality of feed, range and grazing land rehabilitation, introduction of improved forages and silvopastoral systems, and improvement of herd genetics can reduce both total emission and emission intensity while improving productivity.
- Sustainable intensification strategies are not always readily adopted, therefore, smallholder farmers in Africa require policy directives, financial and technical support.

the demand for animal-source food (ASF) is projected to increase due to population growth, increased incomes, and urbanization. By 2050, consumers in low- and middle-income countries will demand 107 million tons more meat and 5.5 million tons more milk than they did in 2005/2007 (Alexandratos and Bruinsma, 2012). The current per capita annual consumption of meat and milk of about 14 kg and 30 L, are projected to rise to 26 kg and 64 L, respectively, by 2050 in SSA (AU-IBAR, 2016). However, African livestock also have significant impacts on the environment (Cerber et al., 2013). More than 70% of agricultural GHG emission in Africa comes from the livestock sector dominated by enteric methane (CH<sub>4</sub>) emission (Tubiello et al., 2014). Greenhouse gas emission intensity (i.e., emissions per unit of livestock product) in east Africa is four times greater than the global average (Pressman et al., 2018), and estimates from other parts of SSA are likely similarly high. The North American average milk yield of 9,000 kg/cow per year is much greater whereas the carbon footprint of 1.3 kg of CO<sub>2</sub>-eq/kg of




African Climate Action Partnership

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## Livestock Community of Practice

The livestock sector is critical for many African countries' economies, food and nutrition security, and livelihoods and employment. Although Africa's contribution to GHG is relatively low, the AFOLU sector makes up a significant portion of the continent's emissions, with the livestock sector having a



FARM AFRICA

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## Who we are

Our history  
Mission, vision and values  
Our board and staff  
Our patron and ambassadors  
Our policies


## About us

Farm Africa is an international organisation working to build a resilient rural Africa where people and the environment thrive.


We help farmers to increase their harvests, build their incomes and sustain natural resources, partnering with governments and the private sector to find effective ways to fight poverty.

We work closely with local communities, who actively participate in all the decisions about our work.

Typically, our staff are from the local area, can speak the local language and have a deep understanding of the local context.




## What we do



Farm Africa means business. We put world-class expertise into farmers' hands, making them productive, climate-smart.

## Where we work

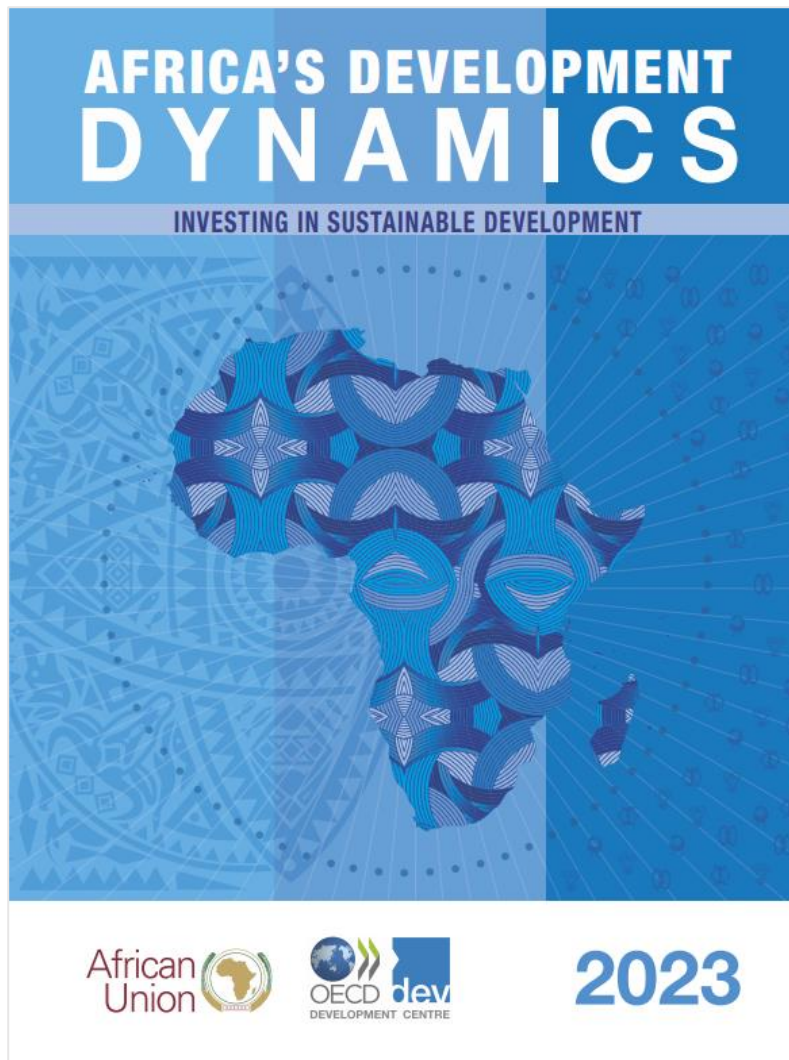


Our staff work on the ground in DR Congo, Ethiopia, Kenya, Tanzania and Uganda.

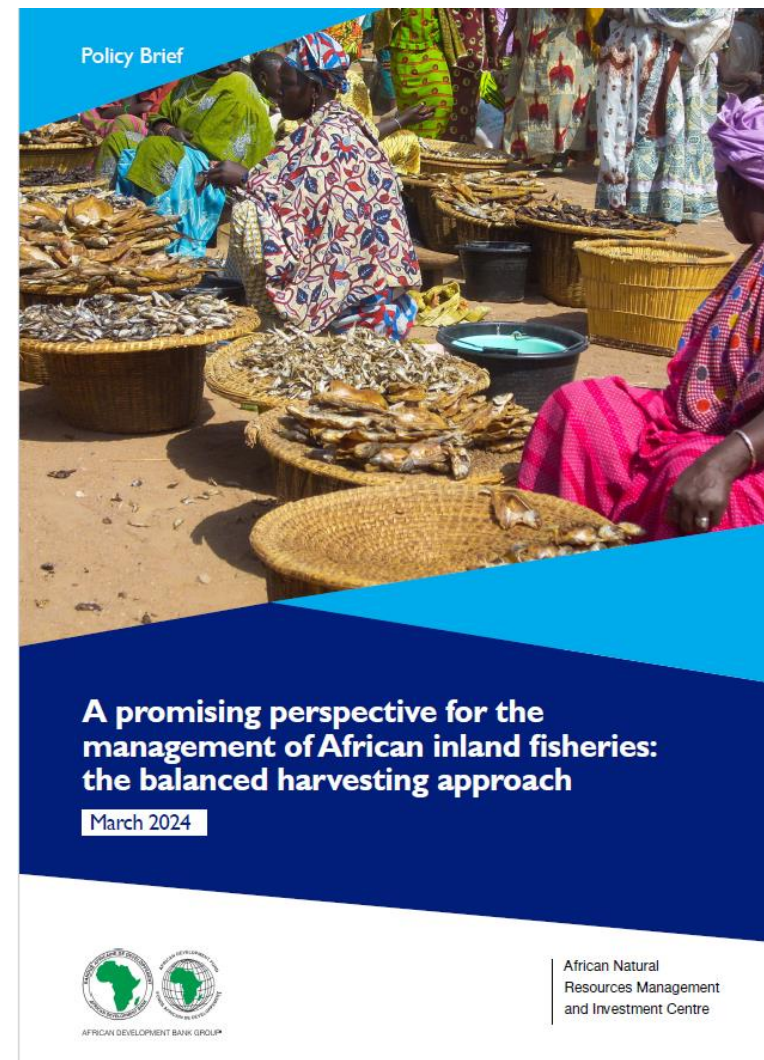
2021



2023



2024





**AFRICAN UNION  
INTERAFRICAN BUREAU  
FOR ANIMAL RESOURCES**

**REINFORCING VETERINARY GOVERNANCE IN AFRICA**

**VET-GOV**

**LIVESTOCK POLICY LANDSCAPE IN AFRICA:  
A REVIEW**

**COMESA**

**Regional Livestock Policy  
Framework COMESA**

Luanda, Zambia 2015

**AFRICAN DEVELOPMENT BANK GROUP  
GROUPE DE LA BANQUE AFRICAINE  
DE DEVELOPPEMENT**

**AFRICAN DEVELOPMENT BANK GROUP  
PPP STRATEGIC FRAMEWORK 2021-2031**

November 2021

**Feeding Africa**  
21-23 OCTOBER 2015  
Abdou Douf International  
Conference Center

**African Livestock Transformation**  
An Action Plan for African Agricultural Transformation

Author:  
Jimmy Smith, ILRI

Co-convenor:  
Simplice Noutala, AU-IBAR

**EAC**

**JUMUIYA YA AFRIKA MASHARIKI**

**THE EAST AFRICAN COMMUNITY**

**EAC LIVESTOCK POLICY**

Adopted by 34<sup>th</sup> Council of  
Ministers on 5<sup>th</sup>  
September, 2016



**42/54** countries in Africa have enacted PPP legislation.

Since 2015, **28 countries in Africa** adopted PPP Laws.

Government teams focusing on PPPs comprise **independent institutions and units** attached to **Ministries of Finance**, technical ministries, or the **Prime Minister's or President's office**.



# PPP Proposals from the veterinary domain vs projects from Infrastructure, Energy, ICT and other heavy investment projects



1

Partnership capacity and understanding of roles and responsibilities of public and private stakeholders and PPP projects initiation, implementation and M&E

4

Discussion on the enabling legislative environment for PPP implementation in the veterinary domain and develop National, regional and continental plan



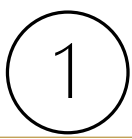
Gap and improvement area identification

(eg Research findings, reports and studies from ILRI, WOA, FAO and other partners, AU-IBAR)

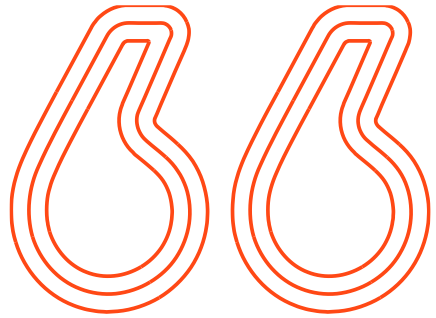
2

Experiences and lessons learned from implementation organisation and partners (eg GALVmed, Action for Animal Health, Private organisations or Government organisations etc)

3

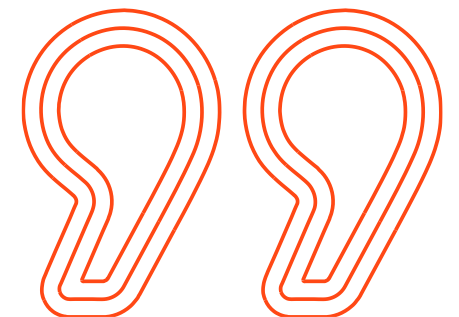


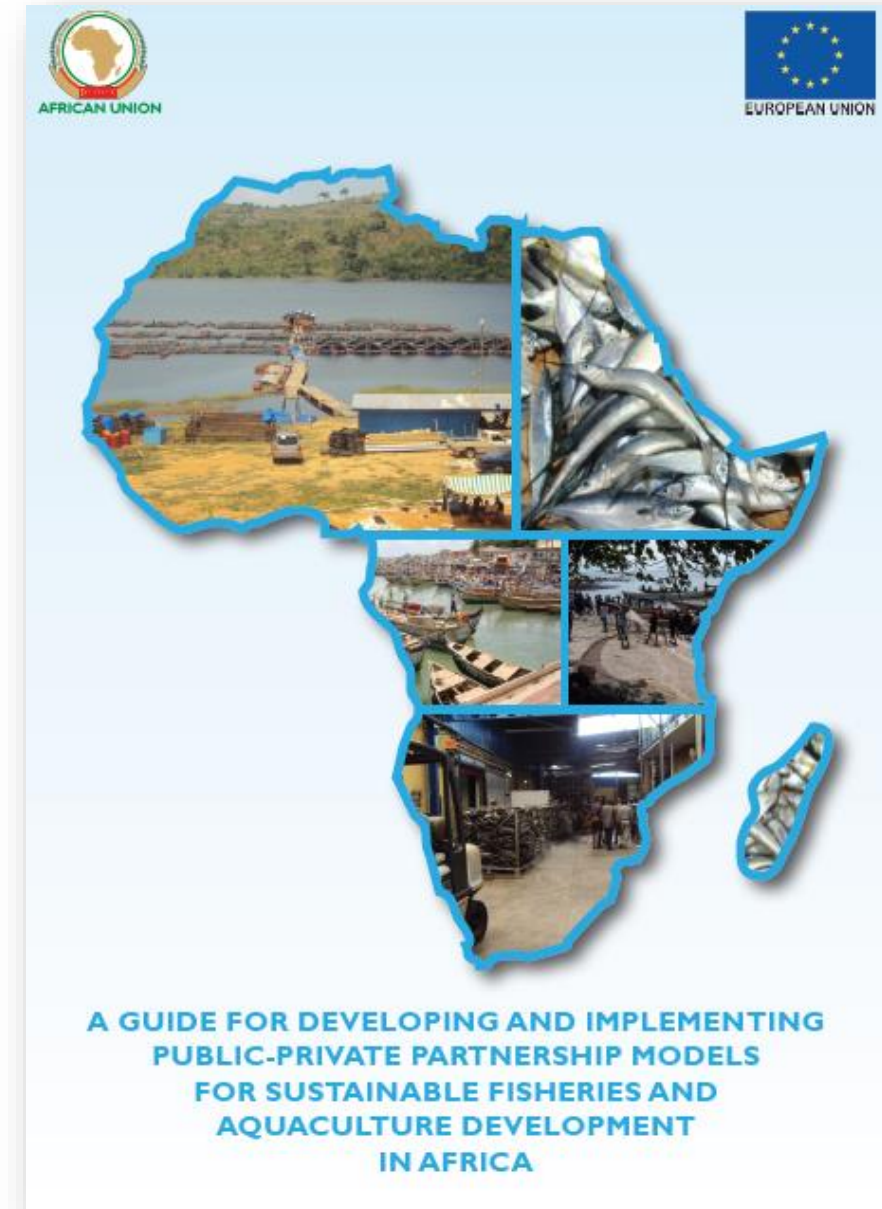
## Partnership capacity and understanding of roles and responsibilities of public and private stakeholders and PPP projects initiation, implementation and M&E



*Public-private partnership is a joint approach in which the public and private sectors agree responsibilities and share resources and risks to achieve common objectives that deliver benefits in a sustainable manner.*

World Organization for Animal Health







1

## Partnership capacity and understanding of roles and responsibilities of public and private stakeholders and PPP projects initiation, implementation and M&E

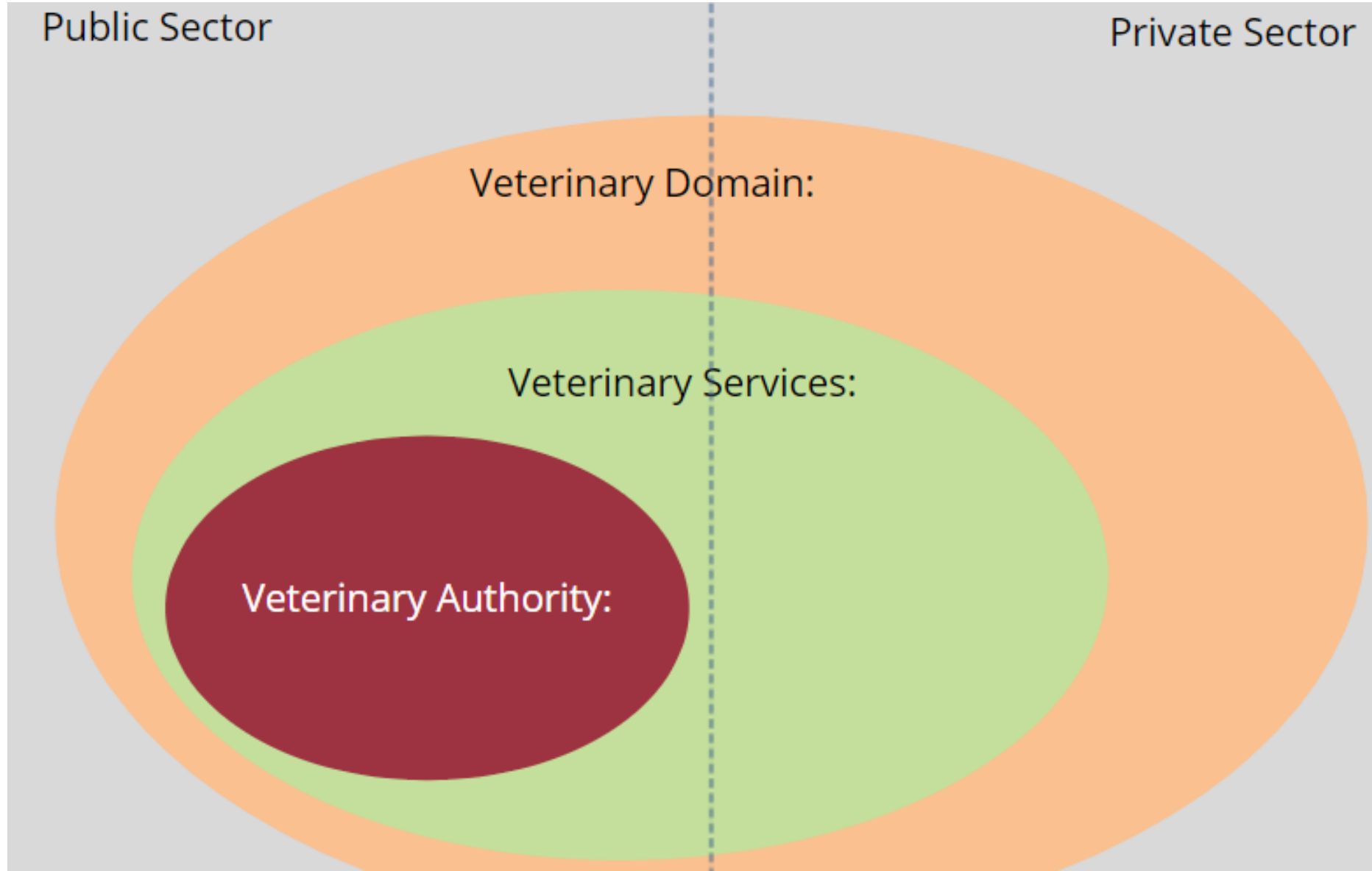
### VETERINARY Services

The **governmental and non-governmental organisations** that implement **animal health and welfare measures** and other standards and recommendations in the WOAHA Terrestrial Animal Health Code and the WOAHA Aquatic Animal Health Code in the territory

### VETERINARY DOMAIN

**All activities** that are **directly** or **indirectly** related to terrestrial and aquatic animals, **their products and by-products**, which help to protect, maintain and improve the health and well-being of **people**, including by means of the protection of **animal health and animal welfare, and food safety**

Source: Article 3.4.2 of the WOAHA Terrestrial Animal Health Code on veterinary legislation





1

## Partnership capacity and understanding of roles and responsibilities of public and private stakeholders and PPP projects initiation, implementation and M&E

### Private Partners



Private veterinary practitioners, veterinary paraprofessionals or community animal health workers



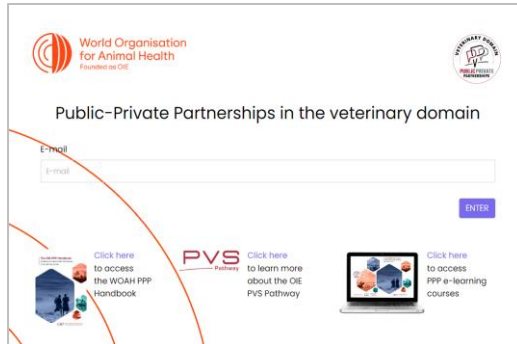
Producers and/or producer associations, livestock production industries



National or international companies with an interest in the veterinary domain



## WOAH PPP Database



Animal Disease control  
and eradication  
**31 countries**



Livestock productivity  
**27 countries**



Improve competencies of  
veterinary professionals and  
paraprofessionals  
**21 countries**



Improved livelihood  
and employment  
**51 countries**

## Open-access Collaborative



Improve the quality of  
veterinary services  
**42 countries**



Improve food safety and  
security  
**17 countries**



AMR Control  
**10 countries**



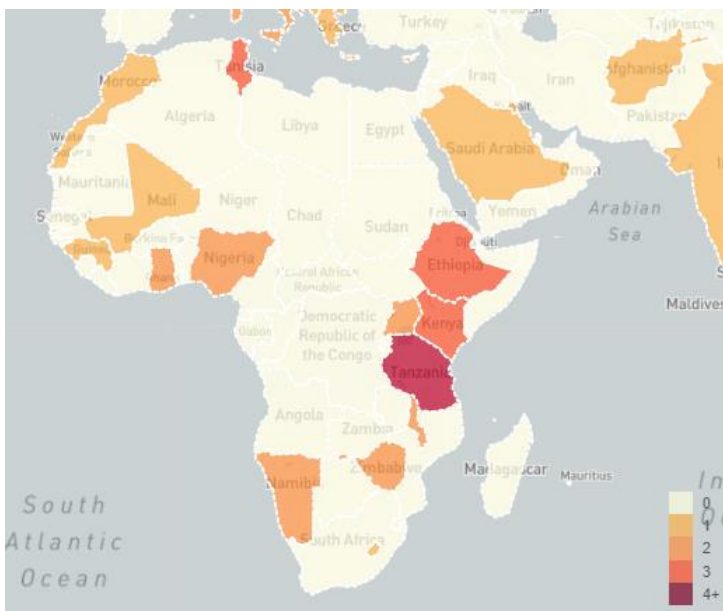
Improve Market  
Access  
**10 countries**



# 18 Transformative PPPs in Africa (Private companies, Producers association, Exporters etc)

## Public-Private Partnership Database

The World Organisation for Animal Health launches a database on public-private partnerships in the veterinary domain



Source: Data retrieved from WOAH PPP Database on 3 March 2024  
[www.woah-ppp-database.com](http://www.woah-ppp-database.com)

**Public-Private Partnerships in the veterinary domain**

**Public-Private Partnership**  
*(see the table keys below)*

Show  entries

Search:

Region	Country	PPP title	PPP type	Animal(s)	Service type
Af	<input type="text" value="Search"/>	<input type="text" value="Search PPP title"/>	<input type="text"/>	None	<input type="text" value="Search Service type"/>
Africa	Malawi	Center for ticks and tick-bone diseases			Communication, awareness campaigns Laboratory diagnosis Production/control of veterinary products (including AMR control) Training & education Vaccine supply
Africa	Malawi	Rural Poultry Center			Communication, awareness campaigns Production/control of veterinary products (including AMR control) Training & education Vaccine supply
Africa	Ghana	Ghana Poultry Project			Vaccination Human and material resources
Africa	Gambia	National Livestock Owners Association			Communication, awareness campaigns Disease prevention & control measures (other than vaccination) Surveillance
Africa	Zimbabwe	Project Increasing Incomes for Communities Through Livestock Production and Marketing			Disease prevention & control measures (other than vaccination) Laboratory diagnosis Training & education Surveillance Provision of remedies
Africa	Zimbabwe	Zimbabwe farmer s union - vaccination of cattle against anthrax and clostridies			Vaccination Sundries
Africa	Kenya	Sidai Africa Ltd in Kenya		N/A	Multiple
Africa	Uganda	Uganda goat export			Disease prevention & control measures (other than vaccination) Training & education Technical support and supervision, production and disease management

Region	Country	PPP title	PPP type	Animal(s)	Service type
Africa	Tanzania	FMD in Tanzania			Animal production food safety and inspection Animal Welfare Communication, awareness campaigns Disease prevention & control measures (other than vaccination) Surveillance Training & education Vaccination Meetings, Expertise
Africa	Kenya	Technoserve			Mobile animal health services, Consultation, Implementation
Africa	Tunisia	Mapping aviculture Maghreb			Vaccine approaches and evaluation of their expected effectiveness
Africa	Nigeria	Pilote vaccination program against Newcastle			Production/control of veterinary products (including AMR control) Vaccination
Africa	Uganda	SOS Uganda			Disease prevention & control measures (other than vaccination) Field technical support
Africa	Ethiopia	National PPP guideline for Veterinary Service			Animal movement control and traceability Animal production food safety and inspection Animal Welfare Clinical services Disease prevention & control measures (other than vaccination) On-farm biosecurity Vaccination
Africa	Nigeria	Peste Des Petits Ruminates(PPR) and Newcastle disease Vaccination Project			Communication, awareness campaigns Surveillance Vaccination
Africa	Uganda	Zoetis diagnostic support partnership for university training institutions			Animal Welfare Laboratory diagnosis Training & education
Africa	Ethiopia	Capacity building of veterinarians on Poultry Health Management in Ethiopia			Communication, awareness campaigns On-farm biosecurity Training & education

Showing 1 to 18 of 18 entries (filtered from 102 total entries)

1

Partnership capacity and understanding of roles and responsibilities of public and private stakeholders and PPP projects initiation, implementation and M&E



2

Gap and improvement area identification, relevant for PPPs (eg Research findings, reports and studies from ILRI, WOA, FAO and other partners, AU-IBAR)

4

Discussion on the enabling legislative environment for PPP implementation in the veterinary domain and develop National, regional and continental plan

3

Experiences and lessons learned from implementation organisation and partners (eg GALVmed, Action for Animal Health, Private organisations or Government organisations etc)

1. Objective
2. Nature of the Forum
3. Members and Stakeholders
4. Meetings and *Annual Meeting (Membership Assembly)*
5. Publications and External Communications
6. Financing for the Forum
7. And many more....



**1. Objective:** To establish a platform for discussing PPPs in the Veterinary Domain at the African level and to facilitate networking for sharing knowledge, experience, and ideas.

**2. Nature of the forum:**

- The Forum is not a decision-making body and will aim to reach a consensus on issues being discussed.
- There are no costs associated with membership.

**3. Members from the following organisations working in Africa**

- Intergovernmental organisations
- Regional Economic Committees
- Non-governmental organisations
- National governmental institutions
- Private sector entities organised through constituencies or international business associations, Farmer/Producer Associations and trade association
- Philanthropic foundations
- Academic and research institutions

#### 4. Annual Meeting (*Membership Assembly*)

The Forum's meetings may be combined with other relevant bodies or events when possible and appropriate.

- For example, the WOAHA Africa Regional Conference occurs every second year as in-person conference (2025 Ethiopia)
- In other years, it will be an independent activity or clubbed with AU-IBAR activity.
  
- Members may also meet by videoconference/online between annual meetings.
  
- A steering Group may be created with the following responsibilities
  1. Provide oversight for the operative work of the Forum.
  2. Review Forum membership applications
  3. Organise the Forum Annual Meeting and its agenda.
  4. Endorse the Forum work plan.

## **5. Publications and External Communications:**

As an outcome of the forum, a publication summarises the activities and recommendations on policy and strategy based on the deliberations in the forum.

## **6. Financing for the Forum**

Today's discussion will help in the development of the sustainable plan.

**Proposed launch: November 2024 in the WOAHA Continental conference**

# Thanks, and looking forward to the Group discussion on these important aspects

12, rue de Prony, 75017 Paris, France  
 T. +33 (0)1 44 15 19 49  
 F. +33 (0)1 42 67 09 87

woah@woah.int  
 www.woah.org

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World  
 Organisation  
 for Animal  
 Health  
 Founded in 1924

Organisation  
 mondiale  
 de la santé  
 animale  
 Fondée en 1924

Organización  
 Mundial  
 de Sanidad  
 Animal  
 Fundada en 1924

## HYBRID ORIENTATION MEETING

### AFRICA PUBLIC-PRIVATE PARTNERSHIPS FORUM IN THE VETERINARY DOMAIN

Jointly Organised by African Union - Inter-African Bureau for Animal Resources (AU-IBAR) and World Organisation for Animal Health (WOAH)

Date: 4 April 2024 | Time: 1400 -1700 EAT

TIME	AGENDA ITEM	PRESENTER
Moderator: Mary Mbole-Kariuki, AU-IBAR		
14:00 - 14:10	<b>Welcome and Opening Remarks</b>	
	Director AU-IBAR	Dr. Huyam Salih
	WOAH Sub-Regional Representation for Eastern Africa	Dr. Samuel Wakhusama
14:10 - 14:20	<b>Introduction of Africa PPP Forum</b>	
	Objectives of the Orientation meeting	Prof. James Wabacha
	Conceptual framework	Dr. Rahul Srivastava
14:20 - 14:50	<b>Contextual views on PPPs in the veterinary domain</b>	
14:50 - 15:00	Lessons learnt and best practices in PPPs for Research and Development	ILRI
15:00 - 15:10	Lessons learnt and best practices in implementing PPPs at the Community level	GALVmed
15:10 - 15:20	Guide to facilitate participation of private sector in Fisheries and Aquaculture	AU-IBAR
15:20 - 16:30	<b>Group Work</b>	
	<ul style="list-style-type: none"> <li>Creation of groups and necessary instructions.</li> <li>During this group exercise, each group is required to discuss two questions.</li> <li>One rapporteur will capture the discussion in bullet form to ensure all important points are noted.</li> <li>Please remember that each group has been allocated 30 minutes per question.</li> </ul>	<b>Moderators:</b>
		Prof. James Wabacha
		Dr. Hiver Boussini
		Dr. Mary Mbole-Kariuki
	1. Defining the Roles and mapping of Stakeholders	Dr. Rahul Srivastava
	2. Governance, Structure and Sustainability of Africa PPP Forum	Dr. Patrick Bastiaensen
16:30 - 16:40	<b>Coffee break</b>	
16:40 - 17:20	<b>Plenary discussion</b>	
17:20 - 17:30	<b>Next steps forward</b>	



# Supplementary Slides

Sphere of control  
**OUTPUTS**

Sphere of Influence  
**INTERMEDIATE AND LONG-TERM OBJECTIVES**

Sphere of interest  
**IMPACTS**

Improved knowledge of Gaps in veterinary services and PPP: AF3P, Open-access WOAHP PPP database and AU-IBAR Communication

Improved stakeholder consultations and strengthened engagement at the Africa level for sustainable funding.

Promote meaningful partnerships in priority areas including aquatic animals, AMR, Wildlife, Emergency preparedness, animal welfare, safe and secure trade of livestock and livestock products

Member can identify partnership opportunities in animal health value chain with diverse stakeholders.

Members learn from others country's PPP experiences and share theirs through AF3P and WOAHP PPP database

Financial and development organizations are interested in investing in sustainable and impactful PPPs in Animal health.

Industry association and social sector are interested in PPPs in veterinary domain.

**1**  
Improve partnership capacities of public and private stakeholders 1

**2**  
Encourage multi-sectoral partnership approach and attract investment in animal health by sharing PPP experiences from Africa

**IMPROVED QUALITY, EFFICIENCY AND SUSTAINABILITY OF VETERINARY SERVICES BY SUSTAINABLE PARTNERSHIPS**

Improving livelihoods

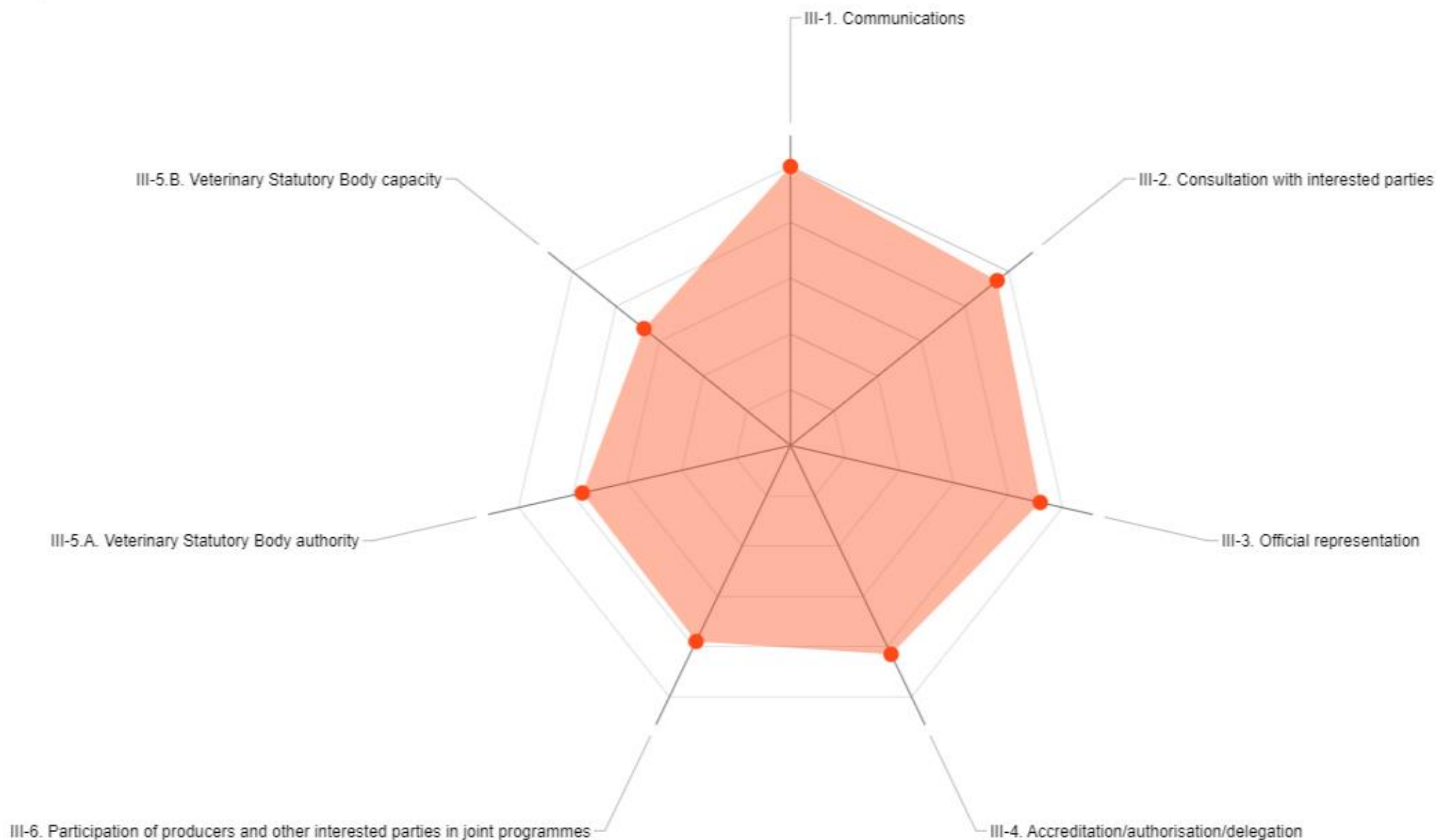
Improving food security

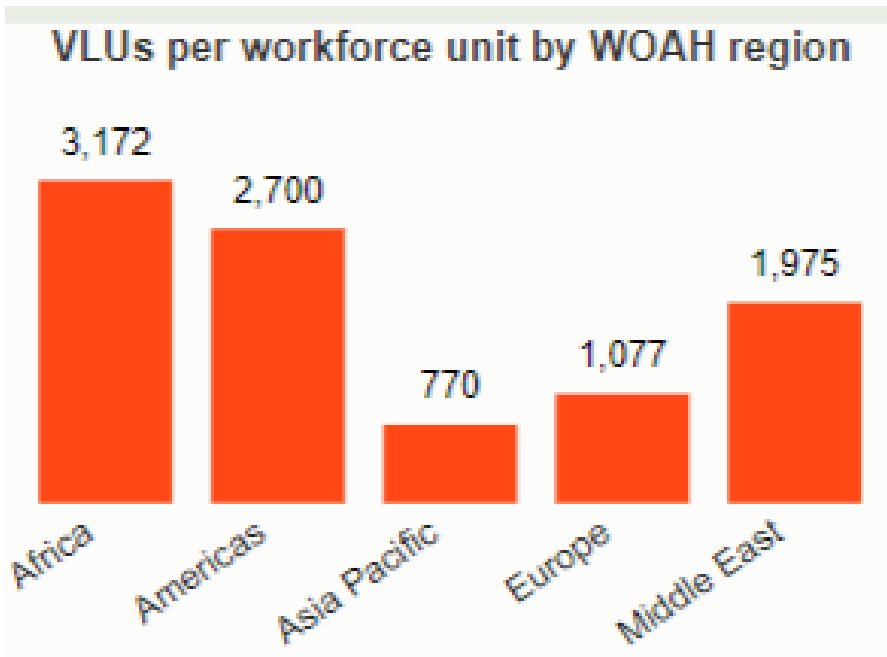
Enhanced public health

Reduced risk with efficient animal disease control

to report

AVERAGE LEVEL OF ADVANCEMENT, BY CRITICAL COMPETENCY





<b>Global</b>	 <b>1.1M</b> total veterinarians*	 <b>1.1M</b> total veterinary paraprofessionals	 <b>2.2M</b> workforce
<b>Asia Pacific</b>	 <b>558.2K</b> total veterinarians*	 <b>876.5K</b> total veterinary paraprofessionals	 <b>1.4M</b> workforce
<b>Europe</b>	 <b>272.1K</b> total veterinarians*	 <b>31.7K</b> total veterinary paraprofessionals	 <b>303.8K</b> workforce
<b>Americas</b>	 <b>134.9K</b> total veterinarians*	 <b>112.6K</b> total veterinary paraprofessionals	 <b>247.6K</b> workforce
<b>Africa</b>	 <b>90.5K</b> total veterinarians*	 <b>67.1K</b> total veterinary paraprofessionals	 <b>157.6K</b> workforce
<b>Middle East</b>	 <b>10.5K</b> total veterinarians*	 <b>12.4K</b> total veterinary paraprofessionals	 <b>22.9K</b> workforce

# Observatory report



**Governance and  
Performance of Veterinary  
Services**

[Discover](#) →



**Veterinary Services'  
workforce and resources**

[Discover](#) →



**World Trade Organization  
(WTO) notifications**

[Discover](#) →



**Disease detection,  
surveillance and diagnosis**

[Discover](#) →



**Transparency of Veterinary  
Services**

[Discover](#) →



**Self-declarations of animal  
health status**

[Discover](#) →



**Movement control inside the  
country/territory and  
precautions at border**

[Discover](#) →



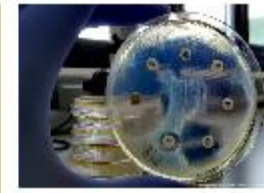
**Zoning and  
compartmentalisation**

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**Emergency preparedness**

[Discover](#) →



**Antimicrobial use and  
antimicrobial resistance**

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**One Health**

[Discover](#) →

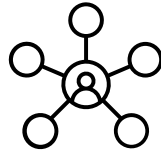


**Animal welfare**

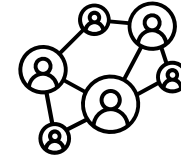
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Veterinary services improvement



At the country level



At the Sub-regional level



At the Continental level

Diversified activities and stakeholders

