



Towards a More Resilient Veterinary Workforce for Africa 2024

Continental Conference 26 – 28 November 2024 Nairobi, Kenya

Animal health is our health. It's everyone's health



BMZ

Federal Ministry
for Economic Cooperation
and Development



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GATES foundation**



Building Capacity for Animal Health Service Providers through Remote Care in Kenya

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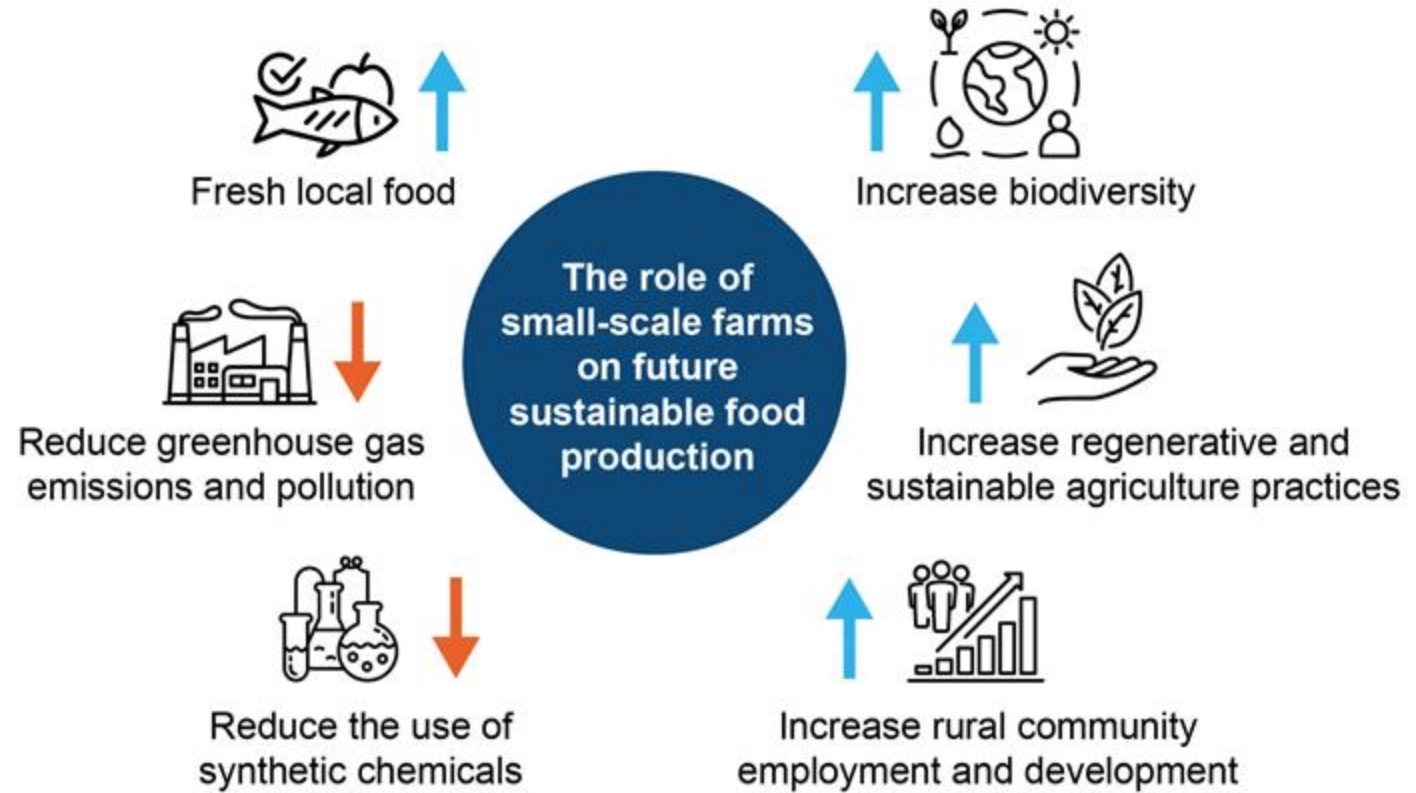
The Burden

Livestock, Farmers, Veterinary Para-Professionals (VPPs) and
Veterinarians

Challenges for Small-Scale Farmers

- Lack of accessible and affordable veterinary care
- Lack of quality products and vaccines
- Inconsistent feeds and nutritional practices
- Access to verified information and quality advice
- Consequences:
 - Low medicalization rates
 - Substandard health practices
 - Poor treatment outcomes
 - Animals suffer high disease challenges
 - High mortality rates and low productivity

Small-scale farmers
play **critical roles** in
local and
sustainable
production of food

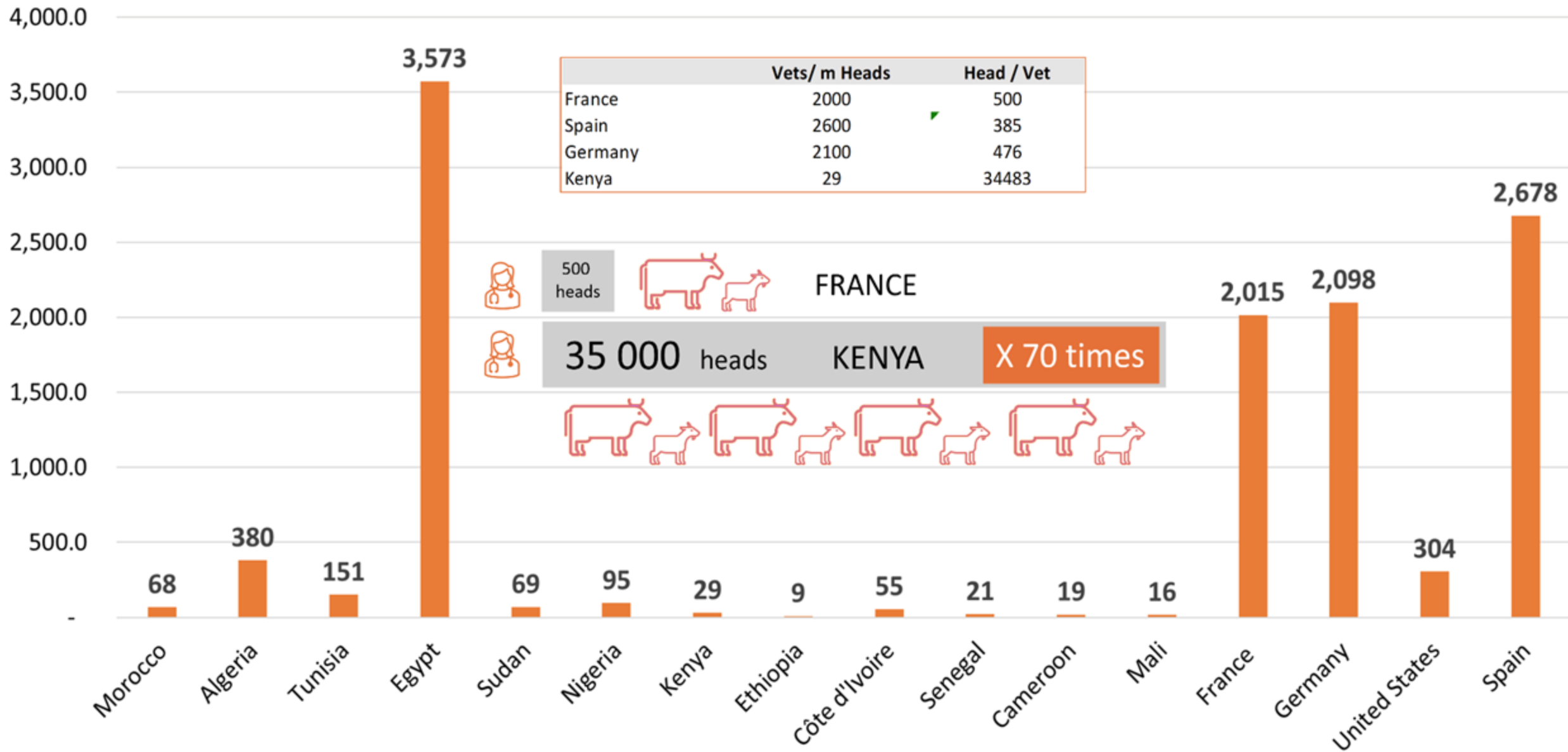


Challenges for Veterinarians and VPPs

- Shortage of available Vets and VPPs
- Long travel distances between farms
- Low livestock density in many regions
- Mostly emergency visits, no preventative care
- No vet supervision of the VPPs
- Consequences
 - Revenue-earning potential per appointment is low
 - Vets and VPPs are disincentivized to service small-scale farms
 - Most common issue for vets: clients can't afford to pay



Number of vets for 1 000 000 heads



Cost of Low Livestock Medicalization Rates

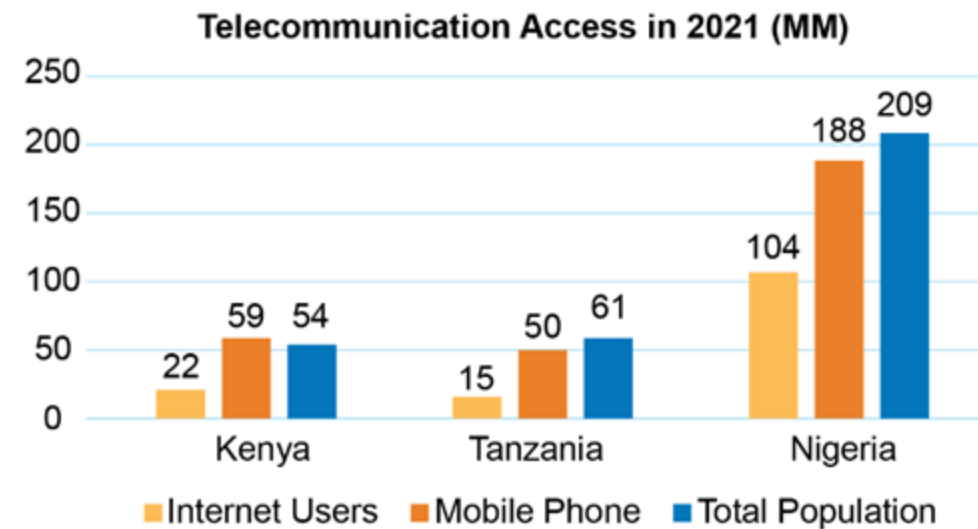
- What does livestock mean to Kenya?
 - 60% of the 12.1 million households in Kenya keep livestock
 - Contributes 12% of overall and 40% of Agricultural GDP (GDP = 107 billion USD)
 - 70% of livestock owners are considered small-scale (average herd of 3 cattle)
- What does low medicalization mean ?
 - 70% of the livestock herd is underserved by AHPs
 - Only 10% of the Kenyan livestock herd is vaccinated
 - Many diseases are preventable and treatable with existing knowledge and treatment
 - This reduces the Kenyan Agricultural GDP by 25%



The Opportunity For Intervention

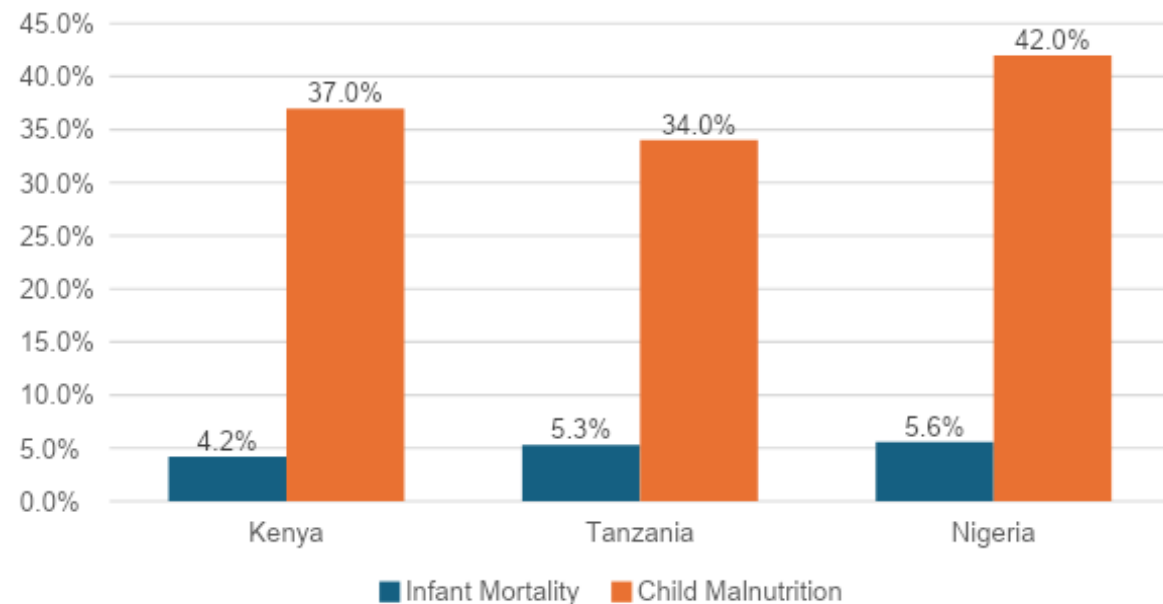
Country	Kenya	Tanzania	Nigeria
Current Population (in MM)	56	64	221
2050 Population (Projected) (in MM)	95	130	392
Median Age (in Years)	20	18.2	18.6
Agriculture Based Workforce (in %)	40-45	70-75	35-40
Supply Chain Infrastructure	Evolving	Evolving	Evolving
Food Security Issue	Significant	Significant	Significant

[Online source: Ministry of Agriculture, Trade Information, Industry Sources]

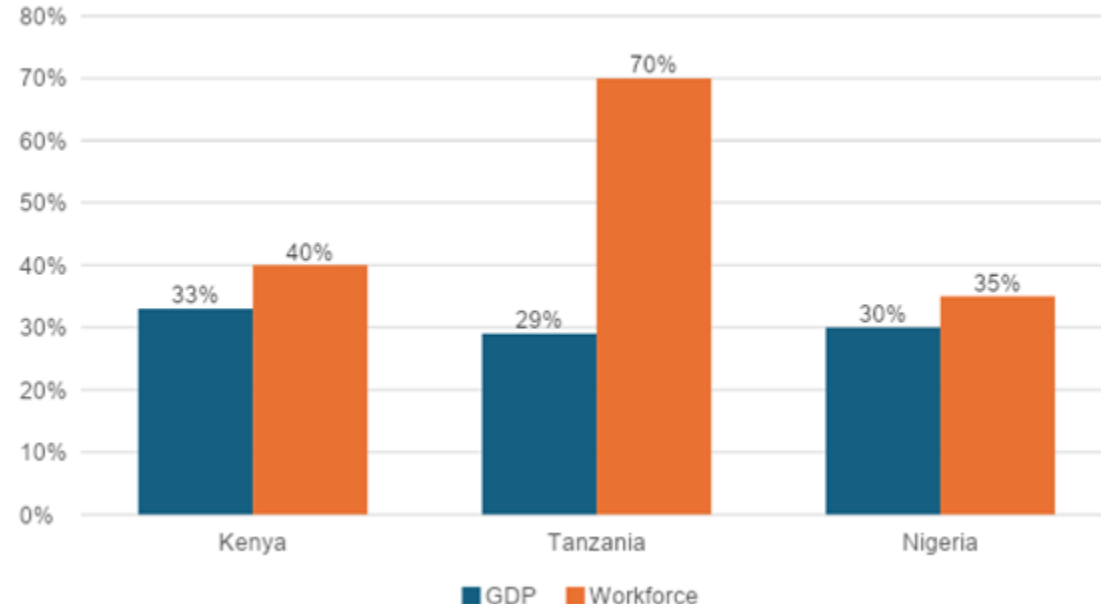


[Source: Country Market Plans, International Trade Administration, Bowmans, Business Monitor]

Social Determinants of Health



Agriculture Industry Contribution



DAHA Partnership - Digitizing Animal Health in Africa

- **VetNOW** – Leader in Animal Telehealth in the USA. Project Leader.
- **NADIS** – 30-year track record in disease surveillance and animal health Knowledge Transfer in the UK.
- **AVTA** – Bring together Veterinary Para-Professionals (VPPs) in Africa to promote improved animal health. AVTA has 130,000 members.
- **GALVmed** – 15 years' experience of delivering animal health development projects in Africa and Asia.



Protecting Livestock – Improving Human Lives



Timeline

Phase 1: 12 Months

Early 2024

App Development and Integration; building network and team in Kenya

June - August 2024

Field Trials : Onboard 30 Vets and VPPs

September – December 2024

Launch of targeted program in Nakuru and Kiambu Counties
: Onboard 30 Vets and 255 VPPS

Phase 2: 2025

Expansion across Kenya at scale

Onboard at least 100 vets and 1000 VPPs

Phase 3: 2026-2028

Expansion into Tanzania and Nigeria

E-Commerce Integration with Product Distributors

Phase 4: 2028 and Onwards

Expansion into 18 AVTA member countries

Progress to Date

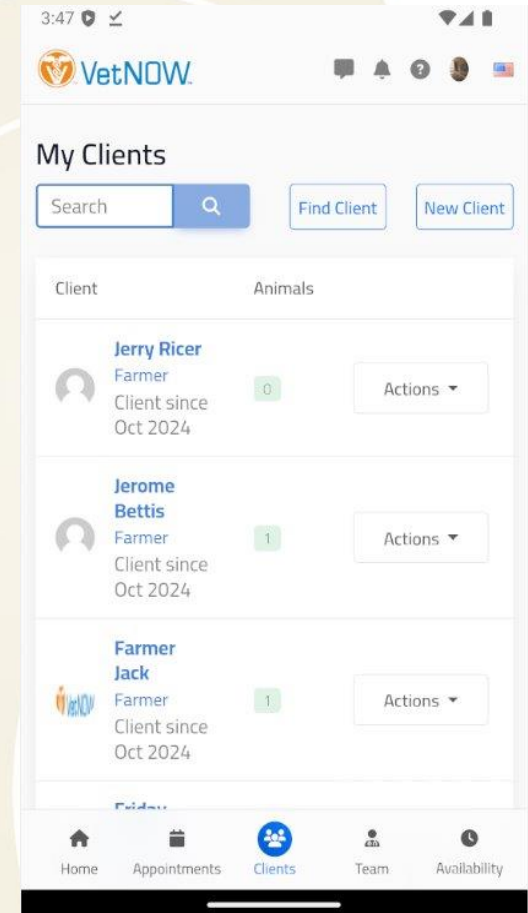
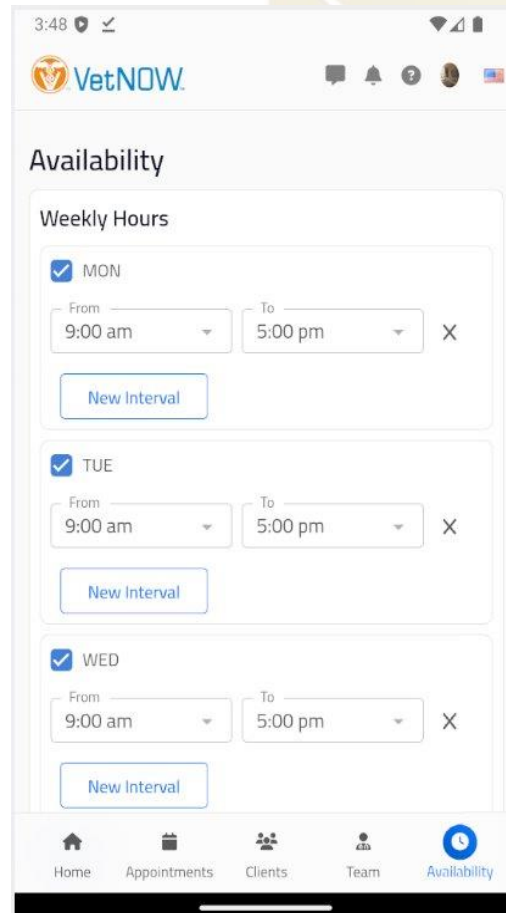
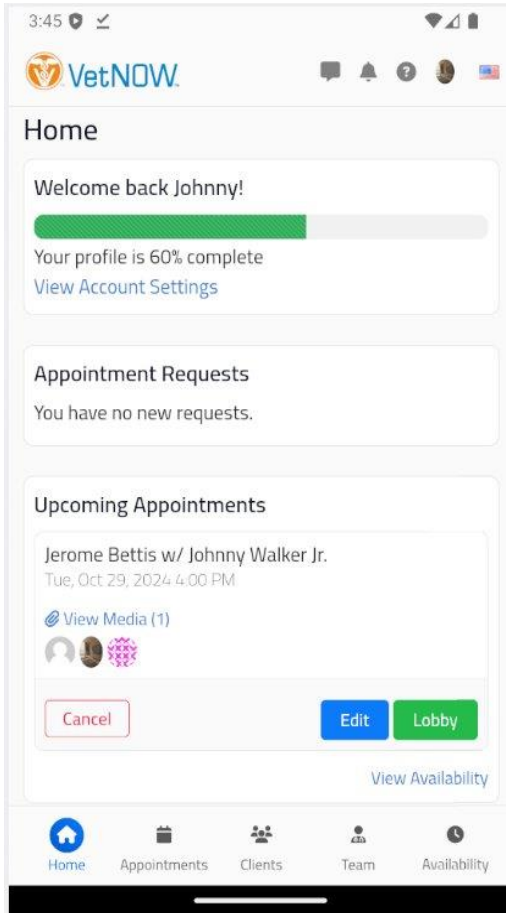
- 30 Animal Health Providers (AHP) Field Trial Participants
 - How were they selected and trained?
 - 9 training courses across 2 counties
 - Over 300 AHPs currently trained to utilize the tools



Building Capacity

On the Job

Increase business capacity



Medical records

Create New Medical Record ✕

Record Type ▾

Search...

- Physical Examination
- Site Evaluation
- Visit Summary


0

+ Medical Records

Media

Home
Appointments
Clients
Team
Availability

NADIS



VPP Name

Melissa Kibet

VPP ID

VTC00007

Accreditation Period

2025

Vet Supervisor

Linda Vet

Log In

ACVLA ↺ ☰










Select an animal species

Cattle







Sheep / Goats

ACVLA ↺ ☰

Which areas / organs are affected?

 Limb	 Lungs	 Male Repro.	 Mouth
 Nose	 Skin	 Swelling	 Udder
 Urine			

Behaviour

 Behaviour	 Body Cond.	 Posture	 Death
			


SELECT SIGNS

Clinical Recognition Tool


ACVLA

< Lungs

Difficulty breathing



Fast breathing




ADD SIGNS DIFFERENTIALS 0

ACVLA

< Differentials 9

Anaplasmosis (Anaplasma Ovis)



Best Match

Pale mucous membranes

Bloat (Ruminal Tympany)

CHECK

ACVLA

< Anaplasmosis (Anaplasma Ovis)

You have identified

50%

of the clinical signs

Find out more about:

Lab Diagnosis


Prevention

Recommended Treatment

ACVLA

< Confirm Clinical Signs

Anaplasmosis (Anaplasma Ovis)





Blood in urine

✓ ✗

CONFIRM

Treatment, Prevention, Lab diagnosis

ACVLA  

< Anaplasmosis (Anaplasma Ovis)

You have identified

100%

of the clinical signs



Find out more about:

[Lab Diagnosis](#)

[Prevention](#)

[Recommended Treatment](#)

<https://acvla.nadis.org.uk/sheep/disea...anaplasma-ovis/summary/lab-diagnosis/>

ACVLA  



< Recommended Treatment

tetracyclines and imidocarb

Find out more about:

[Lab Diagnosis](#)

[Prevention](#)

ACVLA  

< Lab Diagnosis



Giemsa-stained blood smears and serologic tests such as ELISA.

Find out more about:

[Prevention](#)

[Recommended Treatment](#)

<https://acvla.nadis.org.uk/sheep/disea...is-anaplasma-ovis/summary/prevention/>

ACVLA  

< Prevention

Prevention of vector bites. no vaccination for sheep

Find out more about:

[Lab Diagnosis](#)

[Recommended Treatment](#)

<https://acvla.nadis.org.uk/sheep/disea...anaplasma-ovis/summary/lab-diagnosis/>

Conclusions and Next steps

- Benefits of Livestock telehealth

- Supervision of VPPs is improved
- AHPs serve more clients
 - Less travel time
 - Less emergency respond
- Livestock is healthier, farmers are wealthier
 - More accurate diagnostic
 - More accurate treatment and lab diagnosis
 - More preventative care

- Next steps

- More features are being developed
- 2025 : Expand the use of the platform in all Kenya
- 2026 : Expand the use of the platform in other African countries



Thank you !

Questions?

