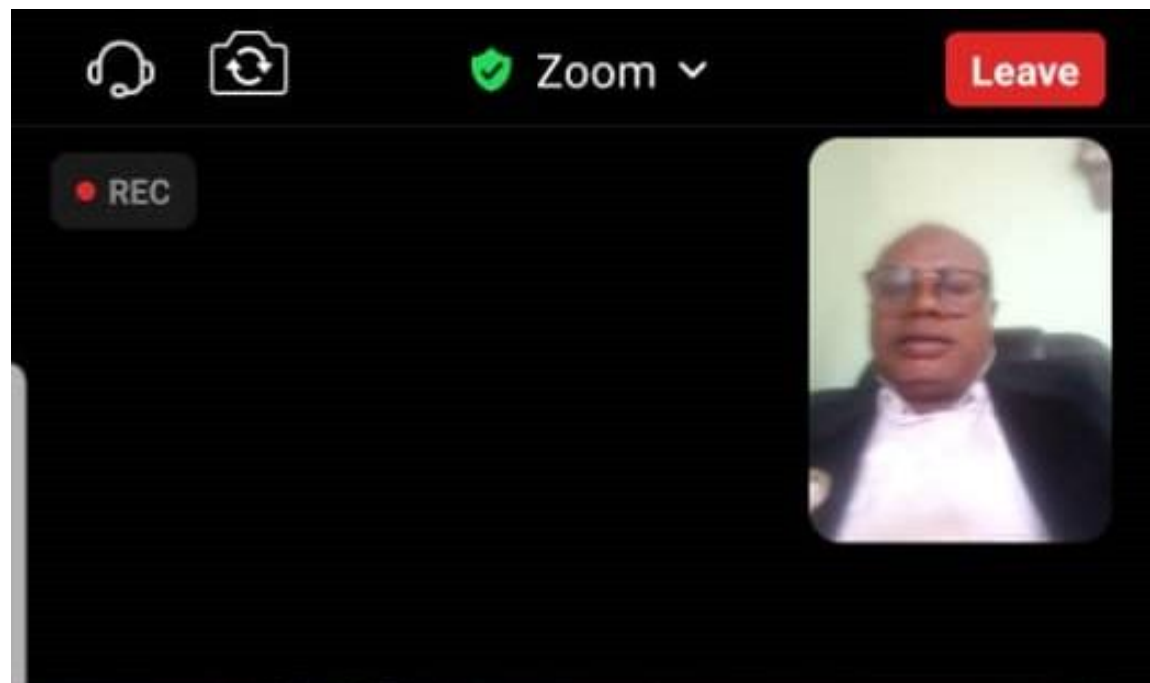# African Association of Veterinary Education Establishments (2A2E-V) – Strategic meeting of the Executive Committee

31 May – 3 June 2022

Faculty of Veterinary Science, University of Pretoria, Onderstepoort campus

Attendees: VIPs and office bearers

- Dr Nick Nwankpa – Director, AU-IBAR
- Prof Tawana Kupe – Vice Chancellor, UP
- Prof Vinny Naidoo – Dean, Faculty of Veterinary Science, UP
- Prof James Wabacha – Animal Health Expert, AU-IBAR
- Madam Jemima Makanda – AU-IBAR, Kenya
- Madam Patricia Lumba – AU-IBAR, Kenya
- Mr. Sikana Sumbwa, AU-IBAR, Kenya – Finance Officer
- Dr David Tendo, Makarere University – 2A2E-V Consultancy

Attendees: 2A2E-V Executive Committee

- Prof Dietmar Holm, University of Pretoria, South Africa – President
- Prof Noursaid Tligui, Hassan II Institute of Agronomy and Veterinary Medicine, Morocco – 1st Vice President
- Prof Adem Hiko Woshie, Haramaya University, Ethiopia – 2nd Vice President
- Prof Adebayo Koyuum AKINLOYE, Federal University of Agriculture, Nigeria – Secretary General - Online
- Prof PYANA PATI Patient, National Pedagogic University, DRC – Treasurer
- Prof Arouna Njayou Ngapagna, Université des Montagnes, Cameroon – Member
- Prof Mohamed Ghanem, Benha University, Egypt
- Prof King S. Nalubamba, University of Zambia
- Prof Youssouf Sidime, Institut Supérieur des Sciences et de Médecine Vétérinaire de Dalaba, Guinee
- Prof Adil Salman, University of Bahri, Sudan

Attendees: Guests

- Dr Alaster Samkange, UNAM. Core member representing Africa on the Council for International Veterinary Medical Education (CIVME)

- Prof Ronel Callaghan, Faculty of Education, UP.

- Heads of Departments and Deputy Dean: Research and post graduate studies, Faculty of Veterinary Science, UP
  - Prof Marinda Oosthuizen (Deputy Dean)
  - Prof Amelia Goddard (Companion Animal Clinical Studies)
  - Dr Rebone Moerane (Production Animal Studies)
  - Prof Tshepo Matjila (Veterinary Tropical Diseases)
  - Prof Joseph Chamunorwa (Anatomy and Physiology)
  - Prof Nenene Qekwana (Paraclinical Sciences)

Workplan

Objective	Working group	Other assistance	Strategic projects
1. To enhance collaboration among all the Veterinary Education Establishments.	Prof Noursaid Tligui Prof Bayo Akinloye	Madam Patricia Lumba Dr David Tendo	1.1. 2A2E-V online portal: ensure training and use by EC members. 1.2. Sign-up of all member institutions of 2A2E-V on the portal
2. To establish continental quality assurance in veterinary education, training and research by establishing reference standards for accreditation.	Prof Mohamed Ghanem Prof Adem Hiko Prof Youssouf Sidime Prof King Nalubamba	Prof James Wabacha	2.1. 2A2E-V accreditation of VEEs: Establishment of reference standards and accreditation system.
3. To harmonise veterinary curricula in Africa to ensure improved collaboration amongst African VEEs.	Prof Dietmar Holm Prof Arouna Ngapanga Prof Adil Salman Pro Pyana Pati	Prof Ronel Callangan Dr Alaster Samkange	3.1. Harmonised veterinary curriculum for Africa based on the 2A2E-V Day-1 competencies 3.2. Participation in the Day-1 platform project of Iowa State University (Gates Foundation)

Workplan

Objective	Working group	Other assistance	Strategic projects
4. To enhance dissemination of innovations and good practice among African VEEs.	Prof Dietmar Holm Prof Mohamed Ghanem Prof Arouna Ngapanga Dr David Tendo	Dr Alaster Samkange and Dr Kate May, CIVME representatives. Dr Jennifer Hammond, Dr Caroline Cantner and Ms Caryn Cabaniss, American Association of Veterinary Medical Colleges (AAVMC) Madam Patricia Lumba, AU-IBAR	4.1. VetEd Africa conference: 1 – 3 November 2022, Pretoria
5. To build capacity among educators in the African Veterinary Education Establishments.	Prof Noursaid Tligui Prof King Nalubamba Prof Youssouf Sidime Prof Pyana Pati		5.1. AAVMC – 2A2E-V twinning project
6. To promote quality facilities at African VEEs	Prof Adem Hiko Prof Arouna Ngapanga Prof Bayo Akinloye Prof Adil Salman	Consultancy Prof James Wabacha	6.1. AU-IBAR Centres of excellence in veterinary education

Campus Tour

Project 1: Online platform (Prof Noursaid Tluigi)

- 2A2E-V collaborative online platforms:
  - Working platform for the EC members (CLOSED):
    - Communication platform linking to email.
    - Repository for all documents, working documents as well as minutes and agendas.
  - Platform for all VEEs in Africa (PUBLIC):
    - Front-end like a website to find information about any VEE in Africa, or summarised per region.
    - Also used for dissemination of information (such as announcements, calls for funding, study and training opportunities etc) to encourage collaboration among VEEs in Africa.
    - Links to open documents of 2A2E-V such as the statutes, agendas and minutes of the GA
    - Links to other websites or repositories.

African Association of
Veterinary Education
Establishments

HOME / EXECUTIVE COMMITTEE

Executive Committee

Executive Committee of the African Veterinary Education Establishment (2A2V-E)

Prof. Noureid Tigui – IAV Hassan II
1ᵗ Vice President

Prof. Adem Hiko – Haramaya University
2ⁿᵈ Vice President

Prof. Dietmar Holm – University of Pretoria
PRESIDENT

Prof Adebayo Akinloye
Federal University of Agriculture, Abeokuta
SECRETARY

Prof Pyana Pati
Université Pédagogique Nationale
TREASURER

Prof King Nalubamba
University of Zambia
MEMBER

Prof Youssouf Sidime
ISSMV Dalaba
MEMBER

Prof Mohamed Ghanem
Benha University – Egypt
MEMBER

Prof Adil Salman
University of Bahri – Sudan
MEMBER

Prof Arouna Njayou
Université des montagnes
MEMBER

Suggested Pages

Education Establishments

- Profiles of VEE Institutions

Membership

- Executive Committee
- 2A2E-V Membership
- Contact details of Schools and
  Faculties of Veterinary Medicine
  or Sciences in Africa

Resources and Communities

- AU-IBAR Repository
- AU-IBAR Community

Project 1: Proposed lay-out of online database

About 2A2E-V	Important links	News & Events	Sign in (ability to add a member VEE's profile)	My e platform	Online African VEE's directory
a) History b) Mission c) Strategic plan d) Member VEE's e) Interactive map of member VEE's f) Executive committee g) Statutes h) 2A2E-V Day-1 Competencies	a) World veterinary association b) American association of veterinary medical colleges c) Australian veterinary boards council d) European quality assurance regulator e) World health organization of animals f) European board of veterinary specialist		a) Name of VEE b) Dean/leader of the VEE c) Telephone Contact d) Email e) University name f) Brief summary g) Location(street,city,State/province, Postal code, Country) h) Record information (Begin date, excel data base to be regularly updated) i) Website of the VEE	Inbox Sent Compose Draft Trash Calendar scheduling	

Project 1: Online platform

- Actions (timeline):
  - Training was provided by Madame Patricia Lumba at the Pretoria meeting of the 2A2E-V EC
  - 15 June all EC members signed up and active on the platform
  - The existing database of African VEEs must be updated by the consultancy before populating the platform (URGENT)
  - A template must be created by the consultancy for all VEEs to complete the required information by the middle of June 2022
  - By the end of July 2022 all VEEs must be listed and included – Responsibility of the consultancy
  - At the next GA the template must be fully functional and populated

Project 2: Accreditation (Prof Mohamed Ghanem)

Objective

- Establish continental quality assurance in veterinary education, training and research

- Aim: ensure that veterinary graduate attained minimum required skills and competencies allowing to work at continental level

- Project:

- 2A2E-V ACCREDITATION OF VEES: ESTABLISHMENT OF REFEERENCE STANDARDS AND ACCREDITATION SYSTEM

Actions

- Setting academic standards for the African veterinary education (African Vet. Academic Standards - AVAS).

- Revision and recognition of AVAS by external referees (EAVEA of AVMA) supported by AU-IBAR

- Feedback from African VEEs about the AVAS

- Dissemination and training on the new AVAS through VEEs

Proposed AVAS with reference to the Egyptian Quality Assurance Standards settled in 2017 and ESG 2015

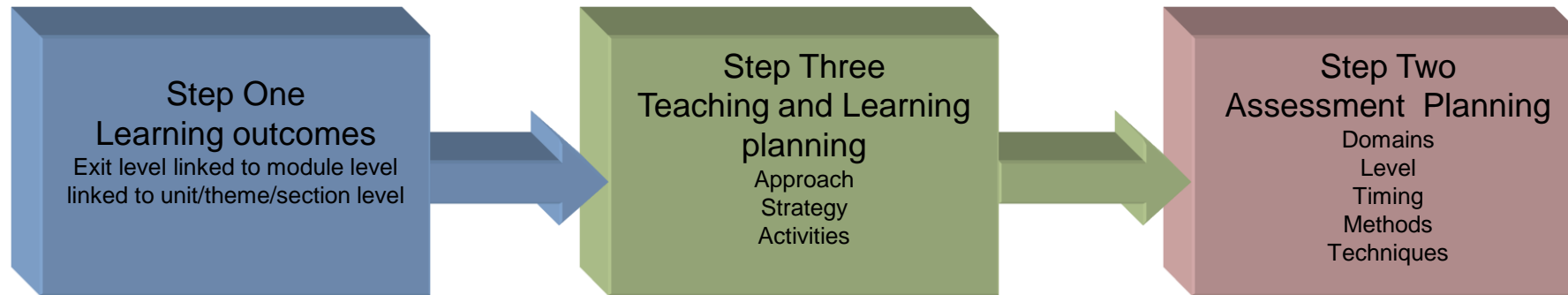| Standards	Guidelines
1	Strategic planning
2	The leadership and governance
3	Quality assurance and continuous development management
4	Teaching and technical staff
5	The administration framework and organization
6	The financial and physical resources
7	The academic standards and educational programs
8	The teaching and learning
9	The students and alumni
10	The scientific research and scholastic activities
11	The postgraduate education
12	Society service environmental development and international collaboration

African Vet Accreditation System: Proposed process

- Establishing a system of accreditation of VEEs at Continental level recognized by the AU and AAU.
  - Formulation of board (EC plus continental qualified experts from regions)
  - Guidelines of the application process (required documents)
  - Portal for display of the AVAS (version 1)
  - Establish a platform of AVAS to provide online submission of documents
  - The visitation is mostly virtual with one person on site at the institution while the rest of the team are online.
  - Fees should be paid by the institutions to be accredited

Project 3.1: Curriculum

- The Day 1 Competencies for African veterinarians were concluded by 2A2E-V in 2021. These were based on the OIE (WOAH) Day 1 Competencies.

- These form the outcomes of the African Veterinary curriculum

- We agreed on the following:
  - a Backward Design process is promoted (Day 1 Competencies as outcome)
  - Broad guidelines are given by 2A2E-V, to allow for specific differences in institutions

The backward design process

**Step One
Learning outcomes**
Exit level linked to module level
linked to unit/theme/section level

**Step Three
Teaching and Learning planning**
Approach
Strategy
Activities

**Step Two
Assessment Planning**
Domains
Level
Timing
Methods
Techniques

Step One: Learning Outcomes

Conditions	given "x" without "y"
Performance	the student will (action verb)
Criteria/standard	accuracy quantity time constraints

GENERIC EXAMPLE

Given the following conditions	the student will	to the following standard	as measured by the following method

Step Three: T&L planning

Levels:
Factual; Conceptual; Procedural; Meta-cognitive
Approaches:
Active; Collaborative; Experiential; Blended; Self-directed
Strategies:
Action; Case; Problem; Project; Scenario; Enquiry based learning
Activities:
Brain storming; concept mapping; demonstration; diagram; practical; discussion; essay; case study; lecture; group work; portfolio development; project; service; reflection; video; game; notes; questioning; seminar; work sheet; diary; log; field work; research; poster; oral presentation; clinical session; simulation; tutorial; symposium

Step Two: Assessment planning

Criteria:
Related to outcome criteria
Domains:
Knowledge; Skills; Attitudes; Values
Levels:
Knowledge; Comprehension; Application; Analysis; Synthesis; Evaluation
Timing:
Formative; summative; continuous
Methods:
Link to teaching activities/methods
Techniques:
Memoranda; Rubrics; Marking schemes; Guidelines

Project 3.1: Curriculum

- General principles:
  - Institution must be accredited by the relevant local governance structure(s)
  - The veterinary programme must be accredited (academic accreditation) by the relevant higher education council or qualifications authority
  - The veterinary programme must be accredited (professional accreditation) or approved by the local Veterinary Statutory Body (VSB), where this exists.
  - Where VSBs don't exists, their establishment must be promoted by the institution
  - 2A2E-V takes note of the challenge created by political interference in the governance and **independence** of VSBs and the resulting accreditation systems involving VEEs

Project 3.1: Curriculum

- General principles:
  - Articulation directly into a Masters programme at least, and preferably with options for specialisation.
  - Curriculum review must happen at least once in 5 years
  - The required infrastructure must be available to support the training programme

Project 3.1: Curriculum

- Programme structure (any of the below can be integrated in any way):

    1. >500 hours of professional skills training (Communication, Entrepreneurship, ICT, Wellness, Community Engagement, Lifelong Learning, Transdisciplinarity)
    2. >1,600 hours of 100% work-integrated, at least partly community based clinical training (NOT classroom based)
        - Individual Animal Medicine, Surgery, Reproduction and supporting diagnostics
        - Epidemiology including Herd health, production medicine, disease control, extension and regulatory medicine
        - Public health including food security, food safety, OneHealth, agro-processing
        - Laboratory diagnostics including pathology (necropsies), clinical pathology, bacteriology, virology, parasitology etc
    3. >300 hours of research resulting in a research report (graduation project)
    4. >2,400 hours of pre-clinical and paraclinical skills-based training (PROBLEM SOLVING)
    5. >1,200 hours of foundational veterinary training (THE NORMAL ANIMAL AND ENVIRONMENT)
    6. STEM basis 0 – 1,200 hours depending on entry level of students

Project 3.1: Curriculum

- Assessment broad principles:
  - Theory – from knowledge base up to apply and create (guidelines to be developed by 2A2E-V)
  - Practical (guidelines to be developed)
  - Reporting: written and verbal
  - Portfolio of learning (reflection)
- The 4 above assessment modalities can be integrated throughout the programme, but MUST be applied to all 4 components of the clinical training programme
- No more than 5 - 9 students per veterinarian instructor in the clinical training programme.

Project 3.2: Day 1 Platform

- Initiative by Iowa state university

- Funding by Gates foundation

- Presidents of 2A2E-V applied and received the grant in collaboration with Ross University (for bovine materials)

- Objective:
  - Provide training materials on clinical cases for VEEs in Africa and the middle East.
  - Will be an open educational resource (OER) for Africa

Project 4: VetEdAfrica 1 – 2 November 2022

- As part of our joint missions to promote collaboration and enhance dissemination of innovations and good practice among veterinary education establishments, the American Association of Veterinary Medical College's Council on International Veterinary Medical Education (CIVME) and the African Association of Veterinary Education Establishments (2A2E-V) joined forces in planning a veterinary medical education conference at the University of Pretoria (South Africa) from 1 - 3 November 2022. The goal of the conference is to provide professional development specific to veterinary education to faculty at veterinary education establishments across Africa. The conference will be modeled after the VetEd symposia that have been successful in the UK and Ireland.

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- The focus of the conference will be on teaching and assessment of clinical skills, a need identified by 2A2E-V. We anticipate 5 attendees from each of the five regions of Africa with an additional 10 CIVME attendees and 20 faculty from the University of Pretoria for a total of 40-60 participants. The joint organizing committee hopes that this initiative will be an opportunity to bring Veterinary educators together and build a community of practice (CoP) to support long-term collaboration in the design and delivery of Veterinary educational approaches.

Project 4: VetEdAfrica 1 – 2 November 2022

- Proposed programme outlay:
  - 1 November: Clinical skills training. Keynote speaker Harald Bok (Utrecht, Netherlands)
  - 2 November: OneHealth education (OneHealth day). Keynote speaker Nitish Debnath (Bangladesh)
  - 3 November: Clinical skills assessment. Keynote speaker Sarah Bailley (Bristol, UK)
- Programme structure:
  - Keynote and workshops in the morning
  - Short (10 minute) presentations and posters in the afternoon

Project 4: VetEdAfrica 1 – 2 November 2022

- Other activities:
  - CIVME and 2A2E-V engagement
  - CIVME research grants highlighted or launched
  - Pre- or post conference tour to Faculty of Veterinary Science
  - Online / hybrid access
- Timeline:
  - Save the date and keynote speakers confirmed: End of June 2022
  - Call for abstracts middle July 2022
  - Fundraising completed July 2022 (mobility funding)
  - Abstracts close end August
  - Programme finalised end September
- Team:
  - 2A2E-V
  - UP
  - AAVMC
  - CIVME
  - Vetlink conferences

Project 5.1: Twinning inter-Africa (Prof Noursaid Tligui)

- A lot of benefits can be accrued in the current 2A2E-V through South-South and North-South twinning. Mechanisms have to be developed to facilitate these twinning arrangements as well as source funding for these twinning activities.

Project 5.1: Twinning inter-Africa

- Encourage bilateral twinning without any grant funding between VEEs where student and faculty members where administrative, bench fees etc are waived at the host institution – encourage initial mobility. The staff exchange can be used to bridge shortages of academic members staff in member VEEs – e.g. Veterinary Clinical competences and specialities; similarly students can gain these competencies from VEEs on the continent that may have the facilities and staff to provide these clinical specialities. VEEs on that continent that are willing to accept students and those with students looking for placements should notify other VEEs using the 2A2E-V platform. Contacts of responsible persons in the VEEs, conditions etc.

Project 5.1: Twinning inter-Africa

- Actions for 2A2E-V in the future:
  - MoUs between VEEs should be signed between all members of 2A2E-V to facilitate students and staff mobility.
  - A draft MoU template should be designed by the 2A2E-V EC and shared through 2A2E-V platform.
  - Funding opportunities should be recruited by 2A2E-V EC and distributed through the platform, and members should be encouraged to apply.
  - AU-IBAR should assist to identify collaborators and opportunities at a higher level.
  - Possible opportunities: WOAH (OIE), FAO. EU. IAEA, Intra-ACP, GIZ, JICA, USAID, SIDA, Private philanthropists e.g., Bill and Melinda Gates Foundation, NGO etc

Project 5.2: Twinning 2A2E-V and AAVMC

- American Association of Veterinary Medical Colleges (AAVMC) showed interest in applying for a twinning project between AAVMC and 2A2E-V through the Gates foundation

- The 2A2E-V EC must continue discussions with AAVMC to finalise the application

Project 6: Centres of Excellence (Prof Adem Hiko)

Why the promotion of quality facilities at African VEEs

- In Africa,
  - the availability and quality of Veterinary Education Establishments (VEEs) is highly variable and

  - Reflects in the quantity and quality of veterinary graduates, various veterinary personnel and services in the different AU Member States.

  - Inadequate competencies among graduates from VEEs in Africa to meet the evolving needs of industry and society.

Emphasise on Veterinary training in future

According to Swan and Kriek (2009), the scope of veterinary training in future will have to emphasise

- veterinary public health,
- food safety,
- emerging diseases,
- international trade,
- bioterrorism, and
- biomedical research,

One-health system & interface focusing Vet. Education

- Within the context of a one-health system focusing on the interface between /amongst
  - wildlife,
  - domesticated animals,
  - humans, and
  - their environment.

Uniformity and strengthen of quality of VEEs

- Veterinary education needs to be strengthened globally (OIE, 2011):
  - Establishment of minimum requirements (a 'core curriculum'), as it relates to the delivery of national veterinary services
  - Harmonisation of key curriculum elements, to facilitate international mobility of veterinarians (day-1 Competencies) the establishment of quality control and recognition procedures for veterinary education establishments; and
  - The regulation of the veterinary profession by the Veterinary Statutory Body (VSB) at national level.
  - Introduction and running of Continuous Professional Development (CPD)

AU-IBAR announced for Centres of excellence in veterinary education

SELECTION AND DESIGNATION OF VETERINARY EDUCATION ESTABLISHMENTS AND ANIMAL HEALTH RESEARCH INSTITUTIONS AS AFRICA UNION CENTRES OF EXCELLENCE IN ANIMAL HEALTH

Suggestion of 2A2E-V executive Committee to promote quality facilities at African VEEs

- Need to consider the former 9 priority areas in to 5 priority area and re-announcement

- Inclusion of financial in the re-announcement

- Need to distribute the priority areas among 5 African region based on the performance through document assessment

- Need to apply for international funding agency

- Sustainability and performance of centre of excellence

Clustering the priority area in 5 area for easy distribution to the African Region

Area 1

i. Veterinary Policy, legislation and jurisprudence (Regulations and trade in animals and animal products, strategies, etc)

ix. Veterinary Education (pedagogical, assessment, clinical and skill training)

Area 2

ii. Animal welfare

viii. Wildlife Health and biodiversity

Area 3

iii. Veterinary epidemiology (Biosecurity, import and export risk analysis etc)

iv. Veterinary Public Health and One Health approach

Area 4

v. Veterinary entrepreneurship and innovation (biotechnology, etc)

vi. Veterinary Drug quality and Alternative veterinary therapy

Area 5

vii. Clinical Veterinary medicine (by discipline and species differentiation)

Hard at work

General conclusions

- Solidarity: 2A2E-V is an ACADEMIC project free from political interference
- Commitment: The 2A2E-V Executive Committee remains committed to achieving the objectives – on a *pro bono* basis.
- Focus: The 2A2E-V EC understands that this project is focused on achieving Agenda 2063, the Africa that we want. Free trade on the continent will unlock significant economic potential for the continent.
- Support: 2A2E-V is extremely grateful to:
  - AU-IBAR for initiating this project
  - EU for providing the funding through the Live2Africa grant
  - Other external support such as the recent commitment from AAVMC
  - Collaboration with CIVME
- The 2A2E-V requests AU-IBAR's commitment for:
  - Continued financial and administrative support beyond the Live2Africa grant (Director)
  - Lobbying with the AU commission to protect the project against political interference
- Next major events:
  - VetEdAfrica Pretoria 1 – 3 November
  - General Assembly Morocco March 2023
  - VetEdAfrica Rabat March 2023

Thank you

- Dr Nick Nwankpa – Director AU - IBAR

- Prof James Wabacha – AU-IBAR, Kenya – Animal Health expert and driver of Live2Africa grant

- Madam Jemima Makanda – AU-IBAR, Kenya – Secretariat and travel arrangements

- Madam Patricia Lumba – AU-IBAR, Kenya – Senior knowledge management officer

- Mr. Sikana Sumbwa, AU-IBAR, Kenya – Finance Officer

- Prof Tawana Kupe, Vice Chancellor, UP

- Prof Vinny Naidoo – Dean, Faculty of Veterinary Science, UP - hosting 2A2E-V on campus

- Prof Ronel Callaghan, Faculty of Education, UP - professional input on curriculum design

- Mr Chris van Blerk, Marketing manager Faculty of Veterinary Science, UP – comprehensive campus tour

- Madam Alet Wannenburg, Faculty of Veterinary Science, UP – local event logistics and support