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# Brief Recall on AU-PANVAC

- ❑ 1980's-Resurgence of Rinderpest
- ❑ 1983-Audit on Vaccine Quality (FAO):  
**Only 20% Good Quality Vaccines**
- ❑ 1986-92 QC centers established to support the PARC
- ❑ 1993- the 2 Centers merged (PANVAC)
- ❑ 2004- became AU Technical Centre
- ❑ Mandates expanded to other activities



# AU-PANVAC's Mission

AU-PANVAC is the only African Union Organization mandated to provide **International Independent Quality Control** of all veterinary vaccines produced or imported into Africa

## MISSION:

“To promote the use of **Good Quality Vaccines** and **Diagnostic Reagents** for the control and eradication of animal diseases in Africa.”



# AU-PANVAC: Core Mandates

1

International  
Independent **Quality  
Control** of Veterinary  
Vaccines produced in  
Africa.

2

**Production and  
distribution of**  
essential Diagnostic  
Reagents for animal  
disease diagnosis and  
surveillance.

3

Transfer of **vaccine  
production  
technologies** in  
Africa

4

Standardization **of  
vaccines production**  
and harmonization of  
**their quality control**  
techniques in Africa

5

Provide **training** and  
**technical support**  
services to veterinary  
laboratories.





# AU-PANVAC: Special Mandates

**1 Maintaining Africa free from Rinderpest:** “Sequestration of all Rinderpest material from African laboratories and maintaining an emergency vaccine stock”

- **Rinderpest holding facilities for Africa** designed by FAO and the World Organisation for Animal Health (WOAH).

*The Only Centre in the world holding Rinderpest field and vaccine strains in the same facility.*

- **Maintaining Continental vaccine bank** as emergency preparedness

**2 Harmonization of Veterinary vaccine registration on the continent**



# AU-PANVAC: Quality Management System (QMS)

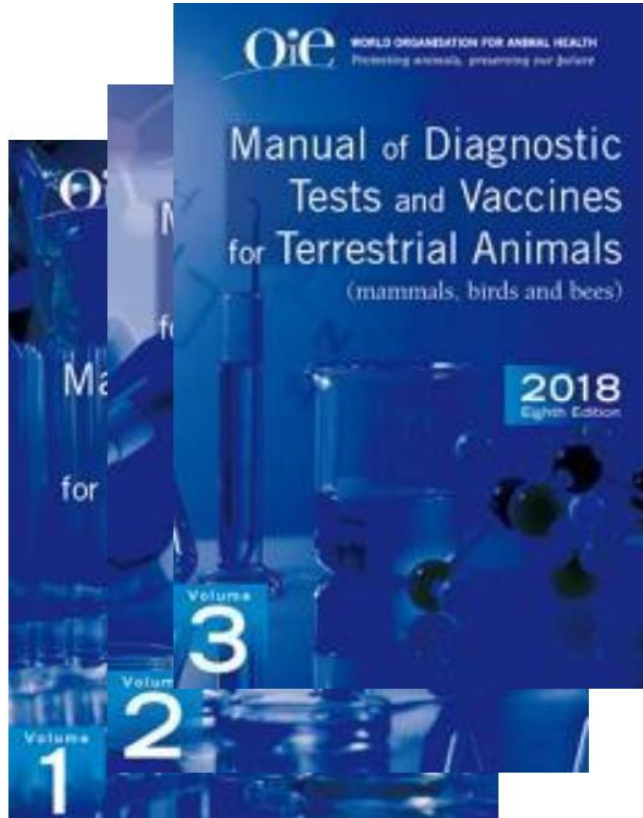


- ❑ ISO 9001:2015 Certified
- ❑ ISO/IEC 17025 Accredited



# Vaccine Quality Control Activities

Vaccine QC Tests are based on the **OiE** 'Manual of Diagnostic Tests and Vaccines for Terrestrial Animals'



1. Identity

2. Sterility

3. Innocuity

4. Efficacy

5. Stability



# QC Testing of vaccine at AU-PANVAC

1. **CERTIFICATE AND REPORT:** If vaccine complies
  2. **REPORT ONLY:** If vaccine does not comply
  3. **TURN-AROUND TIME:** 1-2 months (Rabies 1 month)
- Publication of batches passed QC tests on the AU-PANVAC website:

[WWW.AUPANVAC.ORG](http://WWW.AUPANVAC.ORG)

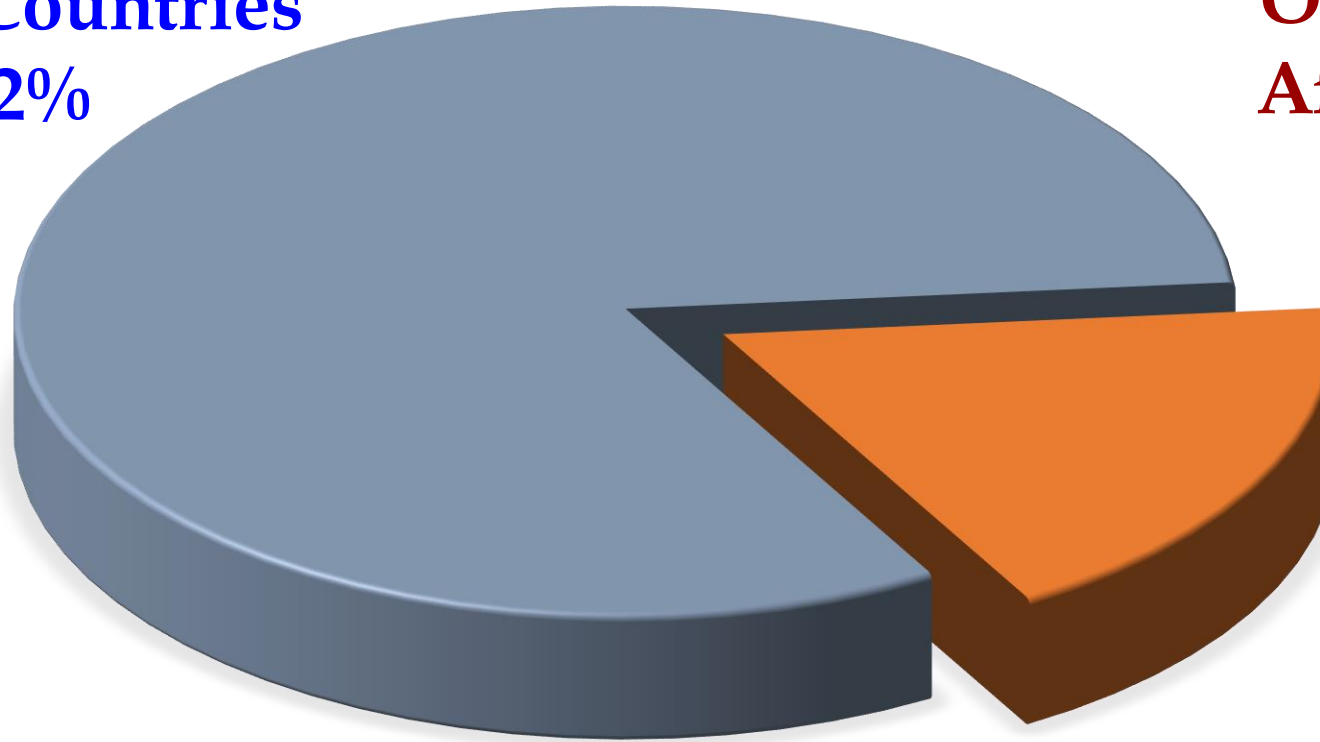




# Vaccine Quality Control Activities 2018-2020

**Africa Countries**  
**82%**

**Outside of  
Africa 18%**

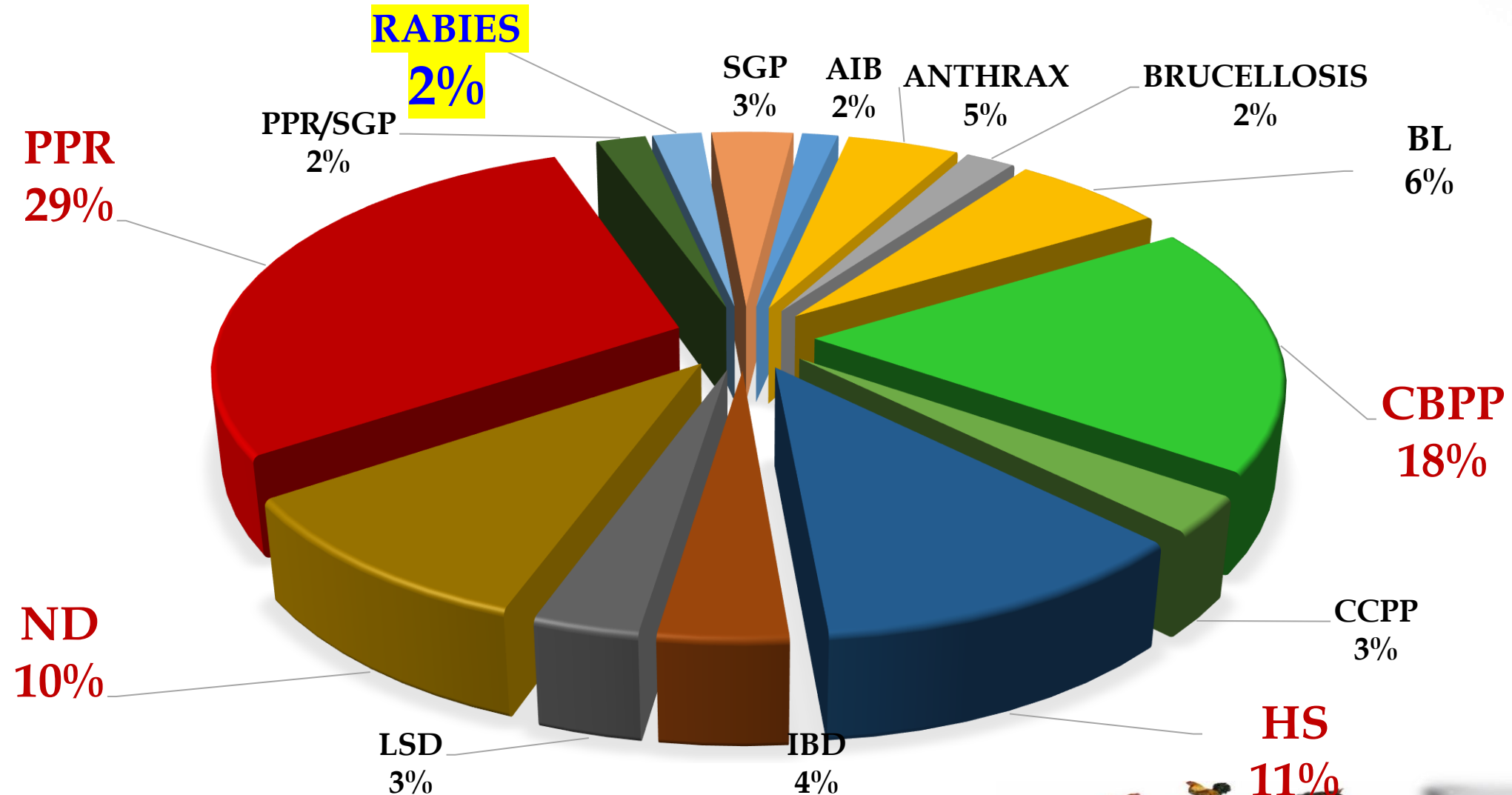


- African Vaccine Labs
- CVOs, Drug authorities & NGOs

- Vaccine Producers:  
Middle-East, Asia,  
Europe & USA



# VACCINES RECEIVED FOR QC (2018-2020)



# Rabies Vaccine Submitted for QC

- 2 African producers submit their vaccines for QC
  - NVRI, Nigeria – live attenuated vaccine
  - NVI, Ethiopia – inactivated vaccine
- Non-producers
  - DVS, Benin,
  - BVI, Botswana – Boehringer Ingelheim vaccine,



# Rabies Vaccine Submitted for QC

- Non-African producers
  - Merial/Boehringer, France,
  - Indian Immunologicals, India
  - LLP Biotron, Kazakhstan
  - Zoetis, USA





# RABIES VACCINE QUALITY CONTROL

## 4 tests based on the OIE Manual

	Sterility	Safety	Potency	Identity
<b>Rabies</b>	Liquid and Solid Media/ Mycoplasma (PCR)& BVD (Real time PCR) for Live Vaccines	<ul style="list-style-type: none"><li>• Mice</li><li>• Innocuity test on BHK cells for inactivated vaccines</li></ul>	<ul style="list-style-type: none"><li>• On BHK cells for live Vaccines</li><li>• Challenge Test being implemented for inactivated Vaccines</li></ul>	PCR



# Rabies Vaccination Partnership in Ethiopia

- Ethiopian Wolf Conservation Programme
- Virbac's Rabigen SAG2 oral vaccine bait vaccine administered to wolves in the Ethiopian highlands



# Rabies Vaccination Partnership in Ethiopia

- Quality control conducted at AU-PANVAC
- The vaccine stock stored in AU-PANVAC vaccine bank



# Conclusion

- AU-PANVAC available to support rabies vaccine QC







**OIE Collaborating Center for Quality Control Of Veterinary vaccine** (OIE Gen. Ass. Resolution 32, May 2013)



**FAO Reference Centre for Technical Assistance in Quality Control of Veterinary Vaccines** (11<sup>th</sup> May 2015)



**THANKS FOR YOUR ATTENTION**

**WWW.AUPANVAC.ORG**