



African
Union



AFRICAN UNION
INTERAFRICAN BUREAU
FOR ANIMAL RESOURCES

AFRICAN UNION ONE HEALTH DATA ALLIANCE AFRICA (AU-OHDAA)

29th January 2024
AU-IBAR

SITUATIONAL ANALYSIS



- Increased food demand
 - Increased urban migration

- Limited Natural resources
 - Increased pollution
 - Environmental degradation

- Increase of re-emerging and endemic diseases
 - Increased spread of AMR

2100

Human population
in Africa
Approx. 4 billion

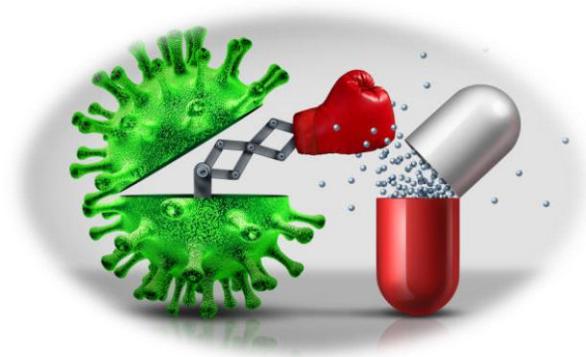
Challenges



Challenges



Challenges



- Africa bears a heavy burden of emerging, re-emerging and endemic zoonoses;
- Majority of the emerging diseases - have an animal origin with 75% of them classified as zoonosis.
- A 63% jump in diseases spread from animals to people in Africa
- The project population - increased demand animal products – Increased disease incidence – triggered AMR
- The need for embrace comprehensive multisectoral and multidisciplinary intervention is **CRITICAL – One Health approach**



- Lack of **co-ordination and collaboration**
- Narrow view – **zoonotic approach**
- Silo mentality – Animal, Human and environmental health
- Lack of integration and harmonization of Data – even within the One Health domains
- **Digital divide in Africa** – technical and infrastructural
- **Weak governance structure/lack of enabling environments** – need for technology and/or digital sensitive policies





Transformative wins realized with the adoption of One Health



Improved health delivery systems and reduced disease outbreaks and pandemics

Increased animal productivity in nature positive animal production systems

Improved food safety, quality and traceable foods

Improved climate mitigation and adaptation capacities



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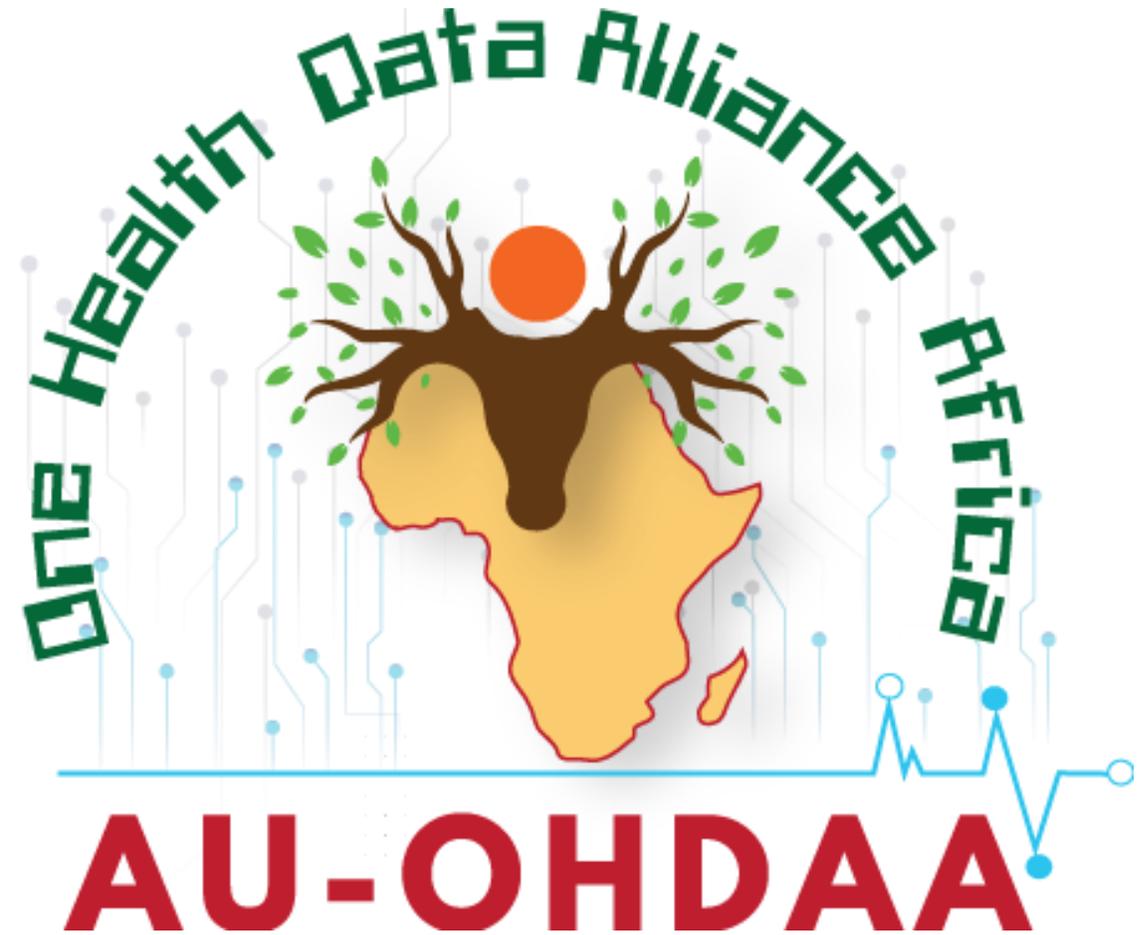


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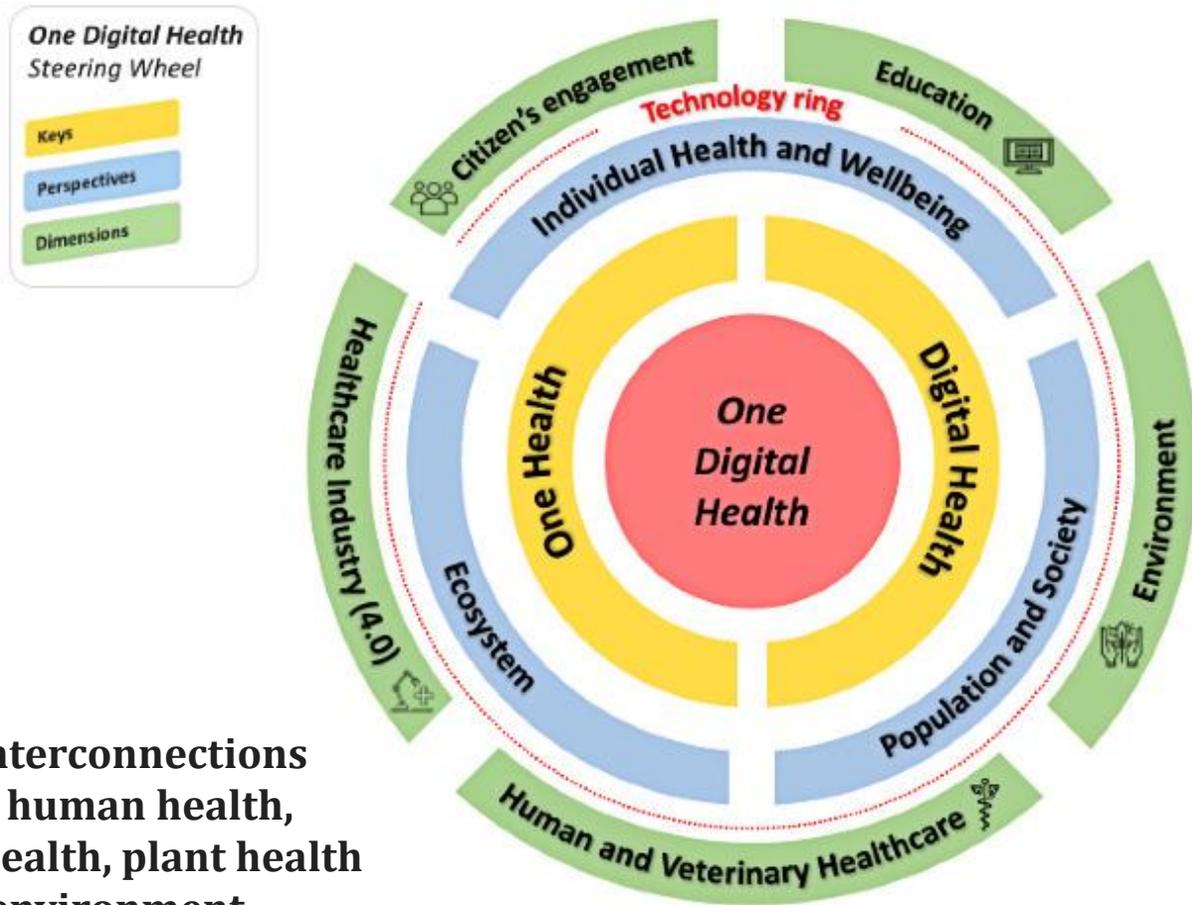




**An Africa where the health of humans, animals,
and ecosystems are viewed as interconnected and
are collaboratively managed**

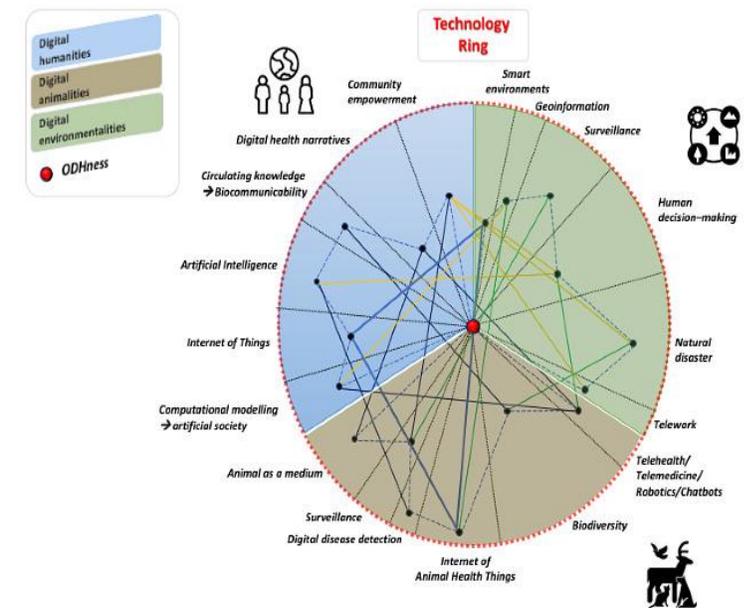
**Build a data-driven culture based on utilization of
digital tools and technologies**

- The One Digital Health Steering Wheel conceptual framework – *Benis et al, 2021*



Digital interconnections between human health, animal health, plant health and the environment

Digital technology acts a catalyst
 Internet of Things,
 artificial intelligence,
 big data, and robotics



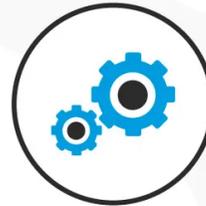
4 Principles of Human-Centered Design



People-Centered



**Solve the
Right Problem**



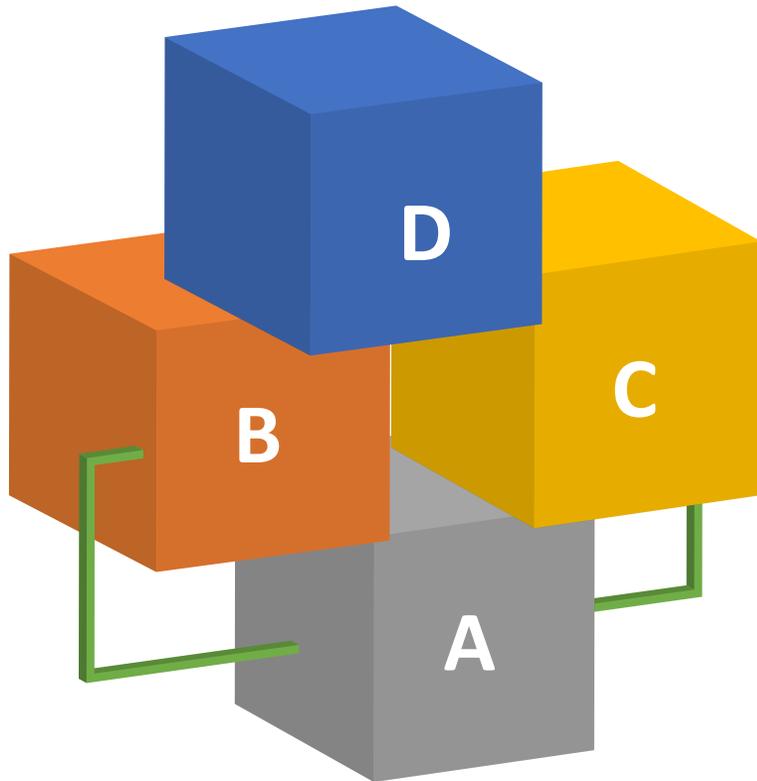
**Everything is
a System**



**Small & Simple
Interventions**



PROPOSED FRAMEWORK



A. AFRICAN UNION DIGITAL ONE HEALTH INFORMATION POLICY - Aligned to AU digital transformation strategy

B. Associated One Health Information Architecture

C. Capacity Building and Enhancements of Digital One Health – Competency profiles

D. Enabling Digital One Health coordination environment and sustainability

CONTINENTAL ONE HEALTH DIGITAL PLATFORM



• DATA SHARING

- Transboundary animal diseases and zoonoses
- Vector-borne diseases (VBD)
- Antimicrobial Resistance (AMR)
- Food and Feed Safety
- Environmental Health
 - Use cases



Digitalized One Health; a catalyst to efficient and effective health systems



OUTCOME 1

ACHIEVED

Endorsed African Union Information policy and associated One Health Information Architecture



OUTCOME 3

Efficient Continental One Health digital platform to guide multi-sectoral decision making interoperability with national platforms – FEEDBACK LOOP, Use Cases



OUTCOME 2

Well trained and robust One Health Expertise to for delivery of Effective health systems



OUTCOME 4

Robust and enabling One Health policy environment for improved One Health Governance and management

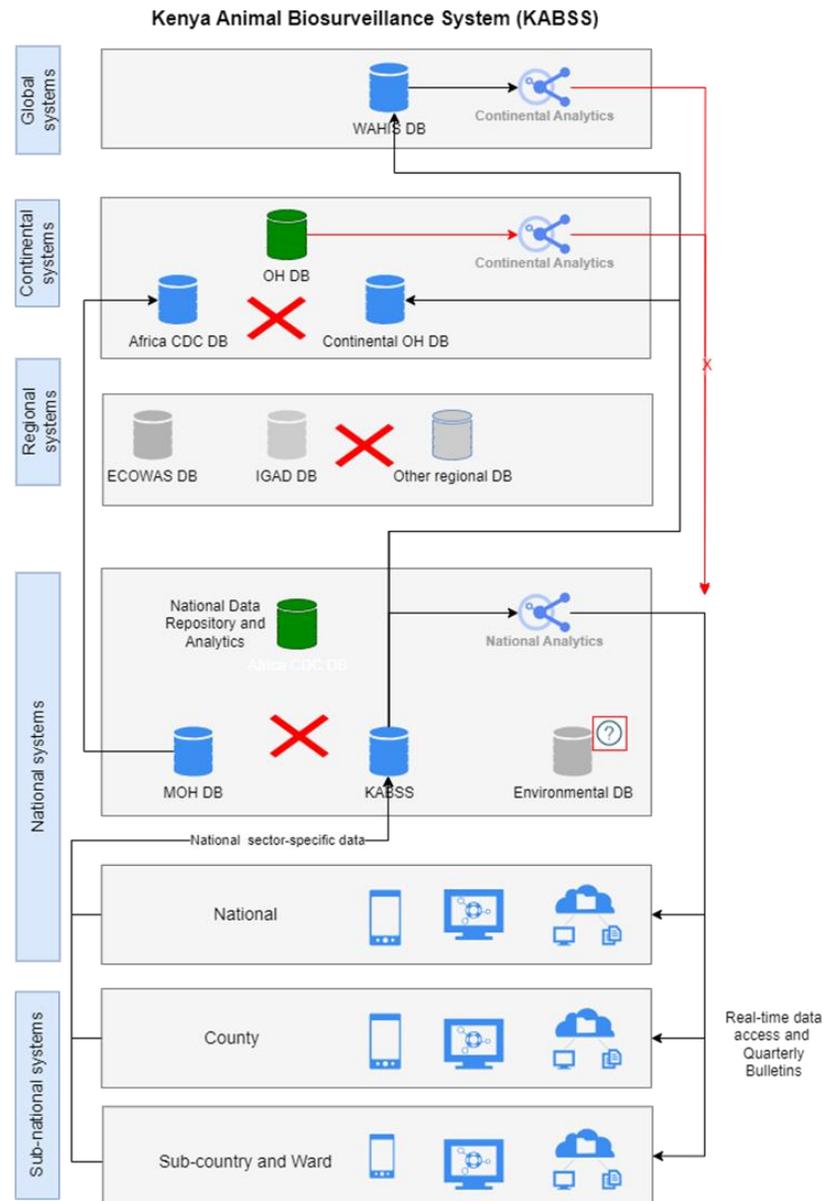
Re-invent the wheel;

- **Kenya has a Strong Zoonotic Disease Unit**

Capacity wise

- **Technical Capacities**
- **Infrastructural capacities**– Kenya Animal Bio surveillance system – Digital, mobile, country-wide roll out- rich DATABASE
- **Continual retooling of skills**

ACTION AREAS



Legend:

✗ Non-existent

Ⓞ Not confirmed



Real-time data access and Quarterly Bulletins

ACTION AREAS

Existing governance structures – Digitalization of Continental One Health platform



National Information, Communications and Technology (ICT) Policy

Ministry of Information, Communications and
Technology, Kenya

November-2019



REPUBLIC OF KENYA

DIGITAL ECONOMY BLUEPRINT

POWERING KENYA'S TRANSFORMATION



Kenya Digital Economy



Ministry of ICT, Innovation
and Youth Affairs

THE KENYA NATIONAL DIGITAL MASTER PLAN

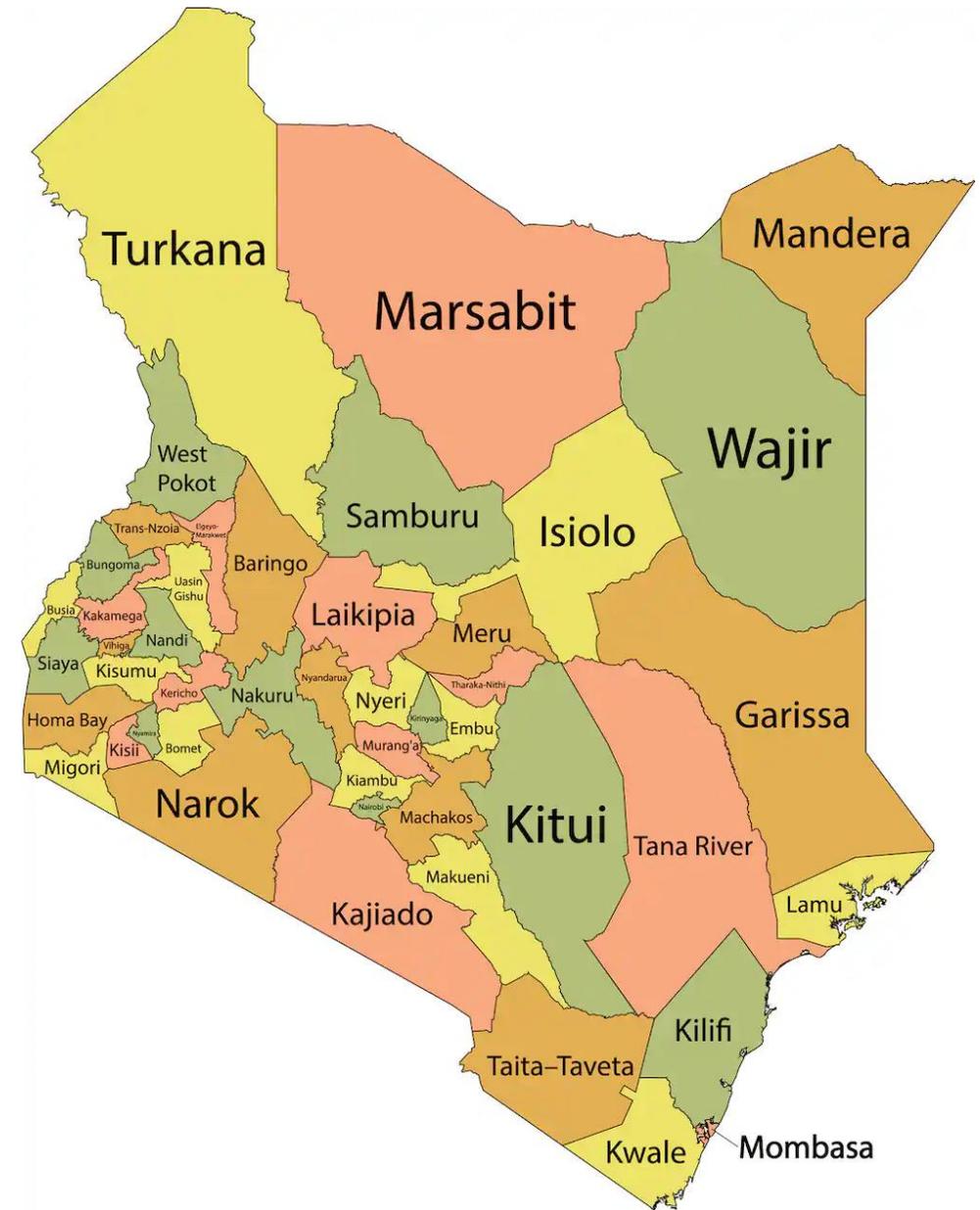
2022-2032

ACTION AREAS

Best practises and lesson learnt – community based interventions

- **Developed a reporting tool for the communities and rolled out in three counties for early warning**
- **Established of County One health Units – require expansion and training**
- **Awareness creation of One Health actions at primary school level – Baringo**
- **Event based surveillance system – collaborative action between MOH and Veterinary Services**

**Kenya can be used
as a centre of
excellence to drive
domestication of
Digital One HEALTH**





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