



Fortifying institutional resilience against biological threats (FIRABioT) project meeting

Nairobi, Kenya 14 – 16 March 2023

Signature Initiative to Mitigate Biological Threats in Africa







- I. Gaps and Goal of IBB
- II. Regional Priority
- III. Parteners





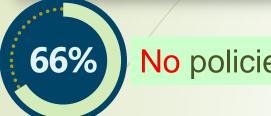
Biosafety and Biosecurity Gaps





WHO JEE Reports (2016-2019)





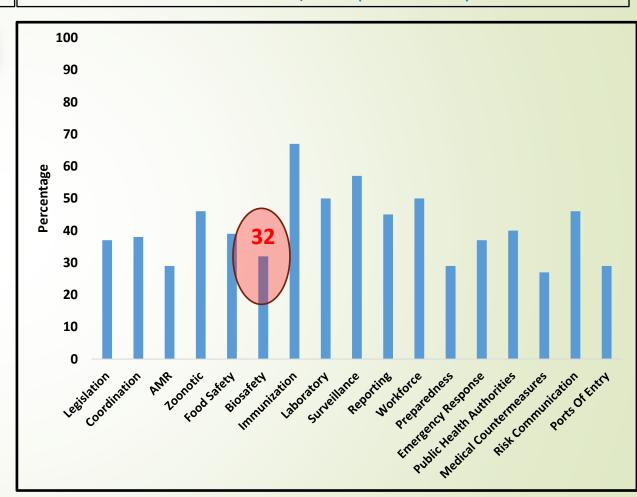
No policies for biosafety



No policies for biosecurity



No oversight for DURC



Innovative Regional Approaches required to mitigate the identified gaps and vulnerabilities





Biosafety and Biosecurity Initiative Goal

To strengthen the biosafety and biosecurity systems of
African Union Member States to comply with
international regulations including the International
Health Regulations (IHR 2005), Biological Weapons
Convention (BWC), and United Nations Security Council
Resolution (UNSCR) 1540 and the GHSA action
packages (APP3)



Regional Priority areas(2)



Table 1: Regional Priority Areas for strengthening biosafety and biosecurity.

Capa dty Building	Training	HCAT List	TWG/Blosafety Association/Body
Policies/Legal Framework Development /harmonization of biosafety and biosecurity legal framework, legislations and guidelines Development of a regulations for biomedical waste management. Establishment of a licensing/certification programme for High Containment facilities for both human and animal sector Human Resource Development of a long term training and capacity building plan that coverspre and in-service training curriculum Establish a Training and Certification Program for Biosafety and Biosecurity experts Infrastructure Construct/upgrade Laboratories facilities to meet international standards for biosafety and biosecurity. Equipment Servicing and maintenance of BSQs Servicing and maintenance of high containment facilities for both human, a nimal and agriculture international standards Evaluation/Assessment of High containment facilities for compliance to standards. Research Identification of priority research areas in Biosafety and Biosecurity Advocacy Develop and implement a dvocacy and communication strategy for biosafety and biosecurity	 Biosafety and Biosecurity Auditors Biosafety and Biosecurity Auditors Waste Management Occupational Health and Safety IPC Certification and maintenance of BSCs Certification and Maintenance of High Containment Facilities and biorepositories Genomics & Bioinformatics Bioethics and dual use research of concern ISO 350012019 standards Risk assessment and Risk management Lab Based Surveillance Threats Hazards Identification and Risk Assessment The role of law in biosafety and biosecurity Laboratory information Management System (LIMS) Sample collection, transportation and handling recording 	Development of the High Consequence Agents and Todris (HCAT) List Conduct inventory of high consequence agents and toxins in the country. Development of pathogen data she ets and share at national and regional level Surveillance of HCAT listed pathogens.	Esta bilshment / strength ening of national Biosecurity Associations Esta bilshment / strength ening of national biosecurity TWGs. Monitor the implementation of BSBS.

Africa CDC Biosafety and Biosecurity Initiative



The Africa Centres for Disease Control and Prevention



GOAL: To strengthen the biosecurity and biosafety systems of African Union Member States to comply with international regulations including the International Health Regulations (IHR 2005), Biological Weapons Convention (BWC), and United Nations Security Council Resolution (UNSCR) 1540 and the GHSA action packages (APP3)

Priority Area 1

Develop a
Biosafety and
Biosecurity
Legal
Framework for
the Africa
Region

Priority Areas 2

Establish
Regional and
Continental
Biosafety and
Biosecurity
TWG to
coordinate and
monitor
implementation

Priority Area 3

Establish a
Regional
Training and
Certification
Program for
Biosafety and
Biosecurity
Experts

Priority Area 4

Establish a regulatory and certification framework for institutions handling high risk pathogens

Priority Area 5

Strengthen
NPHI and NRL
capacities to
prevent, detect
and respond to
Events of
public health
concern in
each MS

Priority Area 1: Develop a Biosafety and Biosecurity Legal Framework for the Africa Region

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USING THE LEGAL FRAMEWORK

Where a Legal Framework already exists

Where no Legal Framework exists

A guide to review
the Member
State's existing
legal instruments
to check their
scope, coverage
& adequacy

Basis for developing a national BSS legal framework. Member States may adopt and domesticate the framework to address national needs.

Priority 2

Establish Regional and Continental Biosafety and Biosecurity TWG to coordinate and monitor implementation



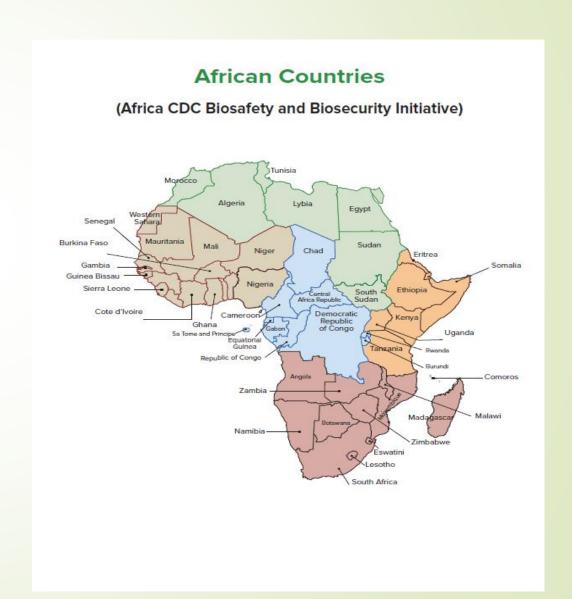
Atrica CDC Biosafety and Biosecurity Initiative



Biosafety and Biosecurity Regions

- Central Africa(9)
- Eastern Africa(14)
- Northern Africa(6)

Southern Africa(10)
Western Africa (15)



Implementation Using Structured Systems

Continental Biosafety and Biosecurity Working Group

Regional
Biosafety and
Biosecurity
TWG
Central

Regional
Biosafety and
Biosecurity
TWG
East

Regional
Biosafety and
Biosecurity
TWG
North

Regional
Biosafety and
Biosecurity
TWG
South

Regional
Biosafety and
Biosecurity
TWG
West

Benin

Burundi
Cameroon
CAR
Chad
Congo
DRC
Guinea
Gabon

São Tomé

Comoros
Djibouti
Eritrea
Ethiopia
Kenya
Madagascar
Mauritius
Seychelles
Somalia
Sudan
Rwanda
South Sudan
Tanzania
Uganda

Algeria
Egypt
Libya
Mauritania
Morocco
Sahrawi
Tunisia

Angola
Botswana
eSwatini
Lesotho
Malawi
Mozambique
Namibia
South Africa
Zambia
Zimbabwe

Burkina Faso
Cabo Verde
Côte d'Ivoire
Gambia
Ghana
Guinea
Guinea-Bissau
Liberia
Mali
Niger
Niger
Nigeria
Senegal
Sierra Leone
Togo

Technical Working Group Profile

- Public Health Institute ,
- Ministry of Health Biosafety and Biosecurity Laboratories Division
- Animal/veterinary health
- International Health Regulatory Focal Point
- Member of national legislature
- An institution of higher education related to health and life science laboratories
- military medical service
- decision maker / political figure.

Priority 3

Establish a Regional Training and Certification Program for Biosafety and Biosecurity Experts

Establish a Regional Training and Certification Program for Biosafety and Biosecurity Experts

Action

Output

Develop local, accessible, sustainable and regionally recognized and endorsed formal training and certification program

Creation of an

African Union's Register of Biosafety and Biosecurity Professionals.





The Regional Training and Certification Program for Biosafety and Biosecurity Professionals Examination and Certification Committee Members



Noel Odhiambo

Professional Title: Senior Technical Advisor

Nationality: Kenyan

Institution: Amref Health Africa in Kenya

Area of Expertise:

- Biosafety and Biosecurity
- Emergency Preparedness and Response

Chairperson



Dr. Ali Asv

Professional Title: Professor of Pharmacology and Biosafety Advisor

Egyptian Nationality:

Animal Health Research Institute, Agriculture Research Institution:

Center

Area of Expertise:

Biosafety and Biosecurity Technical Expert

Teaching of Veterinary Medical Sciences.



Anafi Mataka

Professional Title: Project Lead Nationality: Zimbabwe

African Society for Laboratory Medicine Academy Institution:

Area of Expertise:

Diagnostics implementation

Professional education



Stella Ngozi Udo

Professional Title: Director Medical Laboratory Science/Public Health Consultant

Nationality:

Institution: Starhealth Consultancy Limited and Nigeria Biological

Safety Association

Area of Expertise:

Biosafety and Biosecurity Teaching and mentorship

Quality Management Systems (Auditing lead and Technical Expert, Teaching and Mentorship)

Administration and Management.



Maureen Ellis

Professional Title: Executive Director

Nationality: Canada

International Federation of Biosafety Associations Institution:

Area of Expertise:

International Professional Examination & Certification

Biosafety and Biosecurity



Mr. Byabajungu Henry

Professional Title: Technical Supervisor

Nationality: Uganda

Institution: Uganda Supranational Reference Laboratory

Area of Expertise:

Expert in safety with TB culture laboratories Management of Biosafety Level 3 Laboratories.

Competent in shipping of infectious materials according to IATA

Certified Biorisk management professional and trainer in Biorisk



James Robert Wakungwi Sakwa

Professional Title: Principal Medical Laboratory Officer

Nationality:

Masinde Muliro University of science and technology Institution:

Area of Expertise:

Bio risk management

Biosafety and Biosecurity Technical Expert

Teaching in health Sciences



Mrs. Comfort Nyameba Opoku

Professional Title: Senior Biosafety and Biosecurity Officer

Nationality: Africa Centres for Disease Control and Prevention Institution:

Area of Expertise:

Teaching in health Sciences and Biosafety and Biosecurity at Tertiary Institution and Health sector

Coordination and Management

Regulation



Mr Fouelifack Nzeko Eric

Professional Title: Biosafety and biosecurity expert

Cameroonian Nationality: Institution: University of Douala

Area of Expertise:

Biosafety and Biosecurity Technical Expert

Laboratory Quality Management System



Mrs. Sibongile N. Zimuto

Professional Title: Laboratory Quality Systems and Accreditation Expert

Nationality: Zimbabwe

Institution: SADC Regional Centre of Excellence in Quality Systems

(Zimbabwe)

Area of Expert

Standards and Standardization

Laboratory Quality Management Systems, Accreditation, Metrology

(SQAM)



Khalid FARES

Professional Title: Professor, Teacher Researcher

Nationality: Morocco

Cadi Ayyad University. Faculty of Sciences Semlalia. Institution:

Marrakech.

Area of Expertise:

Biosafety and Biosecurity,

Waste Management and Valorization,

Food Technology.



Madame Idosie KENFACK

Professional Title: Head of Mycobacteriology section and Biosafety/

biosecurity officer

Burundian Nationality:

Institution: National Institute of Public Health (National Reference Laboratory)

Area of Expertise:

Biosafety and Biosecurity,

Mycobacteriology

Quality management System Training and Capacity Building



Prof Ciira Kiiyukia

Professional Title: Senior Biosafety and Biosecurity Officer

Nationality:

Biorisk Management Association of Kenya Institution:

Area of Expertise: Microbiologist

University lecturer/examiner in Health sciences specialized in disease prevention and control, occupational health and safety a

environmental health.

Cohort 1 - Biorisk Management







Cohort 1 - Biological Waste Management









Priority 4

Establish a regulatory and certification framework for institutions handling high risk pathogens



Regulatory and Certification Framework for High Containment Facilities in the Africa Region

Component 1 Component 3 Component 2 Minimum standards **Scored** Recognition for **Standard** and **Biosafety Assessment** Certification and Checklist **Framework Biosecurity**

Addressing Compliance to International Standards for Biosafety and Biosecurity

Launch and Cohort 1 Training of assessors











Priority 5

Strengthen NPHI and NRL capacities to prevent, detect and respond to Events of public health concern in each MS

Africa CDC Biosafety and Biosecurity Initiative



Regional Priorities Report

https://africacdc.org/download/africa-cdc-biosafety-and-biosecurity-initiative-report-on-the-consultative-process-to-identify-priorities-for-strengthening-biosafety-and-biosecurity/

Africa CDC Biosafety and Biosecurity 5-Year Strategic Plan

https://africacdc.org/download/biosafety-and-biosecurity-initiative-2021-2025-strategic-plan/

TECHNICAL AND FINANCIAL PARTNERS

Organizations participating in the consultative workshops, drafting and reviewing of the Report.

- Africa Union (AU) Member States
- The Nuclear Threat Initiative (NTI)
- Food and Agriculture Organization of the United Nations (FAO)
- United States Centres for Disease Control and Prevention (US CDC)
- United States Defense Threat Reduction Agency (DTRA)

Organization that provided ressources and hosted workshops

- Africa CDC Regional Collaborating Centres (RCCs)
- African Society for Laboratory Medicine (ASLM)
- Global Affairs Canada Weapons Threat Reduction Program

