

THE REPUBLIC OF UGANDA

NATIONAL ACTION PLAN FOR HEALTH SECURITY

2019 - 2023



August 2019



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NATIONAL ACTION PLAN FOR **HEALTH SECURITY** 2019 - 2023

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ACRONYMS

AFENET African Field Epidemiology Network

AMR Antimicrobial Resistance

ASP Antimicrobial Stewardship Program

CDC US Centres for Disease Control and Prevention CDDEP Centre for Disease Dynamics, Economics & Policy DGAL Directorate of Government Analytical Laboratory

DHT District Health Team

DVO District Veterinary Officer EAC East African Community

EPR Epidemic Preparedness and Response EPR Epidemic Preparedness and Response

FELTP Field Epidemiology and Laboratory Training Program

GHS Global Health Security

GHSA Global Health Security Agenda

GoU Government of Uganda
HSS Health System Strengther

HSS Health System Strengthening IDI Infectious Diseases Institute

IDSR Integrated Disease Surveillance and Response

IFSS Integrated Food Safety System

IGAD Inter-Governmental Authority for Development

IHR International Health Regulations

INFOSAN International Network of Food Safety Authorities

IPC Infection Prevention and Control

IRCM Integrated Regional Coordination Mechanism

JEE Joint External Evaluation
M&E Monitoring and Evaluation

MAAIF Ministry of Agriculture, Animal Industry and Fisheries

MEAs Multi-lateral Environmental Agreements

MoD Ministry of Defense

MoGLSD Ministry of Gender, Labour and Social Development

MTIC Ministry of Trade, Industry and Cooperatives

MoH Ministry of Health

MoIA Ministry of Internal Affairs

MoS Ministry of Security

MoST Ministry of Science and Technology MoU Memorandum of Understanding MoWE Ministry of Water and Environment

NAP National Action Plan

NAPHS National Action Plan for Health Security

NDA National Drug Authority NDP National Development Plan

NEMA National Environment Management Authority

NGO Non-Governmental Organization NIPH National Institute of Public Health NOHP National One Health Platform

NTF National Task Force

NWSC National Water and Sewerage Corporation
OHTWG One Health Technical Working Group
OIE World Organization for Animal Health

OPM Office of the Prime Minister
PHE Public Health Emergency

PHEOC Public Health Emergency Operation Centre

PoE Point of Entry

PPE Personal Protective Equipment REC Regional Economic Communities

RRT Rapid Response Team SME Subject Matter Expert SMS Short Message Service

SOP Standard Operating Procedure

TADS Trans-boundary Animal Disease and Zoonoses

UBOS Uganda Bureau of Statistics

UN United Nations

UNBS Uganda National Bureau of Standards

UNEPI Uganda National Expanded Program on Immunization

UVRI Uganda Virus Research Institute

UWA Uganda Wildlife Authority

VARM Vulnerability and Risk Analysis and Mapping

VHT Village Health Team

WHO World Health Organization
OHCO One Health Coordination Office
UPDF Uganda Peoples Defense Forces

UPF Uganda Police Force

FOREWORD

Uganda is signatory to the International Health Regulations (IHR) 2005, which mandates member states to strengthen capacities for health security. There have been reports of threats to security of physical, biological and chemical hazards. Emerging and re-emerging infections have descended into countries without warning and have caused unprecedented public health emergencies at national and international levels. The Ebola epidemic of 2014-2016 and the current outbreak in the Democratic Republic of Congo are glaring examples. There have also been reports of anthrax which is of potential concern to both human and animal life.

History tells us that major outbreaks of Influenza and Plague alter the course of socio-dynamics in many countries. It is, therefore, important that national governments prepare for these potential concerns which not only affect the health sector but threaten the entire socio-economic structures of society. The resources to contain these events, in our experience are astronomical, outside the limits of the national budgets. However, early detection and action often leads to effective containment within the framework of prevention. Using this approach, Uganda has been heralded as a leader in health security in the region.

This plan responds to threats by pre-empting actions to contain these public health events before they generate public health emergencies of international concern. This plan gives a comprehensive approach in which human health and animal health is integrated, taking into account the dynamics of the environment. In particular, it also addresses the potential misuse of harmful chemicals, microbials and radiation. Prevention is the corner stone of the national response to these emergencies.

For successful implementation, a multi-pronged multi-sectoral approach is required. Equally important are partnerships at national and international levels.

The National Action Plan for Health Security (NAPHS) 2019 - 2023 provides a platform for coordination and collaboration to address public health emerging threats and improve national health security.

I am appealing to all sectors to embrace the NAPHS.

For God and my country

Rt. Hon. Ruhakana Rugunda

Prime Minister

PREFACE

Uganda is a leader in health security, and this has been demonstrated in the rapid containment of previous outbreaks such as Ebola Virus Disease. In addition, Uganda is championing the fight against Antimicrobial Resistance through surveillance and research in both human and animal sectors. We are also building capacities for an integrated National Laboratory System for quick detection of priority infectious agents.

As a signatory to the International Health Regulations 2005, the country undertook implementation towards compliance by scaling up of Integrated Disease Surveillance and Response (IDSR) and capacity building of Rapid Response Teams. The operationalization of the Public Health Emergency Operation Centre (PHEOC) in 2014, provided a platform for multisectoral collaboration during response to public health emergencies. A Memorandum of Understanding was signed in 2016 between Ministry of Health, Ministry of Agriculture, Animal Industries and Fisheries, Ministry of Water and Environment and Uganda Wildlife Authority to form the National One Health Platform.

Uganda piloted the Global Health Security Agenda in 2013 and continues to strengthen global health security capacities through collaboration and partnership with various development and implementing partners. Following the Joint External Evaluation in 2017, multisectoral teams developed the National Plan for Health Security 2019 -2023 under the guidance of the Office of the Prime Minister.

The plan aims to secure the health and wealth of 41 million Ugandans as well as visitors, tourists and travellers to Uganda. With the increase in travel and trade, the country has witnessed over the past 35 years, we need to strengthen the health security capacity to avoid the losses from large public health events. The estimated cost of 160 billion shillings (USD 43 million) for implementation of this plan will be sourced through incorporation into the National Development Plan III as well as additional funding from our health partners.

It is our humble plea that all ministries departments and agencies support this process to ensure a healthy, wealthy and resilient Uganda by 2040.

Lastly, we appreciate the immense support of the Office of the Prime Minster in all the endeavours that ensures smooth coordination and collaboration across sectors building health security capacity in Uganda.

For God and My Country.

Dr. Jane Ruth Aceng

Hon. Minister of Health

Acknowledgements

The Office of the Prime Minister would like to express sincere gratitude to all organisations and individuals that supported the development process of the Uganda National Action Plan for Health Security (NAPHS) 2019-2023.

The NAPHS development process was a follow up on the recommendations of the Joint External Evaluation conducted in June 2017 which attracted participation from a wide range of stakeholders from all relevant sectors. Appreciation also goes to the academia, civil society, UN agencies, and bilateral partners that provided valuable inputs and technical advice.

The process of developing this plan and implementation framework was participatory and involved engagement with key sectors and multidisciplinary stakeholders including government ministries, departments, agencies, and development partners. Special thanks go to Ministry of Health, Ministry of Agriculture, Animal Industries and Fisheries, Ministry of Water and Environment, and Uganda Wildlife Authority as well as World Health Organisation, US CDC, Infectious Diseases Institute, Resolve to Save Lives, and Food Agricultural Organisation that supported the finalisation of the NAPHS.

See Annex I for complete list of participants in the NAPHS development.

EXECUTIVE SUMMARY

Many of the world's most dangerous diseases, including Ebola, Anthrax, Cholera and Yellow Fever are recurrent health threats for Uganda; and the country continues to be a high-risk hotspot for other infectious disease outbreaks. Combating biological threats and health emergencies must be a cornerstone of Uganda's vision for healthy, wealthy, and resilient communities by 2040.

As a signatory to the International Health Regulations (2005), Uganda is expecting to take the necessary steps to develop, strengthen, and maintain core public health and emergency preparedness capacities. The Joint External Evaluation (JEE) of IHR core capacities conducted in June 2017 highlighted strengths and critical capacity gaps that exist in preparing for and responding to public health emergencies. According to the JEE, out of the 50 indicators across 19 technical areas, there was no capacity in 10% of indicators, limited capacity in 30% of indicators, developed capacity in 40% of indicators, and demonstrated capacity in 20% of indicators. No sustainable capacity was achieved for any of the indicators.

The National Action Plan for Health Security (NAPHS) 2023 defines the strategies, actions, and priorities the Government of Uganda will adopt to improve the country's ability to prevent, detect, and respond to public health emergencies. This plan is the first, full-fledged strategy of its kind in Uganda and adopts a whole-of-government approach to health security by leveraging the strengths of many different ministries, departments, agencies, partners, and funding streams.

NAPHS 2023 is a 5-year strategic plan developed collaboratively with relevant ministries, departments, and agencies (MDAs). The plan includes agreed-upon objectives based on the gaps identified in health security assessments, public health risks in the country, and strategic priorities of the stakeholders involved.

By design, the country adopted a multi-sectoral approach, leveraging the principles of One Health, with significant engagement in the process from MDAs and stakeholders. This multi-sectoral approach reflects a shared commitment to enhanced collaboration when addressing national health security.

The NAPHS covers all 19 technical areas required to improve health security. The estimated cost to implement all planned activities during 2019-2023 is 160 billion Ugandan Shillings. The major cost drivers of the NAPHS come from surveillance, antimicrobial resistance, medical countermeasures and personnel deployment, and national laboratory systems.

The proposed activities under the 19 technical areas will be implemented over the 5-year period through the involvement of different sectors, using a One Health approach, with the Office of the Prime Minister providing overall oversight. Wide participation of the UN agencies, implementing partners, international organizations, and bilateral partners will be embraced within existing coordination frameworks. MOH, MAAIF, MoWE and UWA shall maintain their traditional roles in the national one health platform of policymaking, providing guidelines,

training and capacity building, resource mobilization, monitoring the health sector response, and the coordination of partners. In the spirit of the plan, the line ministries and authorities shall provide guidance and support implementation of the NAPHS in the decentralized districts, municipalities, and city authorities.

Implementation has already begun and technical leads from all 19 technical areas and sector representatives will track implementation progress using an electronic platform. The expanded multisectoral health security platform, composed of all relevant MDAs, will meet twice per year to review implementation progress, share lessons learnt, and identify priority activities for the next planning period.

The NAPHS spells out a road map towards realisation of a health secure nation through robust preparedness, detection, and response system to public health emergencies and threats. The plan represents a robust commitment by all sectors and levels of the Government of Uganda to systematically build and maintain the core capacities, supported by relevant financing, to protect Uganda and the world from the impacts of public health emergencies.

1. BACKGROUND/CONTEXT

1.1 Country profile

Background

Uganda is a land locked country located in East Africa with a projected population of 41,215,593 (2019). It is bordered by South Sudan to the north, Kenya to the east, Tanzania and Rwanda to the south, and the Democratic Republic of Congo to the west. Over the past decade the country has experienced significant weather fluctuations, natural disasters and disease outbreaks which have affected most regions. On average, 200,000 people are affected by disasters every year (OPM, 2010).

Public Health Risks

Uganda is vulnerable to public health hazards and emergencies because of her geographical location in the meningitis and yellow fever belts, the filovirus triangle, and being a host to migratory birds coming from Europe. Uganda is also located in the volatile Great Lakes Region with a number of ongoing conflicts resulting in a large influx of refugees from neighbouring countries.

1.2 Progress in IHR implementation

In view of these vulnerabilities, the government of Uganda in collaboration with partners has instituted prevention and control measures aimed at mitigating the effects of the public health emergencies. These include rolling out Integrated Disease Surveillance and Response (IDSR) with support from the World Health Organization (WHO) as a framework for implementing International Health Regulations (IHR), 2005. IDSR builds district level capacities for public health emergency response. More than 6,000 health workers have been trained across the country, leading to timely detection and response to disease outbreaks.

In 2013, the Ministry of Health with support from CDC launched the Global Health Security Agenda (GHSA) Pilot Project to accelerate the country's compliance with the IHR (2005). The project resulted in strengthening of capabilities related to prevention, detection, and response. The establishment of a Public Health Emergency Operation Centre (PHEOC) resulted in further infrastructural investment and attaining additional support related to capabilities for real-time surveillance, reporting, and laboratory investigation tracking systems.

Uganda conducted a pilot assessment of the GHSA implementation progress in February 2015 using the IHR (2005) core capacities. The findings acknowledged the country was on course

with the implementation of GHSA and IHR (2005), especially in disease surveillance, health information, and the PHEOC. That clear definition existed for the major elements of health security around the themes prevent, detect and respond to communicable diseases. An action plan was developed to address gaps identified in the assessment.

In addition to these vast monitoring exercises, Uganda requested for a Joint External Evaluation in December 2016 and subsequently undertook the exercise in June 2017. A multi-sectoral international External Evaluation Team of 15 members selected on the basis of their recognized technical expertise from a number of countries, and advisors representing international organizations conducted the assessment jointly with the Ugandan counterparts.

Uganda completed the Joint External Evaluation (JEE) in June 2017. The purpose of the JEE was to assess the country's capacity to prevent, detect and rapidly respond to public health emergencies (PHEs). Nineteen technical areas were assessed and scored on a scale of 1-5; with the score 1 suggesting no capacity, and 5 sustainable capacity. The technical areas were grouped under following four thematic areas; Prevent, Detect, Respond, other IHR related hazards and PoE (Figure1 below)

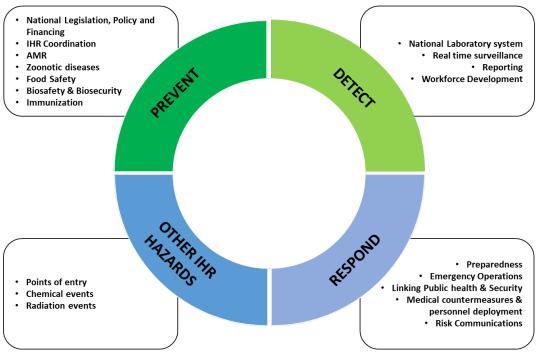


Figure 1 Distribution of the 19 technical areas across the Four Thematic Areas

1.3 Joint External Evaluation results

The situation analysis is informed by the findings of the Joint External Evaluation conducted in June 2017. The recommendations of the JEE report formed the basis for the formulation of the NAPHS. The findings from JEE are found in Annex II.

Table 1: Summary of capacity level for implementation of IHR (2005) core functions

Score	Capacity level	No of indicators	% of total indicators
5	Sustained capacity	0	0%
4	Demonstrated capacity	10	20%
3	Developed capacity	20	40%
2	Limited capacity	15	30%
1	No capacity	5	10%
	Total	50	100%

Source: World Health Organisation, Uganda Joint External Evaluation Report 2017.

The assessment showed that Uganda has demonstrated capacity in:

- Immunization
- Laboratory system
- Workforce development
- Real time surveillance
- Response operations
- Risk communication.

However, the country scored "no capacity" in:

- National legislation, policy and financing,
- Preparedness, and
- Points of entry.

The JEE recommended priority actions to address these gaps have been included in the Uganda National Action Plan for Health Security.

2. VISION, MISSION, OBJECTIVES, GUIDING PRINCIPLES AND CORE VALUES OF THE NAPHS

2.1 Vision

Healthy, wealthy and resilient communities in Uganda by 2040

2.2 Mission

To strengthen Uganda's health security capacity and community resilience against public health threats in compliance with International Health Regulations (2005).

2.3 Objectives

- 1. To strengthen the country's capacity to prevent, detect and respond to public health threats.
- 2. To strengthen the collaboration and coordination mechanism for NAPHS implementation through application of multi-sectoral and one health approaches.
- 3. To map and align existing and potential domestic and external financing to support NAPHS implementation.

2.4 Guiding principles

- The One Health Approach: The majority of emerging and re-emerging infections are zoonoses. Increasing human and animal interactions are the major drivers of emergence of zoonotic diseases and anti-microbial resistance. Furthermore, human-animal-environment interface may lead to other public health events which require multi-disciplinary collaboration by human, animal and environmental health experts to prevent and control such diseases or events.
- **Multi-sectoral approach:** Building the IHR core capacities requires collaboration and communication towards shared responsibility among multiple sectors. Effective partnerships and cooperation among the different ministries will be encouraged throughout implementation.
- Collective responsibility: Addressing public health threats should be based on values of solidarity, humanity and sustainable development. Health security is a collective responsibility for all stakeholders including government, civil society, private sector and the general population.

• Collaboration and Partnerships: Health security requires strong collaboration, partnerships and information sharing with actors within and outside the country's borders.

2.5 Core values

- Shared responsibility
- Transparency
- Information sharing
- Accountability
- Respect of each actor's jurisdiction

3. METHODOLOGY/PROCESS FOR THE DEVELOPMENT OF THE ACTION PLAN

3.1 Development of the NAPHS

Multidisciplinary and multi-sectoral subject matter experts convened and held a series of meetings between August 2017 to May 2019. The technical experts reviewed all the available national assessments including the 2017 JEE country report, the 2007 PVS, laboratory assessments and literature. The technical team composition was multi-sectoral and multidisciplinary with representation from key Government of Uganda line Ministries, Departments, Agencies and development partners. Priority actions identified during the 2017 JEE were included in the NAPHS as targets for interventions in order to improve the overall scores. The draft NAPHS was shared with stakeholders for technical input and suggested changes were incorporated. Review meetings between stakeholders were held for final input and buy-in. The planning process was coordinated by the Office of Prime Minister, operationally supported by the Ministry of Health, and included stakeholders from all relevant sectors. The full list of participants is available in Annex I.

3.2 Identification of Priority Activities

During the NAPHS validation and costing workshop in May 2018, technical working groups developed activities that were critical for stepping up their JEE score levels. The draft NAPHS was shared with stakeholders for technical input and suggested changes were incorporated. In addition to technical working group input, Uganda validated their activities using the GHSA & IHR Standardized Milestone Library which defined steps that needed to be taken to move from the current JEE level of capacity score to the next JEE level of capacity score.

After developing these activities, technical working groups prioritized strategic activities that could realistically be implemented during the first 18 months of implementation (2018-2019). The strategic activities were prioritised by country-specific risks and hazards, strategic plans and priorities of participating MDAs, and existing or potential funding sources.

Recommended priority activities were presented to key stakeholders for approval and subsequently incorporated into the NAPHS. The final document was then shared with key ministries and the OPM for final input, approval, revisions and printing.

Based on the successful cross-government joint prioritization process, the Government of Uganda plans to routinely conduct a NAPHS progress check and identify priority activities every 6 months until the next JEE is conducted.

3.3 Linkage to other government frameworks

The NAPHS operational framework references the work in the national vision 2040, National Development Plan (NDP III), technical guidelines, strategic plans and relevant policies of the various sectors and implementing MDAs. The different sector specific strategic plans shall contribute to the attainment of the NAPHS that subscribes to the NDP II and Uganda's Vision 2040. The NAPHS has been developed with the sole purpose of improvement of national capacities to implement IHR. The stakeholders shall implement all activities outlined in the NAPHS resulting from the JEE 2017 recommendations.

The NAPHS operationalization is envisioned to involve various Ministries, Departments and Agencies that contribute to the different technical areas outlined in the plan (see fig.1above). The different sectors will be coordinated through the Office of the Prime Minister (OPM) to ensure national health security in regard to human, animal and environmental health.

NAPHS implementation shall use an all government approach drawing on the Public Private Partnership linkages. Resources will be integrated in the sector budgets and additional resources mobilized from within government and partners. Accountability and reporting on progress made will be in line with the Joint Sector Reviews coordinated by the OPM. Uganda is a signatory to IHR (2005) and World Organisation for Animal Health (OIE) which requires regular reporting to WHO and OIE respectively. The National IHR Focal Point within the MoH and the OIE country delegate based in Ministry of Agriculture, Animal Industries and Fisheries (MAAIF) will be informed of all progress made in attainment of IHR competences in addition to any major events in humans and animals respectively.

Linkages with these strategic and operational plans is critical to ensuring that domestic financing is made available for health security.

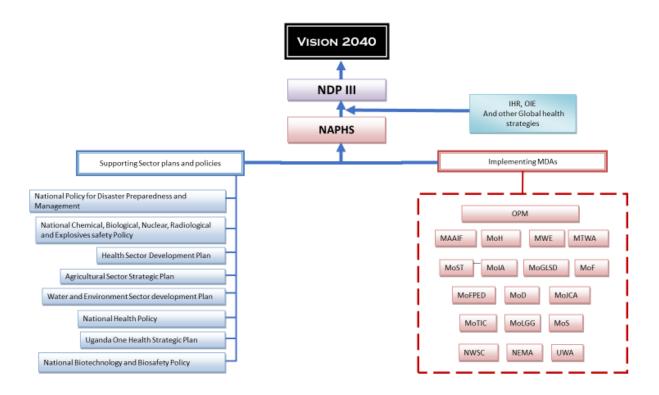


Figure 3: Diagram showing relation of MDAs and national plans relation to the NAPHS

COMPONENTS OF ACTION PLAN

This section describes priority strategic actions selected by technical area from 2019 to 2023, based on the prioritization process described earlier. Each strategic action described consists of more detailed activities along with the coordinating MDAs.

4.1 National Legislation, Policy and Financing

largets

- An adequate legal framework for the country to support and enable the implementation of all its IHR obligations and rights.
- Revision, or when necessary, creation, of legislation and supporting instruments to properly facilitate implementation of IHR
- Provision of adequate funding for IHR implementation through the national budgeting or other mechanisms to ensure availability of resources for implementation and response to public health emergencies at all times.

JEE Scores

Current status

emergencies in place within East African community. These legislative instruments, however, are not yet in full alignment with the border agreements, protocols or memoranda of understanding (MoUs) with neighbouring countries with regard to public health with and implement the IHR (2005). These include legislative instruments governing public health surveillance and response; Cross-Uganda has several laws governing public health to support and enable the implementation of her obligations and rights to comply

emergency funds need to be more clearly defined. In addition, the pathway for accessing national funding to support public health emergencies is not clearly. The Contingencies fund at Ministry of Finance is not easily accessible during emergencies, and thus the structures to access the

			nd respond	tbreak investigations and	Obj 4: Establish an effective rapid response fund to support outbreak investigations an
			480,000,000	MoH, MAAIF	Establish and fund a budget line in relevant ministries for coordination activities between OIE and IHR focal points
			755,243,595	MoH, MAAIF, MoWE, UWA,	Advocate for funding, equipping and staffing for the National One Health Platform and Coordination Office
			265,687,500	MoFPED, MoH, MAAIF, MoWE, MoTA, partners	Advocate for domestic funding, equipment and staffing for IHR implementation.
nakers	ision-ı rs	/ deci secto	ce, and other key 1g to all relevant	liament, Ministry of Finan tion and emergency fundir	Obj 3: Develop an IHR advocacy and funding strategy for Parliament, Ministry of Finance, and other key decision-makers for increased government funding to support IHR implementation and emergency funding to all relevant sectors
			408,350,345	MoH, MoJCA	Develop and implement a national advocacy strategy to support revision of legal instruments and policies
			(administrative environment
onal	e nati	uin th	and challenges within the national		Obj 2: Advocate for revision of legal instruments and policies to address existing gaps
			147,802,500	MOH, MAAIF, MoWE, MoTA, MoGLSD	Develop National One Health Policy, to incorporate animal and human health surveillance
			238,578,250	MoH, MAAIF, MoWE, UWA	Review key existing legislation and policies (Public Health Act, Animal Diseases Control Act, and Food Safety) that impede compliance with the International Health Regulations
	S	ment	R and OIE requirements		Obj 1: Update in-country legal and policy framework to support implementation of IH
2021 2022 2023	2020	2019	Budget (UGX)	Responsible Authority	Strategic Actions

TOTAL	chici geney response nom me Mora ED	neview inechanism on accessing failus for public nearm	Davious machanism on accessing finds for miblic booth
TOTAL 2,346,091,355	MoTWA	MAAIF, MoWE,	MoFPED, OPM, MoH,
		50,428,665	

4.2 IHR Coordination, Communication and Advocacy

largets

- Multisectoral and multidisciplinary approaches through national partnerships that allow efficient, alert and responsive system for effective implementation of the IHR
- communication that is accessible at all times. Coordinate nationwide resources, including sustainable functioning of a National IHR Focal Point – a national centre for IHR
- Provide WHO with contact details of National IHR Focal Points, continuously update and annually confirm them

JEE Scores

	P2.1
of IHR	A functional mechanism is established for the coordination and integration of relevant sectors in the implementation
ŀ	.

Current Status

the platform and is the information centre for all PHEs. public health emergencies. Public Health Emergency Operation Centre (PHEOC) under the Director General Health Services provides A multi-sectoral, multidisciplinary coordination and communication mechanism exists through the National Task Force (NTF) for IHR coordination operates through the IHR National Focal Point (IHR NFP) at the MoH National Disease Control Department Office.

to coordinate the platform is inadequate. mechanism for the other technical areas. The National One Health Platform was established, although the human resource and funding However, NTF does not meet regularly outside outbreaks situations. Furthermore, there is no well-established IHR coordination

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022
Obj 1: Establish an efficient IHR-OIE coordination mechanism to monitor progress tactivities	to monitor progress tows	owards implementation of IHR	tion c	of IH	R	
PRIORITY YEAR 1 : Develop TOR and SOPs for IHR focal points for each sector contributing to the NAPHS	HOM	28,105,000				
Determine structure and function of national IHR implementation: Training nominated IHR focal points and functionalize national IHR implementation	МОН	67,188,750				
PRIORITY YEAR 1 : Implement specified IHR & IDSR activities by NFPs, sectoral FPs, and senior management	MOH, MAAIF	359,955,000				
Ensure relevant offices and agencies which are coordinating IHR implementation are fully capable of 24/7 functionality (equipment, human resources and infrastructure)	МОН	737,225,000				
PRIORITY YEAR 1 : Advocate for senior management in relevant sectors to commit to supporting IHR core capacity-building efforts	МОН	81,615,000				
Equip national focal points to verify emergencies and rumours of public health events	МОН	265,725,625				
Conduct monthly IHR-OIE coordination meetings		14,400,000				
Operationalize One Health policy at national and district levels	MOH, MAAIF, MoWE, UWA	420,189,040				
Review pre-service public health training curricula to include a component for public health laws	MOH, MoES, UCDC, NCHE, UNCST, MakSPH	54,504,140				

	TOTAL 2,053,518,805	TVLOL
	MakSPH	THE STATE HOLLINS
24,611,250	NCHE, UNCST,	Advocate 101 liki eased lidilloet of public fleatur professionals in
	MOH, MoES, UCDC,	ai sloucissegura 4+1004 cildina jo royamia posocioni rej otocorp V

4.3 Antimicrobial Resistance

approach, including: Target: A functional system in place for the national response to combat antimicrobial resistance (AMR) with a One-Health

- Multi-sectoral work spanning human, animal, crops, food safety and environmental aspects. This comprises developing and implementing a national action plan to combat AMR, consistent with the Global Action Plan (GAP) on AMR,
- antimicrobial agents in animals, such as the WHO Global Antimicrobial Resistance Surveillance System (GLASS) and the OIE global database on use of Surveillance capacity for AMR and antimicrobial use at the national level, following and using internationally agreed systems
- Prevention of AMR in health care facilities, food production and the community, through infection prevention and control measures and,
- treatments and access to appropriate antimicrobials when needed, while reducing inappropriate use. Ensuring appropriate use of antimicrobials, including assuring quality of available medicines, conservation of existing

JEE Scores

3	P3.4 Antimicrobial stewardship activities	P3.4
3	P3.3 Healthcare-associated infection (HCAI) prevention and control programs	P3.3
2	P3.2 Surveillance of infections caused by antimicrobial-resistant pathogens	P3.2
2	P3.1 Antimicrobial resistance detection	P3.1

Current Status

and laboratories participating in the detection and surveillance of AMR were mapped and will be supported on an ongoing basis. The Uganda National Action Plan (NAP) on AMR (2018-2022) has been developed to guide the AMR response. The health facilities

and partners. is linked to sample transportation and isolate referral system from lower health facilities to regional and national laboratories Gradual enrolment of veterinary laboratories to the surveillance network is being undertaken. The human health surveillance network measurement among humans, are supported at selected regional referral hospitals with routine national audits conducted by the MoH Infection Prevention and Control (IPC) and antimicrobial stewardship activities, including antibiotic use and consumption

committee is not functional. In addition, regulation of antibiotic use is not yet implemented as per the National Drug Act. implemented. The national IPC program lacks a Health Care Associated Infections (HCAIs) control program and the national IPC Plans to include AMR surveillance and response in the water, environment and animal health sectors need to be developed and Since the last JEE (conducted in 2017), the National AMR NAP monitoring and evaluation plan with indicators have been developed.

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022	2023
Obj 1: Strengthen the capacity of designated laboratories to conduct detection and rep	duct detection and repor	oorting of all priority AMR pathogens	y AN	IR p	atho	gens	
for five years with a system of continuous improvement							
	DG - MoH/MAIF,						
Finalize and disseminate NAP and M&E Plan that addresses all	Uganda National	1 787 701 355					
five strategic areas in a One Health approach	Academy of Science	1,207,704,333					
	(CIVIS), INVICTOR				L	L	
Develop an implementation plan and M&E Plan for each of the							
four sectors (human, animal, environment/water, and wildlife)	MoH, MAAIF, MoWE	365 501 170					
addressing all five strategic areas of the NAPH and public-private	& UWA	000,001,170					
partnerships							
Procure laboratory equipment, reagents, supplies, and	SMI IIIVM SMIN						
consumables to enhance laboratory testing capacity for detection	UNHLS. NADDEC.	618.301.380					
and surveillance of AMR pathogens in the animal & human	Implementing partners	,					
sectors	T C I						

	913,167,190	coordination centre	and reporting AMR reports from facility to national and global
	212 122	National AMR	Create a national framework for collecting, collating, reviewing,
	211,984,140	National AMR (NCC)/ NADDEC	Develop an optimal AMR surveillance information system at NMRL/NCC/NADDEC
	66,988,125	National AMR coordination centre	Build capacity of sentinel surveillance site personnel through training and mentoring
	193,740,000	National AMR coordination centre	Facilitate a National AMR Surveillance Coordination Committee
	56,189,250	MAAIF and AMR TWG	Designate farms for AMR surveillance
	5,352,132,000	UNHLS, IDI, MAAIF	Strengthen the national laboratory capacities to store and manage AMR pathogens and maintain a national biorepository of isolates
	92,186,320	UWA, NADDEC (MAAIF), CPHL, UVRI, (MoH), OHCO	Assess the national zoonotic disease burden in the AMR context and zoonotic AMR surveillance capacity
thogens	obial resistant pa	d surveillance of antimicro	Obj 2: Strengthen laboratory information systems for improved surveillance of antimicrobial resistant pathogens
	1,504,000,000	UNHLS, NADDEC	Establish internal and external QA programs for designated animal health laboratories
	4,872,960,000	UNHLS, NADDEC	Strengthen sample referral systems for detection of AMR priority pathogens
	16,000,000	UNHLS, NADDEC	Complete the development of testing SOPs and protocols for laboratory-based AMR and a system for reporting from facility to national for both human and animals
	191,713,190	UNHLS (MoH), NADDEC (MAAIF)	Develop a curriculum and train laboratory staff on detection and characterization of AMR pathogens for both human and animal health with a system of CQI – including training of NMRL to perform reference-level antimicrobial resistance testing

		ed AMR programs	Obj 4: Increase political engagement and advocacy for improved AMR programs
	1,046,505,000	National IPC Committee, IPC Focal Person, IDI	Build animal and human health workforce expertise/competencies on HCA IPC
	74,160,000	МоН	Scale up surveillance systems for HCAI programs from 14 to 25 sites
	13,059,375	МоН	Establish surveillance systems for HCAI programs for animal health in five sites to include AMR prevention and airborne infection control
	83,920,000	National IPC Focal Person, IDI	Routinely assess facilities with HCAI programmes
	87,420,000	DG-MOH, CAH- MAAIF	Reactivate the National IPC Committees with representatives from all sectors
	56,507,500	MoH, MAAIF	Develop National IPC technical guidelines for animal health
	60,937,500	MoH, MAAIF	Develop a national HCAI strategic plan
	192,722,760	MoH, MAAIF	Develop a national HCAI policy
		ion and Control program	Obj 3: Strengthen the Healthcare-Associated Infection Prevention and Control program
	2,385,301,867	National AMR coordination centre	Build subject matter expertise at the National AMR Coordination Centre
	656,712,500	UNAMRC	Conduct an annual national multisectoral AMR conference for experiences and data sharing among researchers, practitioners, etc.
			levels

	3,609,600,000	MoH, MAAIF, One health platform	Provide IPC supplies to 30 facilities
	201,812,500	МоН	Conduct advocacy meetings at national, regional, council and community levels on AMR
	3,642,500	MoH, MAAIF, MoWE and UWA, One Health platform	Develop a harmonized multisectoral AMR training curriculum
	38,432,500	MoH, MAAIF, MoWE UWA, One Health platform	Conduct multisectoral Training of Trainers (TOT) at national, regional and district levels on AMR stewardship
	2,915,207	MOH Pharmacy Division	Identify antimicrobial agents for residual testing surveillance in human, animals, and agriculture
	310,017,535	NDA, MoH, MAAIF, NMS, JMS, MAUL, health facilities	Assess antimicrobial consumption levels across animal and human health sectors at national and facility level
	12,108,750	NDA, MoH, MAAIF	Identify areas or sectors for baseline survey on selected antimicrobial consumption
	72,066,380	MoH, MAAIF, MoWE and UWA	Develop facility specific SOPs, protocols, and databases for monitoring antimicrobial use in humans and animals
	47,693,750	МоН	Scale up Antimicrobial Stewardship Program for human health from 6 to 25 sites
	17,535,750	MAAIF, MoWE and UWA	Strengthen antimicrobial stewardship programs (ASP) for animal health to include monitoring of antimicrobial use, education/communication, and other interventions to improve antibiotic use at designated centres
	40,023,750	OH platform	Develop an AMR stewardship policy

TOTAL	Improve infrastructure for water systems, isolation facilities and waste management MoH, MAAIF, One
TOTAL 27,255,662,244	MoH, MAAIF, One health platform
	2,500,000,000

4.4 Zoonotic Diseases

transmission of zoonotic diseases from animals to human populations. Target: Functional multi-sectoral, multidisciplinary mechanisms, policies, systems and practices are in place to minimize the

JEE Scores

Current Status

mechanisms for OH activities at national and sub-national level is lacking One Health strategic plan focuses on the seven prioritized zoonotic diseases: Anthrax, Zoonotic Influenza, VHFs, Plague, Brucellosis Human African Trypanosomiasis and Rabies. However, a One Health policy to establish legal and regulatory structures and funding The National One Health Platform coordinates the control and prevention of zoonotic diseases and other public health priorities. The

and sub-national levels need to be established disease control. Formal integrated zoonoses data sharing and a joint outbreak response mechanism among various agencies at national disease outbreaks. However, active integration of human and animal surveillance systems is required to institute a sustainable zoonotic response. Performance of Veterinary Services (PVS) is occasionally conducted and is used to guide decisions on control of zoonotic Fever through the human health surveillance and later animal surveillance systems. This strengthened the One Health approach during recent past, the country registered outbreaks of zoonotic Public Health Emergencies such as RVF, CCHF, EVD, Anthrax and Yellow The country has a strong passive surveillance system for trypanosomiasis, plague, influenza, Viral haemorrhagic fevers (VHFs). In the

Comprehensive training needs assessment and integrated training programs across the relevant sectors have not been developed

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022
Obj 1: Develop a national integrated priority zoonotic disease surveillance system	ırveillance system					
Assess gaps in existing surveillance systems (animal and human) for priority zoonotic diseases	NOHP (MoH, MAAIF, MWE, UWA)	215,886,035				
Conduct validation and dissemination workshop to collect inputs to the surveillance system situation report	NOHP (MoH, MAAIF, MWE, UWA)	145,169,500				
PRIORITY YEAR 1: Develop operational plans for strengthening priority zoonotic disease surveillance systems	NOHP (MoH, MAAIF, MWE, UWA)	157,379,250				
PRIORITY YEAR 1: Strengthen national capacities for surveillance data management, collection, analysis, and sharing on priority zoonotic diseases	NOHP (MoH, MAAIF, MWE, UWA)	1,862,823,280				
Train IHR Focal Points in all relevant ministries and competent authorities on their roles and responsibilities See Workforce Development D4.1 for progress	NOHP (MoH, MAAIF, MWE, UWA)	Covered in D.4.1				
Obj 2: Create a workforce that is conversant with IHR, PVS, the One Health Approach, and surveillance	e One Health Approach, :	and surveillance				
PRIORITY YEAR 1: Define the competencies required for advanced, intermediate, and frontline OH practitioners	NOHP (MoH, MAAIF, MWE, UWA)/OHCO	24,999,000				
Address competency gaps among OH practitioners	NOHP (MoH, MAAIF, MWE, UWA)/ OHCO	2,260,271,897				
Create a One Health focal person for each district	NOHP (MoH, MAAIF, MWE, UWA)/ OHCO	212,666,500				

	TOTAL 5,195,094,477	TOTAL
18,216,375	NOHP (MoH, MAAIF, MWE, UWA)/ OHCO	Strengthen the response capacity of One Health Coordination Office
27,352,070	NOHP (MoH, MAAIF, MWE, UWA)/ OHCO	Develop risk communication strategy for priority zoonotic diseases (<i>including AMR</i>)
66,412,000	NOHP (MoH, MAAIF, MWE, UWA)/ OHCO	Formulate a national One Health policy to effectively guide response to priority zoonotic diseases
72,788,570	NOHP (MoH, MAAIF, MWE, UWA)/ OHCO	Evaluate and update the existing emergency response plan for priority zoonotic diseases
131,130,000	NOHP (MoH, MAAIF, MWE, UWA)/ OHCO	Strengthen participation in regular monthly meetings of One Health Coordination Office and quarterly meetings of OH TWG
diseases		Obj 3: Establish a functional and effective system for responding to priority zoonotic

4.5 Food Safety

rarget

risks or events with effective communication and collaboration among the sectors responsible for food safety. A functional system is in place for surveillance and response capacity of the country for food-borne disease and food contamination

JEE Scores

P5.1 Mechanisms for multi-sectoral collaboration are established to ensure rapid response to food safety emergencies and outbreaks of food-borne diseases

2

Current Status

to monitor food safety drug safety. Currently, response to outbreaks of food-borne diseases is through the national Rapid Response team at the Ministry of Several agencies currently regulate food safety in the country, including the Uganda National Bureau of standards (UNBS) and the Health. However, there is inadequate awareness of food safety measures across the food chain continuum and lack of a national plan (1993) - which establishes the National Drug Authority (NDA) - there is poor coordination of stakeholders contributing to food and Directorate of Government Analytical Laboratory (DGAL). Despite existence of the Food and Drug Act (1964) and the Drug Act

sensitize the population on food safety. Networks (INFOSAN), create national platforms on food safety, set national food standards, promote good agricultural practices, and Recommendations have been made for the country to develop regulations on food safety, join International Food Safety Authorities

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2023
Obj 1: Develop a national integrated food safety framework and system	system					
Finalize legislation and regulations covering safe production,	MOH, MAAIF, UNBS,				_	\dashv
	MoWE, DGAL, MTIC,	22,522,070				
Refer to Legislation and Policy for progress on this activity	NDA, MoJCA					
PRIORITY YEAR 1: Conduct a stakeholder analysis to identify	MOH, MAAIF, UNBS,					
key stakeholders and focal points for food-borne disease	MoWE, DGAL, MTIC,	28,647,500				
surveillance and food contamination monitoring	NDA					
PRIORITY YEAR 1: Prepare a Memoranda of Understanding	MOH, MAAIF, UNBS,					
between sectors of government relevant to food safety for	MoWE, DGAL, MTIC,	9,106,250				
purposes of harmonization	NDA					
	MOH, MAAIF, UNBS,					
PRIORITY YEAR 1: Create a platform for coordination of food	MoWE, DGAL, MTIC,	111 731 200				
safety activities in line with international and national standards	Authorities, MoES,	441,/31,200				
	academic and partners					
Assess the entire food production system to identify areas which						
compromise food safety and carry out risk assessments of priority food hazards	OPM	108,808,208				
Develop a 5-year national food safety strategic plan in line with NDP	OPM	133,186,035				
Develop a national food safety surveillance and monitoring	MOH, MAAIF, UNBS,					
guidelines, including thresholds for triggering investigations and	MoWE, DGAL, MTIC,	22,522,070				
responses	NDA					
Develop an operational national surveillance and monitoring plan	MOH, MAAIF, UNBS,	82,272,160				

	10,244,621,028	TOTAL
856,289,000	MOH, MAAIF, UNBS, MoWE, DGAL, MTIC, NDA, MoJCA	Align the food value chain with the Global GAP
5,260,000,000	DGAL	Strengthen support to Directorate of Government Analytical Laboratory and other relevant labs to carry out food safety analysis for public health emergencies
290,152,500	PHEOC	Strengthen international collaboration in INFOSAN
189,327,500	OPM	Implement integrated food safety risk analysis according to commodity value chains
1,954,335,000	OPM	Implement monthly monitoring and surveillance of identified food risks across the food chain
196,990,000	OPM	Create a reporting system for timely and systematic information exchange regarding food safety events between food safety authorities, surveillance units and other relevant stakeholders
648,731,375	MOH, MAAIF, UNBS, MoWE, DGAL, MTIC, NDA	Develop a risk communications strategy across the food chain for food safety emergencies
	MoWE, DGAL, MTIC, NDA	for food safety

4.6 Biosafety Biosecurity

Largets

- proliferation and deliberate use threats, and ensure safe transfer of biological agents educational outreach to be conducted to promote a shared culture of responsibility, reduce dual-use risks, mitigate biological A multi-sectoral national biosafety and biosecurity (BSBS) system with dangerous pathogens identified, held, secured and monitored in a minimal number of facilities according to best practices. Continued training on biological risk management and
- place as appropriate Ensure that country specific biosafety and bio-security legislation, laboratory licensing and pathogen control measures are in

JEE Scores

Current Status

ensuring that especially dangerous pathogens are identified, held, secured and monitored in a minimal number of facilities according to best practices Inventory of select agents has been developed and housed at the Biosecurity secretariat. The national BSBS system is in place service personnel. Biological risk management training and educational outreach are conducted to promote BSBS. A National Bill (2012). A Laboratory Biosafety Biosecurity Manual 2015 (2nd edition) and a national bio-risk training curriculum exists for in-Uganda has a National Biotechnology and Biosafety Policy (2008), the National Health Laboratory Policy (2009), and the Biosafety

to provide a framework for guiding the sector is not yet in place. The harmonized national guidelines for licensing and regulation of The Biosafety and Biosecurity Association of Uganda has been formed with the Biosecurity secretariat at UNCST. BSBS legislation

pathogen consolidation plan across sectors. laboratories across sectors are not yet finalised. There is no integrated BSBS training into pre-service curricula and a comprehensive

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022	2023
Obj 1: Establish and implement laws and standards for national biosafety & biosecuri	ds for national biosafety & biosecurity	ty systems					
PRIORITY YEAR 1: Review the Draft	MoSTI, UNCST, MAAIF, MoH, MoES, UWA, OPM, Office of the	000 055 56					
Biosecurity Bill and policy	President, MOD, academia and private sector	33,303,000					
Sensitize the Biosecurity Bill & corresponding	MoSTI, MOH, MAAIF, UNCST,	727 770 000					
policies among political leaders	MOWE, MOD, MOIA	237,470,000					
Finalize and enact the Biosecurity Bill	MOH, MAAIF, MOWE, MOD, MOIA, MOSTI, MOTA, Parliament	17,712,500					
PRIORITY YEAR 1: Strengthen the National Multisectoral Biosecurity Secretariat	MOH, MAAIF, UNCST, MOWE, MOD, MOIA	147,431,822					
Update national inventory of dangerous pathogens and toxins	UNCST	1,100,713,125					
Develop a biosecurity risk communication strategy	UNCST, MoSTI, MOH, MAAIF, MOWE, MOD, MOIA	112,151,640					
Support enforcement and inspections of laboratories	MOH, MAAIF, MOSTI	95,153,000					
PRIORITY YEAR 1: Review and harmonize framework, guidelines, and processes for licensing all labs in the country	UVB, Allied Professionals Council, MOH, UNHLS, UNCST, MAAIF	25,200,500					

		TOTAL 2,225,685,962	TOTAL
	38,175,000	MOES, UNCST, BSBS Secretariat, MOH, MAAIF, MOSTI, NCHE and academia	Incorporate BSBS considerations into pre-service training curricula
	416,109,375	NOHP, MOH, MAAIF, Biosafety & Biosecurity Association Uganda	Provide continuous professional development for all employees in health facilities of both human and animal sectors, including field health practitioners in both fields
of responsibility	ote a shared culture of responsibility	ement training and practices to promot	Obj 2: Strengthen national biological risk management training and practices to prom

4.7 Immunisation

1 arget

cold chain and ongoing quality control that is able to respond to new disease threats. A national vaccine delivery system with nationwide reach, effective distribution, easy access for marginalized populations, adequate

JEE Scores

P7.1	Vaccine coverage (measles) as part of national programme	3
P7.2	National vaccine access and delivery	4

Current Status

and private good animal disease vaccines. This leads to inadequate coverage of vaccination in the animal populations vaccination program against selected priority diseases in the animal health sector, although some diseases are categorised as public maintenance, procurement and distribution are undertaken with support of the Uganda National Medical Stores. MAAIF runs a Global Vaccine Action Plan 2011- 2020, and the National Health Sector Strategic Plan 2015/16 -2019/2020. A number of human vaccine preventable diseases including zoonoses are covered in the immunization program. Commodity forecasting, cold chain The National Expanded Program on Immunization (UNEPI) is currently implemented in line with the Immunization Act (2016), the

well as strengthen animal immunization systems and district level in both human and animal sector. In addition, there is need to develop the Uganda National Immunization Plan as Despite this progress, limited cold chain capacity and poor vaccine stock management often result in vaccine stock outs at national

					8,887,960,226	TOTAL
				294,602,070	MAAIF, MOH	PRIORITY YEAR 1: Develop and implement a national vaccination plan for vaccine preventable priority zoonoses, highlighting rabies vaccination and elimination programme
				7,155,097,150	MOH, MAAIF	Strengthen cold chain management capacities across animal and human health sectors.
				934,436,006	MOH, MAAIF	PRIORITY YEAR 1: Increase human and animal health workforce capacity in vaccine management at national and subnational levels
				400,150,000	MOH, MAAIF	PRIORITY YEAR 1: Coordinate cross-sector implementation of activities to strengthen capacities for immunization against priority zoonotic diseases
				103,675,000	MAAIF, MoJCA, MOH	Support the development of a statutory instrument to include the priority zoonotic diseases as responsibility of national and subnational levels for their prevention, detection and control
					orm in vaccine management	Obj 1: Improve capacity of the One Health platform in vaccine management
2022	2021	2020	2019	Budget (UGX)	Responsible Authority	Strategic Actions

4.8 National Laboratory Systems

Target

point of care and laboratory-based diagnostics. Surveillance with a national laboratory system, including all relevant sectors, particularly human and animal health, effective modern

JEE Scores

D1.1 D1.2 D1.3	 D1.1 Laboratory testing for detection of priority diseases D1.2 Specimen referral and transport system D1.3 Effective modern point-of-care and laboratory-based diagnostics
D1.3	Effective modern point-of-care and laboratory-based diagnostics
D1.4	D1.4 Laboratory quality system

Current Status

national animal health laboratory network that is able to test, identify, and field products for diagnosis zoonotic diseases. capacity to test for various human and animal health related hazards. These labs include: UVRI, NADDEC, CoVAB, DGAL, DMM, UBOS, and NDA. Capabilities to conduct proficiency tests for zoonoses and trade sensitive diseases is available at MAAIF and the The country has designated seven national laboratories for detection of priority diseases. The laboratories have varying levels of

resource and infrastructure development, quality management, supply chain management, specimen referral, results-reporting and Areas for strengthening the national laboratory network are highlighted in the National Laboratory Strategic Plan, including human laboratory information systems, and integration and coordination of the national laboratory network.

						-	
Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022	2023
Obj 1: Expand capacity to detect and share results of all ten WHO Core tests, includin		g priority zoonotic diseases	disea	ases			
PRIORITY YEAR 1: Conduct capacity assessment for zoonotic disease diagnosis within the laboratory networks	MOH, MAAIF	270,343,710					
Develop and pre-test the assessment tool for MAAIF labs	MOH, MAAIF	13,970,000					
Discuss accreditation of tests in the designated reference laboratories for zoonotic diseases	UNHLS, NADDEC, UVRI, UNBS & academia	9,106,250					
Adopt and implement on Laboratory information sharing systems by all laboratories	MOH, MAAIF						
Obj 2: Implement One Health system to collect, package, and transport priority biological specimens to national laboratories from at least 80% of districts within the country for advanced diagnostics Obj 2.1: Integrate the transportation of animal samples into the human health National Specimen Referrational statement.	ackage, and transport priority biologics the country for advanced diagnostics timal samples into the human health National samples into the human health National samples in the human health Nation	gical specimens to national s National Specimen Referral and	ation Refe	ıal rral	and		
Update Hub Specimen Transportation Guidelines to include animal samples	MAAIF, MOH, UWA	606,777,500					
Develop Veterinary sample referral guidelines	MAAIF, MOH-CPHL, UWA	82,577,500					
Train veterinary workers on sample collection guidelines at regional level	MAAIF, MOH, UWA	1,445,928,000					
PRIORITY YEAR 1: Integrate transport of animal samples into the national specimen referral and transport network	MAAIF, MOH, UWA	3,628,000,000					
Conduct supervision of laboratories	MOH-CPHL, MAAIF	2,555,800,000					

Review meeting	MOH, MAAIF, UWA	179,170,000	
Draft Memoranda of Understanding for integrated sample shipment	MOH, MAAIF, UWA	10,927,500	
Create feedback mechanisms on Hub activities at Regional level	MOH, MAAIF, UWA	203,980,000	
Obj 3: Implement point of care (POC) diagnostics for applicable priority diseases	for applicable priority diseases		
Review POCT policy to integrate MAAIF	MOH-CPHL, MAAIF	17,412,500	
Stakeholders meeting to disseminate POC Policy	MOH-CPHL, MAAIF	119,585,000	
Conduct CPD trainings for lab personnel on point of care testing	MOH-CPHL, MAAIF	893,175,000	
Develop SOPs, guidelines and manuals for POC diagnostics	MOH-CPHL, MAAIF	75,225,000	
Conduct technical supervision and mentorships for POC diagnostics	MOH-CPHL, MAAIF	1,486,680,000	
Obj 4: Expand licensing and appropriate quality management systems to 80% of pub and health sector by December 2022		lic health laboratories in both animal	oth animal
PRIORITY YEAR 1: Develop a strategic plan for animal health laboratories	MOH, MAAIF	343,579,140	
Designate official Lab Quality officers in existing MAAIF structures at the national level	MAAIF	575,384,890	
Update Quality Management policies and guidelines	MOH, UHBS, DGAL, MAAIF	145,365,000	
Develop quality management system at the national referral level	MOH, MAAIF	570,730,000	

		TOTAL 13,484,064,490	TOTAL
		UNBS, MOH, MTIC, MAAIF	testing, inspecting, certificating, and calibrating all medical, veterinary, and pharmaceutical labs
			Develop a national accreditation system for
			Calibration Centres
		CPHL, UNBS	laboratory equipment at UNBS and CPHL
			Build national capacity for calibration of
			level
	71,905,000	MAAIF	Management System (LQMS-PT) at a national
			Train key MAAIF staff on conducting Lab Quality
	34,032,300	MOII-ESD, OHCO, MAAII	current national IDSR guidelines
	3/1 632 500	MOH-ESD OHCO MAAIE	Integrate animal disease surveillance into the
	110,010,000	ATACAA, ATACAAA	and animal health laboratories
	148 810 000	MOH MAAIE	Roll out quality management systems in human

4.9 Real time Surveillance

Targets

- Strengthened indicator-based and event-based surveillance systems that are able to detect events of significance for public health and health security
- authority regarding surveillance of events of public health significance; and Improved communication and collaboration across sectors and between sub-national, national and international levels of
- environmental testing, product safety and quality and bioinformatics data. Improved national and sub-national level capacity to analyse and link data from the strengthened early warning surveillance, including interoperable, interconnected electronic tools. This would incorporate epidemiological, clinical, laboratory,

JEE Scores

D2.1	D2.1 Indicator- and event-based surveillance systems	4
D2.2	D2.2 Interoperable, interconnected, electronic real-time reporting system	3
D2.3	D2.3 Integration and analysis of surveillance data	3
D2.4	D2.4 Syndromic surveillance systems	3

Current Status

system for real-time surveillance reporting particularly within the animal sector requires strengthening. Periodic environmental surveillance is undertaken. Event-based electronic system are limited at MAAIF, leading to ineffective response Real-time surveillance systems, though inadequate, are in place for both MAAIF and MoH and have been rolled out countrywide. The

Similarly, the involvement of private sector facilities is critical in surveillance and linking to national reporting systems. Electronic human, environment, water and animal health. to enhance environmental surveillance and improve availability of surveillance tools and linkage of the surveillance data between surveillance systems have to be strengthened to improve interoperability and information sharing between sectors. There is also need The human resource capacity requires strengthening for effective data handling, disease detection and response in all sectors.

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022
Obj 1: Strengthen human health surveillance systems at all levels to ensure they are electronic, interoperable and interconnected with laboratory and animal health surveillance data	ems at all levels to ensure they are elect surveillance data	ronic, interopera	ble a	nd		
PRIORITY YEAR 1: Update IDSR strategic plan and incorporate the JEE recommendations	MOH-ESD	44,357,500				
Conduct training on IDSR for public and PNFP facilities in new districts and include untrained	MAAIF, MOH	000,202,000				
health workers and armed forces						
Conduct training of trainers for animal, wildlife, and environment sectors in IDSR and field epidemiology	MAAIF, MOH, UWA	89,317,500				
Conduct trainings on IDSR for private, for-profit human and animal health sector practitioners	MOH, MAAIF, UWA	992,234,000				
Conduct training on EBS and IBS for the DVOs and the DHT before the rollout to new districts	MAAIF, UWA, MOH	1,611,562,500				
Develop IDSR curriculum for pre-service institutions	National Curriculum Development Centre	136,886,250				

service public health training institutions	МОН	227,928,750		
Conduct IDSR for health facilities of the armed forces	HOM	537,187,500		
PRIORITY YEAR 1: Conduct training of village volunteers in community surveillance (VHTs, CHWs)	MOH, MAAIF	479,436,000		
Consistently update, print and distribute tools for data collection and reporting for human health sector	МОН	2,700,000,000		
Consistently update, print and distribute tools for data collection and reporting for animal and environment health sectors	MAAIF, UWA, MWE	3,553,928,750		
Develop system for linking suspect case reports and laboratory data supporting both detection and response activities for at least three notifiable priority diseases	MOH, MAAIF, MOD	145,365,000		
Carry out water quality and sanitation surveillance and report to relevant authorities	MOH, MWE	80,000,000		
Obj 2: Strengthen animal health surveillance; develop an electronic surveillance system at the national and sub-nati levels that includes routine review of animal health surveillance data to identify and address reporting, analysis and feedback gaps	velop an electronic surveillance system a th surveillance data to identify and addr	m at the national and sub-national ddress reporting, analysis and	d sub-national alysis and	
Procure ICT equipment for EBS surveillance	НОМ	1,981,440,000		
Procure ICT equipment for animal disease surveillance	MAAIF, UWA	2,726,000,000		

		1,078,891,250	MOH, MAAIF, UWA	Develop and disseminate SOPs for surveillance data validation
		469,800,000	MOH-ESD, MAAIF	Conduct regular data quality assessment exercises
		2,731,875,000	MOH-ESD, MAAIF	Conduct training of district staff on real-time surveillance data use and reporting
O O	T		alth sectors	timeliness, and quality for animal and human health sectors
orting rates,	ve repo	ponse and to improve reporting rates.	els to enhance early detection and respo	Obi 3: Promote use of surveillance data at all levels to enhance early detection and res
		563,815,000	MOH, MAAIF, UWA	Conduct quarterly review meetings for system developers and users to review and improve the performance of the interoperable, electronic surveillance system
		563,760,000	MOH, MAAIF	Conduct support supervision
		4,494,062,500	MOH, MAAIF	Conduct trainings for district data managers, DHOs, DVOs, VHOs, and health facility leadership
		245,000,000	MOH, MAAIF	Print training materials
		44,658,750	MOH, MAAIF, UWA, MWE	Train trainers in the interoperable, electronic surveillance system
		194,628,750	MOH, MAAIF, UWA, MWE	Develop training materials for the users of the interoperable electronic surveillance system
		43,643,312	MOH, MAAIF, MWE, UWA	Link human health, animal health, and other electronic reporting systems to a single interoperable system
		1,458,320,625	MAAIF, UWA	Roll out electronic reporting system (EMPRESI) in the animal sector

	TOTAL 28,723,043,437	TATOT
500,000,000	MAAIF, MOH, UWA	Print and disseminate priority syndromic reportable events
3,642,500	MAAIF, MOH, UWA	Define 10 syndromic events of public importance that are reportable
		Obj 4: Create a syndromic surveillance system
35,000,000	MOH, MAAIF, UWA	PRIORITY YEAR 1: Publish weekly One Health Epidemiological Bulletin

4.10 Reporting

Target

Timely and accurate disease reporting according to WHO and OIE requirements and consistent relay of information to FAO

JEE Scores

Current Status

the National Emergency Coordination and Operations Centre (NECOC). The PHEOC has effective situational awareness systems linked to all districts, all One Health stakeholders, and is fully connected to Uganda has an active PHEOC with leadership, staff and technology to rapidly coordinate the response to public health emergencies.

the necessary facilitation to enable the IHR/OIE focal point to perform their duties reporting systems that are interoperable and interconnected for animal health, human health and food-safety surveillance; and provide However, it has been observed that there are low reporting rates in animal and human health sectors which lead to inefficiency in the including the private sector, to achieve $\geq 80\%$ reporting rate; strengthen coordination between all relevant actors and ensure electronic implementation of activities. There is a need to strengthen surveillance and reporting systems for both human and animal health

Obj 1: Strengthen coordination between all relevant actors and ensure electronic repor animal and human health, and build capacity of IHR/OIE focal points to perform their	Strategic Actions
ant actors and ensure electronic reporti HR/OIE focal points to perform their d	Responsible Authority
ng systems are ii uties	Budget (UGX)
ntero	2019
pera	2020
ble f	2021
Or.	2022
	2023

		r both public and private sectors	private sector to achieve >80% reporting rates for both public and private sectors
tention to the	th with a special attention to the		Obj 2: Strengthen surveillance and reporting systems for both human and animal heal
	103,/92,000		supervision (animal health)
	165 700 000	MAAIF, UWA	Support professional bodies to carry out supportive
	101,720,000	INIOII	supervision (human health)
	187 920 000	MoH	Support professional bodies to carry out supportive
			diseases and other public health events
	1,101,900,000	MAAIF, UWA	veterinary practitioners on data collection tools for
			PRIORITY YEAR 1: Train licensed private
			events
	2,121,157,500	MoH	collection tools for diseases and other public health
			Train licensed medical practitioners on data
			(medical and veterinary)
	62,916,875	MoH, MAAIF, UWA, MoWE	workshops in disease reporting and data collection
			PRIORITY YEAR 1: Conduct training of trainer
			(See Zoonotic disease)
			diseases
	18,170,625	OHCO	on One Health strategy to address zoonotic
			(DVO, DHT, Water and Environment, and UWA)
			PRIORITY YEAR 1: Orient the district staff
	321,387,500	MoH, MAAIF	Hold quarterly IDSR/IHR/OIE meetings
			OIE
	300,000		level their obligations of reporting to WHO and
			Train IHR and OIE national focal points at high
			to WHO and OIE
	181,253,328	MAAIF, MoH, UWA, MoWE, OPM	relevant personnel in their obligations of reporting
			Train IHR and OIE national focal points and

		TOTAL 7,281,805,328	TOTAL
	211,920,000	MoH, MAAIF, MoWE, UWA	Update regularly the list of reporting facilities (private and public) into DHIS2
	995,062,500	MOH, MAAIF, MOWE, UWA	at a regional level
			Conduct quarterly surveillance review meetings
			and public veterinary practitioners
	939,600,000	TIPDE	supervision on surveillance reporting for private
		MOH MAAIE MOWE IIWA IIPE	Provide continuous mentorship and supportive
		CIDI	and public medical practitioners
	939,600,000	TIDDE	supervision on surveillance reporting for private
		Adil VIVII AMOM AIVVM HOM	Provide continuous mentorship and supportive
	17,412,500	MOII, MAAII', MOWE, OWA	OIE, and FAO
	17 /12 <00	MOH MANE MOWE IIWA	Develop a national reporting protocol to WHO,
	17,412,500	MoH, MAAIF, MoWE, UWA	Develop an integrated supervisory checklist

4.11 Human Resources / Workforce development

1 arget

of the health system for the effective implementation of the IHR. Human resources (HR) shall include but not limited to nurses and workforce in the animal sector of veterinarians, animal health professionals and para-veterinarians, epidemiologists. scientists/technicians, biostatisticians, information technology (IT) specialists and biomedical technicians. There is a corresponding midwives, physicians, public health and environmental specialists, social scientists, communication, occupational health, laboratory Country has skilled and competent health personnel for sustainable and functional public health surveillance and response at all levels

JEE Scores

D4.1	Human resources available to implement IHR core capacity requirements	3
D4.2	D4.2 FETP or other applied epidemiology training programme in place	4
D4.3	Workforce strategy	3

Current Status

adequate to address the needs of Veterinary Public Health or One Health Platform in general The Field Epidemiology Training Program (FETP) has been supporting capacity building for the last seven years. It does, however, lack the multi-sectoral approach to build IHR capacity. The existing in-service curricula are skewed to the human sector and are not

with personnel that are non-verifiable. There is need to develop the ability to track, map and trace multi-sectoral IHR personnel and respond to PHEs or for surge capacity at national or international levels. Composition of teams is ad hoc, not multi-sectoral, and Although tracking of personnel scores highly in the JEE, Uganda lacks a database that clearly documents personnel to prevent, detect,

requirements for IHR, develop a harmonized certified training curriculum and establish the National Institute of Public Health. respond to PHEs. There is, therefore, a need to evaluate the FETP, map HR for IHR, review progress in achieving the HR Personnel tracking, mapping, and tracing will also further allow for measurement of effectiveness and impact to prevent, detect and

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022	2023
Obj 1: Update multisectoral managers and implementers on IHR knowledge, understanding and core capacities	menters on IHR knowledge, understand	ing and core cap	aciti	ies			
Train IHR focal points in all relevant ministries and competent authorities on their roles and responsibilities	OPM, all relevant ministries	20,412,750					
PRIORITY YEAR 1: Update Senior Line Ministry officials and program managers on IHR	OPM, all relevant ministries	29,090,000					
core capacity		,					
PRIORITY YEAR 1: Update mid-level program	ODM all relevant ministries	USL CS0 SS					
capacity requirements	OFM, an relevant ministres	33,832,730					
Conduct regular multisectoral IHR focal point meetings	OPM, all relevant ministries	14,409,375					
Orient the private sector health, trade and travel partners on IHR reporting	OPM, MOH, MOTA	192,445,000					
Orient the media on IHR reporting requirements and risk communication	OPM, all relevant ministries	384,890,000					
Obj 2: Streamline frontline in-service training programs and institute a comprehensive FETP workforce	ograms and institute a comprehensive F	ETP workforce					
Evaluate ongoing phase 1 integrated District Frontline FETP/EOC operations/eIDSR/IPC One	MOH/ESD, MAAIF, MOD, MWE, MOES, NCHE, UNCST, CDC, UWA,	209,491,140					
Health training curriculum and its impact on	IDI, training institutions						

30,162,760	MoH/OPM, MoWE, MoD, MoTWA, MAAIF	Review and update existing strategic plans for Uganda's workforce development for health security in all relevant sectors, including human, animal, wildlife, environmental, and security workforce
	ing and development for global health	Obj 3: Strengthen multisectoral workforce planning and development for global health
131,445,000	Multi-sectoral TWG (MoH/ESD, MAAIF, MoD, MoWE, MoES, NCHE, UNCST, CDC, OHCEA, IDI, academia)	Conduct annual review to assess progress in achieving milestones in frontline training programs at all levels, including parish and village levels
22,522,070	Multi-sectoral TWG (MoH/ESD, MAAIF, MoD, MoWE, MoES, NCHE, UNCST, CDC, IDI, academia)	PRIORITY YEAR 1: Evaluate impact of integrated Frontline FETP/EOC activation/eIDSR One Health training curriculum on improving Uganda's capacity to prevent, detect, and respond to public health threats and hazards
45,222,500	MoH, MAAIF, Multi-sectoral TWG, NCDC and Academia	PRIORITY YEAR 1: Review integrated Frontline FETP training curriculum and develop national implementation plan in alignment with evaluation and HR mapping exercises, including the healthcare private sector and the community health workers
	Multi-sectoral TWG (MoH/ESD, MAAIF, MoD, MoWE, MoES, NCHE, UNCST, CDC, UWA, OHCEA, IDI, academia)	Map trained human resources through existing professional bodies
		improving Uganda's capacity to prevent, detect, and respond to public health threats and hazards

		TOTAL 1,464,725,845	TOTAL
	93,720,000	MOH, OPM	Advocate for the establishment of a National Institute of Public Health
	91,825,000	МОН	Conduct annual review to assess progress in achieving milestones in frontline training programs
	143,237,500	МОН, ОРМ	Advocate for and support filling identified gaps in the existing strategic plans for Uganda's multisectoral workforce development for health security

4.12 Preparedness

rarget

relevant biological, chemical, radiological and nuclear hazards. This covers mapping of potential hazards, identification and local/primary levels during a public health emergency. maintenance of available resources, including national stockpiles and the capacity to support operations at the intermediate and Development and maintenance of national, intermediate (district) and local/primary level public health emergency response plans for

JEE Scores

Current Status

for any events of public health importance Uganda has a National Policy for Disaster Preparedness and Management (2011) which provides the country's preparedness strategy

Some hazard and contingency plans have also been developed for specific diseases such as Ebola Virus Disease, Red eye Disease, and respond to PHEs and has been conducting regular simulation exercises institutions and mechanisms for training multi-disciplinary field epidemiologists and other frontline staff to prevent, detect and partners. This database is maintained at the PHEOC; however, this could be expanded to be more comprehensive. Uganda has health facilities. A database exists of some experts, national and district rapid response teams, district surveillance coordinators and Avian Influenza. The national District Health Information System (DHIS-2) at the MoH contains an inventory of all public and private

events of public health concern at all levels should be clearly articulated and disseminated and PVS core capacity requirements. It is important that surge capacity plans and procedures to respond to national and international However, the current national multi-hazard emergency preparedness and response plan should be revised and updated to meet IHR

modify/update as needed are implemented / instituted. It is recommended that systems to regularly test the response plan and procedures in actual emergencies or simulation exercises and

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022
Obj 1: Review and update the current national multi-hazard emergency preparedness capacity requirements, according to a risk assessment conducted	ergency preparedness	and response plan to meet IHR core	to m	eet II	HR c	ore
PRIORITY YEAR 1: Draft National Multihazard Public Health Emergency Response and						
Preparedness Plan, including preparedness and response activities, based on existing strategic	MoH, MAAIF, OPM, UWA	181,545,585				
plans with relevant national and subnational						
stakeholders						
Conduct a comprehensive resource mapping for emergency response	MoH, MAAIF, OPM, UWA	112,610,350				
PRIORITY YEAR 1: Develop hazard-specific	MoH, MAAIF, OPM, UWA, MoWE,	358 088 070				
contingency plans and SOPs	MoD, MoFPED	336,366,370				
Conduct biannual assessments (including						
simulations, tabletop exercises, surveys and	MOH MAAIF OPM UWA MOWE					
questionnaires for National, Regional, and District	MOD MofPED	175,260,000				
RRTs) to test preparedness and response						
capabilities for different hazards				_		
Conduct annual support supervision of the	MOH MAAIE IIWA	357 012 000				
contingency plans in 14 health regions	MOII, MAAII, OWA	337,012,000				
Preposition a minimum package of essential	MoH, NMS, NDA, NECOC, WHO-	611 118 021				
supplies for emergency response at regional	CO, UNICEF	011,110,001				

		TOTAL 1,950,922,906	TOTAL
	116,360,000	OPM, NTF	PRIORITY YEAR 1: Assess country readiness to respond to priority hazard emergencies
already done	o the hazard profiles	ng for emergency response, according to	Obj 2: Carry out comprehensive resource mapping for emergency response, according to the hazard profiles already done
	50,010,000	OPM	Establish coordination mechanisms between emergency response partners and OPM
	9,106,250	MOH, MAAIF, UWA, Parliament	Conduct a consultative meeting with relevant stakeholders, including parliamentary committees, to agree on functional mechanisms to mobilize available funding resources for emergency response within 24 hours
			referral hospitals (cholera kits, investigation kits, PPEs, disinfectants, vaccines, specimen carriers, etc.)

4.13 Emergency response operations

1 arget

sectoral rapid response teams, and trained EOC staff capable of activating a coordinated emergency response within 120 minutes of emergency operation centre (PHEOC) functioning according to minimum common standards; maintaining trained, functioning, multithe identification of an emergency. Uganda has a coordination mechanism, incident management systems, exercise management programmes and public health

JEE Scores

3	R2.4 Case management procedures implemented for IHR relevant hazards.	R2.4
4	R2.3 Emergency operations programme	R2.3
4	R2.2 EOC operating procedures and plans	R2.2
4	R2.1 Capacity to activate emergency operations	R2.1

Current Status

sustainability. framework and coordinates with the relevant line ministries. The PHEOC is donor funded and housed in rented space, risking Uganda has an established and staffed Public Health Emergency Operations Centre (PHEOC). The PHEOC has an operational

and SOPs and expand focus to other disease conditions of public health concern. on management of various diseases (both communicable and noncommunicable). There is however need to update these guidelines cases identified and isolated in appropriate facilities. The country also has a Uganda Clinical Guideline, that provides general guidance Uganda has SOPs and guidelines for management of highly contagious pathogens such as VHFs; detailing clinical management of

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022
Obj 1: Strengthen the operational capability of the PHEOC	e PHEOC					
PRIORITY YEAR 1: Conduct consultative					-	_
meetings with relevant stakeholders to establish the National Institute of Public Health, where	МОН	156,447,400				
PHEOC will be housed and incorporated						
PRIORITY YEAR 1: Develop a strategic plan to incorporate PHEOC funding into MOH structures	MoH, Partners	69,265,000				
Identify and obtain a permanent physical space for the EOC	MoH, MoFPED	46,884,375				
Create public awareness about national EOC	MoH	34,400,000				
Establish 14 regional health EOCs, including training of staff	МоН, ЕОС					
Obj 2: Test existing PHEOC business and continuity plans, including all relevant sectors	iity plans, including all relevant sectors					
Develop an exercise program to maintain sustainable capacity and routine exercises/testing	MoH, EOC, Partners	115,578,000				
PRIORITY YEAR 1: Train relevant officials and staff in public health emergency management, IMS, and EOC operations	MoH, Partners	115,041,875				
Conduct a two-day training exercise to test the PHEOC business continuity plan	MoH, PHEOC, AFENET	34,060,500				

			TOTAL 885,932,730	TOTAL
		28,554,250	MoH, PHEOC, MAAIF, Partners	Conduct one-day simulation exercise to validate approved CONOPS
		40,928,105	MoH, PHEOC, Partners	Develop a finalized updated CONOPS for the PHEOC based on existing handbook
			UNBS, Partners	include IHR relevant hazards
		78,356,250	CBRNE, UPF, UPDF, DGAL, NARO,	stakeholders to review and update current SOPs to
			MoH, PHEOC, MAAIF, AEC,	Conduct a five-day meeting with the relevant
			mergency response	CONOPS covering the all hazards approach to emergency response
nd develop a	iples, a	ıultihazard princ	akeholders to adequately address the m	Obj 4: Review PHEOC SOPs with the relevant stakeholders to adequately address the multihazard principles, and develop a
				and national plans.
		100,410,675	MOH, I HEOC, MAXIII, I aluicis	Systematically integrated learnings into trainings
		166 116 275	Mou Dueoc Maaie Bartners	events for which the PHEOC was activated.
				Conduct AARs, including hot washes, for all
				activated
has been	HEOCI	for which the PI	and After-Action Reviews for all events	Obj 3: Plan for and conduct Hot Wash exercises and After-Action Reviews for all events for which the PHEOC has been

4.14 Linking public health and security authorities

larget

such as to investigate alleged use events the capacity to link public health and law enforcement, and to provide and/or request effective and timely international assistance Country conducts a rapid, multisectoral response in case of a biological event of suspected or confirmed deliberate origin, including

JEE Scores

NJ.1	D3 1
confirmed biological event	Public health and security authorities (e.g. law enforcement, border control, customs) are linked during a suspect or
7	J

Current Status

and Counterterrorism at the border. The MOH, MAAIF and security authorities to participant in joint activities aimed at improving on identification and control of potential biological events or other public health events that may be intentional through Intelligence preparedness and response. There are also public health experts involved in emergency response linked to the Biological and Toxins INTERPOL National Central Bureau (NCB) for Uganda. Weapons Convention (BTWC). Internationally, the country is connected to the INTERPOL through the Ministry of Internal Affairs Uganda has a draft general guidance on detaining/quarantining an individual who presents a public health risk. there is also guidance

to information sharing and joint investigations/responses. There is also a need to finalise and formalise joint response activities between Public Health and Security Authorities. between the sectors through MoU's, SOPs and a coordination platform for responsible ministries. There are no regular reports There has been limited joint capacity building amongst the sectors on management of public health emergencies, particularly in regard

sectoral mechanisms to deal with the various CBRNE incidents More efforts and commitment should be invested in finalizing and approving the draft MoU to provide a strong focus on multi-

					-	-	
Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022	2023
Obj 1: To improve collaboration and coordination between security authorities and public heal	n between security authorities and publi	c health authorities	ties				
PRIORITY YEAR 1: Develop and adopt a multisectoral LE/PH emergencies response plan for ioint investigations national Chemical		77 0 570					
for joint investigations national Chemical, Biological, Radiological, Nuclear and Explosives events	MOS	44,729,570					
Set up a multi-agency joint operational LE/PH coordination centre for CBRNE	MOS	352,293,577					
PRIORITY YEAR 1: Develop a multisectoral LE/PH joint CRBNE emergency investigation and response curriculum	MOS	46,111,380					
Conduct a joint training for LE and PH personnel in joint CBRNE investigations and response	MOS	44,710,000					
Develop multisectoral SOPs and response protocols for joint investigations for National CBRNE incidents	MOS	83,985,000					
Conduct a functional Simex to validate the coordination of SOPs and response protocols	MOS	496,260,000					
Set up a CBRNE emergency facility with deployable mobile rapid response capability	MOS	10,000,000,00					
TOTAL	11,068,089,527						

4.15 Medical countermeasures and personnel deployment

1 arget

international partners during public health emergencies; and procedures for case management of events due to IHR relevant hazards. National framework for transferring (sending and receiving) medical countermeasures, and public health and medical personnel from

JEE Scores

rgency

Current Status

processes ensured through the PHEOC and the NECOC. However, national MCM and NRRT plan have to be urgently developed to guide these MCM is funded through the NMS and the OPM. Personnel deployment is coordinated at ministerial level. Stockpiling of supplies is National guidelines to address quality assurance from international providers of MCM have been developed. A national budget for

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022	2023
Obj 1: To strengthen National multi sectoral framework for implementing MCMs for	nework for implementing MCMs for PHEs	Œs					
Conduct a workshop to assess the risks, document							
MCM needs, and develop and MCM plan and	MAAIF/OHCO	80,717,070					
SOPs for the animal sector							
PRIORITY YEAR 1: Conduct a national risk	OPM, MoH	69,274,140					

	7,106,250	MoH, NECOC/PHEOC - OHCO	Obtain approval of and policy from NTF and relevant stakeholders
	44,060,000	MoH, NECOC/PHEOC - OHCO	Validate draft MCM policy, plan and SOPs
	81,856,210	МоН, NECOC/PHEOC - OHCO	Develop national personnel deployment guidelines and operational plan, including SOPs and training needs for both domestic and international deployment
mergencies	during public health emergencies	nding and receiving health personnel du	Obj 2: Establish an integrated framework for sending and receiving health personnel
	44,764,570	OHCO, MAAIF	Develop operational manuals and emergency procurement plans for MCM for animal health
	-	МоН, MAAIF, OPM	PRIORITY YEAR 1: Conduct two advocacy meetings with the relevant parliamentary committees to expedite availability of contingency fund
	7,106,250	MoH, MAAIF, OPM, Partners	Approve final draft of MCM plan and SOPs
	25,450,000	MoH, MAAIF, OPM, UPDF	Conduct a tabletop exercise to validate updated SOPs and MCM plans for both human and animal health
	143,810,000	МоН, MAAIF, OPM	PRIORITY YEAR 1: Review and finalize the updated draft MCM plan and develop relevant SOPs including a One Health stock of relevant MCM and incorporate findings from animal health MCM workshop
	36,208,320	MoH, MAAIF, OPM	assessment of public health threats Develop and exercise a policy for sending and receiving MCM in a public health emergency

		TOTAL 14,671,014,464	TOTAL
	0	MoH, NECOC/PHEOC - OHCO	emergencies
	14,000,000,00		Preposition emergency supplies for response to
	14,750,004	MOII, NECOC/LIEGO - OIICO	implementation of a TTX
	14 026 664	May NECOC/BHEOC OUCO	Test operational plan through the development and
	33,000,000	MOIT, NECOCITIEOC - OTICO	operational plan, including SOPs, nationally
	35 000 000	Man NECOC/BREOC ORCO	Distribute final Personnel Deployment Policy and
	00,720,000	MOH, INECOC FIECOC - Offico	of relevant ministries
	000 225 08	NOH O SHEOC - OHOO	Launch approved policy by senior top management

4.16 Risk communication

larget

engagement strategies, such as media and social media communications, mass awareness campaigns, health promotion, social mitigate the effects of threats, and protective and preventative action can be made. This includes a mix of communication and exchange of information, advice and opinions during unusual and unexpected events and emergencies so that informed decisions to States Parties use multilevel, multi-sectoral and multifaceted risk communication capacity for public health emergencies. Real-time mobilization, stakeholder engagement and community engagement.

JEE Scores

Current Status

strengthen inter-partner risk communication should be strengthened with more government commitment to support risk communication National risk communication plans have been developed and personnel to support risk communication exist at the MOH. Efforts to

are shared communication plans, agreements and/or SOPs between response agencies. Additionally, training is provided In Uganda, permanent and surge staff who are dedicated to risk communication during emergencies are in place. There

using local languages. All communication materials are pre-tested by the Behavioural Change Committee (BCC) before clearance of messages to the public. Multi-sectoral collaboration for risk communication is present and active within the to the risk communications personnel for response to all health hazards. There exists an internal arrangement for the being printed and approved for use in the field. key risk communication messages. Risk communication during emergencies and outbreaks is availed to the communities NTF. Collaborative arrangements are in place with public and private media which guarantees access for the delivery of

coordination of risk communication between all relevant partners. There is lack of planned risk communication training for national and sub-national levels as well as with media houses (radios, TV, print, etc) and risk communication partners responders prior to emergencies. There is need to conduct risk communication training and simulation exercises at In Uganda, risk communication coordination between all relevant partners is weak. There is need to strengthen (Red Cross, UNICEF), so as to develop a consistent approach across the country.

studies to assess the impact of risk communication activities and feedback to the community. communication messages and feedback to the public has never been assessed. There is need to design evaluation fund risk communication messages to the public during emergencies, in support with partners. Lastly, the impact of risk Additionally, risk communication messages to public are largely donor sponsored. There is urgent need for Government to

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022	2023
Obj 1: Develop a national multi-sectoral risk communications strategy and train risk	_	communication personnel to respond	sonn	el to	resp	ond	
effectively during emergencies							
Develop a sustainable funding mechanism for Risk							
Communications using relevant government sector MoH, MAAIF, OHCC	MoH, MAAIF, OHCO	132,843,750					
resources							
PRIORITY YEAR 1: Mobilize relevant sectors	MoH, MAAIF, OHCO	4,026,640,000					

	23,511,000	MoH/MAAIF	Conduct training of sub-county leaders and social mobilizers on community engagement
	tion	nmunities for effective risk communicat	Obj 4: Strengthen feedback mechanisms with communities for effective risk communication
	574,062,750	MoH, MAAIF, OHCO	PRIORITY YEAR 1: Conduct trainings for risk communicators in human and animal health at national and district level
	54,504,140	MoH, MAAIF, OHCO	PRIORITY YEAR 1: Conduct assessments of risk communicators in human and animal health at national and subnational level
	142,701,932	MoH, MAAIF, OHCO	Strengthen risk communication programming
	the emergency		Obj 3: Train and orient all designated spokespersons in risk communications prior to
	693,367,500	MoH, MAAIF, OHCO	Establish and operationalize a national coordination platform that brings together all risk communication stakeholders, including private sector
	32,123,125	MoH, MAAIF	Develop SOPs for coordination of partners
tion stakeholders, including private	on stakeholders, i	1 that coordinates all risk communicatio	Obj 2: Establish a national coordination platform that coordinates all risk communica sector
	2,044,699,375	MoH, MAAIF	Train risk communication personnel to respond effectively during emergencies
	199,294,140	MoH, MAAIF, OHCO	Develop a national multisectoral risk communication strategy and a costed plan
			to support risk communication activities in their budgets (national and subnational levels)

	TOTAL 10,589,643,004	TOTAL
720,694,375	MoH, MAAIF	Develop IEC materials
193,810,924	MoH, MAAIF, Pharmaceutical Society, UMC, AHPC	Develop AMR communication and advocacy strategy
	igns	Obj 6: Conduct AMR awareness creation campaigns
22,826,725	MoH, MAAIF, OHCO	Conduct periodic KAPB studies on perceptions, risky behaviour, and misinformation among the communities
37,002,760	MoH, MAAIF, OHCO	Conduct evaluation campaigns periodically to assess effectiveness of risk communication channels
222,387,383	MoH, MAAIF, OHCO	Strengthen the functionality of the call centres in MOH and MAAIF
nels used every year	fectiveness of risk communication chan	Obj 5: Conduct evaluation campaigns to assess effectiveness of risk communication channels used every year
1,469,173,125	To be determined	Strengthen feedback mechanisms with communities for effective risk communication

4.17 Points of Entry

largets

public health measures required to manage a variety of public health risks. The country designates and maintains core capacities at international airports, ports and ground crossings that implement specific

JEE scores

PE.1	Routine capacities established at points of entry	1
PE.2	Effective public health response at points of entry	1

Current Status

no POE is designated with respect to the IHR guidelines There is no central coordination and monitoring office in place for the delivery of public health services at points of entry. In addition,

spread of outbreak prone diseases to and from neighbouring countries. points (October 2016) concluded that core capacities for implementation of IHR at the ground crossing points were below the and immigration management. An assessment by WHO and MOH of IHR core capacities and implementation at nine ground crossing refugees crossing the border into Uganda has remained high and the border particularly with DRC is porous. This increases the risk of requirements for compliance and that effective public health response at the points of entry was lacking. In addition, the daily influx of and animals are weak. The majority of PoEs have no detection and response capabilities, especially those undesignated for revenue The few PoEs that have public health hazards detection & response capacities (facilities & skilled human resources) for both humans

International Airport also has access to equipment and personnel to examine and transport ill travellers to relevant medical facilities. Entebbe International Airport screens all travellers through inspections of yellow fever vaccination papers and a thermal scanner. The

					3,252,244,500	TYLOL
				2,378,814,375	MAAIF, MOH	Increase animal health workforce at the POEs to carry out One Health IHR related activities
				581,459,000	MOH, MAAIF	PRIORITY YEAR 1: Operationalize the detection and response plans to human and animal public health hazards at POEs with respect to IHR guidelines
				88,322,625	MOH, MAAIF, MIA, MOS, MTIC	PRIORITY YEAR 1: Develop a contingency plan for detection and response to human and animal public health hazards at POEs with respect to IHR guidelines
	he	d to t	linke	response that are linked to the	s for detection and	Obj 2: Develop a POE public health emergencies plan and capacities for detection and regional and national public health emergencies plan and capacities
				4,996,125	MOH, MAAIF	Establish a multisectoral coordination centre for monitoring POE, according to IHR standards
				198,652,375	MOH, MAAIF, MIA, MOS	PRIORITY YEAR 1: Designate Points of Entry and implement IHR core capacities at each of them
rds	hazaı	ealth	olic h	nse to potential public health hazards	re capacities for detection and response	Obj 1: Designate all POEs and implement IHR core capacities for detection and respon
2023	2021	2020	2019	Budget (UGX)	Responsible Authority	Strategic Actions

4.18 Chemical Events

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collaboration among the sectors responsible for chemical safety, industries, transportation and safe disposal, animal health and the environment. States Parties with surveillance and response capacity for chemical risks or events. This requires effective communication and

JEE Scores

Current Status

clearing house in National Environment Management Authority (NEMA) on chemical management information exchange coordinating agency for multilateral environment agreements (MEAs) is Ministry of Water and Environment, which has established a Uganda's national coordinating body for chemical safety is the Department of Occupational Safety and Health at MoGLSD. The

exercises of relevant agencies. No institution has the mandate on all toxic industrial chemicals. Other recommended interventions include establishing a framework for licensing, building capacity for the management of hazardous chemicals, and enhancing Existing gaps include absence of a national multisectoral chemical response action plan, which should incorporate the training and laboratory capacity for detection of chemical threats.

response to chemical events, according to IHR (2005)	Obj 1: Build effective and lasting national chemical safety and chemical security mana	Strategic Actions
005)	cal safety and chemical security manage	Responsible Authority
	ment capabiliti	Budget (UGX)
	es for	2019
	dete	2020
	ection	2021
	n an	2022
	d	2023

Perform risk assessment, map resources, and develop National Chemical safety and security Plan Develop an inventory of the chemical stocks within the country within the country but in the country plan (Safety and Security Plan) Develop a multisectoral chemical emergency response plan (subset of the National Chemical Safety and Security Plan) Develop a multisectoral chemical emergency plan (Subset of the National Chemical Safety and Security Plan) NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, voludate and operationalize the above plans Safety and Security Plan) NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, MOWE/NEMA NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, MOWE/NEMA NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, MOWE/NEMA, UNBS, MAAIF, WHO, MoWE/NEMA, UNBS, MAAIF, WHO, MoWE/NEMA, UNBS, MAAIF, WHO, MoWE/NEMA, UNBS, MAAIF, WHO, MoWE/NEMA, WGLSD, MOWE/NEMA, WGLSD, MOWE/NEMA, WGLSD, MOWE/NEMA, WGLSD, MOWE/NEMA, WGLSD, MOWE/NEMA, WGLSD, MAAIF, WHO, MoWE/NEMA, WGLSD, MOWE/NEMA, WGLSD, MAAIF, WHO, MoWE/NEMA, WGLSD/MAAIF, WGLSD/MAAI	1.79.709.00		
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA OPM/NECOC NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, WHO, MoWE/NEMA, UNBS, MTIC gh MoH, MoWE/NEMA, MGLSD, MAAIF Operationalize the National Poison Centre DGAL & Police CBRN Unit, NECOC DGAL & Police CBRN Unit, MOH, e MAAIF, UNBS, NEMA DGAL & Police CBRN Unit, MOH, BOGAL & Police CBRN Unit, MOH, DGAL & Police CBRN Unit, MOH, DGAL & Police CBRN Unit, UNBS	249 795 750	DGAL & Police CBRN Unit, UNBS	Train chemical lab staff on analytical chemistry
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA OPM/NECOC NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, WHO, MoWE/NEMA MoGLSD, MoWE/NEMA, UNBS, MTIC gh MoH, MoWE/NEMA, MGLSD, MAAIF operationalize the National Poison Centre DGAL & Police CBRN Unit, NECOC DGAL & Police CBRN Unit, MOH, MAAIF, UNBS, NEMA		DGAL & Police CBRN Unit, UNBS	Upgrade select chemical labs according to IHR standards
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA OPM/NECOC NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, WHO, MoWE/NEMA MoGLSD, MoWE/NEMA, UNBS, MTIC gh MoH, MoWE/NEMA, MGLSD, MAAIF DGAL & Police CBRN Unit, NECOC DGAL & Police CBRN Unit	4,830,000	' Z	Assess select chemical labs with handling capacity for chemical events and IHR (2005) compliance
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA OPM/NECOC NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, WHO, MoWE/NEMA, UNBS, MTIC gh MoH, MoWE/NEMA, MGLSD, MAAIF DGAL & Police CBRN Unit, NECOC	270,109,375	DGAL & Police CBRN Unit	Create awareness of, and link government and private health facilities to, National Poison Centre
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA OPM/NECOC NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, WHO, MoWE/NEMA MoGLSD, MoWE/NEMA, UNBS, MTIC gh MoH, MoWE/NEMA, MGLSD, MAAIF	2,017,412,500	DGAL & Police CBRN Unit, NECOC	Establish national focal points for sharing information regarding chemical events
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA OPM/NECOC NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, WHO, MoWE/NEMA MoGLSD, MoWE/NEMA, UNBS, MTIC gh MoH, MoWE/NEMA, MGLSD, MAAIF		ationalize the National Poison Centre	Obj 2: Establish a National Focal Point and opera
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA OPM/NECOC NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, WHO, MoWE/NEMA MoGLSD, MoWE/NEMA, UNBS, MTIC	400,803,710	MoH, MoWE/NEMA, MGLSD, MAAIF	Train health and relevant sector personnel in high risk districts on investigation and response to chemical events
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA OPM/NECOC NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, WHO, MoWE/NEMA	325,473,750	MoGLSD, MoWE/NEMA, UNBS, MTIC	Perform audits of 10% of selected chemical factories nationally each year
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA OPM/NECOC	101,630,315	NECOC, MoGLSD/Dept of Occupational Health, MOD, DGAL, MAAIF, WHO, MoWE/NEMA	Conduct joint functional and operational exercises to validate and operationalize the above plans
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA	112,184,949	OPM/NECOC	Develop a multisectoral chemical emergency response plan (subset of the National Chemical Safety and Security Plan)
MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS	74,484,011	حلب `	Develop an inventory of the chemical stocks within the country
	475,561,074	MoD (NBC Regiment), DGAL MoWE, NEMA, UNBS	Perform risk assessment, map resources, and develop National Chemical safety and security plan

	TOTAL 4,191,108,684	TOTAL
		CBRNE legal framework
158,823,250	DGAL, Police CBRNE Unit	recommendations for strengthening the Uganda
		Adapt the EU CBRNE risk mitigation

4.19 Radiation emergencies

Larget

effective coordination among all sectors involved in radiation emergencies preparedness and response States Parties should have surveillance and response capacity for radiological emergencies and nuclear accidents. This requires

JEE Scores

Current Status

Ministry of Energy and Mineral Development in a draft national nuclear security plan (2012) with both preventive and response and Mineral Development, UPDF, UPF, Atomic Energy Council, and NEMA) is in place to respond to radiation emergencies attributes and guidelines. In addition, the national Multi-Sectoral Radiation Emergencies Committee (including the Ministry of Energy Atomic Energy (Nuclear Security) Regulations (2016) to improve the security of radioactive sources. The AEC was created under the Uganda developed the Atomic Energy Act (2008) to mandate the Atomic Energy Council (AEC) and Atomic Energy Regulation Draft

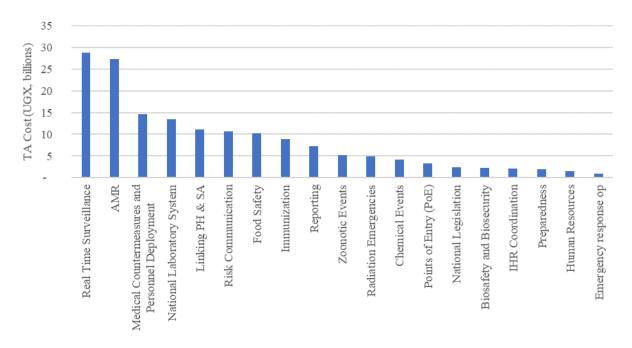
Uganda has not ratified and is not the signatory to the Convention on Early Notification of a Nuclear Accident. Management of finalize the CBRNE policy, NNRERP and SOPs and human resource development for the management of radiation emergencies radiological emergencies is underdeveloped. There is need to ratify the Convention on Early Notification of a Nuclear Accident

			810,543,842	Ministry of Energy (AEC), MOH, OPM	PRIORITY YEAR 1: Identify health facilities at the national and high-risk districts, and train and equip staff to manage radiation emergencies
gencies	ther a	ith of	well-coordinated with other agencies	centres that are	Obj 2: Create national radiation emergencies detection and response centres that are capable of generating a timely radiation emergencies situation report
			91,391,250	Ministry of Energy (AEC), MOH, UPF, CBRNE/UPDF, Ministry of Information, OPM-NECOC, URCS, MAAIF, UNBS, MOGLSD, NEMA, DGAL	PRIORITY YEAR 1: Establish a function MOU and efficient information sharing and management of radiation emergencies among all stakeholders
			2,000,000	Ministry of Energy (AEC), OPM, Ministry of Foreign Affairs	Address gaps in infrastructure and equipment availability for radiological detection and response
			197,838,625	Ministry of Energy (AEC), MOH, MAAIF, UNCST, MCHE, MOES, UPF, UPDF, CBRNE, MOWE/NEMA	Incorporate nuclear and radiological emergencies into the national training and exercise program under "One Health" approach
			259,187,500	Ministry of Energy (AEC), Ministry of Foreign Affairs	PRIORITY YEAR 1: Sign the Convention on early notification of a nuclear accident and Convention on assistance in case of radiological or nuclear emergencies
			336,750,780	Ministry of Energy (AEC), MOGLSD	Finalize the draft CBRNE policy, NNRERP and SOPs for detection, response and training of personnel for radiation emergencies
	on	diati	and response to radiation	_	Obj 1: Build national nuclear safety and security capacities in preparedness, detection emergencies
2021 2022 2023	2020	2019	Budget (UGX)	Responsible Authority	Strategic Actions

	TOTAL 4,937,711,997	TOTAL
		nuclear emergencies
3,240,000,000	Ministry of Energy (AEC), UNBS	used in detection and response to radiological and Ministry of Energy (AEC), UNBS
		Develop a calibration laboratory for the equipment

Summary of cost analysis

The total estimated cost of the Ugandan NAPHS is UGX 160,708,941,019 (\$42,571,905 USD), covering all 19 technical areas in prevent, detect and response to public health events between 2019 - 2023.



The major cost drivers of the NAPHS include 1) real-time surveillance, 2) AMR, 3) Medical countermeasures, and 4) the national laboratory system.

Technical area	Major initiatives (2019 – 2023)
Surveillance	Conduct trainings for district and national level health workers from animal and human health on the newly established integrated real-time surveillance system 4,494,062,500 UGX (\$1,190,480 USD)
AMR	Strengthen the national laboratory capacities to store and manage AMR pathogens and maintain a national biorepository of isolates 5,352,132,000 UGX (\$1,417,783 USD)

Preposition emergency supplies for response to enforce an integrated

Medical framework for sending and receiving health personnel during human,
animal, and environmental public health events

14,000,000,000 UGX (\$3,708,609 USD)

National laboratory Referral and Transport Network, in order to effectively implement a One Health system

\$3,628,000,000 UGX (\$961,059 USD)

4. Implementation of NAPHS

5.1 Governance of the NAPHS

In its implementation, NAPHS shall use a multi-stakeholder, One Health approach. An implementation plan will be conducted each year for all pertinent stakeholders and ministries to understand key actions that will be needed to be prioritized. The NAPHS activities costing will be integrated into the pertinent ministries request for budget every year, and additional resources mobilized from within government and partners.

The National IHR focal point housed in the MoH, and the OIE country delegate based in MAAIF, will be informed of all progress made in attainment of IHR competences. Oversight and monitoring will be a function of the Office of the Prime Minister while the chair of the OH TWG will provide technical leadership to implementation. (Refer to figure 2)

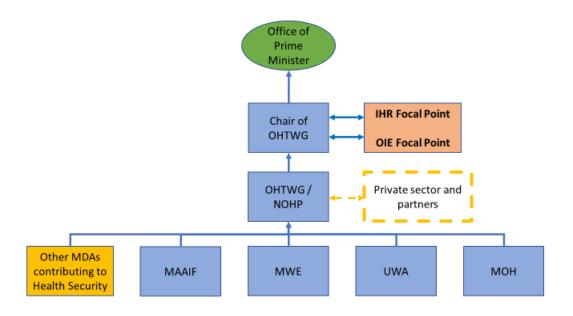


Figure 4: Organogram for NAPHS implementation

Office of the Prime Minister

OPM will lead on coordination, accountability and reporting in line with the Joint sector reviews.

National Action Plan for Health Security 2019 - 2023

Technical working group

A national steering committee comprising of representation from the pertinent NAPHS sectors will also support the coordinating activities of the OPM. The committee will have designated focal points from line ministries, departments, agencies, academia, UN agencies and private sector for each NAPHS technical area. The committee will be chaired by the chair of the OH TWG and work in collaboration with the National One Health Platform to strengthen its activities

5.2 Monitoring and Evaluation strategy

The purpose of the M&E strategy is to support the Government of the Republic of Uganda (GOU) to fully comply with the IHR (2005) by monitoring progress of activities for the 19 Technical Areas within the NAPHS. These activities have been identified as important contributors to increasing the country's JEE health security capacity scores.

The monitoring process will be coordinated by the OPM in collaboration with the IHR NFP and the chair of the OH TWG.

This M&E strategy is aligned with the global IHR M&E Framework and incorporates supporting documents such as the WHO Benchmarks¹, the IHR Self-Assessment Annual Reporting (SPAR)² Tool, as well as data from After Action Reports (AARs) and Simulation Exercises (Simex).



: IHR (2005) Monitoring & Evaluation framework https://apps.who.int/iris/bitstream/handle/10665/276651/WHO-WHE-CPI-2018.51-eng.pdf?sequence=1

National Action Plan for Health Security 2019 - 2023

¹ https://www.who.int/ihr/publications/9789241515429/en/

² https://extranet.who.int/sph/news/ihr-self-assessment-annual-reporting-tool-spar-2018

Monitoring and Evaluation plan

The strategy will follow 3 prongs:

- 1. Monitoring Implementation of the NAPHS
- a. <u>Creation on Technical Area focal teams</u>: To promote a sense of ownership of the NAPHS implementation process by NAPHS stakeholders, create continuity in the reporting, and contribute to a national-level M&E strategy, a Focal Person (FP) for each Technical Area will be identified within the respective ministries.
- b. <u>Self-reporting by stakeholders</u>: A self-reporting monitoring tool will be used through a collaborative process to incorporate NAPHS stakeholder input and Technical area FPs on NAPHS activities. This will facilitate the tracking process for NAPHS activities by providing data on key variables (e.g. progress, funding updates and challenges) that are essential to successful implementation.
- c. <u>Technical Area Review Meeting:</u> Regularly scheduled one-on-one meetings will be held between monitoring team and each line ministry or implementing partner to discuss the Technical Areas that the ministry/implementing partner is contributing to. The Monitoring team will work with the FP in the respective ministries to convene representatives for each Technical Area from that ministry for these monitoring meetings.

Within the technical monitoring meetings, monitoring data will drive discussion on NAPHS activity implementation. Identification of successes, bottlenecks or gaps, and areas for improvement will also be discussed to inform subsequent activity planning within the Technical Areas. This strategy will strengthen partnership engagement and improve the quality of subsequent reporting. This approach will also be used to identify and utilise other reporting channels in use by the different NAPHS stakeholders.

- 2. Identifying & Realigning Priority Activities
- a. <u>Mid-year review meetings:</u> This will be a one-day review engagement conducted mid-year following the calendar year attended by representatives from all the line ministries (including FPs), implementing partners, and other key stakeholders. The purpose for this meeting is to share progress, challenges and status updates on NAPHS implementation and discuss the planned activities. Best practices will be documented and shared with partners, which will increase awareness among NAPHS stakeholders about progress towards the JEE recommendations and strengthen cross-sectoral collaboration.
- b. <u>Annual review meetings:</u> This will be a two-day review meeting building upon results from the mid-year review process and other progress updates. Documents such as the WHO Benchmarks and SPAR, along with results from Simex and AARs will be used to guide this process. Suggested participants at this review will include; technical persons,

managers, commissioners, administrators, ministers, leadership representation from other implementing partners and representation from the development partners. Recommendations at this forum will facilitate selection and prioritization of activities for the following year to inform subsequent planning for NAPHS implementation.

- 3. Documentation and Disseminating of Results
- a. <u>Monthly progress reports</u>: The monitoring team will provide progress reports implementation and updates to Monitoring and Evaluation (M&E) for NAPHS. These reports will be shared with 1) Ministries and the Prime Minister; 2) Other Uganda-based organizations; 3) Development partners (i.e. CDC, WHO, RTSL)
- b. <u>Quarterly Newsletter</u>: This will be written to provide brief updates about the NAPHS implementation process to stakeholders. The Newsletter will be circulated through email to line ministries, sectors, and other partners supporting NAPHS implementation.
- c. <u>Publications and Conferences</u>: As appropriate, the monitoring team will work with key stakeholders to develop and share publications with the wider community (nationally and globally) that communicate Uganda's progress with NAPHS implementation. These may include original scientific publications, contribution to bulletins and conference papers. Such publications will include but are not limited to innovations, successes, lessons learnt, best practices, and progressive status on the JEE recommendations in alignment with the IHR 2005.
- d. <u>MDA Quarterly review meetings</u>: The monitoring team participate in ministry quarterly review meetings.

1. ANNEXES

Annex 1: Attendance List for members contributing to the NAPHS develoment

NAME	INSTITUTIN
Ben Masiira	AFENET
Hasifa Bukirwa	AFENET
Herbert Kazoora	AFENET
Nulu Bulya	AFENET
Olivia Namusisi	AFENET
John Nuwagaba	Airport Medical services
Birungi Joshua	Atomic Council
Thomson Okello	CAA
Bao-Ping Zhu	CDC
Daniel Stowell	CDC
Dr. Jaco Homsy	CDC
Dr. Joseph Ojwang	CDC
Juliet Kasule	CDC
Lisa Nelson	CDC
Patricia Tanifum	CDC
Steven Balinandi	CDC
Thomas Nsibambi	CDC
Vance Brown	CDC
Patrick Banura	CHAI
Maureen Kyomuhendo	Coca Cola
Kabasa David	COVAB
Julius Okuni	COVAB
Denis K. Byarugaba	COVAB
Samuel Majalija	COVAB
David J. Kabasa	COVAB
Moses Joloba	CWRU
Ngonde Wilberforce	DCIC
Opolot Okaasai	Dept. Crop Resources
Andrew Ockenden	DFID
E. Burnett	DFID
Gema Redondo	DFID
Ms. Ritah Nakigudde	DFID
Robinah Lukwago	DFID

Kepher Kateu	DGAL
Rhoda Nauda	DGAL
Denis Kyabaggu	EAPHLNP
Namungo Patience B	Energy and Mineral
John Steven Okech	European Union
Chrisostom Ayebazibwe	FAO
Mubiru Sarah	FAO
Sam Okuthe	FAO
Susan Ndyanabo	FAO
Edith Nantongo	FH1360
Eric Kakoole	GAVI
Vicent Mujune	GOAL
Christine Mwebesa	Health Service Commission (HSC)
Dr. Pius Okong	Health Service Commission (HSC)
Ddungu S	HSC
Immaculate Nakibuuka	ICRC
Francis Kakooza	IDI
Judith Nanyondo	IDI
Justine Bukirwa	IDI
Kenneth Mulindwa	IDI
Lydia Nakiire	IDI
Mohammed Lamorde	IDI
Peter Babigumira	IDI
Peter Mukiibi	IDI
Richard Walwema	IDI
Rogers Kisame	IDI
Solome Nantumbwe Mutumba	IDI
Joaniter Nankabirwa	IDRC
SimonPeter Mundeyi	Immigration
Victoria Kajja	IOM
Bildard Baguma	JMS
Acyeles Omodi	KCCA
Daniel Okello Ayen	KCCA
Emilian Ahimbisibwe	KCCA
Isaiah Chebrot	KCCA
Serukka David	KCCA
Alex Bambona	MAAIF

Carolyn Namatovu	MAAIF
Alfred Wejuli	MAAIF
Beatrice Nannozi Kasirye	MAAIF
Ben Senkeera	MAAIF
Bosco Okuyo	MAAIF
Dan Tumusiime	MAAIF
Emmanuel Isingoma	MAAIF
Fred Monje	MAAIF
Gloria Tamale	MAAIF
Juliet Ssentumbwe	MAAIF
Martin Kasirye	MAAIF
Merabu Acham	MAAIF
Michael Kimaanga	MAAIF
Micheal Omodo	MAAIF
Moses Mwanja	MAAIF
Paul Lumu	MAAIF
Robert Mwebe	MAAIF
Sam Richards Erechu	MAAIF
Thecphilus Mwesige	MAAIF
Deo Ndumu	MAAIF
Doris Kiconco	MAAIF
Jolly Hoona	MAAIF
Rose Ademun	MAAIF
John Okiror	MAAIF
Kyokwijuka Benon	MAAIF
Noeline Nantima	MAAIF
Ejobi Francis	Mak.VET College
Bosco Oruru	MakSPH
Steven Ssendagire	MakSPH
Sowedi Muyingo	MAUL
Moses Mwesigwa	Min Gender Labour social Developmen
Mr. Alex Asiimwe	Min Gender Labour social Developmen
Joaniter Nakacwa	Min Justice and constitutional Affairs
Sarah Mitanda	Min Justice and constitutional Affairs
Susan Odongo	Min Justice and constitutional Affairs
Arthur Ibaale	Min of Internal Affairs
Robert Kibuuka	Min Science and Technology

Juliet Kyokuhaire	Min. Finance Planning and Economic Deve
Faye Bagamuhunda	Min. of security
Dinnah Apeduno	Min. Trade and Industry
Peter Odong	Min. Trade and Industry
Mrs. Doreen Katusiime	Minister of Tourism Wildlife and Antiquition
Prof. Ephraim Kamuntu	Minister of Tourism Wildlife and Antiquition
Boniface Amalla	МоН
Bernard Lubwama	МоН
David Mutegeki	МоН
Judith Ssemasaazi Amutuhaire	МоН
Alfred Driwale	МоН
Allan Muruta	МоН
Anne Nakinsige	МоН
Bernard Opar	МоН
Charles Olaro	МоН
Diana Atwine	МоН
Eldard Mabumba	МоН
Emmanuel Othieno	МоН
George Upenytho	МоН
Henry Mwebesa	МоН
Immaculate Ampeire	МоН
Jackson Amone	МоН
Jane Ruth Aceng	МоН
JB Waniaye	МоН
Johnbaptist Waniare	МоН
Joseph Okware	МоН
Okiror Stephen	МоН
Patrick Tusiime	МоН
Peter Okwero	МоН
Sarah Byakika	МоН
Susan Nabadda	МоН
David Muwanguzi	МоН
Emma Sam Arinaitwe	МоН
Emmanuel Ainebyoona	МоН
Fred Sebisubi	МоН
Harriet Miriam Atim	МоН
Harriet Akello	МоН

Harriet Mayinja	МоН
Hilda Barbara Wesonga	МоН
Hon. Moriku Kaducu	МоН
Joyce Mutesi	МоН
Jude Okiria	МоН
Julian Kyomuhangi	МоН
Kiiza Peter	МоН
Michael Kibuule	МоН
Mugisha James	МоН
Mukooyo Edward	МоН
Nabakooza Jane	МоН
Namugga Judith	МоН
Nguna Joyce	МоН
Nsungwa Jesca	МоН
Rebecca Akinzirwe	МоН
Richard Kabagambe	МоН
Richard Kabanda	МоН
Richard Okwir	МоН
Ronald Ssegawa Gyagenda	МоН
Safari Specioza Katusiime	МоН
Sam Nalwala	МоН
Sam Olumu	МоН
Scovia Ajidiru	МоН
Seru Morris	МоН
Stephen Akena Abwoye	МоН
Tabley Bakyaita	МоН
Usamah Kaggwa	МоН
Vivian Sserwanja Nakaliika	МоН
Walimbwa Ali	МоН
Paul Mbaka	WHO
Charles Isabirye	МоН
Celestin Bakanda	MoH/IDI
Doreen Gonahasa	PHFP/MOH
Herbert Bakiika	MoH/IDI
Immaculate Nabukenya	MoH/IDI
Johnbaptist Kibanga	MoH/IDI
Solome Okware	MoH/IDI

Pamela Zanika	MOH/UNEPI
Natukunda Passy Patricia	MOH-ACP-HTS
Maxwell Onapa Otim	MoSTI
Reuben Kiggundu	MTaPs
Peter Ourah	MTIC
Kajumbula Henry	MUCHS
Dr. Henry Kajumbula	Mulago NRH, Microbiology Dept
Derrick Mimbe	MUWRP
Jocelyn Kiconco	MUWRP
Aaron Kibirizi	MWE
Alfred Okot Okidi	MWE
Betty Mbolanyi	MWE
Collins Oloya	MWE
Dadinoh Ndibarema	MWE
Eng. Dominic Kavutse	MWE
Eng. Richard Cong	MWE
Etimu Simon S. E	MWE
Florence Adong	MWE
Gilbert Ituuka	MWE
Julia Kamala	MWE
Julius Mafumbo	MWE
Kamala Julia	MWE
Lillian Idrakua	MWE
Martha Naigaga	MWE
Mr. Watson Wakooli	MWE
Obubu J. Peter	MWE
Peter J. Obubu	MWE
Silvestre Gwanyi Herbert	MWE
Simon S. E. Etimu	MWE
Stephen David Mugabi	MWE
Joseph Mbihaye	NARO
Margaret Masette	NARO
Richard Ssewakiryanga	National NGO Forum
Juliet Awori Okecho	NDA
Paul Okware	NMS
Mary Akumu	NTRL
Alex Gisagara	NWSC

Dr. Irene Naigaga	OHCEA
Pamela Komujuni	OPM
Abdul Muwanika	OPM
Benjamin Kachwero	OPM
Florence Mbabazi	OPM
Gerald Menhya	OPM
Hadard Arinaitwe	OPM
Ibrahim Wandera	OPM
Isaac Mugera	OPM
Julius Mucunguzi	OPM
Leila Ssali	OPM
Mayanja Gonzaga	OPM
Pamela Gumisiriza Komujuni	OPM
·	
Raymond Kirungi	OPM
Roland Bless Taremwa	OPM
Roy Mwanga Mugoya	OPM
Teddy Namara	OPM
Timothy Lubanga	OPM
Dorothy Nabunya	PHEOC
Dr. Issa Makumbi	PHEOC
Joshua Kayiwa	PHEOC
Milton Makoba Wetaka	PHEOC
Simon Kyazze	PHEOC
Daniel Kadobera	PHFP
Dativa Maria Alideki	PHFP
Alex Ario	PHFP
Juliet Namagulu	PHFP
Stephen Kabwama	PHFP
Bernard Atwine	Presidents Office
Dr.Arnold Ezama	Red Cross
Robert Kwesiga	Red Cross
Amanda McClelland	RTSL
Colby Wilkason	RTSL
Diana Kiiza	SABIN Vaccine Institute
David Treseder	Samaritan Purse
Winyi Kaboyo	TDDAP
Yeff Mecaskey	TDDAP

Rebecca Kengoro	UCPA
Sam Watasa	UCPA
ASP Joshua Oluka	Ug. Prison Services
ASP Nelson Wandera	Ug. Prison Services
James Mugoya	Ug. Prison Services
Kigenyi Saad	Ug. Prison Services
Oluka Joshua	Ug. Prison Services
Wandera Nelson	Ug. Prison Services
Grace Ssali Kiwanuka	Uganada Health Care Foundation
Josephine Okwera	Uganda Red Cross Society
Paul B. Okot	Uganda Red cross Society
Ahmed Katumba	UHSC
Ben Manyindo	UNBS
Moses Matovu	UNBS
Yasin Lameriga	UNBS
Ndifuna Abdul	UNBS
Yasin Lemeriga	UNBS
Mary Okwakol	UNCHE
Opuda Asibo	UNCHE
Beth Mutumba	UNCST
Aidah Nakanjako	UNDP
Julius Kasozi	UNHCR
Atek Kagirita	UNHLS/CPHL
Joseph Nkodyo	UNHLS/CPHL
David Matseketse	UNICEF
Doreen Mulenga	UNICEF
Eva Kabwongera	UNICEF
Miriam Lwanga	UNICEF
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Annex II: JEE summary results

Technical areas	Indicators	Score
	P.1.1 Legislation, laws, regulations, administrative requirements, policies or other government instruments in place are sufficient for implementation of IHR (2005)	3
National legislation, policy and	P.1.2 The State can demonstrate that it has adjusted and aligned its domestic legislation, policies and administrative arrangements to enable compliance with IHR (2005)	3
financing	P.1.3 Financing is available for the implementation of IHR capacities	2
	P.1.4 A financing mechanism and funds are available for the timely response to public health emergencies	1
IHR coordination, communication and advocacy	P.2.1 A functional mechanism is established for the coordination and integration of relevant sectors in the implementation of IHR	2
A 4' ' 1' 1	P.3.1 Antimicrobial resistance detection	2
Antimicrobial resistance	P.3.2 Surveillance of infections caused by antimicrobial-resistant pathogens	2
Tesistance	P.3.3 Healthcare-associated infection (HCAI) prevention and control programs	3
	P.3.4 Antimicrobial stewardship activities	3
	P.4.1 Surveillance systems in place for priority zoonotic diseases/pathogens	2
Zoonotic	P.4.2 Veterinary or animal health workforce	3
diseases	P.4.3 Mechanisms for responding to infectious and potential zoonotic diseases are established and functional	2
Food safety	P.5.1 Mechanisms for multi-sectoral collaboration are established to ensure rapid response to food safety emergencies and outbreaks of food-borne diseases	2
Biosafety and biosecurity	P.6.1 Whole-of-government biosafety and bio-security system is in place for human, animal and agriculture facilities	3
Diosecurity	P.6.2 Biosafety and bio-security training and practices	3
Immunization	P.7.1 Vaccine coverage (measles) as part of national programme	3
Illimumzation	P.7.2 National vaccine access and delivery	4
National	D.1.1 Laboratory testing for detection of priority diseases	4
laboratory	D.1.2 Specimen referral and transport system	3
system	D.1.3 Effective modern point-of-care and laboratory-based diagnostics	3
v	D.1.4 Laboratory quality system	3
	D.2.1 Indicator- and event-based surveillance systems	4
Real-time	D.2.2 Interoperable, interconnected, electronic real-time reporting system	3
surveillance	D.2.3 Integration and analysis of surveillance data	3
	D.2.4 Syndromic surveillance systems	3
Reporting	D.3.1 System for efficient reporting to FAO, OIE and WHO	3
	D.3.2 Reporting network and protocols in country	3
Workforce	D.4.1 Human resources available to implement IHR core capacity requirements	3

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development	D.4.2 FETP or other applied epidemiology training programme in place	4
-	D.4.3 Workforce strategy	3
Preparedness	R.1.1 National multi-hazard public health emergency preparedness and response plan is developed and implemented	1
	R.1.2 Priority public health risks and resources are mapped and utilized	1
ъ	R.2.1 Capacity to activate emergency operations	4
Emergency	R.2.2 EOC operating procedures and plans	4
response operations	R.2.3 Emergency operations programme	4
operations	R.2.4 Case management procedures implemented for IHR relevant hazards.	3
Linking public health and security	R.3.1 Public health and security authorities (e.g. law enforcement, border control, customs) are linked during a suspect or confirmed biological event	2
Medical countermeasur	R.4.1 System in place for sending and receiving medical countermeasures during a public health emergency	2
es and personnel deployment	R.4.2 System in place for sending and receiving health personnel during a public health emergency	2
	R.5.1 Risk communication systems (plans, mechanisms, etc.)	2
D. I	R.5.2 Internal and partner communication and coordination	4
Risk communication	R.5.3 Public communication	4
communication	R.5.4 Communication engagement with affected communities	4
	R.5.5 Dynamic listening and rumour management	3
Points of entry	PoE.1 Routine capacities established at points of entry	1
r omis of entry	PoE.2 Effective public health response at points of entry	1
Chemical	CE.1 Mechanisms established and functioning for detecting and responding to chemical events or emergencies	2
events	CE.2 Enabling environment in place for management of chemical events	2
Radiation	RE.1 Mechanisms established and functioning for detecting and responding to radiological and nuclear emergencies	2
emergencies	RE.2 Enabling environment in place for management of radiation emergencies	2

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