

THE REPUBLIC OF UGANDA

NATIONAL ACTION PLAN FOR HEALTH SECURITY 2019 - 2023



August 2019



THE REPUBLIC OF UGANDA

NATIONAL ACTION PLAN FOR HEALTH SECURITY 2019 – 2023

August 2019

Published by: Ministry of Health P.O Box 7272, Kampala, Uganda Email: dghs@health.go.ug Website: http://www.health.go.ug

This book has been printed with support from the World Health Organization (WHO).

Table of Contents

E.	XECUTIVE SUMMARY	12
1.	BACKGROUND/CONTEXT	14
	1.1 Country profile	14
	Background	14
	Public Health Risks	14
	1.2 Progress in IHR implementation	14
	1.3 Joint External Evaluation results	16
2.	STRATEGIC VISION OF THE NAPHS	17
	2.1 Vision	17
	2.2 Mission	17
	2.3 Objectives	17
	2.4 Guiding principles	17
	2.5Core values	18
2		10
3.		19
	3.1 Development of the NAPHS	19
	COTI CO CO COL S A COL	10
	3.2 Identification of Priority Activities	19
	3.3 Linkage to other government frameworks	20
4.	3.3 Linkage to other government frameworks COMPONENTS OF ACTION PLAN	20 21
4.	3.3 Linkage to other government frameworks	20
4.	3.3 Linkage to other government frameworks COMPONENTS OF ACTION PLAN	20 21
4.	3.3 Linkage to other government frameworks COMPONENTS OF ACTION PLAN 4.1 National Legislation, Policy and Financing	20 21 22
4.	 3.3 Linkage to other government frameworks COMPONENTS OF ACTION PLAN 4.1 National Legislation, Policy and Financing 4.2 IHR Coordination, Communication and Advocacy 	20 21 22 25
4.	 3.3 Linkage to other government frameworks COMPONENTS OF ACTION PLAN 4.1 National Legislation, Policy and Financing 4.2 IHR Coordination, Communication and Advocacy 4.3 Antimicrobial Resistance 	20 21 22 25 28
4.	 3.3 Linkage to other government frameworks COMPONENTS OF ACTION PLAN 4.1 National Legislation, Policy and Financing 4.2 IHR Coordination, Communication and Advocacy 4.3 Antimicrobial Resistance 4.4 Zoonotic Diseases 	20 21 22 25 28 34
4.	 3.3 Linkage to other government frameworks COMPONENTS OF ACTION PLAN 4.1 National Legislation, Policy and Financing 4.2 IHR Coordination, Communication and Advocacy 4.3 Antimicrobial Resistance 4.4 Zoonotic Diseases 4.5 Food Safety 	20 21 22 25 28 34 37

4.9 Real time Surveillance	49
4.10 Reporting	54
4.11 Human Resources / Workforce development	57
4.12 Preparedness	61
4.13 Emergency response operations	64
4.14 Linking public health and security authorities	67
4.15 Medical countermeasures and personnel deployment	69
4.16 Risk communication	72
4.17 Points of Entry	76
4.18 Chemical Events	78
4.19 Radiation emergencies	81
Summary of cost analysis	84
Implementation of NAPHS	86
5.1 Governance of the NAPHS	86
5.2 Management structure	
5.3 Monitoring and Evaluation strategy	87
Monitoring and Evaluation plan	87

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 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
МоН	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 multi-sectoral 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.

Hendhits

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.

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%

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

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

Targets

- 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

	Training lange analytical of the interview and include a solution of the procession of interview of a slope and
P1.1	Legislation, laws, regulations, administrative requirements, policies or other government instruments in place are sufficient for implementation of IHR (2005)
P1.2	The State can demonstrate that it has adjusted and aligned its domestic legislation, policies and administrative arrangements to enable compliance with IHR (2005)
P1.3	P1.3 Financing is available for the implementation of IHR capacities
P1.4	P1.4 A financing mechanism and funds are available for the timely response to public health emergencies

Current status

IHR 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

Strategic Actions	Responsible Authority	Budget (UGX)	2019	2020	2021	2022 2023
Obj 1: Update in-country legal and policy framework to support implementation of IHR and OIE requirements	t implementation of IHR	and OIE require	ment	6		
Review key existing legislation and policies (Public Health Act, Animal Diseases Control Act, and Food Safety) that impede compliance with the International Health Regulations	MoH, MAAIF, MoWE, UWA	238,578,250				
Develop National One Health Policy, to incorporate animal and human health surveillance	MOH, MAAIF, MoWE, MoTA, MoGLSD	147,802,500				
Obj 2: Advocate for revision of legal instruments and policies to address existing gaps		and challenges within the national	in th	e nat	iona	
administrative environment Develop and implement a national advocacy strategy to support revision of legal instruments and policies	MoH, MoJCA	408,350,345				
Obj 3: Develop an IHR advocacy and funding strategy for Parliament, Ministry of Fin for increased government funding to support IHR implementation and emergency fun	ament, Ministry of Finan ion and emergency fundir	nance, and other key decision-makers nding to all relevant sectors	⁷ decis secto	sion- rs	mak	ers
Advocate for domestic funding, equipment and staffing for IHR implementation.	MoFPED, MoH, MAAIF, MoWE, MoTA, partners	265,687,500				
Advocate for funding, equipping and staffing for the National One Health Platform and Coordination Office	MoH, MAAIF, MoWE, UWA,	755,243,595				
Establish and fund a budget line in relevant ministries for coordination activities between OIE and IHR focal points	MoH, MAAIF	480,000,000				
Obj 4: Establish an effective rapid response fund to support outbreak investigations and respond	break investigations and	respond				

	TOTAL 2,346,091,355	TOTAL
	MoTWA	emergency response from the MOFPED
 50,428,665	MAAIF, MoWE,	Nevlew including on accessing funds for public health
	MoFPED, OPM, MoH,	Deview mechanism on economic finds for miklin health

4.2 IHR Coordination, Communication and Advocacy

Targets

- 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

	2.1
of IHR	A functional mechanism is established for the coordination and integration of relevant sectors in the implementation

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	2023
Obj 1: Establish an efficient IHR-OIE coordination mechanism to monitor progress towards implementation of IHR activities	to monitor progress tows	ards implementa	tion	of II	IR		
PRIORITY YEAR 1 : Develop TOR and SOPs for IHR focal points for each sector contributing to the NAPHS	МОН	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)	MOH	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	MOH	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	TOTAL
24,611,250	NCHE, UNCST, MakSPH	the staffing norms
	MOH, MoES, UCDC,	Advocate for increased number of nublic health professionals in

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,
- Ensuring appropriate use of antimicrobials, including assuring quality of available medicines, conservation of existing treatments and access to appropriate antimicrobials when needed, while reducing inappropriate use.

JEE Scores

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

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	porting of all priority AMR pathogens	iy 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	1 707 701 255					
five strategic areas in a One Health approach	Academy of Science	1,207,704,222					
	(UNAS), AMR-TWG						
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						
partnerships							
Procure laboratory equipment, reagents, supplies, and	NMS MALIT. IMS						
consumables to enhance laboratory testing capacity for detection	UNHLS, NADDEC,	618,301,380					
and surveinance of Arvite pathogens in the annual & number	Implementing partners						

30

	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	MoH	Scale up surveillance systems for HCAI programs from 14 to 25 sites
13,059,375	MoH	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

31

L

community levels on AMR	Conduct advocacy meetings at national, regional, council and	Develop a harmonized multisectoral AMR training curriculum and UWA platform		platform	i) at ilational,		human, animals, and agriculture Division	Identify antimicrobial agents for residual testing surveillance in MOH Pharmacy	health facilities		Assess antimicrobial consumption levels across animal and NDA, Mo	antimicrobial consumption	Identify areas or sectors for baseline survey on selected	monitoring antimicrobial use in humans and animals and UWA	Develop facility specific SOPs, protocols, and databases for MoH, M/	from 6 to 25 sites	Scale up Antimicrobial Stewardship Program for human health	antibiotic use at designated centres	education/communication, and other interventions to improve UWA	health to include monitoring of antimicrobial use, MAAIF,]	Strengthen antimicrobial stewardship programs (ASP) for animal	Develop an AMR stewardship policy OH platform
MoH, MAAIF, One		and UWA, One Health platform	MOH MAATE MOWE		UWA, One Health	MoH, MAAIF, MoWE		armacy	cilities	NMS, JMS, MAUL,	NDA, MoH, MAAIF,	INDA, IVIUII, IVIAAII	OH MAAIE		MoH, MAAIF, MoWE					MAAIF, MoWE and		orm
3,609,600,000	201,812,500	3,642,500			38,432,500		2,710,201	2 015 207		310,017,535		12,100,700	12 108 750	12,000,200	10 166 200	47,020,700	17 603 750		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	17 535 750		40,023,750

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

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

P4.1	P4.1 Surveillance systems in place for priority zoonotic diseases/pathogens	2
P4.2	P4.2 Veterinary or animal health workforce	3
P4.3	P4.3 Mechanisms for responding to infectious and potential zoonotic diseases are established and functional	2

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

				212,666,500	NOHP (MoH, MAAIF, MWE, UWA)/ OHCO	Create a One Health focal person for each district
				2,260,271,897	NOHP (MoH, MAAIF, MWE, UWA)/ OHCO	Address competency gaps among OH practitioners
				24,999,000	NOHP (MoH, MAAIF, MWE, UWA)/OHCO	PRIORITY YEAR 1: Define the competencies required for advanced, intermediate, and frontline OH practitioners
				and surveillance	ie One Health Approach,	Obj 2: Create a workforce that is conversant with IHR, PVS, the One Health Approach, and surveillance
				Covered in D.4.1	NOHP (MoH, MAAIF, MWE, UWA)	Train IHR Focal Points in all relevant ministries and competent authorities on their roles and responsibilities <i>See Workforce Development D4.1 for progress</i>
				1,862,823,280	NOHP (MoH, MAAIF, MWE, UWA)	PRIORITY YEAR 1: Strengthen national capacities for surveillance data management, collection, analysis, and sharing on priority zoonotic diseases
				157,379,250	NOHP (MoH, MAAIF, MWE, UWA)	PRIORITY YEAR 1: Develop operational plans for strengthening priority zoonotic disease surveillance systems
				145,169,500	NOHP (MoH, MAAIF, MWE, UWA)	Conduct validation and dissemination workshop to collect inputs to the surveillance system situation report
				215,886,035	NOHP (MoH, MAAIF, MWE, UWA)	Assess gaps in existing surveillance systems (animal and human) for priority zoonotic diseases
					urveillance system	Obj 1: Develop a national integrated priority zoonotic disease surveillance system
2022 2023	2021	2020	2019	Budget (UGX)	Responsible Authority	Strategic Actions

	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

Target

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

1 3.1	D7 1
and outbreaks of food-borne diseases	Mechanisms for multi-sectoral collaboration are established to ensure rapid response to food safety emergencies

N

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	2022	2023
Obj 1: Develop a national integrated food safety framework and system	l system						
Finalize legislation and regulations covering safe production,	MOH, MAAIF, UNBS,						
storage, distribution and monitoring of food	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						
PRIORITY VEAR 1. Create a platform for coordination of food	MOH, MAAIF, UNBS, MoWE, DGAL, MTIC,						
safety activities in line with international and national standards	NDA, Private Consumer Authorities, MoES,	441,731,288					
Accord the active food modulation another to identify around which	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 guidelines, including thresholds for triggering investigations and	MOH, MAAIF, UNBS, 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

Targets

- educational outreach to be conducted to promote a shared culture of responsibility, reduce dual-use risks, mitigate biological proliferation and deliberate use threats, and ensure safe transfer of biological agents 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

r hı	Whole-of-government biosafety and bio-security system is in place for human, animal and agriculture facilities

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

Strategic Actions	Responsible Authority	Budget	2019	2020	2021	2022 2023
Obj 1: Establish and implement laws and standards for national biosafety & biosec		ırity systems	-	-	-	-
PRIORITY YEAR 1: Review the Draft Biosecurity Bill and policy	MoSTI, UNCST, MAAIF, MoH, MoES, UWA, OPM, Office of the President, MOD, academia and private	35,569,000				
	sector					
Sensitize the Biosecurity Bill & corresponding	MoSTI, MOH, MAAIF, UNCST,	237,470,000				
policies among political leaders	MOWE, MOD, MOIA	201, 110,000				
Finalize and enact the Biosecurity Bill	MOH, MAAIF, MOWE, MOD, MOIA, MOSTI, MOTA, Parliament	17,712,500				
PRIORITY YEAR 1: Strengthen the National	MOH, MAAIF, UNCST, MOWE,	147,431,822				
Multisectoral Biosecurity Secretariat	MOD, MOIA	147,401,022				
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				

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

		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	e a shared culture	ement training and practices to promot	Obj 2: Strengthen national biological risk management training and practices to promote a shared culture of responsibility

4.7 Immunisation

Target

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

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

and district level in both human and animal sector. In addition, there is need to develop the Uganda National Immunization Plan as well as strengthen animal immunization systems. 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
				rm in vaccine management	Obj 1: Improve capacity of the One Health platform in vaccine management
2021 2022 2023	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	D1.1 Laboratory testing for detection of priority diseases	4
D1.2	D1.2 Specimen referral and transport system	3
D1.3	D1.3 Effective modern point-of-care and laboratory-based diagnostics	3
D1.4	D1.4 Laboratory quality system	3

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, including priority zoonotic diseases	ts of all ten WHO Core tests, including [priority zoonotic	disea	ses		
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	backage, and transport priority biologics the country for advanced diagnostics	al specimens to n	ation	al		
Obj 2.1: Integrate the transportation of animal samples into the human health Transport network	nimal samples into the human health Na	National Specimen Referral and	Refer	ral :	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				

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

		TOTAL 13,484,064,490	TOTAL
		UNBS, MOH, MTIC, MAAIF	ting all s
			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
	۲,200,40		current national IDSR guidelines
	21 622 500	MOH ESD OHCO MAAIE	Integrate animal disease surveillance into the
	1 10,010,000		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

Ì		
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	2023
Obj 1: Strengthen human health surveillance systems at all levels to ensure they are elimeter connected with laboratory and animal health surveillance data	ensure they are e	lectronic, interoperable and	ıble :	and			
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 health workers and armed forces	MAAIF, MOH	990,302,000					
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					

		-		
Include IDSR training curriculum into the pre- service public health training institutions	МОН	227,928,750		
Conduct IDSR for health facilities of the armed forces	МОН	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	MOH	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-national 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	it the national and s ess reporting, analy	ub-national sis and	
Procure ICT equipment for EBS surveillance	MOH	1,981,440,000		
Procure ICT equipment for animal disease surveillance	MAAIF, UWA	2,726,000,000		

Roll out electronic reporting system (EMPRESI) in the animal sector	MAAIF, UWA	1,458,320,625	
Link human health, animal health, and other	NACHT NAAA TE NAME TIMAA	C1C CV7 CV	
electronic reporting systems to a single interoperable system	MOH, MAAIF, MWE, UWA	43,643,312	
Develop training materials for the users of the	MOH, MAAIF, UWA, MWE	194,628,750	
The interoperable electronic surveillance system			
Train trainers in the interoperable, electronic surveillance system	MOH, MAAIF, UWA, MWE	44,658,750	
Print training materials	MOH, MAAIF	245,000,000	
Conduct trainings for district data managers, DHOs, DVOs, VHOs, and health facility leadership	MOH, MAAIF	4,494,062,500	
Conduct support supervision	MOH, MAAIF	563,760,000	
Conduct quarterly review meetings for system developers and users to review and improve the performance of the interoperable, electronic surveillance system	MOH, MAAIF, UWA	563,815,000	
Obj 3: Promote use of surveillance data at all levels to enhance early detection and response and to improve reporting rates,	els to enhance early detection and respo	nse and to improve reporti	ng rates,
timeliness, and quality for animal and human health sectors	llth sectors		
Conduct training of district staff on real-time surveillance data use and reporting	MOH-ESD, MAAIF	2,731,875,000	
Conduct regular data quality assessment exercises	MOH-ESD, MAAIF	469,800,000	
Develop and disseminate SOPs for surveillance data validation	MOH, MAAIF, UWA	1,078,891,250	

data validation

	TOTAL 28,723,043,437	TOTAL
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

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

ini with a special attention to the	ПСа	private sector to achieve >80% reporting rates for both public and private sectors
165,792,000	MAAIF, UWA	Support professional bodies to carry out supportive supervision (animal health)
187,920,000	MoH	Support professional bodies to carry out supportive supervision (human health)
1,101,900,000	MAAIF, UWA	PRIORITY YEAR 1: Train licensed private veterinary practitioners on data collection tools for diseases and other public health events
2,121,157,500	MoH	Train licensed medical practitioners on data collection tools for diseases and other public health events
62,916,875	MoH, MAAIF, UWA, MoWE	PRIORITY YEAR 1: Conduct training of trainer workshops in disease reporting and data collection (medical and veterinary)
18,170,625	OHCO	PRIORITY YEAR 1: Orient the district staff (DVO, DHT, Water and Environment, and UWA) on One Health strategy to address zoonotic diseases (<i>See Zoonotic disease</i>)
300,000 321,387,500	MoH, MAAIF	Train IHR and OIE national focal points at high level their obligations of reporting to WHO and OIE Hold quarterly IDSR/IHR/OIE meetings
181,253,328	MAAIF, MoH, UWA, MoWE, OPM	Train IHR and OIE national focal points and relevant personnel in their obligations of reporting to WHO and OIE

		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	Conduct quarterly surveillance review meetings for all DHOs, DSFPs, DLFPs, Biostats, and DVOs at a regional level
	939,600,000	MoH, MAAIF, MoWE, UWA, UPF, UPDF	Provide continuous mentorship and supportive supervision on surveillance reporting for private and public veterinary practitioners
	939,600,000	MoH, MAAIF, MoWE, UWA, UPF, UPDF	Provide continuous mentorship and supportive supervision on surveillance reporting for private and public medical practitioners
	17,412,500	MoH, MAAIF, MoWE, UWA	Develop a national reporting protocol to WHO, OIE, and FAO
	17,412,500	MoH, MAAIF, MoWE, UWA	Develop an integrated supervisory checklist

4.11 Human Resources / Workforce development

Target

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	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	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

Health training curriculum and its impact on and risk communication Orient the media on IHR reporting requirements partners on IHR reporting Orient the private sector health, trade and travel meetings capacity requirements managers in relevant ministries on IHR core core capacity and competent authorities on their roles and Frontline FETP/EOC operations/eIDSR/IPC One Evaluate ongoing phase 1 integrated District **Obj 2: Streamline frontline in-service training programs and institute a comprehensive FETP workforce** Conduct regular multisectoral IHR focal point Ministry officials and program managers on IHR responsibilities 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 PRIORITY YEAR 1: Update mid-level program Train IHR focal points in all relevant ministries Obj 1: Update multisectoral managers and implementers on IHR knowledge, understanding and core capacities **PRIORITY YEAR 1:** Update Senior Line **Strategic Actions** MOES, NCHE, UNCST, CDC, UWA, MOH/ESD, MAAIF, MOD, MWE OPM, all relevant ministries OPM, all relevant ministries OPM, all relevant ministries IDI, training institutions OPM, all relevant ministries OPM, MOH, MOTA OPM, all relevant ministries **Responsible Authority** 209,491,140 384,890,000 55,852,750 29,090,000 20,412,750 14,409,375 192,445,000 Budget (UGX) 2019 2020 2021 2022 2023

Personnel tracking, mapping, and tracing will also further allow for measurement of effectiveness and impact to prevent, detect and

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
		to public health threats and hazards
22,022,010	UNCST, CDC, IDI, academia)	Uganda's capacity to prevent, detect, and respond
22 222 070	Multi-sectoral TWG (MoH/ESD,	Integrated Frontline FETP/EOC activation/eIDSR
		PRIORITY YEAR 1: Evaluate impact of
		health workers
		the healthcare private sector and the community
45,222,500	NCDC and Academia	evaluation and HR mapping exercises, including
	MAH MAATE Multi sectoral TWC	Frontline FETP training curriculum and develop
		PRIORITY YEAR 1: Review integrated
	academia)	proressional boules
	MAAIF, MoD, MoWE, MoES, NCHE,	Map trained human resources through existing
	Multi-sectoral TWG (MoH/ESD,	
		improving Uganda's capacity to prevent, detect, and respond to public health threats and hazards

	TOTAL 1,464,725,845	TOTAL
93,720,000	МОН, ОРМ	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

Target

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

R1.2	R1.1
R1.2 Priority public health risks and resources are mapped and utilized	National multi-hazard public health emergency preparedness and response plan is developed and implemented
1	1

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 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 institutions and mechanisms for training multi-disciplinary field epidemiologists and other frontline staff to prevent, detect and

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	2023
Obj 1: Review and update the current national multi-hazard emergency preparedness and response plan to meet IHR core capacity requirements, according to a risk assessment conducted	ulti-hazard emergency preparedness an ment conducted	id response plan	to m	eet I	HR	core	
PRIORITY YEAR 1: Draft National Multihazard							
Public Health Emergency Response and							
Preparedness Plan, including preparedness and	MAH MAATE ODM TIWA	101 515 505					
response activities, based on existing strategic							
plans with relevant national and subnational							
stakeholders							
Conduct a comprehensive resource mapping for	MOH MAAIE OPM TIWA	112 610 350					
emergency response		112,010,000					
PRIORITY YEAR 1: Develop hazard-specific	MoH, MAAIF, OPM, UWA, MoWE,	140 000 070					
contingency plans and SOPs	MoD, MoFPED	220,200,270					
Conduct biannual assessments (including							
simulations, tabletop exercises, surveys and	MAH MAATE ODM TIWA MAWE						
questionnaires for National, Regional, and District	MOD MOEDED	175,260,000					
RRTs) to test preparedness and response							
capabilities for different hazards							
Conduct annual support supervision of the	MAH MAAIE IIWA	257 012 000					
contingency plans in 14 health regions		, , , , , , , , , , , , , , , , , , ,					
Preposition a minimum package of essential	MoH, NMS, NDA, NECOC, WHO-	611 110 021					
supplies for emergency response at regional	CO, UNICEF	044,110,001					

National Action Plan for Health Security 2019 - 2023

		TOTAL 1,950,922,906	TOTAL
	116,360,000	OPM, NTF	PRIORITY YEAR 1: Assess country readiness to respond to priority hazard emergencies
files already done	o the hazard prof	ng for emergency response, according t	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

Target

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

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

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	2021	2023
Obj 1: Strengthen the operational capability of the PHEOC	e PHEOC					
sh	MOH	156,447,400				
the National Institute of Public Health, where PHEOC will be housed and incorporated	MULT					
PRIORITY YEAR 1: Develop a strategic plan to incornorate PHEOC funding into MOH structures	MoH, Partners	69,265,000				
	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	ity 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,	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
	78,356,250	MoH, PHEOC, MAAIF, AEC, CBRNE, UPF, UPDF, DGAL, NARO, UNBS, Partners	Conduct a five-day meeting with the relevant stakeholders to review and update current SOPs to include IHR relevant hazards
ciples, and develop a	ultihazard princ	akeholders to adequately address the m mergency response	Obj 4: Review PHEOC SOPs with the relevant stakeholders to adequately address the multihazard principles, and develop a CONOPS covering the all hazards approach to emergency response
	166,416,875	MoH, PHEOC, MAAIF, Partners	Conduct AARs, including hot washes, for all events for which the PHEOC was activated. Systematically integrated learnings into trainings and national plans.
HEOC has been	for which the Pl	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 activated

4.14 Linking public health and security authorities

Target

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	D2 1
confirmed biological event	Public health and security authorities (e.g. law enforcement, border control, customs) are linked during a suspect or

2

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 Uganda has a draft general guidance on detaining/quarantining an individual who presents a public health risk. there is also guidance INTERPOL National Central Bureau (NCB) for Uganda. Weapons Convention (BTWC). Internationally, the country is connected to the INTERPOL through the Ministry of Internal Affairs

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-

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

National Action Plan for Health Security 2019 - 2023

R4.2 R4.1 Target SOPs for the animal sector **PRIORITY YEAR 1:** Conduct a national risk MCM needs, and develop and MCM plan and Conduct a workshop to assess the risks, document processes ensured through the PHEOC and the NECOC. However, national MCM and NRRT plan have to be urgently developed to guide these **Obj 1: To strengthen National multi sectoral framework for implementing MCMs for PHEs** 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 **Current Status JEE Scores** 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 System in place for sending and receiving health personnel during a public health emergency System in place for sending and receiving medical countermeasures during a public health emergency **Strategic Actions** MAAIF/OHCO OPM, MoH **Responsible Authority** 69,274,140 80,717,070 Budget (UGX) 2019 2020 2021

2

N

4.15 Medical countermeasures and personnel deployment

National Action Plan for Health Security 2019 - 2023

69

2022

	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	MoH, NECOC/PHEOC - OHCO	Develop national personnel deployment guidelines and operational plan, including SOPs and training needs for both domestic and international deployment
l emergencies	during public health emergencies		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
	1	MoH, 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	MoH, 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	Develop and exercise a policy for sending and receiving MCM in a public health emergency
			assessment of nublic health threats

		TOTAL 14,671,014,464	TOTAL
	14,000,000,00 0	MoH, NECOC/PHEOC - OHCO	Preposition emergency supplies for response to emergencies
	14,936,664	MoH, NECOC/PHEOC - OHCO	Test operational plan through the development and implementation of a TTX
	35,000,000	MoH, NECOC/PHEOC - OHCO	Distribute final Personnel Deployment Policy and operational plan, including SOPs, nationally
	 80,725,000	MoH, NECOC PHEOC - OHCO	Launch approved policy by senior top management of relevant ministries

4.16 Risk communication

Target

engagement strategies, such as media and social media communications, mass awareness campaigns, health promotion, social 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. mitigate the effects of threats, and protective and preventative action can be made. This includes a mix of communication and

JEE Scores

R5.1	R5.1 Risk communication systems (plans, mechanisms, etc.)	2
R5.2	R5.2 Internal and partner communication and coordination	4
R5.3	R5.3 Public communication	4
R5.4	R5.4 Communication engagement with affected communities	4
R5.4	R5.4 Dynamic listening and rumour management	3

Current Status

communication strengthen inter-partner risk communication should be strengthened with more government commitment to support risk 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
clearance of messages to the public. Multi-sectoral collaboration for risk communication is present and active within the being printed and approved for use in the field. using local languages. All communication materials are pre-tested by the Behavioural Change Committee (BCC) before 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 to the risk communications personnel for response to all health hazards. There exists an internal arrangement for the

national and sub-national levels as well as with media houses (radios, TV, print, etc) and risk communication partners coordination of risk communication between all relevant partners. There is lack of planned risk communication training for 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. responders prior to emergencies. There is need to conduct risk communication training and simulation exercises at

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	sonne	l to r	.espo	nd
effectively during emergencies						
Develop a sustainable funding mechanism for Risk						
Communications using relevant government sector MoH, MAAIF, OHCO	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
	ication	nmunities for effective risk communicat	Obj 4: Strengthen feedback mechanisms with communities for effective risk communi
	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	M₀H, 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
including private	on stakeholders, i	n that coordinates all risk communicatio	Obj 2: Establish a national coordination platform that coordinates all risk communication stakeholders, including private 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)

Strengthen feedback mechanisms with communities for effective risk communication	To be determined	1,469,173,125	
Obj 5: Conduct evaluation campaigns to assess effectiveness of risk communication c	fectiveness of risk communication chan	hannels used every year	
Strengthen the functionality of the call centres in MOH and MAAIF	MoH, MAAIF, OHCO	222,387,383	
Conduct evaluation campaigns periodically to assess effectiveness of risk communication	MoH, MAAIF, OHCO	37,002,760	
Conduct periodic KAPB studies on perceptions, risky behaviour, and misinformation among the communities	MoH, MAAIF, OHCO	22,826,725	
Obj 6: Conduct AMR awareness creation campaigns	gns		
Develop AMR communication and advocacy	MoH, MAAIF, Pharmaceutical	103 010 074	
strategy	Society, UMC, AHPC	173,010,724	
Develop IEC materials	MoH, MAAIF	720,694,375	
TOTAL	TOTAL 10,589,643,004		

4.17 Points of Entry

Targets

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.2	PE.1
Effective public health response at points of entry	Routine capacities established 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	TOTAL
				2,378,814,375	MAAIF, MOH	
				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
	the	d to	inke	sponse that are l	plan and capacities for detection and re vlan and capacities	Obj 2: Develop a POE public health emergencies plan and capacities for detection and response that are linked to the 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
ırds	1 haza	lealth	lic h	to potential pub	re capacities for detection and response	Obj 1: Designate all POEs and implement IHR core capacities for detection and response to potential public health hazards
2022 2023	2021	2020	2019	Budget (UGX)	Responsible Authority	Strategic Actions

·

4.18 Chemical Events

Target

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

CE.2	CE.1
CE.2 Enabling environment in place for management of chemical events	CE.1 Mechanisms established and functioning for detecting and responding to chemical events or emergencies
2	2

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 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. include establishing a framework for licensing, building capacity for the management of hazardous chemicals, and enhancing

response to chemical events, according to IHR (2005)	Ohi 1. Ruild effective and lasting national chemical safety and chemical security managements
1005) 1005)	Responsible Authority
шент сарарнице	Budget (UGX)
3 101	2019
	2020
	2021
	2022
	2023

249,790,730		
710 705 750	DGAL & Police CBRN Unit, UNBS	Train adaminal lab staff on analytical adamistry
	DGAL & Police CBRN Unit, UNBS	Upgrade select chemical labs according to IHR standards
4,830,000	DGAL & Police CBRN Unit, MoH, MAAIF, UNBS, NEMA	Assess select chemical labs with handling capacity for chemical events and IHR (2005) compliance
270,109,375	DGAL & Police CBRN Unit	Create awareness of, and link government and private health facilities to, National Poison Centre
2,017,412,500	DGAL & Police CBRN Unit, NECOC	Establish national focal points for sharing information regarding chemical events
	ationalize the National Poison Centre	Obj 2: Establish a National Focal Point and operationalize the National Poison Centre
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
325,473,750	MoGLSD, MoWE/NEMA, UNBS, MTIC	Perform audits of 10% of selected chemical factories nationally each year
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
112,184,949	OPM/NECOC	Develop a multisectoral chemical emergency response plan (subset of the National Chemical Safety and Security Plan)
74,484,011	UNBS, MoD (NBC Regiment), DGAL, MoGLSD, MAAIF, MoWE, NEMA	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

79

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

4.19 Radiation emergencies

Target

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

RE.2	RE.1
RE.2 Enabling environment in place for management of radiation emergencies	RE.1 Mechanisms established and functioning for detecting and responding to radiological and nuclear emergencies
2	2

Current Status

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 Ministry of Energy and Mineral Development in a draft national nuclear security plan (2012) with both preventive and response 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

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

	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)

Medical countermeasures	Preposition emergency supplies for response to enforce an integrated 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 system	Integrate transport of animal samples into the National Specimen 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.

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 <u>https://apps.who.int/iris/bitstream/handle/10665/276651/WHO-WHE-CPI-2018.51-eng.pdf?sequence=1</u>

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 midyear 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

Rhoda NaudaDGALDenis KyabagguEAPHLNPNamungo Patience BEnergy and MineralJohn Steven OkechEuropean UnionChrisostom AyebazibweFAOMubiru SarahFAOSam OkutheFAOSusan NdyanaboFAOEdith NantongoFH1360Eric KakooleGAVIVicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDIPeter BabigumiraIDIRogers KisameIDISolome Nantumbwe MutumbaIDISolome Nantumbwe MutumbaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCASando Okello AyenKCCASando Okello AyenKCCASerukka DavidKCCAAlex BambonaMAAIF	Kepher Kateu	DGAL
Namuro Patience BEnergy and MineralJohn Steven OkechEuropean UnionChrisostom AyebazibweFAOMubiru SarahFAOSam OkutheFAOSusan NdyanaboFAOEdith NantongoFH1360Eric KakooleGAVIVicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIPeter BabigumiraIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCASerukka DavidKCCASerukka DavidKCCA		DGAL
Namuro Patience BEnergy and MineralJohn Steven OkechEuropean UnionChrisostom AyebazibweFAOMubiru SarahFAOSam OkutheFAOSusan NdyanaboFAOEdith NantongoFH1360Eric KakooleGAVIVicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIPeter BabigumiraIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCASerukka DavidKCCASerukka DavidKCCA	Denis Kyabaggu	EAPHLNP
John Steven OkechEuropean UnionChrisostom AyebazibweFAOMubiru SarahFAOSam OkutheFAOSam OkutheFAOSusan NdyanaboFAOEdith NantongoFH1360Eric KakooleGAVIVicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJudith NainyondoIDILydia NakiireIDIMohammed LamordeIDIPeter BabigumiraIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDISolome Nantumbwe MutumbaIDISimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCASaiah ChebrotKCCASerukka DavidKCCA		Energy and Mineral
Chrisostom AyebazibweFAOMubiru SarahFAOSam OkutheFAOSusan NdyanaboFAOEdith NantongoFH1360Eric KakooleGAVIVicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCASerukka DavidKCCA		
Sam OkutheFAOSusan NdyanaboFAOEdith NantongoFH1360Eric KakooleGAVIVicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIPeter BabigumiraIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEnilian AhimbisibweKCCASerukka DavidKCCASerukka DavidKCCA	Chrisostom Ayebazibwe	
Susan NdyanaboFAOEdith NantongoFH1360Eric KakooleGAVIVicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIPeter BabigumiraIDIRichard WalwemaIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCASerukka DavidKCCASerukka DavidKCCA	Mubiru Sarah	FAO
Edith NantongoFH1360Eric KakooleGAVIVicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakireIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDIJoanier NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCASerukka DavidKCCASerukka DavidKCCA	Sam Okuthe	FAO
Eric KakooleGAVIVicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDILydia NakireIDIKenneth MulindwaIDILydia NakireIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCASaiah ChebrotKCCASerukka DavidKCCA	Susan Ndyanabo	FAO
Vicent MujuneGOALChristine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiIMSAcyeles OmodiKCCADaniel Okello AyenKCCAEmilian AhimbisibweKCCASerukka DavidKCCASerukka DavidKCCA	Edith Nantongo	FH1360
Christine MwebesaHealth Service Commission (HSC)Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCASerukka DavidKCCASerukka DavidKCCA	Eric Kakoole	GAVI
Dr. Pius OkongHealth Service Commission (HSC)Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIMohammed LamordeIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCASerukka DavidKCCA	Vicent Mujune	GOAL
Ddungu SHSCImmaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIMohammed LamordeIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCASerukka DavidKCCA	Christine Mwebesa	Health Service Commission (HSC)
Immaculate NakibuukaICRCFrancis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakireIDIMohammed LamordeIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDIRogers KisameIDIJoaniter NankabirwaIDISolome Nantumbwe MutumbaIDISimonPeter MundeyiIDRCSimonPeter MundeyiIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCASerukka DavidKCCA	Dr. Pius Okong	Health Service Commission (HSC)
Francis KakoozaIDIJudith NanyondoIDIJustine BukirwaIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIMohammed LamordeIDIPeter BabigumiraIDIPeter MukiibiIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCASerukka DavidKCCA	Ddungu S	HSC
Judith NanyondoIDIJustine BukirwaIDIKenneth MulindwaIDILydia NakiireIDILydia NakiireIDIMohammed LamordeIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCADaniel Okello AyenKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Immaculate Nakibuuka	ICRC
Justine BukirwaIDIKenneth MulindwaIDILydia NakiireIDIIbiIDIMohammed LamordeIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Francis Kakooza	IDI
Kenneth MulindwaIDILydia NakiireIDIIndemmed LamordeIDIPeter BabigumiraIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiIMSVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Judith Nanyondo	IDI
Lydia NakiireIDIMohammed LamordeIDIPeter BabigumiraIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Justine Bukirwa	IDI
Mohammed LamordeIDIPeter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Kenneth Mulindwa	IDI
Peter BabigumiraIDIPeter MukiibiIDIRichard WalwemaIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Lydia Nakiire	IDI
Peter MukiibiIDIRichard WalwemaIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCADaniel Okello AyenKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Mohammed Lamorde	IDI
Richard WalwemaIDIRogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCADaniel Okello AyenKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Peter Babigumira	IDI
Rogers KisameIDISolome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCADaniel Okello AyenKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Peter Mukiibi	IDI
Solome Nantumbwe MutumbaIDIJoaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCADaniel Okello AyenKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Richard Walwema	IDI
Joaniter NankabirwaIDRCSimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCADaniel Okello AyenKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Rogers Kisame	IDI
SimonPeter MundeyiImmigrationVictoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCADaniel Okello AyenKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Solome Nantumbwe Mutumba	IDI
Victoria KajjaIOMBildard BagumaJMSAcyeles OmodiKCCADaniel Okello AyenKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Joaniter Nankabirwa	IDRC
Bildard BagumaJMSAcyeles OmodiKCCADaniel Okello AyenKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	SimonPeter Mundeyi	Immigration
Acyeles OmodiKCCADaniel Okello AyenKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Victoria Kajja	IOM
Daniel Okello AyenKCCAEmilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Bildard Baguma	JMS
Emilian AhimbisibweKCCAIsaiah ChebrotKCCASerukka DavidKCCA	Acyeles Omodi	KCCA
Isaiah ChebrotKCCASerukka DavidKCCA	Daniel Okello Ayen	KCCA
Serukka David KCCA	Emilian Ahimbisibwe	КССА
	Isaiah Chebrot	KCCA
Alex Bambona MAAIF	Serukka David	КССА
	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 Development
Mr. Alex Asiimwe	Min Gender Labour social Development
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 Development
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 Antiquities
Prof. Ephraim Kamuntu	Minister of Tourism Wildlife and Antiquities
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 NaigagaOHCEAPamela KomujuniOPMAbdul MuwanikaOPMBenjamin KachweroOPMFlorence MbabaziOPMGerald MenhyaOPMHadard ArinaitweOPMIbrahim WanderaOPMIsaac MugeraOPMJulius MucunguziOPMLeila SsaliOPMMayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMTeddy NamaraOPMTimothy LubangaOPM	
Benjamin KachweroOPMFlorence MbabaziOPMGerald MenhyaOPMHadard ArinaitweOPMIbrahim WanderaOPMIsaac MugeraOPMJulius MucunguziOPMLeila SsaliOPMMayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Florence MbabaziOPMGerald MenhyaOPMHadard ArinaitweOPMIbrahim WanderaOPMIsaac MugeraOPMJulius MucunguziOPMLeila SsaliOPMMayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMTeddy NamaraOPM	
Florence MbabaziOPMGerald MenhyaOPMHadard ArinaitweOPMIbrahim WanderaOPMIbrahim WanderaOPMJulius MucunguziOPMJulius MucunguziOPMLeila SsaliOPMMayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Hadard ArinaitweOPMIbrahim WanderaOPMIsaac MugeraOPMJulius MucunguziOPMLeila SsaliOPMMayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Ibrahim WanderaOPMIsaac MugeraOPMJulius MucunguziOPMLeila SsaliOPMMayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Isaac MugeraOPMJulius MucunguziOPMLeila SsaliOPMMayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Julius MucunguziOPMLeila SsaliOPMMayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Leila SsaliOPMMayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Mayanja GonzagaOPMPamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Pamela Gumisiriza KomujuniOPMRaymond KirungiOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Raymond KirungiOPMRoland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Roland Bless TaremwaOPMRoy Mwanga MugoyaOPMTeddy NamaraOPM	
Roy Mwanga MugoyaOPMTeddy NamaraOPM	
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 KaboyoTDDAP	
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
Aida Girma	UNICEF
Ambrose Oiko	UPDF
Joseph Mugagga Lubega	UPDF
Damian Kato	UPDF
Charles Nuwakuma	UPDF
Ambrose Musinguzi	UPDF
Godwin Bagash	UPDF
John Tagaswire	UPDF
Samuel Okurut	UPDF

Mubiru Andrew	UPF
Ndashimye Gregory	UPF
Peter Oumo	UPF
Justine Mirembe	UPMB
Hassan Wasswa	URA
Paul Okot	URSC
Deborah Malac	US EMBASSY
Patricia Rader	USAID
Wilberforce Owembabazi	USAID
David Mutongo	USAID P&R
Barnabas Bakamuntumaho	UVRI
Julius Lutwama	UVRI
Josephine Bwogi	UVRI
Robert Downing	UVRI
Ronald Seguya	UVRI
Patrick Atimnedi	UWA
Robert Aruho	UWA
Gloria Grace Akurut	UWA
Sam Mawanda	UWA
Florence Kyalimpa	UWA
Patrick Atim	UWA
Andrew Bakainaga	WHO
Collius Mwesigye	WHO
Edson Katushabe	WHO
Felix Ocom	WHO
Jayne Tusiime	WHO
Miriam Nanyunja	WHO
Bayo Fatumbi	WHO
Innocent Komakech	WHO
Maureen Nyonyintono	WHO
Nathan Natserie	WHO
Patrick Wokorach	WHO
Sandra Nabatanzi	WHO
William Lali Ziras	WHO
Yonas Tegegn Woldemariam	WHO
Musa Sekamatte	ZDCO

Annex II: JEE summary results

Technical	Indicators	Score
areas	P.1.1 Legislation, laws, regulations, administrative requirements, policies or other	
	government instruments in place are sufficient for implementation of IHR (2005)	3
National	P.1.2 The State can demonstrate that it has adjusted and aligned its domestic	
legislation,	legislation, policies and administrative arrangements to enable compliance with	3
policy and	IHR (2005)	
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	P.2.1 A functional mechanism is established for the coordination and integration of relevant sectors in the implementation of IHR	2
and advocacy	D 2 1 Antimizer historie detection	2
Antimicrobial	P.3.1 Antimicrobial resistance detection	2
resistance	P.3.2 Surveillance of infections caused by antimicrobial-resistant pathogens	2
	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	P.6.1 Whole-of-government biosafety and bio-security system is in place for	3
biosecurity	human, animal and agriculture facilities	2
-	P.6.2 Biosafety and bio-security training and practices	3 3
Immunization	P.7.1 Vaccine coverage (measles) as part of national programme	-
	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
	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

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
Emergency response operations	R.2.1 Capacity to activate emergency operations	4
	R.2.2 EOC operating procedures and plans	4
	R.2.3 Emergency operations programme	4
	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	R.4.1 System in place for sending and receiving medical countermeasures during a	2
countermeasur	public health emergency	-
es and personnel deployment	R.4.2 System in place for sending and receiving health personnel during a public health emergency	2
Risk communication	R.5.1 Risk communication systems (plans, mechanisms, etc.)	2
	R.5.2 Internal and partner communication and coordination	4
	R.5.3 Public communication	4
	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
	PoE.2 Effective public health response at points of entry	1
Chemical events	CE.1 Mechanisms established and functioning for detecting and responding to	2
	chemical events or emergencies	
	CE.2 Enabling environment in place for management of chemical events	2
Radiation emergencies	RE.1 Mechanisms established and functioning for detecting and responding to radiological and nuclear emergencies	2
	RE.2 Enabling environment in place for management of radiation emergencies	2

OUR PARTNERS

