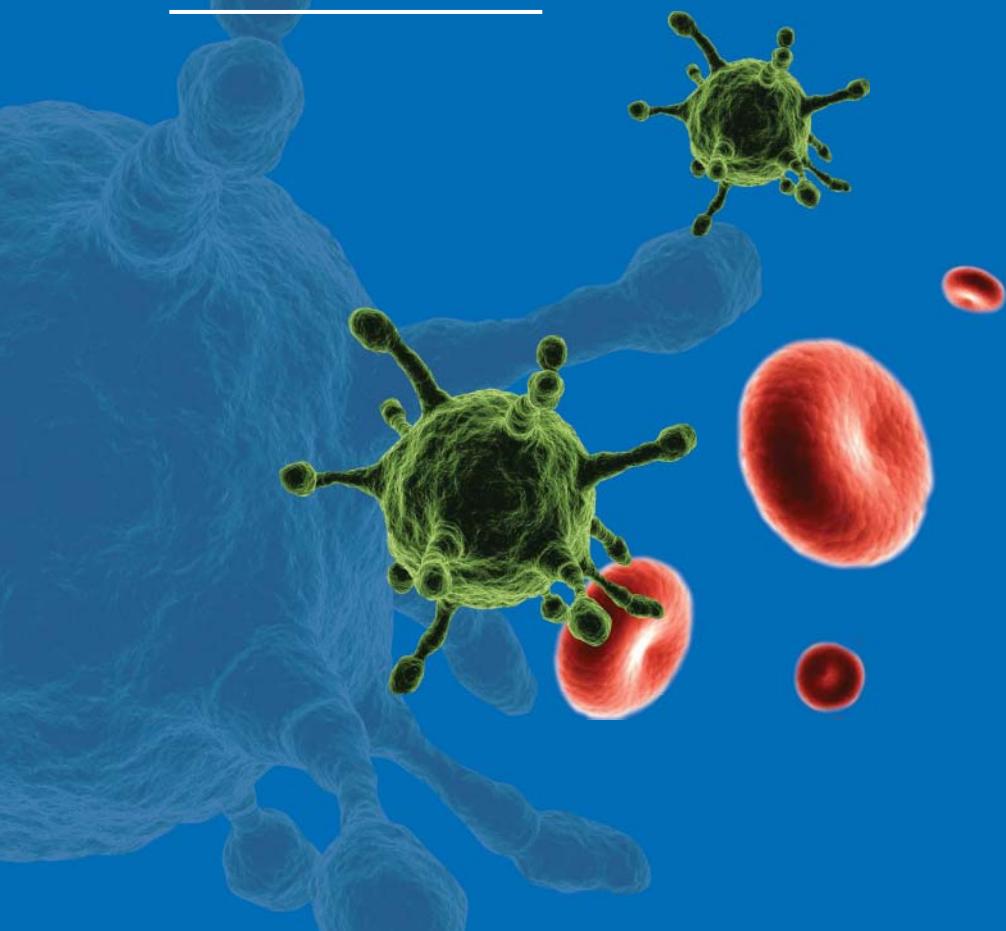




Government of
Sierra Leone

NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

2018-2022



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Sierra Leone, National Action Plan for Health Security, 2018 – 2022

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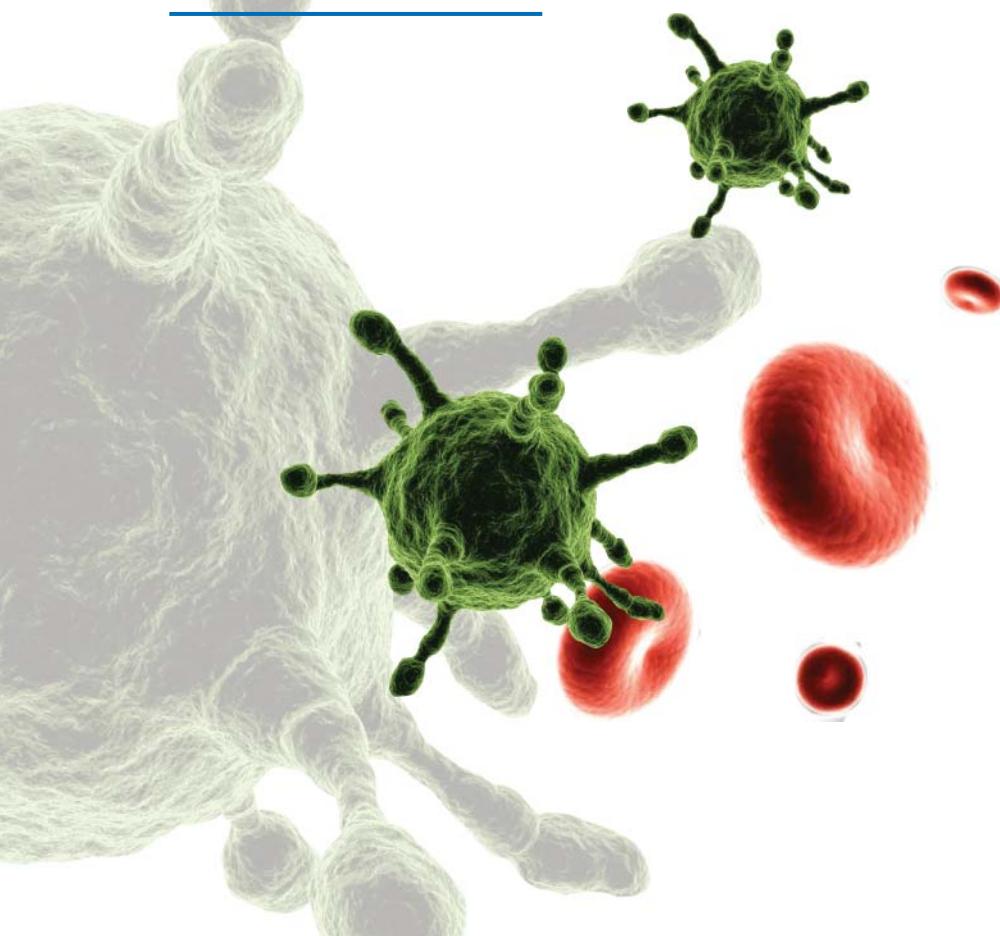
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Government of
Sierra Leone

NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

2018-2022





Foreword

Sierra Leone has experienced many health related emergencies spanning human, animal and environmental health for millennia. For example, after a decade of absence, cholera re-emerged in Sierra Leone 1994 – 1995 affecting more than 46,061 people and killing 1,465 people and again in 2012-2013 affecting 12 out of the then 13 districts in Sierra Leone and affecting 23,308 people with 301 documented deaths. Lassa fever is a viral hemorrhagic fever endemic in the country and that has continued to present a significant threat. The incidence of Lassa fever has been rising significantly in the last few years. By mid-2018, 20 cases of Lassa fever had been reported as compared to annual cumulative of 23 in 2017 and 33 in 2016.

The animal sector too has experienced numerous outbreaks that have caused devastation of animal stocks and resulted in losses in agricultural productivity and food security. Human populations continue to suffer health consequences of zoonosis. The death of 12 people from rabies between 1968 and 1972 necessitated a national campaign with vaccination of 4,700 dogs in 1974. More recently, the risk of rabies has once again come to the fore with well over 4,700 animal bites and 50 deaths reported in the last three years.

It is acknowledged that the environment plays an important role in human health. Environmental degradation with increasing population pressure are steadily playing a role in the transmission of diseases and other public health threats to humans. The 2014 – 2015 Ebola Virus Disease (EVD) outbreak that affected Sierra Leone and the West African Sub Region is likely to have originated from interactions between human populations and the tropical rain forest ecosystems. In Sierra Leone, a total of 14,124 people were affected, including 3,956 that died. The Ebola epidemic took a heavy toll on the already scarce health workforce, a total of 350 health care workers were affected with 221 deaths reported.

Following a review of the response to the West African EVD Epidemic, the World Health Assembly (WHA) in its recommendation WHA 69/21.5, States Parties were to adopt the Joint External Evaluation (JEE) and to develop National Action Plans for Health Security (NAPHS) within one year of the external evaluation. In line with this recommendation, Sierra Leone was the sixth country in the African region to undergo the Voluntary JEE in October 2016. The findings and recommendations from JEE have informed development of this National Action Plan for Health Security (2018-2022) through an all-inclusive multi-sectoral process.

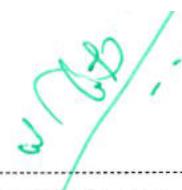
This plan presents costing and resource mapping by technical areas, it is envisaged that the development partners will supplement domestic funding for the implementation to be a success. The plan will facilitate multi-sector engagement using a One Health approach and guide implementation of activities for progress towards attainment of International Health Regulations (IHR) 2005 core capacities required for enhancing Global Health Security.



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Ministry of Lands, Country
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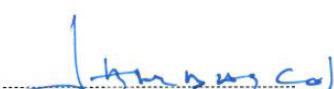
Acknowledgement

The published Sierra Leone Joint External Evaluation (JEE) report proposes actions that Sierra Leone needs to undertake to improve the country's capacity to prepare for, detect, and respond to adverse public health events. In order to guide the implementation of the actions proposed in the JEE report, the MoHS, MAF and EPA with support of partners developed this National Action Plan for Public Health Security (NAPHS). The NAPHS outlines what activities will be carried out in the medium term (2018-2022) in order for Sierra Leone to attain the desired capacities required for IHR & GHSA compliance. Currently, it is the renewed focus of the Ministry of Health and Sanitation in collaboration with other ministries, government agencies and One Health partner organizations as a means of accelerating achievement of national health security.

We wish to acknowledge the invaluable contribution of all actors who were involved in the formulation of this plan. We would like to express our gratitude to the Honorable Ministers of Health and Sanitation (MoHS) and Agriculture and Forestry (MAF) Dr. Alpha T. Wurie and Mr. Joseph J. Ndanema respectively and the Minister of Lands, Housing & Environment Dr. Dennis Sandy for their high-level support to the process of development of this plan. We would also like to thank the former Chief Medical Officer Dr. Brima Kargbo, the former Chief Agricultural Officer Mr. Ideara Sheriff and the former Chief Environmental Officer Mr. Edward P. Bendu together with the heads of directorates, programs, units and agencies and technical personnel for their contributions to the development of the NAPHS. This process would not be complete without the participation of other One Health stakeholders that include the Office of National Security (ONS), Njala University, Sierra Leone Civil Aviation Authority (SLCAA), Sierra Leone Agricultural Research Institute (SLARI) and the Republic of Sierra Leone Armed Forces (RSLAF). The involvement of these One Health players from the Government of Sierra Leone (GOSL) side is an assurance of the new approach to health security in the country.

The successful development of this plan was made possible by the unwavering support and leadership of Dr. Amara Jambai, who was then the Deputy Chief Medical Officer (Public Health) and now the Chief Medical Officer. We also appreciate the contribution of the late Dr. Foday Dafae who served as the Director of Disease Prevention and Control at the Ministry of Health & Sanitation.

We are particularly grateful to the WHO for the technical and financial support provided from all three levels (HQ, AFRO and the Country Office). Special thanks to Dr. Charles Njuguna, WHO Health Security and Emergency Coordinator for his technical guidance throughout the process. We are also grateful to the leadership of the following partner organizations for their contribution: FAO, US CDC, USAID, IOM, DFID, Public Health England, World Bank, China CDC and GIZ. Their unreserved commitment to the development of this plan as an assurance of the strength of partnership towards its implementation.



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Executive Summary

The Sierra Leone National Action Plan for Health Security (NAPHS) is based on the recommendations of the 2016 Joint External Evaluation (JEE). The JEE is a voluntary, collaborative and multi-sectoral process to evaluate country's capacity to prevent, detect and rapidly respond to public health risks occurring naturally or due to deliberate or accidental events. The JEE process helps countries identify the most critical gaps within their human and animal health systems, to prioritize opportunities for enhanced preparedness and response, and to engage with current and prospective partners and donors to effectively target resources. Sierra Leone was among first African nations to accept to undergo the JEE process which was conducted in between 31st Oct – 4th November.

Some of the key areas for improvement that were identified through the process of JEE included; the need for revision of public health laws and legislation, a budget line for IHR, accelerate the implementation of the One Health approach, development of a comprehensive multi-hazard National Public Health Emergency Preparedness and Response plan, strengthening surveillance at points of entry (PoEs), improve coordination and collaboration between human and animal health laboratory systems, Improve capacity (human resources, laboratory) for the detection and response to chemical and radiation hazards among several other key priorities.

Stakeholders, with broad representation, and using a one-health approach, reviewed the NAPHS so as to prioritize activities planned in the 2018-2022 implementation period. A resource mapping exercise was carried out, this allowed the country to have an overview on the available or potential resources to support building country capacities for health security. Implementation of this plan will enable the country to: prevent the likelihood and reduce the consequences of outbreaks and other public health hazards; build national capacities for early detection and effective response to public health emergencies and other events of public health concern; foster all-sector partnerships for effective prevention, detection and response to public health emergencies and other events of public health concern; establish a sustainable financing strategy for the attainment of national health security. Overall, this will enable the country to strengthen core capacities required under IHR 2005 leading to enhanced health security of the country and the sub region.

The overall cost of implementation of this plan is about \$291 million, the high-prioritized activities for implementation in year one and two will cost about \$ 50 million. It is envisaged that the health sector development partners will be enthusiastic to supplement domestic funding for the implementation to be a success. WHO will continue to coordinate a platform for donors and partners to share, inform, and collaborate in order to strengthen Sierra Leone IHR (2005) capacity and increase our contribution to global health security.

List of Abbreviations and Acronyms

AAR	After-Action Review
AEFI	Adverse effects following immunization
AFENET	African Field Epidemiology Network
AFP	Acute Flaccid Paralysis
A4P	Agenda for Prosperity
AMR	Antimicrobial Resistance
BPEHS	Basic Package of Essential Health Services
CAHW	Community Animal Health Worker
CBS	Community Based Surveillance
China CDC	Chinese Center for Disease Control and Prevention
US CDC	Centers for Disease Control and Prevention
CHC	Community Health Centre
CHP	Community Health Post
CHWs	Community Health Workers
CMO	Chief Medical Officer
CPHRL	Central Public Health Reference Laboratory
CSOs	Civil Society Organizations
DAO	District Agricultural Officer
DFID	Department for International Development (UK)
DHIS2	District Health Information System2
DHMT	District Health Management Teams
DHSE	Directorate of Health Security and Emergencies
DLVS	Directorate of Livestock and Veterinary Services
DMO	District Medical Officer
ECOWAS	Economic Community of West African States
e-IDSR	electronic Integrated Disease Surveillance and Response
EPA	Environmental Protection Agency
EVD	Ebola Virus Disease
FAO	Food and Agriculture Organization
FELTP	Field Epidemiology and Laboratory Training Programme
FETP	Field Epidemiology and Training Programme
GDP	Gross Domestic Product
GHSA	Global Health Security Agenda
HCAI	Health Care-Associated Infections
IPC	Infection Prevention and Control
JEE	Joint External Evaluation
GEF	Global Environmental Facility
GoSL	Government of Sierra Leone
GIZ	German Agency for International Cooperation
ICAP	International Center for AIDS Care and Treatment Programs
ICT	Information Communication and Technology
IDSR	Integrated Disease Surveillance and Response
IHR	International Health Regulations
IHR-NFP	International Health Regulations-National Focal Point
IOM	International Organization for Migration
LTWG	Laboratory Technical Working Group
MAF	Ministry of Agriculture and Forestry

MCHP	Maternal and Child Health Post
MDAs	Ministries Departments and Agencies
MTHE	Ministry of Technical and Higher Education
MIA	Ministry of Internal Affairs
MLF	Multilateral Fund
MOFED	Ministry of Finance and Economic Development
MoHS	Ministry of Health and Sanitation
MRU	Mano River Union
NAPHS	National Action Plan for Health Security
NMCC	National Multi-Agency Coordination Committee
NPHA	National Public Health Agency
NPHEMC	National Public Health Emergency Management Committee
OIE	World Organization of Animal Health
ONS	Office of National Security
NLSP	National Laboratory Strategic Plan
NPHEPR	National Public Health Emergency Preparedness and Response Plan
NSRPA	Nuclear Safety and Radiation Protection Agency
PHEs	Public Health Emergencies
PHEMC	Public Health Emergency Management Committee
PHE	Public Health England
PHEIC	Public Health Events of International Concern
PHNEOC	Public Health National Emergency Operation Centre
POCT	Point of Care Testing
PoEs	Points of Entry
POPs	Persistent Organic Pollutants
REDISSE	Regional Disease Surveillance Strengthening Enhancement
RSLAF	Republic of Sierra Leone Armed Forces
SDGs	Sustainable Development Goals
SLMTA	Strengthening Laboratory Management towards Accreditation
SLIPTA	Stepwise Laboratory Quality Improvement Process towards Accreditation
SOPs	Standard Operating Procedures
SPP	Strategic Planning Portal
SWAp	Sector Wide Approach
TBA	Traditional Birth Attendant
UHC	Universal health Coverage
UNEP	United Nations Environment Program
UNICEF	United Nations International Children's Emergency Fund
UNISDR	UN Office for Disaster Risk Reduction
VHF	Viral Hemorrhagic Fever
WB	World Bank
WHA	World Health Assembly
WHO	World Health Organization



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1 BACKGROUND



1.1 Country Profile

Sierra Leone is located on the west coast of Africa and covers an area of about 72,000 square kilometres (28,000 square miles). It extends from latitude 7 degrees north to 10 degrees north, and from longitude 10 degrees west to 14 degrees west. The Republic of Guinea borders it on the north and northeast, and the Republic of Liberia borders it on the east and southeast. On the west and southwest, the Atlantic Ocean extends approximately 340 kilometres (211 miles)¹.

1.1.1 Administrative and Political Structure

Sierra Leone is administratively divided into five major regions: Northern Province, North Western Province, Southern Province, Eastern Province and the Western Area where the capital Freetown is located. The regions are further divided into sixteen districts, while the districts in turn are subdivided into 190 chiefdoms and sections, governed by traditional Paramount Chiefs and Section Chiefs respectively².

Map of Sierra Leone



Figure 1: Map of Sierra Leone

Copyright: © 2014 Esri

Politically, Sierra Leone is divided into 21 local councils that are further sub-divided into wards. An elected councillor through an ACT Supplement to the Sierra Leone Gazette Extraordinary Vol. CXXXV, No. 14 dated 1st March 2004 heads each ward.

1 Sierra Leone Demographic Health Survey 2013

2 <http://slconcordtimes.com/sierra-leone-now-has-190-chiefdoms-and-a-new-national-map/>

1.1.2 Socio-economic context Take this up to come after political situation

The Sierra Leonean economy is predominantly driven by agriculture, which accounts for about half of the real gross domestic product (GDP). However, the share of the GDP attributed to agriculture has been declining, from about 54% in 2009 to less than 53% in 2010 and 2011, and with a sharper decline from 47% in 2012 to 41% in 2013, mainly due to focus on the mining activities in the country during this period. Services second agriculture as a major percentage of GDP, at approximately 34 percent³.

The manufacturing sector, consisting mainly of import-substituting industries, accounts for only 2% of GDP. The mining sector accounted for less than 6% of GDP between 2001 and 2011 but increased to 12% of GDP in 2012 (SSL, 2012), due mainly to the discovery and mining of iron ore in 2011 in the Northern region. Coffee, cocoa, and fish are the major agricultural exports of the country⁴.

The performance of the Sierra Leonean economy has been declining since the post-independence era, with its greatest decline during the 10-year civil conflict. Since the end of the conflict in 2002, several measures have been put in place to improve the economy and the quality of life. These include the introduction of five-year development frameworks such as the Poverty Reduction Strategy Papers (PRSP), the Agenda for Change, and the Agenda for Prosperity.

The Agenda for Change saw improvement in the overall economy, with emphasis in energy, infrastructure, agriculture, and social services. It enabled the economy to grow at an annual average of 6% between 2007 and 2012. One of the lessons learned during the implementation of the Agenda for Change was that infrastructural development and social services were effective strategies to create jobs for youth, including the Cash for Work Programmes. In 2013, the Government of Sierra Leone launched the Agenda for Prosperity (A4P) to provide continuity by consolidating the gains made under the Agenda for Change. The goal was to transform Sierra Leone into a middle-income country by 2035⁵. The Ebola Virus Disease (EVD) outbreak of 2014 affected the economic performance of the country and reversed previous gains that had been made.

1.1.3 Demographic Profile

Sierra Leone has a total population of 7,092,113 people in 2017 as projected from the population census of 2015 with an annual population growth of 3.2 percent. The country has a rural population of 59% and urban population of 41%. The majority of the country's population are women (50.8%). There are about 15 distinct ethnic groups reflecting a rich cultural diversity⁶.

The climate in Sierra Leone is determined mainly by the seasonal movements of two air masses: the North-easterly Continental Tropical Winds (commonly called North-East Trade Winds) and the south westerly Maritime Tropical Winds (commonly called South-West Monsoon). The country experiences two main seasons: the dry season, between November and May, and the wet/rainy season, from May to November. The present distribution of vegetation in Sierra Leone has been influenced not only by factors of climate and soil but also by humans. At present, the following vegetation communities can be distinguished: forest, savannah, grassland, and swamp. The country has eight main river systems: the Great Scarcies, Little Scarcies, Rokel, Jong, Sewa, Warjei, Moa, and Mano. The rivers typically flow from northeast to southwest, eventually reaching the Atlantic Ocean⁷.

³ Sierra Leone Demographic Health Survey 2013

⁴ Sierra Leone Demographic Health Survey 2013

⁵ Sierra Leone Demographic Health Survey 2013

⁶ https://www.statistics.sl/wp.../final-results_-2015_population_and_housing_census

⁷ Sierra Leone Demographic Health Survey 2013

Sierra Leone has a young population: 40.9% are below 15 years and 3.5% are above 65 years. The working age population (15-64 yrs.) represent 55.6% of the total population with a literacy rate of 51.4% for persons above 10 years of age⁸.

1.1.4 Situation Analysis-burden of PHEs in terms or morbidity and mortality

In June 1996, an epidemic of poisoning occurred in Sierra Leone which involved 49 persons and 14 deaths. The laboratory approach and investigation of the incident was described using a positive chemical ionization mass spectrometry and nuclear magnetic resonance spectroscopy, the toxicant was identified as parathion, a highly toxic organophosphorus pesticide. In conclusion, analysis of various items supported the epidemiologic hypothesis that bread was made from contaminated flour and that the flour became contaminated with parathion during a truck shipment⁹. Other disease burdens are cholera, Lassa fever, measles and now Ebola, which took the lives of many Sierra Leoneans. Sierra Leone still experiences the biggest burden of public health events in terms of morbidity and mortality. Over time, the country has also experienced an increased burden of non-communicable diseases, such as diabetes and cardiovascular conditions. Even though the country has established some institutions (Environmental Protection Agency and Nuclear Safety and Radiation Protection Agency) to detect and monitor the effects of chemicals and radio-nuclear hazards, the burden due to chemical and radio-nuclear hazards is not clearly known as the country lacks a clear detection, documentation and reporting system for these events¹⁰.

Lassa Fever Cases Reported Annually, Sierra Leone, 2007-2017 (n=782)

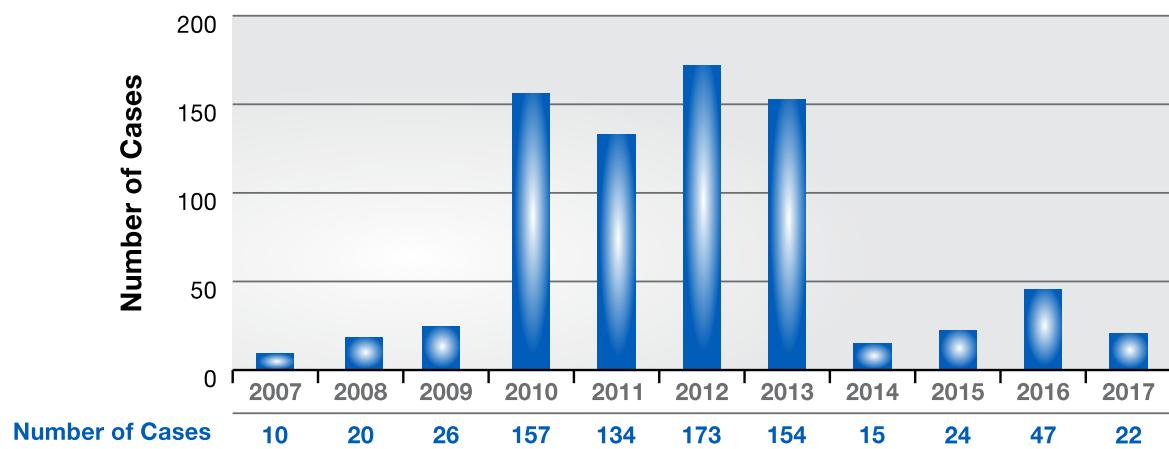


Figure 2: Lassa Fever Laboratory Confirmed Cases in Sierra Leone, 2007- 2017

Table 1: Cholera Epidemics in Sierra Leone, 1998 to 2013¹¹

Year	Cases	Deaths	CFR %	Remarks
1998	2096	57	2.7	Affected 3 districts: Freetown, Port Loko & Kambia
1999	863	5	0.6	Started in September
2004	513	42	8.2	Affected Western Area, Port Loko & Kambia
2006	2560	99	3.8	Affected Western Area (rural) Kambia, Tonkolili, Port Loko & Kailahun
2007	2219	84	3.79	Affected 11 out of 13 districts

8 https://www.statistics.sl/wp.../final-results_-2015_population_and_housing_census

9 <https://www.ncbi.nlm.nih.gov/labs/articles/2395340/>

10 Sierra Leone Demographic Health Survey 2013, WHO Country Cooperative Strategy 2017-2021

11 Directorate of disease prevention and control Ministry of Health and Sanitation

Year	Cases	Deaths	CFR %	Remarks
2008	62	1	1.6	Affected Western Area, Port Loko & Kambia
2012	22,971	299	1.3	Affected 12 out of 13 districts
2013	369	2	0.54	Affecting 12 out of 13 districts

Table 2: IDSR diseases/conditions/events reported in Sierra Leone, 2016 and 2017¹²

Year	2016			2017		
	Cases	Deaths	CFR (%)	Cases	Deaths	CFR (%)
Acute Flaccid Paralysis	57	0	0	75	1	1.3
Acute Jaundice Syndrome	26	2	7.7	32	1	3.1
Acute Viral Hemorrhagic Fever	79	25	31.6	84	23	27.4
Adverse Effect Following Immunization	125	0	0	88	0	0
Animal Bites	2,132	27	1.3	1,482	8	0.5
Suspected Anthrax	0	0	0	0	0	0
Suspected Buruli ulcer	0	0	0	2	0	0
Suspected Cholera	1	0	0	35	0	0
Suspected Chikungunya	0	0	0	0	0	0
Suspected Dengue Fever	0	0	0	3	0	0
Diarrhea with severe dehydration in Under Fives	26,152	106	0.4	9,679	108	1.1
Suspected Dracunculiasis	0	0	0	1	0	0
Bloody diarrhea	6,824	41	0.6	3,269	8	0.2
Suspected Measles	8,133	31	0.4	2,744	1	0
Severe malnutrition (MUAC < 11.5cm) in Under Fives	26,652	174	0.7	26,161	168	0.6
Suspected Malaria cases	2,732,006			2,937,010		
Malaria tested	2,699,157			2,923,401		
Malaria positive	1,622,948	2,512	0.2	1,649,644	2,257	0.1
Suspected Meningococcal Meningitis	68	10	14.7	44	8	18.2
Maternal Death		618			490	
Suspected Monkey pox	0	0	0	15	0	0
Neonatal Tetanus	36	13	36.1	43	12	27.9
Suspected Plague	0	0	0	0	0	0
Suspected Influenza due to new subtype	0	0	0	0	0	0
Severe Pneumonia	88,568	469	0.5	25,559	449	1.8
Suspected Small pox	0	0	0	0	0	0
Suspected Typhoid fever	75,097	317	0.4	81,598	53	0.1
Suspected Yellow fever	51	1	2	52	0	0

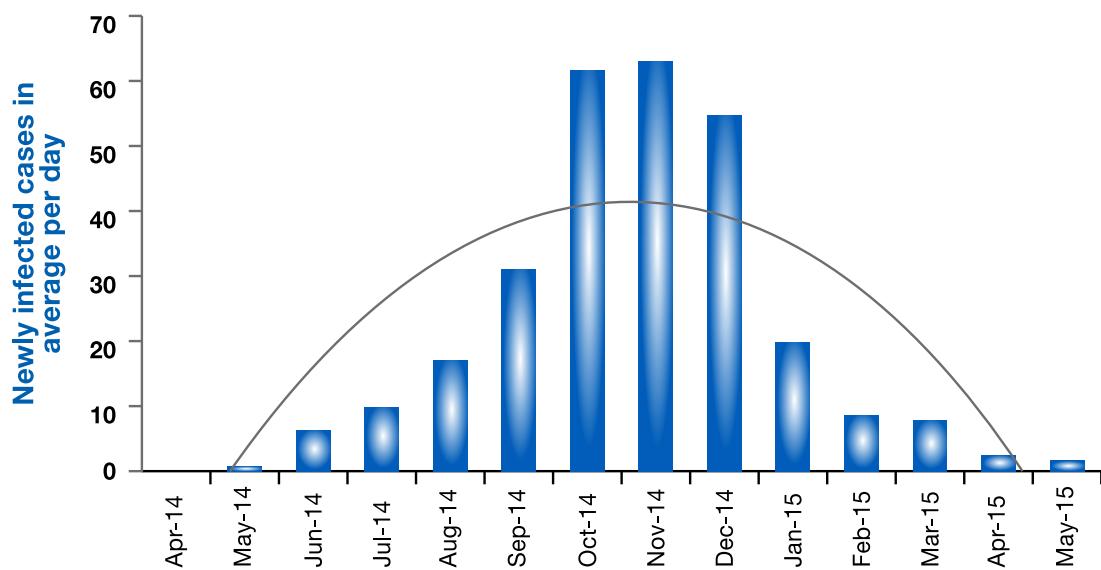


Figure 3: EVD outbreak in Sierra Leone, 2014 - 2016¹³

The overall life expectancy in Sierra Leone is 58.61 years. Infectious diseases are the leading cause of death and disease in Sierra Leone, of which malaria is the single biggest killer, accounting for 38% of all hospital admissions¹³. Tuberculosis is another significant public health problem, with an estimated three new infections per 1,000 each year. The national HIV prevalence rate is at 1.5%¹⁴.

Sierra Leone was severely hit by the most widespread Ebola virus disease epidemic in history. In total, 8,706 infections were recorded, of which 3,590 died between May 2014 and March 2016. The risk of epidemics and other public health concerns remains high with 4,000 survivors¹⁵. In 2015, the country was estimated to have the world's highest maternal mortality ratio, at 1,360 maternal deaths per 100,000 live births¹⁶. Child mortality is also very high, with over 103 of every 1000 children dying before the age of five years. Almost one third of under-five children suffered from stunting in 2014¹⁷.

1.1.5 Progress towards achievement of international and national targets in health indices

The GHSA was launched in 2014 with the aim to build country capacity to control infectious diseases through a multi-lateral and multi-sectoral approach. In early 2016, Sierra Leone became one of 50 partner countries to endorse the Global Health Security Agenda (GHSA). The Ministry of Health and Sanitation (MoHS) in collaboration with Ministry of Agriculture and Forestry, (MAF), Office of National Security (ONS), Civil Society Organizations (CSOs) and partners developed a 5-year GHSA roadmap in April 2016 following an assessment of the twelve technical areas. The 2016 JEE complemented this initiative and revealed challenges in the implementation of 19 IHR core capacities. Progress has been made to address some of these challenges by the launching of the one health platform at national and regional levels which is geared to enhance coordination of multi-sectorial response to health threats.

With support from WHO, the MoHS in 1999 established a surveillance unit that focused primarily on Acute Flaccid Paralysis (AFP), measles, yellow fever, and neonatal tetanus. In 2004, Sierra

13 <http://www.sciencedirect.com/science/article/pii/S1201971215001848>

14 Sierra Leone Demographic Health survey 2013

15 Sierra Leone National EVD SitRep

16 Geoba.se:Gazetter-Sierra Leone-2017-Statistics and Ranking

17 Geoba.se:Gazetter-Sierra Leone-2017-Statistics and Ranking

Leone adopted the Integrated Diseases Surveillance and Response (IDSR) strategy and adapted the technical guideline with the selection of 22 priority diseases. The country successfully rolled out IDSR in all government health facilities and some private and mission facilities also having representatives. The country has also rolled out the electronic integrated diseases surveillance and response (e-IDSR) into the District Health Information System (DHIS2) in all districts in 2016. In 2008, further revision of the IDSR guidelines was conducted to include the International Health Regulations (IHR) 2005. At that time, the list of priority diseases was updated to 37, with inclusion of non-communicable diseases as well as other emerging/re-emerging diseases such as dengue, trachoma, anthrax, and human influenza caused by a new sub-type. In 2015, the list of priority diseases was revised and updated from 37 to 47 diseases including Ebola. The majority of these diseases are reported on a weekly or monthly basis. Reporting completeness rate has steadily improved over the years from 74.5% in 2013 to 80% in 2014 and stands at 97% as of September 2017¹⁸. Eighty-one (81) officers, including veterinarians, at the national and district levels have been trained in frontline Field Epidemiology through the CDC FETP. There has also been good progress in reaching the suspected outbreak performance indicators; detection rate (90%), Notification within 24hrs (83%), Rapid response within 48hrs (90%) and lab results received within 7days (72%) as of September 2017¹⁹.

Table 3: Demographic and Health indicators, Sierra Leone

Demography and Population	Indicator	Data Source
Population (number)	7,092, 113	SL Population and Housing Census 2015
Population Under 5 years	1,255,304	SL Population and Housing Census 2015
Population Under 15 years	2,900,674	SL Population and Housing Census 2015
Population of Women of Childbearing Age	1,574,449	SL Population and Housing Census 2015
Population of expected pregnancy	312,053	SL Population and Housing Census 2015
Infant mortality rate (per 1000)	110	SL DHS 2013
Under-five mortality rate (per 1000)	175	SL DHS 2013
Maternal Mortality Ratio (per 100,000)	1,360	SL DHS 2013
Life Expectancy – Male (years)	55.99	Geoba.se:Gazetter-Sierra Leone-2017-Statistics and Ranking
Life Expectancy – Female (years)	61 .30	Geoba.se:Gazetter-Sierra Leone-2017-Statistics and Ranking
HIV Prevalence	1.5	SL DHS 2013
Total Fertility Rate	4.9	SL DHS 2013
Contraceptive Prevalence Rate	16.6	SL DHS 2013
Neonatal Deaths per 1000	42.5	SL DHS 2013
Proportion of fully Immunized Children	78.6	SL DHS 2013
Proportion % of deliveries conducted by skilled attendant	68.5	SL DHS 2013

18 IDSR weekly bulletin Directorate of disease prevention and control

19 WHO weekly Integrated disease surveillance response presentation

Demography and Population	Indicator	Data Source
Proportion % of women of reproductive age receiving family planning	20	SL DHS 2013
Proportion % of pregnant women attending 4 ANC visits	77	SL DHS 2013
Proportion % of infants under 6 months on exclusive breastfeeding	32	SL DHS 2013
Proportion % of new-born with low birth weight	7	SL DHS 2013
Proportion of under 5 who are underweight	16	SL DHS 2013

1.1.6 Health Service Organization

Sierra Leone's health service delivery system is diverse; comprising of Government, religious missions, local and international NGOs and the private sector. There are also public, private for profit, private non-profit and traditional medicine practices. The private health facilities operate under the authority of individual owners and/or boards of directors, mainly in urban areas. The Traditional healers and Traditional Birth Attendants (TBAs) are known to provide a significant amount of healthcare services across the country. The Ministry of Health and Sanitation is responsible for overall policy direction and is organized into two main divisions at the central level: medical services and management services. At the district level, the same two-division approach is adopted; district health services and the district health management both under the leadership of District Medical Officer (DMO). Overall, the health service organization is based on the Primary Health Care concept. The public health delivery system comprises of three levels: (a) peripheral health units (Community Health Centre, Community Health Posts, and Maternal and Child Health Posts) for primary health care; (b) district hospitals for secondary care; and (c) regional/national hospitals for tertiary care²⁰.

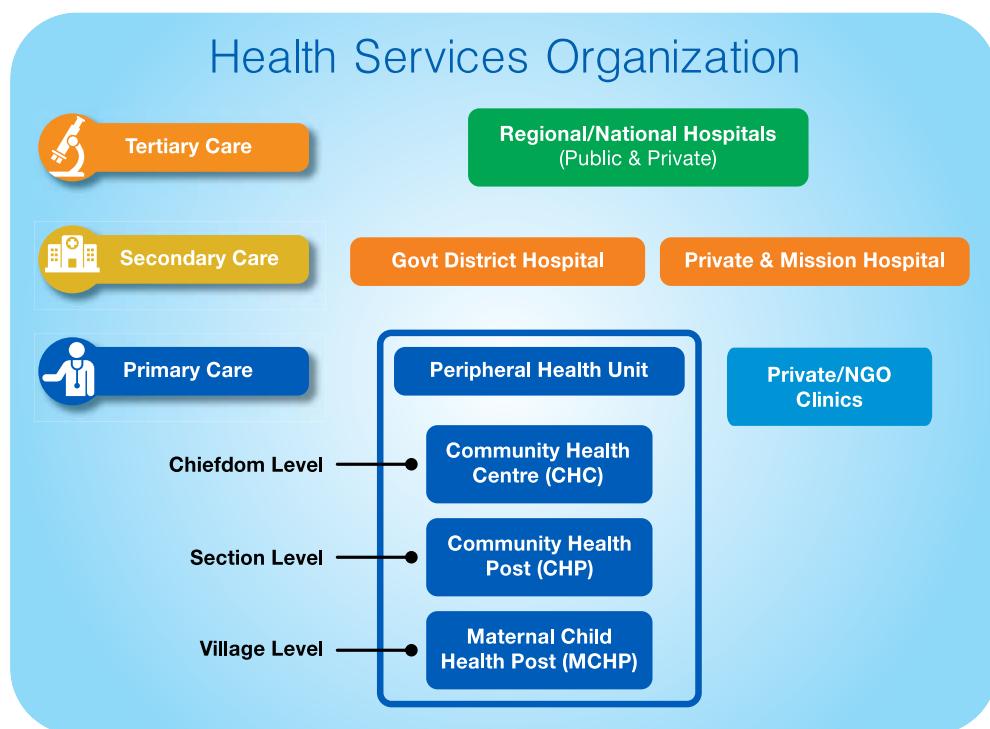


Figure 4: MoHS Health Care Services Organization²¹

Table 4: showing Health facility distribution

Category of Health Facility	Number in existence
Hospitals	58
CHC	231
CHP	341
MCHP	639
CLINIC	54
OTHER	5

1.1.7 Human Resource for Health

As of 2010, Sierra Leone had only two skilled providers per 10,000, ranking the country the fourth lowest out of 49 priority low and middle income countries for health worker-to-population ratios²². A survey of the payroll data and the HRIS database in 2015 found that the country had 275 doctors, 291 midwives, 1,394 nursing officers and state registered nurses and 2,815 state-enrolled community health nurses in the civil service. The health workforce suffered with the precipitated deaths of 221 health workers during the EVD outbreak in 2014 and 2015.

Sierra Leone therefore faces a chronic shortage of skilled human health resources. In order to meet the WHO minimum standard of 22.8 skilled health workers per 10,000 population, Sierra Leone requires approximately 14,000 more health workers²³.

1.1.8 Health Financing

Health care costs remain very high in Sierra Leone, resulting in poor utilization (on average 0.5 visits per person per year) of health services. Since the end of 2008, the 19 local councils (12 district councils, 5 city councils, the Freetown City Council and the Western Area Rural Council) are now responsible for managing health care delivery services in the country. Since 2005, tied grants amounting to about a quarter of the national health budget were transferred to the Local Councils for the District Health Management Team (DHMT). These grants cover activities such as vaccination campaigns, epidemic control, infrastructure improvements and expansion, and the operational expenses of the DHMT. The per capita total expenditure on health services is approximately \$95 USD. The biggest contribution (76%) to this expenditure is from individual service seekers who pay for the user fees (out of pocket expenditure) while 16% is from the government and 13% comes from donors²⁴. Expenditure on health as a percentage of total government expenditure is 10%, which is still significantly below the 15% target of the Abuja Declaration. The government is heavily reliant on donors and partner organizations for support of its health programs with funds flowing through budget support or directly to the Ministry and implementing partners.²⁴

1.2 The International Health Regulations

From the last half of the nineteenth century, nations started negotiating measures to prevent disease spread within human settlements and across international borders. Despite the progress made, civilian and troop movements during World War I helped propagate crossborder epidemics, including the 1918 “Spanish flu” pandemic that killed 50-100 million people worldwide. During World War II, Allied Forces successfully cooperated in addressing communicable diseases such as malaria, even as other infectious diseases such as typhus and tuberculosis resurged in Europe²⁵.

22 WHO. (2014). “Global Atlas of the Health Workforce” Retrieved February 11, 2015

23 WHO. (2014). “Global Atlas of the Health Workforce” Retrieved February 11, 2015

24 Government-of-Sierra-Leone 2010; WHO 2014, Sierra Leone Demographic Health Survey 2013

International Health Regulations (2005)

A legal instrument binding all UN member states to collaborate to prevent, protect against, control and respond to public health threats.

The infectious diseases landscape however continued to evolve, with more frequent emerging and re-emerging diseases and conditions like Ebola and HIV.²⁶ This led to the revision of the International Health Regulations IHR (1969) to IHR (2005), which went in effect in 2007.²⁷

The purpose and scope of the IHR are to prevent, protect against, control and provide a public health response to the international spread of disease and public health risks, to avoid interference with international traffic and trade. The potential hazards include infections, zoonotic diseases, chemical, radio-nuclear and food safety hazards.

1.2.1 IHR Core Capacities

The revised regulations obligate countries to establish and maintain core capacities for timely detection, confirmation, assessment and reporting of public health emergency of international concern (PHEIC). The regulations also confer new responsibilities and authority on WHO to guide coordination and implementation of international response to public health emergencies. The IHR (2005) capacity areas are:

1. Legislation and Financing
2. IHR coordination and National IHR Focal Point Functions
3. Zoonotic Events and Human-Animal Interface
4. Food safety
5. Laboratory
6. Surveillance
7. Human Resources
8. National Health Emergency Framework
9. Health Service Provision
10. Risk Communication
11. Points of Entry
12. Chemical Events
13. Radiation emergencies

However, there are several components of these capacities that should be addressed. The Global Health Security Agenda (GHSA) action plan for example addresses 11 areas which most of them are within these IHR capacities, whereas the Joint External Evaluation (JEE) of IHR considers 19 technical areas. Sierra Leone has conducted several assessments of the capacity to implement International Health Regulations (IHR 2005). To fulfil Article 54 of the IHR 2005, WHO and her partners supported the Joint External Evaluation (JEE) assessment of the 19 technical areas in November 2016. In addition, the GHSA assessment conducted in 2015 led to the five-year roadmap 2016 – 2020.

²⁵ Pizzi, Mario, "International Sanitary Regulations, World Health Organization, Amended 1956. 129 pp. III. Geneva, Switzerland, World Health Organization, 1957

²⁶ The International Health Regulations (2005): Surveillance and Response in an era of globalization, June 2011

²⁷ World Health Assembly, "Revision and Updating of the International Health Regulations," WHA Resolution 48.7

The revised International Health Regulations (IHR) were adopted in 2005 and entered into force in 2007. Under the IHR, States Parties are obliged to develop and maintain minimum core capacities for surveillance and response; including at points of entry, in order to detect, assess, notify, and respond to any potential public health event of international concern. These capacities were to be developed by June 2012, with provision for two extensions up to June of 2016. In accordance with paragraph 1 of Article 54 of the IHR, countries must report on IHR implementation to the World Health Assembly (WHA) and the World Health Organization (WHO) Executive Board.

At the Sixty-eighth WHA in 2015, the IHR Review Committee on Second Extensions for Establishing National Public Health Capacities and on IHR (2005) Implementation²⁸ recommended “options to move from exclusive self-evaluation, to approaches that combine self-evaluation, peer review and voluntary external evaluations involving a combination of domestic and independent experts”. The WHO IHR Monitoring and Evaluation Framework was developed to address this recommendation. The Framework consists of four components; one mandatory, Annual Reporting; and three voluntary, exercises (SimEx), after-action reviews (AAR) and joint external evaluations (JEE).

Annual reporting, periodic JEEs and implementing after-action reviews and exercises, along with corresponding efforts for strengthening animal health and other sectors, are recommended as part of an ongoing capacity development, evaluation and monitoring process for IHR (2005) implementation. A common theme is that although evaluation of progress in implementation is an essential step to improving a country's ability to protect the health of its people, it is not an end in itself; rather, it is the start of a process of continuous improvement and review. The JEE, therefore, is one step of this process and should include both broader and longer term planning and programming.

1.3 IHR JEE and other complementary assessments

1.3.1 Joint External Evaluations - JEE

The International Health Regulations, or IHR (2005), represent an agreement between 196 countries including all WHO Member States to work together for global health security. Through IHR, countries have agreed to build their capacities to detect, assess and report public health events. WHO plays the coordinating role in IHR and, together with its partners, helps countries to build capacities. IHR also includes specific measures at ports, airports and ground crossings to limit the spread of health risks to neighbouring countries, and to prevent unwarranted travel and trade restrictions so that traffic and trade disruption is kept to a minimum.

The JEE is a voluntary, collaborative, multi-sectoral process to assess country capacity to prevent, detect and rapidly respond to public health risks occurring naturally or due to deliberate or accidental events. The purpose of the external evaluation is to assess country-specific status, progress in achieving the targets under the IHR, and recommend priority actions to be taken across the technical areas being evaluated. External evaluations are regarded as an integral part of a continuous process of strengthening capacities for the implementation of the IHR. The JEE mission reports are the result of these evaluations.

In 2016, Sierra Leone conducted an internal self-assessment and later a full scale JEE the findings of which were the basis for the development of this NAPHS.

1.3.2 The Global Health Security Agenda (GHSA)

The Global Health Security Agenda (GHSA) was launched in February 2014 to advance a world safe and secure from infectious disease threats, to bring together nations from all over the world

²⁸ http://www.who.int/ihr/B136_22Add1-en_IHR_RC_Second_extensions.pdf?ua=1

to make new, concrete commitments, and to elevate global health security as a national leaders-level priority. The G7 endorsed the GHSA in June 2014. GHSA acknowledges the essential need for a multilateral and multi-sectoral approach to strengthen both the global capacity and nations' capacity to prevent, detect, and respond to infectious diseases threats whether naturally occurring, deliberate, or accidental.

In partnership with U.S. government sister agencies, other nations, international organizations, and public and private stakeholders, CDC seeks to accelerate progress toward a world safe and secure from infectious disease threats and to promote global health security as an international security priority. This aims at preventing and reducing the likelihood of outbreaks, detect threats early to save lives and to respond rapidly and effectively using multi-sectorial, international coordination and communication. The U.S. works with partner countries on nine specific objectives outlined in the GHSA assessment tool to prevent, detect, and effectively respond to infectious disease threats.

Through a partnership of nearly 50 nations, international organizations, and non-governmental stakeholders, GHSA facilitates collaborative, capacity-building efforts to achieve specific and measurable targets, while accelerating achievement of the core capacities required by the World Health Organization's (WHO's) International Health Regulations (IHR), the World Organization of Animal Health's (OIE) Performance of Veterinary Services Pathway, and other relevant global health security frameworks.

The GHSA partnership has aided several countries to move faster towards attainment of capacities spelt out under IHR (2005) and has in addition to individual countries, advisory partners that include the WHO, FAO, OIE, Interpol, ECOWAS, the UN Office for Disaster Risk Reduction (UNISDR), and the European Union.

1.3.3 Risk profiling of public health threats

In September 2016, Sierra Leone conducted a risk profiling exercise, which was validated in June 2017 through an extensive consultative process. This exercise prioritised the risks for which Sierra Leone should be prepared, forming the basis for the development of preparedness and response systems. Results from the assessment of vulnerabilities, impact of the disaster and likelihood of the event happening, capacity to respond or mitigate indicated that Lassa fever (highest risk), followed by floods, wind storms, avian influenza and anthrax (high risk). Most of the other events in the high risk category were infectious diseases and few natural disasters²⁹.

1.3.4 Other assessments if relevant

Chemicals have both beneficial and negative effects on human, animal and ecosystem health. They are part of everyday life, being essential to the growth and sustainability of our communities. Heavy metals such as lead and mercury, persistent organic pollutants (POPs) and highly hazardous pesticides that are either controlled or banned in developed countries continue to be used in Africa with major environmental and health impacts. Today, chemicals are increasingly used to foster the prosperity of a range of economic sectors including health, agriculture, mining, education, research and many industrial processes. A great deal of work remains to be done, therefore, to ensure environmentally sound management of toxic chemicals while at the same time embracing the principles of sustainable development and improvement of the quality of life for humankind.³⁰

1.3.5 The Journey from IHR JEE to Country Planning

The development of the Sierra Leone National Action Plan for Health Security (NAPHS) began with the voluntary enrolment of Sierra Leone among the countries to undertake the JEE. Sierra

29 Report on integrated risk profiling of public health threats in Sierra Leone, 2017

30 Regional Chemical Use Assessment Report, 4th July, 2014

Leone was among the very first nations in Africa to accept to undergo the JEE.

In June 2016, sensitization and advocacy was carried out within government, among health sector stakeholders and beyond. The MoHS made great efforts to sensitize the other ministries on the need for transparency and mutual accountability in the international community as the main reason why an internal self-assessment alone was not adequate.

Between 10th – 14th September 2016, an internal self-assessment was conducted. This was done as a consultative process, with participation of key government sectors and ministries namely: Ministry of Health and Sanitation (MoHS), Ministry of Agriculture and Forestry (MAF), Environmental Protection Agency (EPA), Office of National Security (ONS), Mano River Union (MRU) etc. Several partners and donor agencies participated including WHO, USCDC, China CDC, IOM, UKAid, Public Health England (PHE) and Metabiota provided various forms of support. All the 19 technical areas were scored and the findings were shared and discussed.

Between 31st Oct – 4th November 2016 the JEE was conducted. The stakeholders were gathered once again and it was explained to them that the JEE was indeed a peer review of internal self-assessment conducted a little earlier. The JEE was skilfully conducted by the visiting team of experts. Consensus was achieved on status of implementation of various capacities and prevailing strengths and challenges were agreed upon and documented. Country scores per indicator established, with consensus, and recorded. Priority areas for improvement per technical area identified and record made.

The final Sierra Leone JEE report was published on 17th February 2017 after which the mobilization of stakeholders for post JEE national action planning commenced. The first coordination meetings for health security action planning took place in March 2017. Workshops were held to develop a draft 5 years National Action Plan for health security (NAPHS). Objectives were identified, strategies outlined, activities described and an M & E framework laid out. Later on, a secretariat retreated to finalize drafting and start costing the 5-years NAPHS.

After consolidating the costed plan and finalizing the narrative, the NAPHS underwent a process through which NAPHS activities were prioritized. The most important activities were scheduled for the first 2 years of the 2018-2022 implementation period. Resource mapping was also carried out and stakeholder meetings held to further highlight the unique value of the NAPHS as the formal, unifying document that outlines what activities and investments need to be carried out in the medium-term in order for Sierra Leone to attain the desired capacities required for effective prevention, detection and response to major public health emergencies.

The finalized NAPHS will now be launched, shared internally and externally, approved by Government (with inclusion in the next fiscal year), and further resource mobilization carried out.





2 VISION, MISSION, OBJECTIVES, GUIDING PRINCIPLES AND CORE VALUES OF THE ACTION PLAN

2.1 Vision

A country safe and secure from health and economic consequences of public health hazards.

2.2 Mission

A health system able to prevent, detect and respond to public health threats through all – sector collaboration.

2.3 General Objectives

The objectives that this plan will meet are to:

- Prevent the likelihood and reduce the consequences of outbreaks and other public health hazards.
- Build national capacities for early detection and effective response to public health emergencies and other events of public health concern.
- Foster all-sector partnerships for effective prevention, detection and response to public health emergencies and other events of public health concern.
- Establish a sustainable financing strategy for the attainment of national health security.

2.4 The Core values

A minimum set of principles have been identified to guide behaviour and establish the right environment for inter-sectoral engagement during the implementation of this plan. These are:

- **Strong national leadership:** The success in the implementation of the NAPHS requires a strong strategic leadership from the government. This will be at the core of coordination and streamlining activities by stakeholders with national policies and IHR 2005.
- **Mulita-sectoral collaboration:** The achievement of national and global health security objectives will require deliberate collaboration and cooperation among various stakeholder groups (government, civil society and private sector) and sectors (human health, animal health, environment, national security among others). Stakeholders will leverage knowledge, expertise, reach and resources, benefiting from their combined and varied strengths as they work toward the shared goal of producing better health outcomes.
- **Mutual respect:** Each and every stakeholder in NAPHS implementation is important and makes unique contributions. Any absence of a group or sector would impair achievement of the shared vision.
- **Transparency:** implementation of NAPHS will be done in an environment of mutual openness among all implementing partners to build trust and enhance collaboration towards achieving the shared vision.
- **Community involvement:** For improved outcomes for communities, implementers will seek the aspirations, concerns and values of communities and incorporate them into the decision-making processes.
- **Ethical vision:** All implementing stakeholders will subscribe to a shared vision. The vision will not only be in the interest of NAPHS goals but also to individual agencies as well.
- **Research:** The implementation of the NAPHS will be evidence-based and informed by known best practices and available data.



3 METHODOLOGY/ PROCESS FOR THE DEVELOPMENT OF THE ACTION PLAN

3.1 Review of JEE and other assessments recommendations

In accordance with the WHA recommendation WHA69/5.2³¹ for States Parties to develop National Action Plans within one year of the JEE, the MoHS started mobilizing other government agencies and partner organizations in March 2017 to set in motion plans for the development of the country's National Action Plan for Health Security (NAPHS). The JEE report, which was published in February 2017, identified gaps in capacity and a series of coordination meetings were held under the national One Health coordination platform to move forward in the process. During this preparatory phase:

- GoSL MDAs that are critical for the implementation of the IHR (2005) were identified and sensitized.
- GHSA in-country partners were mapped and advocacy conducted for support to the national action planning process.
- Resources for post-JEE planning were mobilized.
- Technical working groups were constituted and mandated to collate information for use during action planning.

In October 2017, over 75 participants attended a multi-disciplinary and multi-sectoral workshop organized by the Sierra Leone MoHS to develop the country's NAPHS. These in-country experts were drawn from MoHS directorates and disease control programs, other government departments and agencies and partner organizations (WHO, IOM, FAO, US CDC, USAID, China CDC, Public Health England, DFID and GIZ).

A situation analysis of the country's IHR status was conducted to take stock of the current level of capacities for health security. A review of the JEE report, draft 2016 IHR 2-year work plan and the CDC-supported GHSA 5-year country roadmap was conducted in a participatory and inclusive process. This was complimented by discussion and review by the national experts in working groups drawing representation from IHR-relevant sectors. The JEE report recommendations were reviewed for relevance and to ensure existing weaknesses and gaps are addressed per thematic area.

3.2 Prioritisation of activities by technical area

Based on the result of the situation analysis, thematic working groups developed objectives and strategic actions that address the weaknesses and gaps in the country's health security across the 19 thematic areas. Responsible directorates, programs, agencies or authorities for implementation per strategic action were identified and relationships to existing plans, project or activities spelled out. This prioritization process with cross-sector consensus ensured making the best use of resources, ensuring that the greatest needs are addressed and that both the planning and resource allocation are rational and transparent.

Each strategic action was operationalised through development of low level activities with coherence to fully address the priority strategic actions, objectives and situation analysis recommendations. A logical framework for coordination and accountability among stakeholders was developed per activity with identification of level of responsibility, output indicators, implementation assumptions and implementation schedule. This will be essential for the monitoring and periodic review of implementation of the plan and inform necessary adjustments to the plan. The prioritization process will ensure that stakeholders are working towards common goals and expected outcomes.

³¹ http://apps.who.int/gb/ebwha/pdf_files/WHA69/A69_21-en.pdf

3.3 Linkage with other programmes/initiatives

In the process of developing the plan, a comprehensive review of the strategic actions was conducted to identify overlap with existing plans, programs and activities. While taking note of this overlap for synergy and integration, necessary adjustments in the plan were made for efficiency and to eliminate duplication.

The MoHS has ensured that proposed activities are linked with the draft National Health Sector Strategic Plan. This NAPHS is also linked with other on-going national strategies, programs and projects including the Health Sector All Hazard Emergency Preparedness and Response Plan, the REDISSE project, the One Health coordination framework, the 5-year GHSA roadmap, the Environment Protection Agency Strategic Plan 2017-2021 and the Sierra Leone Agenda for Prosperity. These linkages will enhance adequate and sustainable resource allocation, advocacy, monitoring, accountability and efficiency during implementation.

3.4 Sector Wide Approach

Preparedness for and management of health security threats requires a coordinated multisectoral approach as capacities for surveillance, identification of threats, laboratory confirmation, risk assessment, response and coordination of efforts may involve many sectors outside human health. The process of developing the NAPHS adopted a Sector Wide Approach (SWAp) with the government agencies working together with development partners. During the preparatory period leading to the JEE and to the development of the NAPHS, the MoHS took leadership and mapped all government agencies and partner organizations who play a role in implementing health security activities. This widened the scope of participation in conducting the JEE and in action planning.

The SWAp strategy has created an environment of dialogue on the status of implementation of IHR (2005), existing challenges and gaps, health sector priorities needs, mechanisms for inter-sectoral collaboration to address these and monitoring and evaluation. This is hoped to streamline government and partner support to the strengthening of the country's health security while aligning these to the priority needs. The stronger national leadership and ownership of the process will also strengthen partner coordination and countrywide implementation of the plan.



Figure 5: Benefits of the SWAp

3.5 Strategic partnership planning workshop scope and objectives

In line with the WHO Strategic Planning Portal (SPP) framework, Sierra Leone fully kept national and international partner organizations including UN agencies (WHO, FAO, OIE) informed of the preparations and progress during the development of the national action plan. This enabled international partners to support the preparatory activities and the planning workshop.

The MoHS also mobilised strategic partnership with other government ministries and agencies and in-country health partners whose cross-disciplinary expertise was critical to the successful preparation and action planning. This further embeds the One Health approach and integrated health security development in the planning process. The MoHS will take forward this partnership with all relevant stakeholders and existing frameworks (FAO, OIE, Global Health Security Agenda, World Bank and other development agencies) to support the plan for expedited IHR implementation with transparency and accountability in external investment, progress, and the delivery of action plan. Information from the monitoring and evaluation benchmarks will be openly shared including on the WHO SPP platform.



Figure 6: Strategic partnerships for health security – Sierra Leone



4 JEE FINDINGS AND COMPONENTS OF THE NATIONAL ACTION PLAN FOR HEALTH SECURITY

4.1 Planning matrix of priorities

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
Technical Area 1: National Legislation, Policy and Financing			
JEE Indicator 1.1.1: Legislation, laws, regulations, administrative requirements, policies or other government instruments in place for implementation of IHR.			JEE Score: 2
JEE recommendations	<ol style="list-style-type: none"> 1. Hasten the review of Public Health Ordinance and develop related policy guidelines 2. Review other laws touching on the implementation of the IHR and develop their policy guidelines 3. Assess the Environmental Protection Act and MAF* 		
Objective	To ensure adequate administrative and statutory provisions are available for implementation of IHR by December 2018		
1	Develop an inventory of the administrative and statutory provisions relevant to IHR 2005 in relevant Ministries, Departments and Agencies (MDAs)	IHR NFP	Public Health Ordinance, NPHA Strategic and Operational plans
2	Assess the existing administrative and statutory instruments in line with IHR 2005	IHR NFP	Public Health Ordinance, NPHA Strategic and Operational plans
3	Develop or review the administrative and statutory instruments to make them compliant with IHR 2005	IHR NFP	Public Health Ordinance, NPHA Strategic and Operational plans
JEE Indicator 1.1.2: Legislation, policies and administrative arrangements enable compliance with the IHR (2005)			JEE Score: 2
JEE recommendations	<ol style="list-style-type: none"> 1. Sensitize relevant stakeholders on these laws, policies and regulations 2. Improve, update or develop MOUs and other cross-border bilateral agreements to make them more comprehensive beyond EVD 3. Improve multi-sectoral collaboration 		
Objective	To adjust and align legislation, policies and administrative arrangements in compliance with IHR 2005 by end of 2018		
1	Sensitize relevant stakeholders (MDAs, Members of Parliament, Partners) on the aligned documents	IHR NFP/ NPHA	REDISSE project (Public Health Ordinance and Animal Disease Act)
2	Develop a mechanism for inter-sectoral collaboration	IHR NFP/ NPHA	One health, Disaster Management Committee, Public Health Emergency Management Committee
3	Mobilise resources including domestic financing and advocate for creation of IHR budget line	IHR NFP/ NPHA	NHPA Strategic and Operational plans
Technical Area 2: IHR Coordination, Communication and Advocacy			
JEE Indicator 1.2.1: A functional mechanism is established for the coordination and integration of relevant sectors in the implementation of IHR.			JEE Score: 2
JEE recommendations	<ol style="list-style-type: none"> 1. Set up a National IHR Focal Point/Unit within the NPHA (PHEOC) supported by SOPs 2. Commence regular meetings of the National IHR Focal Point with all line ministries and key agencies 3. Build technical capacity for the National IHR Focal Point function by training technical people on IHR implementation areas. 		
Objective	To strengthen IHR NFP for effective coordination, communication and advocacy		
1	Develop guidelines and Standard Operating Procedures (SOPs) for IHR NFP	IHR NFP	Public Health Ordinance, NPHA Strategic and Operational plans
2	Build the capacity of IHR NFP in areas of coordination, communication and advocacy	Heads, MDAs Heads, MDAs IHR NFP	None

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
3	Regular inter-sectoral coordination meetings	IHR NFP	REDISSE project (One health)
4	Logistics support for effective functioning of IHR NFP	IHR NFP	None
5	Monitor and evaluate the implementation of NAPHS	IHR NFP	None
Technical Area 3: Antimicrobial Resistance			
JEE Indicator 1.3.1: Antimicrobial resistance (AMR) detection system in place			JEE Score: 1
JEE recommendations		Integration of AMR in to a comprehensive National Health Laboratory Strategic Plan and the GHSA 5-year roadmap using the One Health approach	
Objective		To integrate AMR surveillance, prevention, and control into the NLSP and GHSA 5-year roadmap using One Health Approach	
1	Integration of AMR plan into the NLSP	Pharmacy Board, MoHS, MAF, EPA	AMR strategic plan, NLSP, Regional AMR framework, One Health Platform
2	In collaboration with training institutions and research facilities, build capacity for detection of AMR at central and regional level		
3	Improve the capacity of CPHRL to monitor quality of AMR detection		
4	Institute specimen management system		
5	Establish a specimen transportation and referral network from peripheral to regional and central		
JEE Indicator 1.3.2: Surveillance system for infections caused by AMR pathogens			JEE Score: 1
JEE recommendations		1. Create monitoring and evaluation framework to ensure routine assessment, data management, analysis and reporting of antimicrobial resistance 2. Ensure reporting of AMR is incorporated into MoHS pathogen reporting systems with plans and procedures for sharing reports for action and strategic planning	
Objective		Establish surveillance systems to identify and monitor AMR pathogens	
1	Develop a multi-sectoral national AMR surveillance system	Pharmacy Board, WHO, MoHS, CDC, LTWG, MAF, EPA	National AMR plan, Africa CDC Regional framework, WAHO work plan 2016-2020, One Health Platform
2	Build multi-sectoral capacity for AMR surveillance		
3	Include AMR as a core component of professional education, training, certification and development		
4	Raise awareness on AMR		
JEE Indicator 1.3.3: Healthcare associated infection (HCAI) prevention and control programs			JEE Score: 2
JEE recommendations		1. Develop an action plan to prevent and monitor incidence/prevalence of HAIs	
Objective		To strengthen facilities to conduct HCAI surveillance and prevention programs	
1	Review and update national HCAI plan	MoHS, MAF, Local Council, EPA	The national HCAI plan, National IPC Action Plan, MTHE, SLMDA, LRB, MoHS, MOF, EPA, One Health Platform
2	Assess burden of HCAI in selected facilities		
3	Support, monitor and evaluate infection prevention and control programs in collaboration with National IPC Unit and stakeholders		

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities	
4	Establish occupational health program for health workers	MoHS, MAF, Local Council, EPA	The national HCAI plan, National IPC Action Plan, MTHE, SLMDA, LRB, MoHS, MOF, EPA, One Health Platform	
5	Strengthening National and community linkages/Partnership for IPC in human, animal, and agricultural sectors	MoHS, MAF, Local Council, EPA	The national HCAI plan, National IPC Action Plan, MTHE, SLMDA, LRB, MoHS, MOF, EPA, One Health Platform	
JEE Indicator 1.3.4: Stewardship Activities			JEE Score: 1	
JEE recommendations		1. Conduct a survey on antibiotic use		
Objective	To establish antimicrobial resistant stewardship to promote appropriate use of antibiotics			
1	To review and update treatment guidelines to include appropriate antibiotic use	MoHS, Pharmacy board, DHMTs, MAF, EPA, District councils	Pharmacy board policy ad guidelines, national testing algorithm, AMR plan, One Health Platform, National IPC Action Plan	
2	To establish treatment and testing algorithm inclusive of antibiotic use			
3	Develop regulation for antibiotic use in animals, agriculture and fisheries			
4	Monitoring of prescription and consumption patterns in both human and animals			
5	Establish antimicrobial stewardship committees at health facilities level			
6	Monitor antimicrobial stewardship programmes			
7	Update the National Medicines Policy to include use of antimicrobial agents			
Technical Area 4: Zoonotic Disease				
JEE Indicator 1.4.1: Surveillance systems in place for priority zoonotic diseases/pathogens			JEE Score: 1	
JEE recommendations		1. Implement a One Health framework with joint planning, data and information sharing and joint response. 2. Strengthen surveillance for zoonoses with the development of country guidelines. 3. Develop and implement one health surveillance policy and framework 4. Strengthen animal health clinical and laboratory services.		
Objective	Establish a Zoonotic surveillance systems for five or more zoonotic diseases/ pathogens of greatest public health concern by 2022			
1	Develop and implement a national Guidelines for zoonotic disease Surveillance	MAF, MoHS	CDC/USAID supported Prioritization workshop	
2	Build laboratory capacity for zoonotic disease surveillance		FAO supporting rehabilitation TEKO Central lab	
JEE Indicator 1.4.2: Animal Health or Veterinarian Workforce			JEE Score: 1	
JEE recommendations		1. Build capacity for animal health or veterinary public health including human resources and organizational structure. 2. Strengthen technical capacity for animal health including technical capacity development programmes.		
Objective	Increase animal health workforce capacity at national level and in at least 80% district levels by 2022			
1	Strengthen technical capacity for animal health workforce	MAF, MoHS	REDISSE, FAO, FETP/CAHW/PREDICT	
2	Establish a sustained mechanism for the recruitment and deployment of animal health specialists into the Public Health sector		One Health platform	

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
JEE Indicator 1.4.3: Mechanisms for responding to infectious zoonoses are established and functional			JEE Score: 1
JEE recommendations	1. Implement a One Health framework with joint planning, data and information sharing and joint response. 2. Establish a policy guideline for multi-sectorial response to zoonosis.		
Objective	Establish a multi-sectorial mechanism for coordinated response to outbreaks of zoonotic diseases by human, and animal sectors at national and district levels by 2022		
1	Operationalize the One Health Platform	MAF, MoHS	REDISSE/FAO/EPT2, One Health platform
2	Develop and implement a guideline for multi-sectorial response to zoonosis		REDISSE/FAO, WHO, USAID, P&R, One Health Secretariat
Technical Area 5: Food Safety			
JEE Indicator 1.5.1: Mechanisms for multi-sectoral collaboration are established to ensure rapid response to food safety emergencies and outbreaks of foodborne diseases			JEE Score: 2
JEE recommendations	1. Accelerate the Parliamentary ratification of the Food Safety bill and establish food safety standards. 2. Establish an interagency coordination platform for strong cooperation among all food safety stakeholders in the country to facilitate the implementation of the food safety programme. 3. Establish a National Food Safety Authority and sanitary court. 4. Develop and disseminate guidelines and training programmes for surveillance, response, diagnostic laboratory testing for food safety. 5. Develop national SOPs for importing and exporting food items 6. Finalize and disseminate the SOPs for the disposal of food items unfit for human consumption.		
Objective	To establish a food safety surveillance and response mechanisms with 50% reporting from identified reporting sites.		
1	Ratify the food and feed safety act		
2	Establish a food safety surveillance and response system	DEHS/MoHS and NFNP	
3	Strengthen capacity for response to food safety incidents		
Technical Area 6: Biosafety and Biosecurity			
JEE Indicator 1.6.1: Whole-of-government biosafety and biosecurity system is in place for human, animal, and agriculture facilities			JEE Score: 1
JEE recommendations	1. Establish and enact legislation and regulations on biosafety and biosecurity		
Objective	Establish and enact legislation and regulations on biosafety and biosecurity. Establish regulatory framework for laboratory practice in line with the national laboratory strategy		
1	Develop comprehensive national policy and guidelines on biosafety and biosecurity	MoHS	GHSA EPT-2 Program, ONS policy, NLS, National IPC policy and guidelines
2	Establish biohazard waste management protocol including decommissioning protocol for all biological agents and equipment.	MoHS	
3	Review and update the National Laboratory Strategic plan 2016-2020 to include Biosecurity	MoHS	
4	Designate biosafety and biosecurity officers in all human, animal and environmental laboratories	MoHS, MAF, EPA	

No	Strategic Actions		Responsible Authority(s)	Related Existing plans/Programs or Activities			
5	Develop national protocols and procedures for the transportation/shipment of biologically hazardous materials		MoHS, MAF	GHSA EPT-2 Program, ONS policy, NLSP, National IPC policy and guidelines			
JEE Indicator 1.6.2: Biosafety and biosecurity training and practices			JEE Score: 2				
JEE recommendations		Establish and enact legislation and regulations on biosafety and biosecurity					
Objective		1. To develop human resource capacity to address biosafety and biosecurity issues nationwide. 2. To create new and upgrade existing infrastructure to meet standard biosafety and biosecurity practices.					
1	Train designated biosafety and biosecurity officers		ONS, MoHS, MAF	GHSA EPT-2 Program, ONS policy, NLSP, National IPC policy and guidelines			
2	Conduct bio-risk assessment in laboratories and health care facilities						
3	Create linkages between human and animal health labs and establish collaboration on bio-risk management						
4	Create new and/ or upgrade existing infrastructure based on bio-risk assessment results						
Technical Area 7: Immunization							
JEE Indicator 1.7.1: Vaccine coverage (measles) as part of national program			JEE Score: 3				
JEE recommendations		1. Devise strategies for accessing hard to reach areas and urban children to achieve the 'reach every child' target. Track the implementation of cMYP (2017-2021)					
Objective		To achieve and sustain at least 95% coverage of measles second dose coverage per year					
1	Strengthen RED/REC strategy in all districts through training of health staff and community engagement		EPI Manager	cMYP (2017 - 2021)			
2	Develop RED/REC plan in every health facility		EPI Manager	cMYP (2017 - 2021)			
3	Conduct regular performance review of implementation of REC strategy		EPI Manager	cMYP (2017 - 2021)			
4	Strengthen AEFI monitoring, reporting and investigation		EPI Manager	cMYP (2017 - 2021)			
JEE Indicator 1.7.2: National vaccine access and delivery				JEE Score: 3			
JEE recommendations		1. Conduct refresher training of District Health Management Teams (DHMTs) on the District Vaccination Data Management Tool. 2. Track implementation of all recommendations of the 2016 cold chain assessment					
Objective		To strengthen the capacity of DHMTs for improved vaccine access and delivery					
1	Build the capacity of DHMTs on DVDMT		EPI Manager	cMYP (2017 - 2021)			
2	Improve the availability and functionality of cold chain						
3	Monitor and Evaluate EPI activities						
4	Improve immunization through outreach services						

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
Technical Area 8: National Laboratory System			
JEE Indicator D.1.1: Laboratory testing for detection of priority diseases		JEE Score: 1	JEE Score: 4
JEE recommendations	1. Establish functional Bacteriological section at the CPHRL		
Objective	To expand lab capacity at the national reference lab to be able to conduct 6 of 10 WHO core tests		
1	Build bacteriological culture testing capacity (Human, animal, environmental health)	MoHS, MAF	GHSA, EPT2 program . Sierra Leone - China bilateral , National Strategic plan , CDC GHSA, Global Fund HSS , One Health Concept
2	Identify priority Zoonotic diseases (Animal health)		
3	Establish testing capability for food safety		
4	Strengthen basic Microbiology (virology, parasitology and bacteriology) testing at district level		
JEE Indicator D.1.2: Specimen referral and transport system		JEE Score: 1	JEE Score: 3
JEE recommendations	1. Finalize and implement draft sample transportation SOPs and policy		
Objective	To institute an effective system for collection, packaging and transport of biological specimens		
1	Establish a comprehensive integrated National policy, guidelines and SOPs on specimen management for human, animal, food and environmental samples	MoHS, MAF	National Lab Strategic plan, REDISSE PLAN,GHSA, PEPFAR
2	Establish a network of specimen transportation at all levels - national and international		
JEE Indicator D.1.3: Effective modern point of care and laboratory based diagnostics		JEE Score: 1	JEE Score: 2
JEE recommendations	1. Establish the regulation for the use of POCT in the country, establish a mechanism for the regulation of POCT laboratory testing, include private laboratories		
Objective	To develop or acquire technologies to optimize POCT at all levels (human and animal health)		
1	Develop an integrated syndromic and laboratory-based POCT algorithm	MoHS, MAF	BPEHS, National laboratory testing algorithm
2	Institute a POCT system and accompanying stock management system		
3	Establish public /private partnership on laboratory commodities supplies		
JEE Indicator D.1.4: Laboratory Quality System		JEE Score: 1	JEE Score: 2
JEE recommendations	1. Complete SLMTA process as part of the quality improvement system		
Objective	Institute a national quality assurance system for human, animal, environment and food safety. To ensure the inclusion and functionality of a National Laboratory Regulatory Board.		
1	Ratify the National Laboratory Regulatory Body	MoHS, MAF	Allied Health Professionals Regulatory Act, SLMTA/ SLIPTA document
2	Establish a National EQA program to address human and animal health at CPHRL		

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities	
3	Establish sustainable capacity building for NQMS			
4	Establish an integrated One Health Laboratory committee			
Technical Area 9: Real Time Surveillance				
JEE Indicator D.2.1: Indicator and event based surveillance systems			JEE Score: 4	
JEE recommendations	1. Finalize roll out of CBS and strengthen event-based surveillance systems. 2. Strengthen animal health surveillance at all level 3. Strengthen private sector involvement in surveillance			
Objective	1. Sustain the existing human surveillance systems 2. Strengthen animal health surveillance systems. 3. Integrate animal and human health surveillance systems			
1	Strengthen event-based surveillance system in context of One Health	MoHS, MAF	Community Based Surveillance (CBS), WHO	
2	Build capacity for surveillance among human and animal health workers in both public and private sectors		One Health Platform	
JEE Indicator D.2.2: Interoperable, interconnected, electronic real-time reporting system			JEE Score: 2	
JEE recommendations	1. Finalize and deploy the electronic surveillance reporting platform that will be integrated and interoperable with other systems			
Objective	Develop, integrate and maintain an interoperable, interconnected, electronic real-time reporting system, for public health and/or veterinary surveillance systems at all levels by 2022			
1	Establish an electronic zoonotic disease surveillance reporting platform	MoHS, MAF	REDISSE, Metabiota-PREDICT	
2	Implement eIDSR at health facility level countrywide	MoHS	WHO/IDSR, REDISSE, CDC/eHealth Africa, FOCUS 1000, University of Oslo, HISP	
3	Integrate the IDSR electronic reporting platform with zoonotic surveillance electronic platform and identified sectors to make it interoperable	MoHS, MAF	FAO, WHO/IDSR, REDISSE, Metabiota-PREDICT	
JEE Indicator D.2.3: Integration and analysis of surveillance data			JEE Score: 4	
JEE recommendations	1. Increase capacity for data analysis, interpretation and application at all levels			
Objective	Strengthen capacity for data analysis at all levels by 2022			
1	Build capacity for data analysis among human and animal health workers	MoHS, MAF	WHO, FAO, REDISSE, FETP	
2	Improve ICT to support data analysis for surveillance at all levels			
JEE Indicator D.2.4: Syndromic surveillance systems			JEE Score: 4	
JEE recommendations	1. Increase capacity for a resilient syndromic surveillance system to include animal and environmental health			
Objective	Enhance the performance of the syndromic surveillance system and expertise by 2022			
1	Strengthen capacity for syndromic surveillance among human, animal and environmental health workers at all levels	MoHS, MAF	WHO, FAO, REDISSE, FETP	

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
2	Operationalize the mechanism for collaboration and coordination between human and animal health sector in the context of One Health		
Technical Area 10: Reporting			
JEE Indicator D.3.1: System for efficient reporting to WHO, FAO and OIE			JEE Score: 3
JEE recommendations		1. Designate and train all ministry and sector focal point personnel so as to constitute a National IHR Focal Point team. 2. Further training for National IHR Focal Point and OIE focal point personnel and other ministry and sector representatives. 3. Develop legislation and policies for reporting 4. Develop regional multilateral and bilateral arrangements for information sharing.	
Objective		By 2022, strengthen capacity to identify any potential PHEIC and report within 24 hours to WHO, FAO and OIE.	
1	Operationalize the National IHR Focal point	MoHS, MAF	WHO, FAO/OIE, One Health, REDISSE, Metabiota-PREDICT
2	Build technical capacity among the National IHR Focal Point team.		
3	Develop a system of simulation exercise for reporting to WHO, FAO and OIE		
4	Develop a legal framework for information sharing with neighbouring countries		
JEE Indicator D.3.2: Reporting network and protocols in country			JEE Score: 2
JEE recommendations		1. Develop guidelines and SOPs for reporting 2. Develop a national multi-sectoral arrangement for information sharing within the One Health context	
Objective		Develop and establish protocols, processes, regulations and legislation governing reporting to be implemented by 2020.	
1	Develop and implement national guidelines and SOPs for notification of PHEIC events and mechanisms for sharing information between key sectors		
2	Strengthen the reporting capacity for priority zoonotic diseases		
Technical Area 11: Workforce Development			
JEE Indicator D.4.1: Human resources are available to implement IHR core capacity requirements			JEE Score: 2
JEE recommendations		1. Develop minimum standards for animal and human health staffing levels that include (among others) social scientists and revisit HRH strategies for their inclusion. 2. Work on retention strategies for animal health staff. 3. Fast track the recruitment process into vacant posts.	
Objective		Establish a Multidisciplinary Public Health HR capacity at National and District levels by 2022	
1	Strengthen the Public Health HR capacity for IHR compliance	MoHS, MAF, MTHE, CDC, CHAI, CO- MAHS, Njala University	FETP/CDC

No	Strategic Actions		Responsible Authority(s)	Related Existing plans/Programs or Activities
JEE Indicator D.4.2: Field Epidemiology Training Program or other applied epidemiology training program in place				JEE Score: 3
JEE recommendations		1. Develop plans for the sustainability of the basic field epidemiology and laboratory training programme (FELTP) that includes veterinarian and laboratory staff and for advanced training in the western African Region to expand developed capacities.		
Objective		Establish three levels of FETP/FETPV/FELTP (Basic, Intermediate and Advanced) in Sierra Leone or through an agreement with another country by 2022		
1	Increase national workforce of epidemiologists		MoHS, MAF	FETP, CDC
2	Establish a mechanism of complete ownership of FETP by the MoHS			
JEE Indicator D.4.3: Workforce Strategy				JEE Score: 1
JEE recommendations		1. Develop a workforce strategy for public health taking One Health approach		
Objective		Adapt the national healthcare workforce strategy to include public health professionals in accordance with the One Health approach by 2022		
1	Develop and implement a public health HRH strategy to include speciality areas in line with One Health approach*		MoHS, MAF, MOF	PHE supporting NPHA (under development), eHealth Africa, CHAI
Technical Area 12: Preparedness				
JEE Indicator R.1.1: Multi-hazard national public health emergency preparedness and response plan is developed and implemented				JEE Score: 1
JEE recommendations		1. Develop and implement multi-hazard a NPHEPR plan that includes a costing element, Develop a stockpiling emergency plan and establish mechanisms for accessing funds for emergencies and supplies		
Objective		To have an all hazards plan for the health sector that is 'one health compliant' by 2018 2. To have a system by 2018 for stockpiling of supplies and a mechanism for faster access of resources during emergencies.		
1	Develop a one-health compliant all hazards plan		Director DHSE & DVS	All hazards plan completed, plus individual plans for cholera, floods disaster, EVD and Zika.
2	Establish a system for stockpiling of supplies and accessing resources during emergencies.		Incident Manager EOC & Director Central Medical Stores	
JEE Indicator R.1.2: Priority public health risks and resources are mapped and utilized				JEE Score: 1
JEE recommendations		1. Conduct risk and resources mapping of all priority public health risks.		
Objective		To have a comprehensive vulnerability and risk assessment with resource mapping and mobilization for identified hazards by 2019		
1	Establish a comprehensive risk and resource mapping of priority public health hazards		Incident Manager EOC	Risk profiling done, cholera, EVD, Zika and flooding.

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
Technical Area 13: Emergency Response Operations			
JEE recommendations	JEE Indicator R.2.1: In addition to activities for developed capacity, there is a dedicated EOC staff that have received training and can activate a response within two hours.	JEE Score: 4	
Objective	To have a Surge capacity staff available and prepared to respond at the various levels by 2018 2. Raise the proportion of EOC operations budget supported through core government funding to 50%		
1	Capacity building for surge personnel	IOC Incident Manager	REDISSE
2	Develop a costed strategic plan for EoC		
JEE Indicator R.2.2: Emergency Operations Centre Operating Procedures and Plan			
JEE recommendations	1. Finalize key SOPs for EOC functions 2. Support capacity development in human and animal health epidemiology		
Objective	Put in place SOPs for EOC emergency operation functions by 2018, 2. To have epidemiology capacity in both animal and human health by 2018		
1	Strengthen procedures and plans for EOC emergency operation functions	IOC Incident Manager	PHE, WHO, CDC
2	Build epidemiology capacity of human and animal health personnel	MoHS, MAF, FETP	PHE, FETP, CDC
JEE Indicator R.2.3: Emergency Operations Program			
JEE recommendations	1. Develop curriculum and institutionalized EOC and simulation training programmes.		
Objective	Strengthen EOC Emergency response operations by 2018		
1	Develop a curriculum for training of EOC staff to respond to PHE	IOC Incident Manager	
JEE Indicator R.2.4: Develop a comprehensive epidemic preparedness and response plan with related case management guidelines for epidemic prone diseases			
JEE recommendations	1. Develop a comprehensive epidemic preparedness and response plan with related case management guidelines for epidemic prone diseases		
Objective	Establish a national outbreak preparedness and case management guidelines for epidemic prone diseases by 2018		
1	Develop national outbreak preparedness and case management guidelines for epidemic prone diseases	IOC Incident Manager	WHO, Clinicians training in surveillance
Technical Area 14: Linking Public Health and Security Authorities			
JEE recommendations	Create a formal agreement to give guidance and improve coordination and collaboration between public health and security authorities.2 Formalize agreement between security and health at PoEs.		
Objective	To establish an MoU to govern joint planning and response to public health emergencies by public health and security authorities by 2018		
1	Build up a system to improve on coordination and collaboration between public health and security authorities at PoEs		

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
Technical Area 15: Medical Countermeasures and Personnel Deployment			
JEE Indicator R.4.1: System is in place for sending and receiving medical countermeasures during a public health emergency			JEE Score: 2
JEE recommendations	<ol style="list-style-type: none"> Enter agreements with medical countermeasures manufacturers and distributors to accommodate accelerated procurement of medical countermeasures during public health emergencies Expand stocks of medical countermeasures (for example, vaccines, antibiotics, infection control supplies and rapid diagnostic tests) to cover all-hazard emergency contingencies, including zoonotic infections. Enter agreements with medical countermeasure manufacturers and distributors to accommodate accelerated procurement of medical countermeasures during public health emergencies. Improve access to veterinary countermeasures by leveraging existing supranational partnerships, for example, OIE Canine Rabies Vaccine Bank. Develop a distribution matrix for veterinary countermeasures for utilization at both national and regional levels. 		
Objective	A one-health compliant strategic national stockpile of medical commodities for use in public health emergencies is established in Sierra LEONE BY 2020		
1	Support the development of MOUs with manufacturers and suppliers of medical countermeasures for public health emergencies	MoHS, MAF	
2	Reach an agreement with Manufacturers and distributors for Expedited procurement of medical countermeasures during public health emergencies		
3	Establish regulations for vetting donations of medical supplies to align with pharmacy board requirement		
JEE Indicator R.4.2: System is in place for sending and receiving health personnel during a public health emergency			JEE Score: 1
JEE recommendations	1. Develop or update plans for sending and receiving health personnel during a public health emergency		
Objective	Establish a system for sending and receiving health personnel during a public health emergency		
1	Empower health professionals' regulatory bodies to issue temporary licences and perform background checks on foreign professionals and volunteers.	MoHS, MAF	
2	Maintain data base of trained health personnel who are willing to be deployed externally	MoHS, MAF, Professional bodies	
Technical Area 2: Risk Communication			
JEE Indicator R.5.1: Risk Communication Systems (plans, mechanisms, etc.)			JEE Score: 3
JEE recommendations	1. Finalize the draft EOC communications strategic plan.2 Develop a training plan to meet the capacity gaps in risk communication		
Objective	To complete EOC communications strategic plan by 2018. 2 .To develop a training plan by 2018 that will guide capacity building activities in risk communication.		
1	Finalize the EOC communications strategic plan.	EOC Communications Lead	Draft EOC communications strategic plan
2	Build human capacity in risk communication		

No	Strategic Actions		Responsible Authority(s)	Related Existing plans/Programs or Activities			
JEE Indicator R.5.2: Internal and Partner Communication and Coordination			JEE Score: 4				
JEE recommendations		1. Establish a formal mechanism to coordinate communication with the private sector during an emergency.					
Objective		To have a formal mechanism in place by 2018 to coordinate communication with the private sector during an emergency					
1	Strengthen formal mechanism to coordinate communication with the private sector during an emergency		EOC Management, EOC Communications Lead, ONS				
2	Sustain regular communications with partners		EOC Management				
JEE Indicator R.5.3: Public Communication			JEE Score: 3				
JEE recommendations		1. Sustain feedback loops between district teams and communities within localities					
Objective		To have risk communications focal persons in each district by 2018 (health sector) that will serve as communication link between the district and the community					
1	Capacity building for risk communication in the district		MoHS, MAF, EPA	Draft EOC communications strategic plan			
2	Community engagement meetings						
3	Media engagements for risk communications						
4	Develop messaging and materials for risk communication						
JEE Indicator R.5.4: Communication Engagement with Affected Communities			JEE Score: 2				
JEE recommendations		1. Allocate a dedicated budget line in MoHS and MAF for addressing communications response					
Objective		To establish a dedicated budget line by 2018 for addressing risk communications re-sponse in MoHS & MAF					
1	Create a dedicated budget line for addressing risk communications response in MoHS & MAF		MoHS, MAF				
JEE Indicator R.5.5: Dynamic Listening and Rumour Management			JEE Score: 3				
JEE recommendations		1. Methods for effective monitoring of messages used to disprove rumours or correct information should be put in place.					
Objective		To enhance MoHS capacity to disapprove rumour during public health emergencies					
1	Establish methods to give sound , accurate and timely information to prevent and counter rumours		MoHS, MAF				
Technical Area 17: Points of Entry							
JEE Indicator PoE.1: Routine capacities are established at PoE			JEE Score: 2				
JEE recommendations		1. Develop policy, SOPs, guidelines, plans and tools for port health					
2.	Conduct capacity assessments at major border crossings and establish PoEs for their designation						

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
3.	Strengthen the infrastructure and capacity for routine services at PoEs		
Objective To sustain 24 hours routine port health services in four (4) PoEs by 2022			
1	Develop/review Policy for Port health services	MoHS – DEHS, MAF	REDISSE, AU-IBAH
2	Develop Strategic plan for Port Health Services		
3	Develop framework, SOPs, guidelines and tools for border health		
4	Strengthen infrastructure for routine services at PoEs	MoHS - DEHS	WHO, IOM, MANO River Union
5	Build technical capacity for port health services	MoHS - DEHS	
6	Cross boarder engagement for information sharing, joint outbreak response and planning	MoHS - DEHS	
JEE Indicator PoE.2: Effective Public Health Response at Points of Entry			JEE Score: 1
JEE recommendations		1. Finalize/develop public health emergency preparedness plans for PoEs. 2. Strengthen capacity for responding to public health emergencies at PoEs	
Objective To develop, implement and test ECPs at 4 PoEs by 2022			
1	Develop a national public health ER plan for public health emergencies at PoEs	MoHS - DEHS	IOM, REDISSE, WHO, CDC
2	Strengthen capacity for responding to public health emergencies at PoEs	MoHS - DEHS	
Technical Area 18: Chemical Events			
JEE Indicator CE.1: Mechanisms are established and functioning for detecting and responding to chemical events or emergencies			JEE Score: 2
JEE recommendations		1. Develop comprehensive guidelines or manuals on surveillance, assessment and management of chemical events to support the implementation of the strategic plan for chemical safety. 2. Establish a coordination mechanism nationally and at regional and district levels for the detection and response to chemical events and emergencies, to include a public health plan for chemical incidents and emergencies. 3. Advocate for an increase in the number of human resources to meet the needs of chemical safety. 4. Establish a national environmental quality laboratory system 5. Establish a poisons center	
Objective To establish a national chemical surveillance and response system in real time reporting at 50% by 2022			
1	Adequately equip the Chemicals department to monitor chemicals in air, water, waste water, soil, sediments, human and Plant specimen and products for purposes of compliance promotion, research, and enforcement by 2021	EPA - SL	Review and Update of the National Implementation Plan of the Stockholm Convention; National Action Plan for the Artisanal and Small Scale Gold mining; Strategic action Plan (2017-2021) of the Environment Protection Agency (EPA)
2	Promote programmes to develop chemicals-management instruments (national profiles, national implementation plans, national emergency preparedness and response plans).	EPA - SL	
3	Promote chemical exchange information through enhanced networking	EPA - SL	
4	Develop Risk assessment and management framework for pollution and chemicals.	EPA - SL	
5	Develop communication framework for pollution and chemicals management	EPA - SL	

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
6	Increase knowledge of Coastal communities on pollution identification and management control.	EPA - SL	
JEE Indicator CE.2: Enabling environment is in place for management of chemical events		JEE Score: 2	
JEE recommendations		1. Develop a strategic plan for chemical safety 2. Expand on MOU with relevant environmental stakeholders/laboratories 3. Develop an emergency response plan	
Objective		To develop, legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.	
1	Enact Draft National chemicals Management Act 2017	EPA – SL	Draft Chemicals management act, EPA-SL amended act of 2008, Environmental Impact assessment fee regulations
2	Enact Draft regulations for the management of toxic and hazardous substance	EPA – SL	Draft toxic and hazardous substance regulations
3	Develop a comprehensive waste management policy, regulations, plan and guidelines to include emerging waste streams like electronic, chemical wastes and nano-technologies.	EPA – SL	Draft Integrated waste management Policy and Strategy, EPA-SL amended act of 2008
4	Develop/adopt chemical standards in air, water, waste water, sediment/sludge, plant and human specimen, soil, exhaust fumes and products	EPA – SL	Gazetted adopted chemical standards for waste water effluent and air;
5	Develop and enact a National chemical standards regulations for all media	EPA – SL	Research report on common air pollutants from vehicular traffic
6	Enactment of Vehicle maintenance regulation	EPA – SL	
7	Enactment of electronic waste management regulation	EPA – SL	Draft Electronic waste management Policy;
8	Enactment of food waste management regulation	EPA – SL	Public Order Act, 1960
9	Enactment of health care waste management regulation	EPA – SL	Draft Integrated Waste management Policy
Technical Area 19: Radiation Emergencies			
JEE Indicator RE.1: Mechanisms are established and functioning for detecting and responding to radiological and nuclear emergencies		JEE Score: 2	
JEE recommendations		1. Strengthen surveillance for radiological hazards. 2. Improve laboratory capacity for the detection and response to all radiological and nuclear emergencies. 3. Allocate special budget to meet demand in the event of a radiological emergency. 4. Establish national radiological emergency centers 5. Conduct simulation exercises on the appropriate response on radiological emergencies. 6. Strengthen radiation protection on foods and other consumables. 7. Strengthen radiation protection on the use of non-ionising equipment.	
Objective		To strengthen surveillance and response to nuclear and radiological hazards with 50% routine reporting from identified nuclear and radiological hazard sites by 2022	
1	Adequately equipped to monitor radiation (ionising and non-ionising) in air, water, soil, sediments, human and Plant specimen and products for purposes of compliance promotion, research, and enforcement by 2021	NSRPA	

No	Strategic Actions	Responsible Authority(s)	Related Existing plans/Programs or Activities
2	Promote programmes to develop radiation-management instruments (national profiles, national implementation plans, national emergency preparedness and response plans).	NSRPA	
3	Promote radiation information exchange through enhanced networking	NSRPA	
4	Develop Risk assessment and management framework for Radiation management	NSRPA	
5	Develop communication framework for radiation management	NSRPA, EPA – SL	
JEE Indicator RE.2: Enabling environment is in place for management of Radiation emergencies			JEE Score: 2
JEE recommendations		1. Advocate for continued human resources capacity to meet the needs for nuclear and radiation safety. 2. Incorporate responding to chemical and radiological emergencies in the draft public health incident and emergency response plan. 3. Enhance collaboration and communication with the public and other MDAs 4. Review of the existing national radiation protection act	
Objective		To develop, implement and test a national radiation emergency response plan by 2022.	
1	Review Radiation Protection Act	NSRPA	
2	Enact Draft regulations for the management of radiation substances	EPA – SL, NSRPA	Draft toxic and hazardous substance regulations
3	Develop a comprehensive Radioactive waste management policy, regulations, plan and guidelines		
4	Develop/adopt radiation standards in air, water, sediment/sludge, plant and human specimen, soil, and products		
5	Develop and enact a National radiation standards regulations for all media		
6	Enactment of radiation equipment maintenance regulation		
7	Enactment of radiation waste management regulation		
8	Support Radiation management organizational structures and facilities		

4.2 Costing of activities and summary of cost categorisation by JEE thematic areas

The Government of Sierra Leone with the support of partners involved in the JEE process convened a workshop to review and cost the draft NAPHS. This workshop that was held on 7th – 10th November 2017 brought together key government agencies and stakeholders as well as IHR and costing experts from WHO Regional Office and the Headquarters.

The NAPHS contained the realistic activities required to attain the desired objectives as outlined in the recommendations of the JEE process. Further work was then done to identify quantities of goods/services that would be required, estimate the prices and adjust the proposed activities based on costing results.

The activities considered for costing were deemed as realistic, measurable and are expected to exert impact and efficiency to corresponding objective(s). The activities outlined in the NAPHS are those that will allow the country to demonstrate progress from lower to higher scores as per the JEE tool criteria and to maintain the capacities in areas where it has showed good performance (demonstrated capacities). The activities under all technical areas include other sectors (agriculture, livestock, environment, forestry, marine, etc.) to ensure a 'One Health' approach to health system strengthening during NAPHS implementation. The activities follow a sequential or phased approach (year 1, 2, 3-5) for the plan operationalisation and the hope is that the best available data will be used to monitor and evaluate implementation of the NAPHS.

The outcome of the costing exercise is provided here below;

Table 5: Summary of estimated costs of implementing the NAPHS

Thematic area	Total (Leones)	Total (US\$)
Prevent	666,051,723,940	89,402,916
Detect	1,159,177,075,500	155,594,238
Respond	78,883,540,500	10,588,395
Other IHR hazards & points of entry	264,808,587,930	35,544,777
Grand total	2,168,920,927,870	291,130,326

The 5-year cost estimate developed during the planning exercise for implementing the Sierra Leone NAPHS is approximately US\$ 291 million. This high cost may be partly explained by the fact, according to the various assessments carried out, lots of activities have to be implemented for the country to improve its IHR compliance. is due to the fact that there is currently no animal vaccination programme in the country.

4.3 Cost breakdown by JEE thematic area over years

The implementation of the NAPHS covers the period 2018-2022. The costs of implementation are heavier on the first year of the implementation period with the costs almost evenly distributed over the rest of the 4 years.



Table 6: Costs of NAPHS activities by year of implementation

Thematic Area	2018	2019	2020	2021	2022	TOTAL	USD
Prevent	56,256,776,138	56,182,444,338	46,879,879,138	46,816,280,138	56,597,865,138	262,733,244,890	35,266,207
Detect	348,633,434,465	301,937,855,965	310,286,208,040	282,604,417,040	305,869,215,040	1,548,586,130,550	207,863,910
Respond	31,247,654,500	14,041,873,000	18,275,492,667	13,616,199,667	15,611,744,667	92,792,964,501	12,455,431
Other IHR Hazard and POEs	115,594,595,077	100,238,243,077	31,362,706,877	10,318,833,950	7,294,208,950	264,808,587,930	35,544,777
TOTAL (Leones)	551,732,460,179	472,400,416,379	406,804,286,721	353,355,730,795	385,373,033,795	2,168,920,927,870	291,130,326
Total in USD	74,058,048	63,409,452	54,604,602	47,430,299	51,727,924	291,130,326	

4.4 Cost breakdown by technical area over years

Virtually all the technical areas have their costs of implementation of the NAPHS spread over the whole 5 years. The costs are skewed towards the earlier portion of the implementation period. This is subject to change after the broad based stakeholders meeting to prioritize the activities has been held.

Table 7: cost of NAPHS activities by year of implementation

Technical Area	2018	2019	2020	2021	2022	TOTAL	USD
National Legislation, Policy and Financing	932,038,000	637,938,000	-	-	-	1,569,976,000	210,735
IHR Coordination, Communication and Advocacy	8,619,065,000	1,518,485,000	1,756,050,000	2,039,985,000	15,452,070,000	2,074,103	
Antimicrobial Resistance	18,329,707,000	22,665,266,200	20,565,409,000	19,869,850,000	20,007,905,000	101,438,137,200	13,615,857
Zoonotic Disease	20,845,540,138	15,586,729,138	17,053,729,138	18,520,729,138	29,865,089,138	101,871,816,690	13,674,069
Food Safety	2,478,914,000	11,162,701,000	3,379,641,000	2,877,266,000	829,346,000	20,727,868,000	2,782,264
Biosafety and Biosecurity	5,051,512,000	4,611,325,000	4,362,615,000	3,792,385,000	3,855,540,000	21,673,377,000	2,909,178
Immunization	105,089,901,965	65,968,882,965	82,779,663,040	66,700,368,040	82,779,663,040	403,318,479,050	54,136,709
National Laboratory System	15,832,022,500	28,016,551,000	18,473,235,000	12,459,813,000	14,056,242,000	88,092,863,500	11,824,545
Real Time Surveillance	226,975,881,000	207,774,682,000	208,855,570,000	203,265,492,000	208,855,570,000	1,055,727,195,000	141,708,348

Technical Area	2018	2019	2020	2021	2022	TOTAL	USD
Reporting	735,629,000	177,740,000	177,740,000	178,744,000	177,740,000	1,447,593,000	194,308
Workforce Development	3,060,394,000	2,724,740,000	2,708,096,667	2,708,096,667	2,708,096,667	13,909,424,001	1,867,037
Preparedness	2,186,790,000	1,265,480,000	1,265,480,000	1,265,480,000	1,265,480,000	7,248,710,000	972,981
Emergency Response Operations	19,633,632,500	7,159,208,000	7,146,708,000	7,146,708,000	5,486,420,000	46,572,676,500	6,251,366
Linking Public Health and Security Authorities	614,330,000	590,060,000	491,760,000	491,760,000	491,760,000	2,679,670,000	359,687
Medical Countermeasures and Personnel Deployment	67,920,000	384,775,000	713,040,000	67,920,000	67,920,000	1,301,575,000	174,708
Risk Communication	5,684,588,000	1,917,610,000	5,950,408,000	1,936,235,000	5,592,068,000	21,080,909,000	2,829,652
Points of Entry	8,978,513,000	13,764,430,000	10,727,715,000	6,565,715,000	6,241,715,000	46,278,088,000	6,211,824
Chemical Events	89,742,232,000	71,979,143,000	13,582,172,000	2,769,530,000	68,905,000	178,141,982,000	23,911,675
Radiation emergencies	16,873,850,077	14,494,670,077	7,052,819,877	983,588,950	983,588,950	40,388,517,930	5,421,278
TOTAL (leones)	551,732,460,179	472,400,416,379	406,804,286,721	353,355,730,795	385,373,033,795	2,168,920,927,870	291,130,326
Total in USD	74,058,048	63,409,452	54,604,602	47,430,299	51,727,924	291,130,326	



4.5 Prioritization of Activities

The following six-prioritization criteria were used; each was given a weighted score

Table 8: prioritization criteria used

Prioritization criteria	Scoring aggregated approach
1. Low-hanging fruit	1
2. Highest Priority	3
3. Known advocate	1
4. Activity Timing	2
5. Resources Needed	1
6. Existing or Potential Funding	2
Total	10

The first 107 Activities with 10-7 point scores technical area were considered as high priority

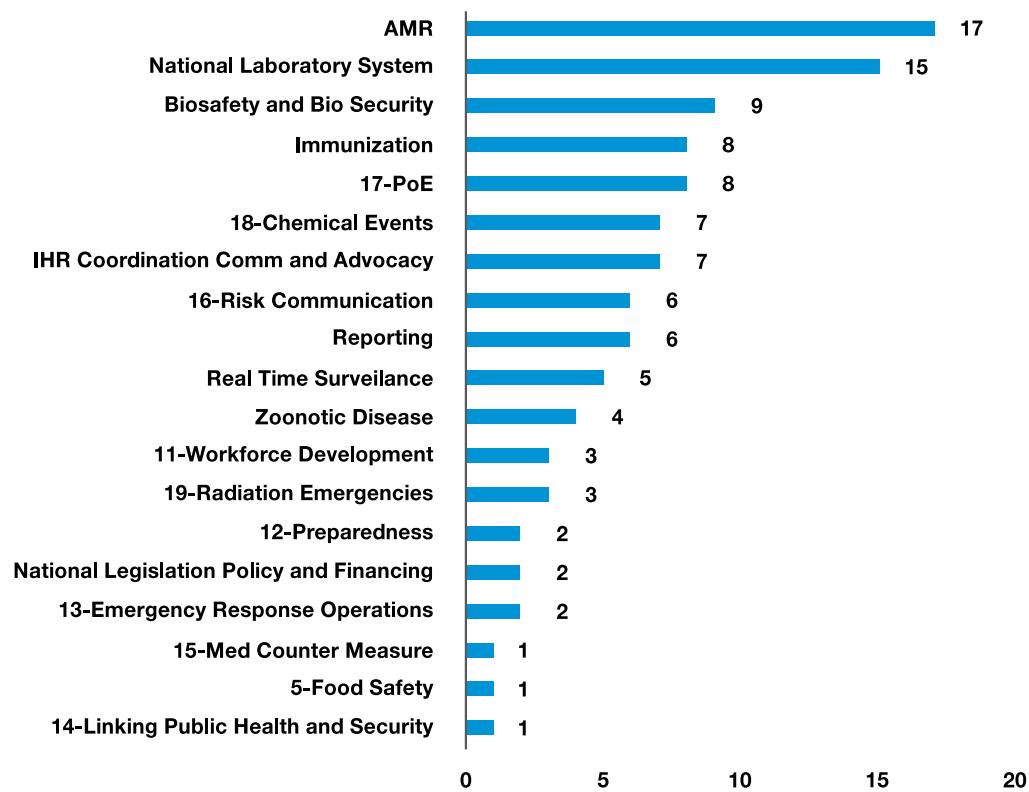


Figure 7: High priority activities by technical area

Budget for the first 107 high priority activities with scores 7-10



Figure 8: Cost of high-prioritized activities by technical area

Table 9: Priority Activities Vs Resource Mapping

Technical Areas	Sum of Dollar equivalent	Existing and Potential Donors and Partners
Biosafety and Biosecurity	818,312	Canada, US - CDC, USAID
Emergency response Operations	672,663	DFID, Italy, Netherlands, Switzerland, UK AID, USAID
Risk Communications	125,246	GIZ, USAID, Breakthrough Action
Preparedness	116,576	DRD, Italy, Switzerland, UK AID, USAID
Reporting	66,683	USAID
Workforce Development	59,191	UK AID, US-CDC, USAID, World Bank
Real Time Surveillance	24,601,790	AfDB, China CDC, DFID, MPTF, US-CDC, USAID, World Bank
Immunization	12,789,086	European Commission, GAVI, Rotary International, US-CDC
AMR	2,460,250	US-CDC, USAID
Chemical Events	1,552,831	European Commission, GEF (Global Environment Facility), MLF (Multi-Lateral Fund)
PoE	1,505,392	CDC, DFID, GIZ, Italy, MBTF, MPTF, MRU, USAID
Zoonotic Disease	1,500,735	USAID
National Laboratory System	1,477,743	Canada Aid, China CDC, Chinese Government, DFID, Dod DTRA, European Union, Global Fund, JICA, UK AID, UNICEF, US-CDC, USAID, World Bank
IHR Coordination, Communication & Advocacy	1,063,554	WHO, CDC, USAID, DFID)

Table 10: Priority Area with the least identified resources

Technical Area	Sum of Dollar Equivalent
Linking Public Health and Security	624,971
Food Safety	440,569
Radiation Emergencies	332,995
National Legislation, policy and Financing	92,897
Medical Counter Measures	17,270

4.6 Sierra Leone Health Security NAPHS financial sustainability

- Value-based investment may take time to realise and careful financial management is needed year to year.
- Estimating the certainty that domestic or donor resources are sustainable each investment year will allow the country to manage and mitigate the risk.
- Long-term progress against the IHR requirements are more likely to be met using long-term financial planning methods.
- The resource mapping exercise should be reiterated on a smaller scale and with a degree of regularity to ensure appropriate adjustments are made.

4.7 Summary of cost analysis

The 5-year cost estimate developed during the planning exercise for implementing the Sierra Leone NAPHS is approximately **US\$ 291 million**. The costs of implementation are heavier on the first year of the implementation period with the costs almost evenly distributed over the rest of the 4 years. The costs are slightly skewed towards the earlier portion of the implementation period.

4.8 Financing of National Action Plan (Domestic, SPP and further donor engagements)

MoHS and MAFF will use the NAPHS as an advocacy tool to mobilize resources for both domestic and external sources. The Government of Sierra Leone, through the Ministry of Finance and economic development, will play a lead role of improving domestic revenues. An increase in government revenue will indirectly impact the capacity of the government to finance health services. It is anticipated that a new Health Financing strategy is able to collate and develop a rigorous sector-wide budget, resource map, and processes to better manage the flow of funds. For additional funding resources, MoHS and MAF will advocacy for more budget allocations to their respective ministries. MoHS will approach donors and other development partners for additional funding of the NAPHS. MoHS and MAF will approach donors and development partners for additional funding for this plan.

Improving predictability of donor funding and harmonization of donor funds with national priorities and mechanisms are among the issues that need to be addressed. A sector wide approach for better coordination and harmonization among the development partners themselves and between development partners can be done through the Strategic Partnership Portal (SPP). The SPP is an online tool that allows donors and partners to see all funding coming into a particular country and how it is distributed, as well as other relevant information collected from national

authorities and stakeholders. The SPP will help to align donor contributions to Sierra Leone's real health security needs and gaps. The SPP assists NAPHS implementation through enhanced donor/country coordination & interagency coordination. MoHS has an investment framework for all available funding and the Integrated Health Projects Administrative Unit (IHPAU) provides fiduciary oversight of donor supported projects. In addition, the capacity of MoHS will be strengthened and collaborations with the Ministry of Finance will be improved to monitor donor aid for health. The implementing MDAs will strengthen budget execution and demonstrate results from funding already provided to show return on investment thereby enhancing transparency and performance and reduce duplication and inefficiencies.

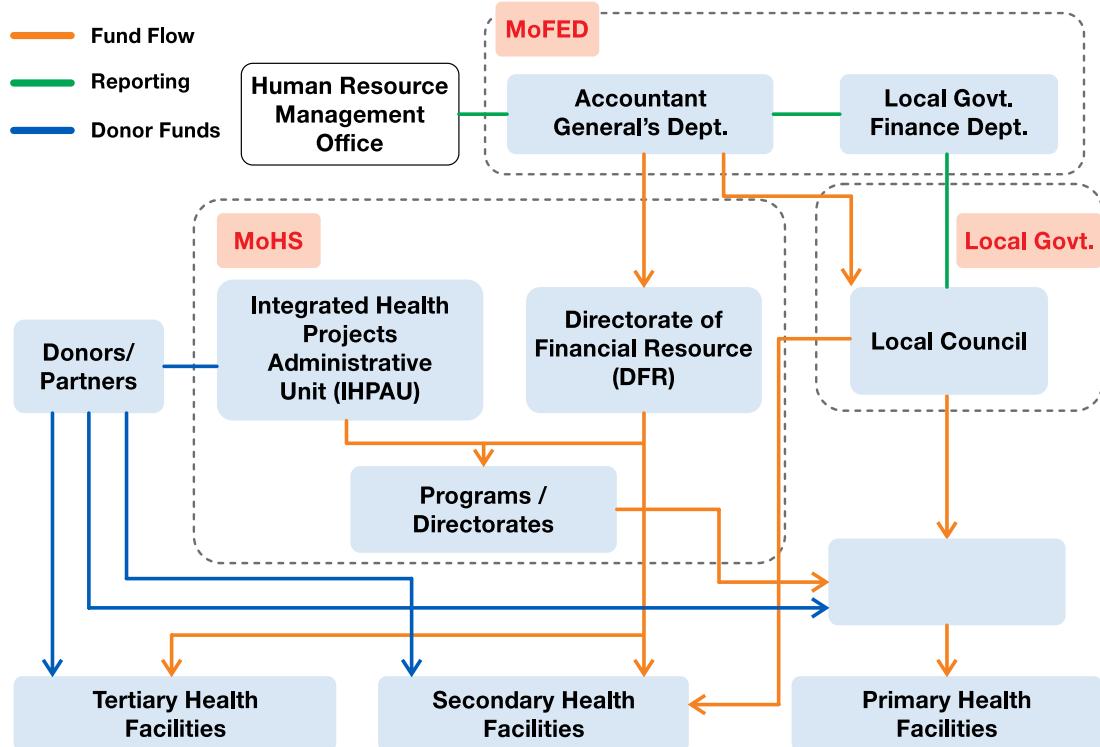


Figure 9: Institutional Relationship for health funding

4.9 Risk appraisal, assumptions and management

The vision and mission of the NAPHS as well as the objective and strategic action stated under the different technical areas of the plan will be achieved if the following assumptions are shown to be a political, financial and operational reality by the GoSL and its partners:

- Politics:** the political class must ensure that health remains one of the GoSL's top priorities, and redouble their efforts to provide a secure political environment where health remains – consistently – a focused priority.
- Governance:** the MoHS must continue to make improvements to its structure and function in order to more effectively deliver on its mandate.
- Finances - GoSL:** the budgetary allocation for health within GoSL must increase each year, over the next five years, and the GoSL must meet their Abuja declaration commitment of 15% of GDP spent on the health sector.
- Finances – Health development partners:** GoSL commitments will not be sufficient to execute this plan; development partners must maintain – and in some cases increase – their commitments to the sector. More support needs to be channeled through Government budgets, in order to increase sustainability and system strengthening.

- **Financial Accountability and Transparency:** all finances for health – held by both GoSL and development partners – must be managed with regards to the efficiency, effectiveness and value for money at every stage of the budgeting and expenditure and reporting process.
- **Legal Frameworks:** the statutory framework by which the health sector is governed must continue to be expanded, revised and improved.

Table 11: Risk appraisal and management

Description of Risk	Likelihood of Occurrence	Level of Severity	Risk rank /level	Management Plan /strategy
Financial constraints	Medium	High	1	<ul style="list-style-type: none"> Advocate for increased domestic funding to MoHS, MAF, through parliament. Mobilize additional funding from donors and partners Improve coordination of implementation of donor funded programs and projects
Inadequate multi-sectorial collaboration and coordination	Low	Medium	2	<ul style="list-style-type: none"> Effective stakeholder engagements. Sustain a multi-sectorial approach in implementation and M&E for the NAPHS.
Delays in developing the enabling legislations	Medium	Medium		<ul style="list-style-type: none"> Sensitization and advocacy engagements the respective Govt institutions.
Unforeseen delays in implementation of activities	High	Low		<ul style="list-style-type: none"> Develop coordination mechanism for implementation.
Human resources constraints	Medium	Low		<ul style="list-style-type: none"> Health Sector Reforms
Procurements and logistics constraints	Medium	Medium		<ul style="list-style-type: none"> Develop coordination mechanism for implementation

4.10 Platform for National Action Plan

4.10.1 Linkage with existing plans

Sierra Leone already has a One Health platform that involves collaborative efforts of multiple disciplines working locally, nationally, and globally to attain optimal health for people, animals, plants and our environment. This platform was developed based on the following global strategies and policy frameworks: WHO International Health Regulations (IHR-2005), Global Health Security Agenda (GHSA), OIE (World Organization for Animal Health), National Public Health Emergency Management Committee (NPHEMC). Implementation of the NAPHS will utilize the existing coordination mechanisms with multi sectoral collaboration with the different stakeholders to avoid duplication of resources, while enhancing synergisms with the existing plans, programs and ongoing activities to maximize health gains. The ongoing World Bank Regional Disease Surveillance Strengthening Enhancement (REDISSE) is one of the projects that will have synergic effects to the implementation of NAPHS. Others include: Sierra Leone National health sector strategic plan 2017 to 2021 and the National Health Sector Recovery Plan (2015 – 2020),

4.10.2 Interplay between relevant sectors

The Government of Sierra Leone will make deliberate efforts to collaborate with various stakeholder groups: government sectors, UN agencies, international organizations, partners, civil society, and private sector (e.g., health, environment, economy) to jointly achieve the desired purpose of the NAPHS implementation. By engaging multiple sectors, partners can leverage knowledge, expertise, reach, and resources, benefiting from their combined and varied strengths as they work toward the shared goal of securing Sierra Leone's Public Health security health capacity. The public health problems of the NAPHS are complex, and in many cases, a single health issue may be influenced by interrelated social, environmental, and economic factors that can best be addressed with a holistic, multi-sectoral approach.

By leveraging the strengths and varied approaches of partners, effective multi-sectoral coordination will eliminate implementation barriers, facilitate scale-up, and increase the impact that one sector or partner might have had alone. Coordination across government ministries, for example, is essential for identifying intersections among the sectors and opportunities for collaborative planning. Successful, multi-sectoral collaboration is dependent on political, economic, and social factors and requires buy-in and commitment from all parties working together.

Other enablers

Political stability: Barely two decades ago, Sierra Leone was embroiled in a conflict of unimaginable proportions. But Sierra Leone chose peace and worked its way out of conflict with the assistance of the international community. Since the end of the brutal civil war in 2002, Sierra Leone has made tremendous progress towards political stability and economic growth. The country has been on a path of reconciliation, reconstruction, and stabilization. Sierra Leone has moved from conflict to stability, holding three presidential and general elections between 2002 and 2012, including a change in government in one instance. Sierra Leone is a place where Governments are voted in and out of power peacefully, based on the citizens' assessment of their capacity to set and deliver a transformative development agenda. This level of political stability provides a conducive environment for the implementation of the NAPHS.

Political commitment: the Government of Sierra Leone and the development partners are committed to the realization of health sector goals as articulated in the National health sector strategic plan 2017 – 2021. The Health Sector Recovery Plan 2015-2020, of which the President's Recovery Priorities were key components, has served to focus attention, resources, and investments on the most pressing issues facing the health sector. Health remains a priority sector and there is increased and sustained funding from the Ministry of Finance and Economic development and development partners for most programs in this sector.

Transitioning back into the Agenda for Prosperity plan: it is crucial to underscore that the Agenda for Prosperity (A4P) remains the defining strategy for the overall development of Sierra Leone, despite the EVD setback, and is the main national anchor for dealing with the medium to long-term challenges posed by the disease and other health threats. Government views health as a key driver to achieving social economic development as envisaged in A4P. The A4P provides a frame work for policy reforms in key service sectors, health inclusive and advocates for more resource allocation, innovations and investments in these sectors. A4P calls for efficiencies in resource allocation, effective implementation, greater transparency and accountability and as well ensuring value for money. Therefore the implementation of the NAPHS will anchor and leverage from reforms and resources especially in the health and agriculture sectors within the wider development context of the A4P.

Macroeconomic stability and sustainable economic growth: Sierra Leone has made significant progress in maintaining macroeconomic stability. Sierra Leone's economy proved resilient in the face of two major shocks in 2014/15: the Ebola epidemic and collapse of iron ore prices. Indeed the economy recovered from the after effects of the Ebola epidemic, growing by 4.3% in 2016

from -21.1% the year before³². This economic growth has been fuelled by new investments in mining, agriculture, and fisheries and austerity measures in the 2017. The recovery underway, according to International Monetary Fund projections, is expected to remain sustainable over the medium term. This will ensure additional domestic funding for health programs.

Multispectral, multidisciplinary collaboration: The Government of Sierra Leone has a platform and mechanisms for donors, international organizations, intergovernmental organizations, UN agencies and other development partners to contribute to national development. As recent events have shown, public health security is a complex, costly, and information intense undertaking that requires strong national and multi-sectoral leadership, infrastructure, cross-border collaboration, capacity to identify problems rapidly and design real-time evidence-based solutions, well-trained and well-equipped workforces, well-functioning laboratories and service-delivery systems, capacity to sustain interventions, and ability to respond to unexpected events. These can only be achieved through comprehensive, multispectral, collaborative strategies. The National Action Plan for Health Security as a reflection of solidarity and commitment by all stakeholders to strengthen Sierra Leone's collective resolve and capacity to respond to potential international health emergencies and other public health risks.

Human resource capital: Health workers are a crucial pillar in a well-functioning resilient health system. The importance of strong human resource system for health was demonstrated during the recent Ebola Virus Disease (EVD) outbreak from 2014 to 2015. The recently developed HRH Policy 2017-2021 provides a clear vision for the health workforce over the next five years. Its principles, values, goal and objectives are geared towards strengthening the health workforce to provide high-quality, equitable, and accessible health services to all Sierra Leoneans. The corresponding HRH Strategy 2017-2021 was developed in tandem to guide the implementation of this policy, to ensure that its objectives are achieved through feasible and cost-effective interventions. The Ministry of Health and Sanitation in collaboration with development partners has already made substantial progress in this area over the past year, including (i) cleaning the payroll of inactive workers, (ii) operationalizing a comprehensive human resources information system; (iii) developing a training programme for Clinical Assistants – a mid-level cadre that will support the public health sector with clinical services in areas where doctors are limited, and (iv) developing a programme through which specialist medical doctors will be trained in country (v) field epidemiology training program that increases capacities of public health professional. The Ministry has also made headway in developing a comprehensive community health worker policy and strategy to enhance the health workforce's ability to cover the hard-to-reach populations. The Ministry of Agriculture and Forestry has a program that supports training of veterinary doctors who are acutely scarce in Sierra Leone.

4.11 Contribution to Health System Strengthening and UHC2030

Implementation of the NAPHS will make significant investments in the different health systems blocks; Leadership and governance, Service delivery, Human resources for health, Health financing, Medical products and health technologies, Health information systems and research, Health security and emergencies, Community engagement and health promotion thereby contributing to building a robust, resilient and responsive health system for Sierra Leone. These plans form the foundation for better health security, preventing deaths, tackling diseases, strengthening the health system and improving the health and well-being of the population. An effective health care system will contribute to attainment of Universal Health Coverage (UHC) by ensuring that people have access to the health care they need without suffering financial hardship. It also helps drive better health and development outcomes. This approach is key to ending extreme poverty and increasing equity and shared prosperity. It is also an essential part of the Sustainable Development Goals (SDGs): SDG 3 includes a target to "achieve universal health coverage (UHC), including financial risk protection, access to quality essential health care

32 <https://www.afdb.org/en/countries/west-africa/sierra-leone/sierra-leone-economic-outlook/>

services, and access to safe, effective, quality, and affordable essential medicines and vaccines for all." SDG 1, with the goal to end poverty in all its forms everywhere, is also in peril without UHC, as hundreds of millions of people are impoverished by healthcare costs every year.







5 DELIVERY OF THE ACTION PLAN



The NAPHS will be rolled out through a five-year period (2018-2022). The activities covered in the NAPHS span different ministries and different sectors of the economy and also between national, sub-national and local community levels. Implementation activities will involve active collaborations and adoption of roles and responsibilities by various players. Successful delivery of the action plan will also require leadership and coordination by key entities plus stewardship and control by those that will be responsible for creating the desired outputs under each strategic activity.

5.1 Roles and responsibilities of key stakeholders

Various stakeholders will be active for the duration of the implementation of the NAPHS. The roles will vary from providing leadership to carrying out the activities themselves. Some stakeholders will be depended upon to provide support either technical, financial or the intangibles such as community support. Overall, the NAPHS requires all the actors to work concurrently so that the targets are met across the board while monitoring progress towards the achievement of goals set. The roles and responsibilities of the various entities that will be involved in the implementation include the following:

5.1.1 Office of the President

The Office of the President will be depended upon to provide the high level leadership and political commitment needed in ensuring that ministries and state agencies meet their obligations in the NAPHS. The Office of the President is also the authority that maintains the legal mandate to declare a public health emergency or disaster and to direct national emergency response for disasters and major large scale public health emergencies. The Office of the President will also support the endorsement for high level agreements and MoUs related to NAPHS implementation. The Office of the President will maintain responsibility to coordinate of government ministries with responsibilities in the NAPHS implementation.

5.1.2 Parliament

The health committee in the Parliament of Sierra Leone will be critical to support aspects of the NAPHS related to internal resource mobilization, allocation and legislation. Key responsibilities will include 1) review of out dated laws, such as the public health ordinance, 2) enactment of new legislation as necessitated by NAPHS and 3) approving the national health budget with considerations for resources and policies needed to meet the aspirations set out in the NAPHS. It will be useful from the outset for health committee members to have the awareness on NAPHS so as to better defend the health budget, with particular attention to the creation of new budget lines to fund management of public health emergencies.

5.1.3 Line ministries

Ministry of Health & Sanitation

As the centrally mandated ministry in development of health security, the Ministry of Health and Sanitation shall have overall stewardship and management of the implementation, monitoring and evaluation of the NAPHS. The MoHS shall take the leadership role in the coordination of key stakeholders and activities for NAPHS purposes. The MoHS shall also lead strategic planning for the delivery of the NAPHS action plan, including regularly undertaking performance reviews of the implementation of the plan. The MoHS shall mobilize resources for implementation, monitoring and evaluation of the human health component of the NAPHS. Inter-sectoral collaboration is vital for successful implementation of NAPHS, responsibility for initiation and leadership of this collaboration shall rest primarily with MoHS. The health ministry shall also bear the responsibility of providing guidance and sponsorship for development of policies, regulation and laws necessary for successful NAPHS implementation as well as making requisite investment in human resources, infrastructure, equipment, etc. necessary for successful NAPHS implementation. The MoHS shall also keep track of the fulfilment of international obligations and reporting requirements of NAPHS and IHR by Sierra Leone.

Ministry of Agriculture and Forestry

MAF will co-chair with the MoHS the NAPHS initiatives that are synergistic with One Health Platform themes. MAF will exercise stewardship and management of implementation of the animal health centred objectives in the NAPHS. MAF shall mobilize resources for implementation, monitoring and evaluation of the animal health component of the NAPHS. Inter-sectoral collaboration is vital for successful implementation of NAPHS. MAF will also take responsibility for investments in human resources, infrastructure, equipment, etc. necessary for attainment of animal health centred objectives in the NAPHS. MAF shall be responsible for tracking fulfilment by Sierra Leone of international obligations and reporting requirements in related to animal health and public health emergency management. MAF also bears the responsibility of ensuring that cross border movement of livestock is managed in a manner that protects the health security of Sierra Leone.

Ministry of Finance

MoF will be responsible for the mobilization of in-country resources for implementation of the NAPHS including auditing and monitoring the efficiency and utilization of resources raised for NAPHS implementation. MoF will also assess the impact of funding sourced for NAPHS implementation to ensure the objectives are met with a specific target to attain value for money.

Ministry of Internal Affairs

MIA shall facilitate formalization of a system to improve coordination and collaboration between public health and security authorities, including emergency response coordination between appropriate authorities. MIA shall also support routine public health services and interventions at Points of Entry and support MoHS and MAF in the efforts to enhance bio-security.

Ministry of Local Government and Rural Development

The Ministry of Local Government and Rural Development shall engage in facilitating functional community engagements for the implementation of NAPHS activities at villages, towns, chiefdoms, districts and regional level.

Ministry of Technical and Higher Education

MTHE shall update curricula for training of health care workers, to include aspects covered under NAPHS such as disease surveillance, emergency management and risk reduction. MTHE shall also implement a sustainable strategy to increase the workforce of veterinarians in Sierra Leone.

Ministry of Information and Communications

The Ministry of Information and Communications will facilitate public-private partnerships that aid MoHS in risk communications while assisting the health sector to secure positive publicity on the NAPHS initiatives. Where need arises, the communications ministry shall assist the health sector in rumor surveillance and mitigating mass misinformation through various platforms (e.g. social media).

Ministry of Marine Resources

The Ministry of Marine Resources shall lead in efforts to improve on disaster risk reduction in water transport and fishing.

Ministry of Social Welfare, Gender and Children's Affairs

The Ministry of Social Welfare, Gender and Children's Affairs shall support the MoHS by reinforcing policy on childhood immunization to ensure that children enrolling for school are required by

ministerial regulation to be fully immunized. During the implementation of the NAPHS, the social welfare ministry will partner with health sector in community disaster risk and vulnerability assessments. The Ministry of Social Welfare, Gender and Children's Affairs shall also be key in safeguarding the welfare of frontline health workers and surge staff during response to large scale health emergencies, including compensation for loss, injury, disability or death.

Ministry of Foreign Affairs

The Ministry of Foreign Affairs shall help broker agreements to facilitate meaningful cross border collaboration for health security and also support Sierra Leone in regional cooperation for advancement of health security within Mano river basin, ECOWAS, AU and globally.

5.1.4 Others

Office of National Security - ONS

As the national mandated authority for disaster management, the ONS oversees development of disaster risk reduction and disaster management in all ministries and sectors of the economy as set out in the Hyogo protocol and the Sendai framework. ONS should also work with the MoHS to establish clear communication and coordination lines with the Public Health National Emergency Operations Center and the 117 Alerts System Line.

Military and Ministry of Defence

Support emergency response for disaster level public health emergencies. Capacity building in various public sector institutions in emergency preparedness i.e. table top exercises, simulations and drills.

Paramount chiefs & Councillors

As the local leaders recognized by law, they facilitate community entry for implementation of activities. Some of the activities planned under NAPHS e.g. risk and vulnerability assessments, will involve community level participation. Paramount chiefs and councillors are key stakeholders for local level community engagement, formation and implementation of health related by-laws, and other health related activities improving health at the community level.

Pharmacy Regulatory Board

As the established regulatory body for all pharmaceuticals and cosmetics importation and consumption in Sierra Leone, the board shall review existing regulations with a view to advancing the agenda set out in the NAPHS on anti-microbial resistance. The board shall also support studies and other scientific inquiry into AMR and promote the rational use of antimicrobials. The donations and imports of medical commodities that are received during emergency response operations need to be scrutinized and approved by the pharmacy regulatory board to maintain standards in quality and integrity of medical commodities consumed in Sierra Leone.

Sierra Leone Standards bureau

As the mandated authority responsible for protection of standards, the bureau shall watch over the quality of food items, laboratory supplies and equipment etc. that enter the country.

Environment Protection Agency – EPA

The EPA formulates national environmental policies, is in charge of coordination of all environmental management programs, enforcement and compliance to legislative proposals, standards and guidelines on the environment in accordance with the environmental protection act of Sierra Leone. The EPA ensures the integration of environmental concerns in overall national planning

by developing modalities and maintaining linkages or partnerships with relevant government ministries, departments and agencies. The EPA also leads in creation of policy and legislation for regulation of environment management. Control of pollution and chemicals management within the mandate of EPA are integral to the implementation of NAPHS where the EPA is tasked with establishing functional mechanisms for detecting and responding to chemical events or emergencies and creating an enabling environment for management of chemical events.

Medical & Dental Council and Nurses Board

These are the statutory entities mandated to license health workers. During response to large scale health emergencies there is overwhelming need for surge staff, the majority of those urgently required are health workers. It is vital that the council and board has authority to issue temporary licences to foreign based volunteers and responders. They should also be facilitated to carry out background checks and verification on doctors and nurses that are deployed during emergencies. The board should also be active in managing violations of staff conduct and instituting disciplinary measures.

Ministry of Transport and Aviation

As the ultimate regulatory authority for air, land and sea transport the ministry will support the MoHS and stakeholders in attaining the objectives set out in the NAPHS especially in regard to food importation, transportation of goods/chemicals, movements of humans and animals during critical times such as an outbreak. The Sierra Leone civil aviation authority, the Sierra Leone maritime administration and the Sierra Leone Ports Authority have roles to play in the implementation of the NAPHS.

WHO, OIE, FAO, other UN Agencies, CDC, National and International Agencies

These non-state entities have capacity to bring about development in various areas that they partner with the government. The international agencies will be on standby to provide technical support for development, implementation, monitoring and evaluation of the NAPHS. They will also support the country's efforts to raise funds for the action plan.

Academic Institutions

Think tanks and academic institutions are important in accelerating the growth of new knowledge and in leading scientific and operational research. In the implementation of the NAPHS, some surveys will need to be carried out either as baseline studies, mid-term evaluations or for end of implementation documentations. Academic institutions can be very useful in designing and conducting evaluations due to their expertise and neutrality. They will also be a source of technical expertise to guide implementation of NAPHS.

Civil Society

Civil society organizations play an important role in enhancing transparency and good governance by contributing to increased public debate on issues surrounding the formulation and implementation of public sector plans as well as in supporting greater transparency. There is a vibrant civil society in Sierra Leone and their critique will be invaluable as we expend resources in NAPHS implementation.

The Media

The media plays a role in creating and shaping of public opinion. It has the duty to inform, to educate and to entertain the community. The media in Sierra Leone should act as watchdog, to protect public interest against malpractice, create public awareness and give platforms to citizens to give feedback on how NAPHS implementation is affecting their lives. In the implementation

of the NAPHS, the media will be key to highlighting the various initiatives to secure the health of citizens. The media is also directly involved in the implementation of several activities under risk communications.

5.2 Coordination mechanisms and framework for delivery of action plan

The implementation of the NAPHS will be delivered through the various fora with a strong country ownership, commitment and political will. In addition, a continuous engagement of stakeholders, collaboration and support from partners will further ensure the actualization of NAPHS. The coordination mechanisms and framework for delivery of the national action plan for health security 2018-2022 is designed to further strengthen existing coordinating structures such as inter-ministerial council and one-health coordinating committees. The figure 8 highlights the inter-relationships in coordinating structures at the national level.

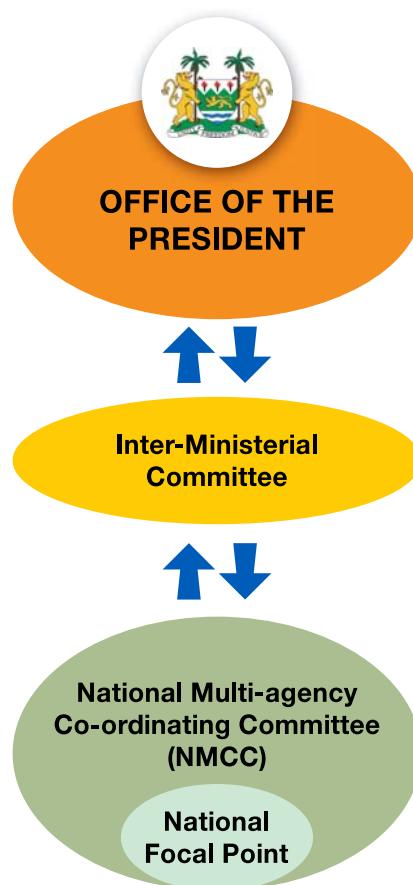


Figure 10: shows the national coordination framework for delivery of the national action plan

Inter-Ministerial Committee for implementation of NAPHS

The Inter-Ministerial Committee is the highest decision-making body responsible for policy formulation and coordination oversight and decision-making. The Committee will present to cabinet and the Presidency and secure high-level strategic decisions as and when necessary - on issues of NAPHS, IHR, including emergencies and public health threats.

The membership of the Inter-Ministerial Committee will include Ministers and Heads of government agencies as outlined below:

1. Minister of Health and Sanitation (MoHS),
2. Minister of Agriculture and Forestry (MAF),
3. Executive Chairperson - Environment Protection Agency (EPA)
4. National Security Coordinator - Office of National Security (ONS)
5. Minister of Internal Affairs (MIA)
6. Minister of Technical and Higher Education (MTHE)
7. Minister of Local Government and Rural Development
8. The Minister, Ministry of Mines and Mineral Resources
9. Minister of Transport and Communication
10. Minister of Finance
11. Minister of Trade – standards for food substances
12. Minister of Tourism and Culture

5.2.1 National Multi-Agency Coordination Committee for the implementation of NAPHS

The National Multi-Agency Coordination Committee (NMCC) will work with the recently established One Health coordinating structures. However, the One Health coordinating committees should be expanded to include more key stakeholders involved in the implementation of the NAPHS. The NMCC is divided into the two sub-structures namely:

1. NAPHS Coordination committee / One health coordination committee

This committee will provide overall leadership and policy guidance on all issues related to NAPHS and IHR. This committee will be co-chaired by the Chief Medical Officer and the Chief Agricultural Officer. Other composition of the committee will include senior technical officers from MoHS, MAF, ONS, Environment Protection Agency (EPA), Ministry of Finance, RSLAF, Training/research institutions, Partners (Senior Representatives). See page 69 for more details.

2. NAPHS Technical committee / One health technical committee

This committee will provide leadership to the technical working groups in the implementation of the NAPHS and IHR. The composition is senior Directors from respective MDAs, partners and Academic/Research Institutions. See page 70 for more details.

Both committees will work closely with the IHR National Focal Point (NFP) to plan and monitor the implementation of the NAPHS in Sierra Leone. The role of the NMCC is to develop and oversee the implementation of NAPHS. The NMCC through the IHR NFP reports or updates the Inter-Ministerial Committee.

The functions of the NMCC are to:

- Develop a national strategic plan that take into accounts all recommendations of the JEE, all IHR core capacities, and/or any health security events every 4-5 years.
- Review and update the plan annually with the guidance of the NFP and relevant partners.
- Support, monitor, supervise, coordinate, and evaluate the operations of IHR NFP.

- Engage the parliament and relevant stakeholders on the legislation, policies and administrative arrangements to enable compliance with the IHR (2005) with the guidance of the NFP and relevant partners.
- Mobilize resources including domestic financing for the implementation of the NAPHS and monitor the use of the resources for any health security event with the IHR (2005) with the guidance of the NFP and relevant partners.

IHR National Focal Point

The Sierra Leone International Health Regulations National Focal Point (IHR NFP) was established in 2009 within the Ministry of Health and Sanitation (MoHS). However, NFP existed as a person³³ rather than a national centre³⁴. Hence, it was not fully operational.

According to the International Health Regulations (2005) (IHR (2005)), National IHR Focal Point is defined as “the national centre, designated by each State Party which shall be accessible at all times for communications with WHO IHR Contact Points under these Regulations”.³⁵ Therefore, for NFP to be fully operational, IHR NFP should exist as a national centre with appointees from relevant MDAs.

IHR NFP will lead day-to-day IHR-relevant event assessment, reporting and coordination efforts on public health events, including emerging/re-emerging diseases, such as Viral haemorrhagic fever outbreaks and other communicable disease outbreaks, contaminated medical products, and vaccine preventable diseases, among others. The work of the IHR NFP will contribute to global health security policy development and recognition that communicating the evidence-based possibility of a major public health event is critical to protecting Sierra Leone and global populations from future public health threats.

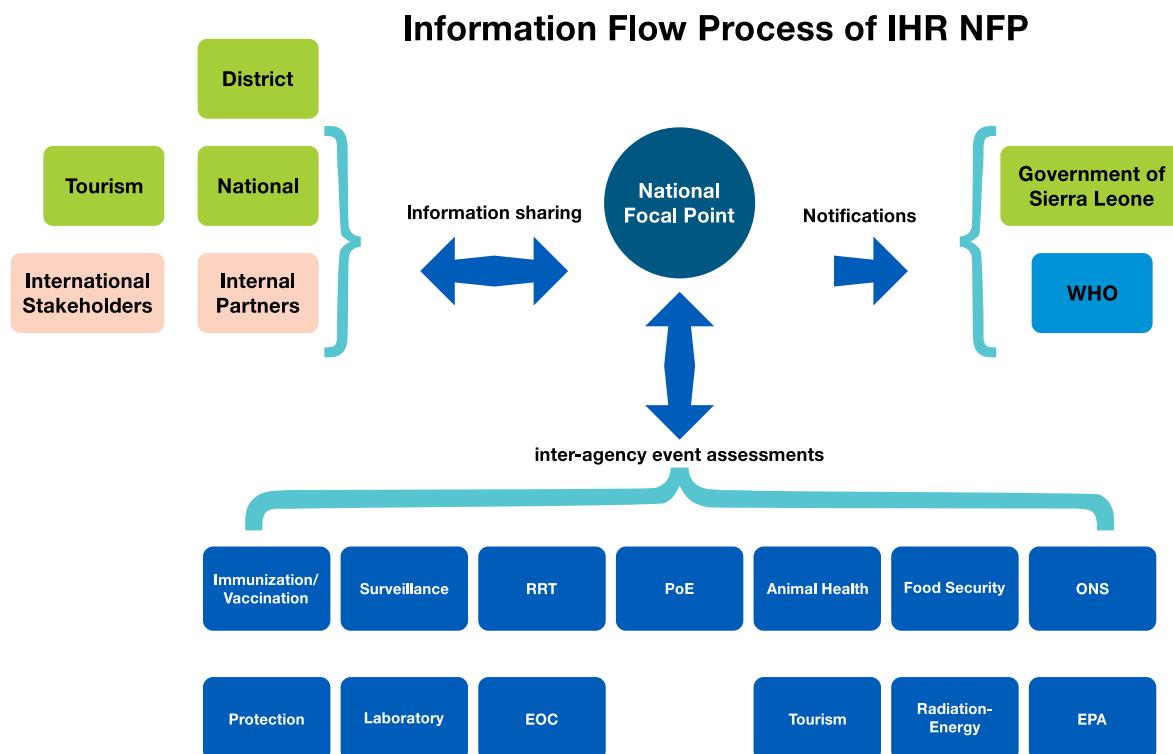


Figure 11: shows the information flow process through the IHR National Focal Point

33 Government of Sierra Leone, Ministry of Health and Sanitation. International Health Regulations 2005. Plan of Action 2016 – 2018 (Draft)

34 WHO document on NATIONAL IHR FOCAL POINT GUIDE accessed on 24 Oct 2017 <http://www.who.int/ihr/English2.pdf>

NFP Structure and functions³⁵

IHR NFP is a national centre with appointees from relevant MDAs. In addition, there are technical and support staff.

The IHR NFP is responsible for the day-to-day operations and management of procedures for communication and coordination. IHR NFP technical staff operate under a 24/7/365 duty schedule to ensure continual monitoring of and timely response to domestic and international public health events.

The IHR NFP oversees all core IHR NFP activities, such as:

- Notifying potential public health emergency of international concern (PHEIC) to the WHO.
- Receiving, triaging and directing IHR-related communications to ministries, departments and agencies and other internal partners and stakeholders.
- Preparing and disseminating official IHR-related messages to relevant domestic and international stakeholders.
- Coordinating and facilitating communications and information sharing between Sierra Leone MDAs, the WHO and other countries' NFPs in order to facilitate efficient public health communications and information sharing.

IHR NFP specific responsibilities include:

- Overseeing and coordinating inter-agency assessment of events that may constitute potential PHEICs.
- Collaborating with relevant technical agencies to perform public health risk assessment using Annex 2 of the IHR³⁶.
- Identifying and resolving government policy issues related to international public health reporting.
- Overseeing domestic IHR obligations and coordinating IHR-relevant policies, positions, and process implementation efforts.
- Coordinating the monitoring and evaluation of IHR core capacities, and annually reporting on the status of IHR core capacities to WHO.
- Advising interagency leadership and technical staff on IHR-relevant policy.
- Coordinating IHR-relevant efforts with international partners, organizations, and the Sierra Leone government.
- Leading efforts on bilateral policy exchanges with foreign NFPs.

The IHR NFP will liaise with the office of the Chief Medical Officer, Ministry of Health and Sanitation for authorization of messages for all official communications to WHO on behalf of the Government of Sierra Leone in compliance with the IHR. Such messages include notifications of public health events and status reports.

³⁵ The U.S. International Health Regulations National Focal Point accessed on 24 Oct 2017 <https://www.phe.gov/about/OPP/dihs/Pages/ihr-nfp.aspx>

³⁶ WHO guidance for the use of Annex 2 of the International Health Regulations (2005). http://www.who.int/ihr/publications/annex_2_guidance/en/

IHR NFP should have a National Operations Center (NOC) for 24 hours a day/7 days a week/365 days a year monitoring, situational awareness and communication capabilities for the IHR NFP. The NOC allows the NFP to receive and transmit communications as needed. The NOC serves a vital role in receiving and routing communications properly during a public health emergency, as well as maintaining general, public health situational awareness.

5.2.2 District level implementation of NAPHS

The district health management teams (DHMT) are pivotal in implementation of various national health policies and strategies, and the implementation of NAPHS will leverage on the existing coordinating structures at the district level including: the Public Health Emergency Management Committee (PHEMC) which is under the leadership of the DMO; the District Disaster Management Committee which requires strong participation of the DMO as a member; and the District One-Health Coordination Committee which DMO chairs and DAO co-chairs.

The DMO will oversee, and be responsible for coordinating and updating relevant MDAs and other stakeholders through existing fora. The DMO will ensure strong collaboration, effective information sharing and coordination with relevant MDAs in the districts. In addition, the district structures will share information regularly and report on the implementation of NAPHS with national structures.

5.2.3 Alignment of internal stakeholders

The internal partners and stakeholders refer to all implementing partners, academic institutions, civil society organizations, community stakeholders, etc. The role of internal partners and stakeholders is to:

- Engage in the process of developing, supporting, and implementing the NAPHS.
- Jointly participate in the monitoring and evaluation of the NAPHS under the guidance of IHR NFP.
- Receive and share IHR-related information and direct communications from IHR NFP.
- Support the resource mobilization process, utilization and accountability in line with other relevant documents.



Figure 12: shows the linkage of WHO-Strategic Partnership Portal-SPP

5.2.4 Alignment of external stakeholders

The external stakeholders refer to donor partners, bilateral agencies, UN agencies, international NGOs and others. The role of external partners and stakeholders is to:

- Participate in the Joint External Evaluation.
- Participate in the NMCC.
- Engage in the process of developing, supporting, and implementing the NAPHS.
- Support the resource mobilization process on the behalf the government of Sierra Leone.
- Liaise with IHR NFP in monitoring and evaluation of the NAPHS.
- Receive and shares IHR-related information and communications from IHR NFP.

5.3 Monitoring and evaluation of the Plan

5.3.1 Aim

Guidance for strengthening monitoring, evaluation and review (M&E) of National Action Plan for Health Security (NAPHS) will also outline the key attributes and characteristics of activities. It includes a comprehensive framework that addresses indicator selection, related data sources, and analysis and synthesis practices, including quality assessment, performance reviews, communication, and utilization.

5.3.2 Background

This document provides details on the M&E plan for NAPHS from 2018-2022. Monitoring and evaluation is an essential component for the successful implementation of any program. Monitoring and Evaluation system refers to all indicators, tools and processes that will be used to measure if a program has been implemented according to the plan (monitoring) and is having the desired result (evaluation).

The primary aim of the plan is to serve as a strong and harmonized M&E component of the NAPHS, covering all major thematic areas for the health security. The plan serves as the mechanism for districts and national reporting, aligning partners at districts and national levels around a common approach to country support, and reporting requirements. The plan should reduce duplication of efforts, focus on results monitoring, and result in better accountability and harmonization of M&E systems.

5.3.3 Objectives

- To build upon and strengthen existing country M&E mechanisms from 2018-2022.
- To establish a sound M&E system and build on inclusive policy dialogue and regular evidence-based assessments that inform progress and performance reviews and that result in remedial action and mutual accountability among all stakeholders.
- To provide the basis for resource allocation, policy-making and effective management of programs.

Table 12: Attributes and Characteristics

KEY ATTRIBUTES	CHARACTERISTICS
I. National health strategy as the basis for information and accountability	
1. The national health strategy specifies a sound monitoring, evaluation and review component.	<p>1.1 Monitoring, evaluation and review addresses the goals and objectives of the national health strategy and is based on a sound situation analysis.</p> <p>1.2 Disease and programme-specific monitoring, evaluation and review are aligned with that of the national health strategy.</p> <p>1.3 The monitoring, evaluation and review plan is costed and funded with full partner alignment and support.</p> <p>1.4 Monitoring, evaluation and review is regularly assessed.</p>
II. Institutional capacity	
2. Roles, responsibilities and coordination mechanisms for monitoring, evaluation and review are clearly defined.	<p>2.1 There is an effective country-led coordination mechanism for monitoring, evaluation and review.</p> <p>2.2 Key institutions and stakeholders have clear roles and responsibilities.</p>
3. Capacity strengthening in monitoring, evaluation and review is addressed.	<p>3.1 Capacity strengthening requirements are identified and addressed.</p>
III. Monitoring and Evaluation	
4. There is a comprehensive framework that guides the monitoring, evaluation and review work, including core indicators and targets.	<p>4.1 There is a balanced and parsimonious set of core indicators with well-defined baselines and targets.</p> <p>4.2 Disease- and programme-specific indicators are aligned.</p> <p>4.3 Integrated with the national health information system strategy.</p>
5. The monitoring, evaluation and review component specifies data sources, identifies and addresses data gaps, and defines responsibilities for data collection and information flow.	<p>5.1 Data sources are specified in a comprehensive and integrated manner.</p> <p>5.2 Critical data gaps are identified and addressed.</p> <p>5.3 Responsibilities for data collection and management are specified.</p>
6. Data analysis and synthesis work is specified, and data quality issues are anticipated and addressed.	<p>6.1 Data analysis and synthesis work is specified.</p> <p>6.2 There are regular assessments of progress and performance, including systematic analyses of contextual and qualitative information.</p> <p>6.3 Specific processes for data quality assessment and adjustment are in place and are transparent.</p>

KEY ATTRIBUTES	CHARACTERISTICS
7. Data dissemination and communication are effective and regular.	7.1 Analytical outputs as the basis for national and global reporting are defined and produced. 7.2 Appropriate decision-support tools and approaches are used. 7.3 Data, methods and analyses are publicly available.
8. Prospective evaluation is planned and implemented.	8.1 Prospective evaluation is planned and linked to monitoring, evaluation and review of national health strategies.
IV. County mechanism for review and action	
9. There is a system of joint periodic progress and performance reviews.	9.1 A regular and transparent system of reviews with broad involvement of key stakeholders is in place. 9.2 There are systematic linkages between health sector reviews, disease and programme-specific reviews, and global reporting.
10. There are processes by which related corrective measures can be taken and translated into action.	10.1 Results from reviews are incorporated into decision-making, including resource allocation and financial disbursement. 10.2 Multi-stakeholder mechanisms are specified to provide routine feedback to subnational stakeholders.





6 ANNEXES

6.1 Matrix for detailed roles and responsibilities

No	Task	Government Agency/Directorate/Program	Partner Organizations
	High level coordination of MDAs	The Presidency	
	Declaration of public health emergency		
	Managing national disasters		
	Legislation (enactment of laws)	IHR NFP	
	Enforcing laws and health requirements	MoHS	
	Overall implementation stewardship	Parliament	
	Implementation co-stewardship		
	Inter-sectoral coordination		
	Collaboration in the NAPHS implementation		
	Attend coordination and review meetings		
	Overall M & E stewardship		
M & E			
	Reporting of progress of implementation		
	Membership to IHR NFP		
	IHR NFP coordination & communication		
	Resource mobilization		
	Financial resource allocation		
	Accountability and audit management		
	Facilitating Community engagement		
		Other partner Org.	
		Public Health England	
		IOM	
		China CDC	
		US - CDC	
		USAID	
		FAO	
		WHO	
		Other GOSL MDAs	
		Min of Inf. And Comm	
		Ministry of Finance	
		MOLG & RD ³⁷	
		ONS and RSLAF	
		Radiation Board	
		EPA - SL	
		MAF	
		Min. of Foreign Affairs	
		MAF	
		ONS and RSLAF	
		MOLG & RD ³⁷	
		Ministry of Finance	
		Other GOSL MDAs	
		Public Health England	
		IOM	
		China CDC	
		US - CDC	
		USAID	
		FAO	
		WHO	
		Other partner Org.	

The Presidency			
Parliament			
MoHS			
IHR NFP			
Min. of Foreign Affairs			
MAF			
EPA - SL			
Radiation Board			
ONS and RSLAF			
MoLG & RD ³⁷			
Ministry of Finance			
Min of Inf. And Comm			
Other GOSL MDAs			
WHO			
FAO			
USAID			
US - CDC			
China CDC			
IOM			
Public Health England			
Other partner Org.			

6.2 Terms of Reference of National GHSAs/IHR/One Health Coordinating Committee

The committee will operate within existing coordination structure mirroring the National One Health Coordination platform chaired by the Chief Medical Officer with the Chief Agricultural Officer and the EPA Director being co-chairs.

6.2.1 Membership of the committee:

The committee will have the following membership:

- Chief Medical Officer, MoHS: Chairperson
 - Chief Agriculture Officer, MAF: Alternate Chairperson 1
 - Head of Environment Protection Agency: Alternate Chairperson 2
 - IHR National Focal Point, MoHS
 - Head of Radiation Protection Agency
 - Directors, MoHS: DHSE, DEHS, DHLs, DPPI
 - Directorate of Veterinary Services and OIE focal point, MAF

- Head, Department of Wild Life, MAF
- Program heads, MoHS: EPI Program, surveillance program
- Office of National Security (ONS)
- Ministry of Internal Affairs (MIA)
- Ministry of Technical and Higher Education (MTHE)
- Ministry of Local Government and Rural development
- Parliamentary Committee on Health & Social services
- City Mayor
- SLE Police
- SLE Military
- Ministry of Water Resources
- Sierra Leone Civil Aviation Authority
- Sierra Leone Airport Authorities
- Sierra Leone Standards Bureau
- Sierra Leone Agricultural Research Institute
- Local Authorities National Representative
- Representative of the Paramount Chiefs
- Civil Society Organization Representative
- United Nations Agencies – WHO, UNICEF, UNDP, FAO, WFP, IOM
- Health development Partners: US – CDC, DfID, USAID, China-CDC, PHE, IRC among others

6.2.2 Roles and responsibilities of the committee

This committee will be responsible for the coordination of implementation of GHSA, IHR and One Health in Sierra Leone. Its roles and responsibilities include:

- i. Ensuring that the IHR/GHSA/One Health priorities are identified and national plans developed.
- ii. Providing guidance in the formation and operationalization of technical working groups to address the national priorities.
- iii. Coordinating the interrelationship of the different working groups and agencies.
- iv. Providing guidance and direction to the technical Committees
- v. Reviewing the overall country epidemiological situation
- vi. Advising the Minister of Health and the Presidency on the need to declare public health emergencies.
- vii. Providing overall direction to government agencies and partner organizations on resource application to address national priorities.
- viii. Monitoring the overall progress of implementation of the NAPHS.
- ix. Advocating for, and mobilizing resources for national health security.
- x. Report to the Inter-Ministerial Committee on One Health
- xi. Ensure resources are made available for district work on IHR/GHSA and One health

Basic Inputs



		Year of implementation						
Objective	To ensure adequate statutory and administrative provisions for the implementation of IHR by December 2018							
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Target	Unit Cost
			- Internal Affairs - Finance - Fisheries - Social Welfare - Environmental Protection Agency - Health and Sanitation	1. Record review Conducted 2. List of available statutory provisions	National	29 100 000	1	
			Data compilation and analysis meeting (10 pax X 3 days); Debriefing meeting (40 pax X 1 day)	National	Data compiled and analyzed	1	26 720 000	1
			Public Health Ordinance, NPHA Strategic and Operational plans	National	Meeting conducted	1	12 080 000	1
2	Assess the existing administrative and statutory instruments in line with IHR 2005	IHR NFP	Workshop of relevant stakeholders (50 pax X 5 days);	National	1. Workshop report	1	66 850 000	1
3	Develop or review the administrative and statutory instruments to make them compliant with IHR 2005	IHR NFP	Public Health Ordinance, NPHA Strategic and Operational plans	National	Recruit an International consultant (60days)	1	279 888 000	1
			Workshop of relevant stakeholders (50 pax X 5 days)*3 workshops);	National	Consultant recruited	1		
				National	Workshop conducted	1	358 050 000	1
JEE Indicator		1.1.2 Legislation, policies and administrative arrangements enable compliance with the IHR (2005)					JEE Scores 2	
JEE recommendations		1. Sensitive relevant stakeholders on these laws, policies and regulations 2. Improve, update or develop MOUs and other cross-border bilateral agreements to make them more comprehensive beyond EVD 3. Improve multisectoral collaboration						
Objective	To adjust and align legislation, policies and administrative arrangements in compliance with IHR 2005 by end of 2018						Year of implementation	
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Target	Unit Cost
1	Sensitize relevant Stakeholders (MDAs, Parliamentarians, Partners etc) on the aligned documents	IHR NFP/NPHA	REDISE project (Public Health Ordinance and Animal Disease Act)	Sensitization meeting with MDAs and ONS (50 pax X 1 day)	National	Meeting conducted	1	27 350 000

Objective	To adjust and align legislation, policies and administrative arrangements in compliance with IHR 2005 by end of 2018						Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	
			Sensitization meeting with Parliamentarians and Legal department (40 pax X 1 day)	National	Meeting conducted	1	12 080 000 2022
			Sensitization meeting with Partners (40 pax X 1 day)	National	Meeting conducted	1	36 080 000 2022
TECHNICAL AREA	1.2 IHR Coordination, Communication and Advocacy						
JEE Indicator	1.2.1 A functional mechanism is established for the coordination and integration of relevant sectors in the implementation of IHR.						
JEE recommendations	1. Set up a National IHR Focal Point/Unit within the NPHA (PHEOC) supported by SOPs 2. Commence regular meetings of the National IHR Focal Point with all line ministries and key agencies 3. Build technical capacity for the National IHR Focal Point function by training technical people on IHR implementation areas. 4. Improve multisectoral collaboration						JEE Scores 2
Objective	To strengthen IHR NFP for effective coordination, communication and advocacy for IHR implementation						Year of implementation
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	
		IHR NFP	Public Health Ordinance, NPHA Strategic and Operational plans	Draft NFP guidelines and SOPs (30Pax*30days)	National	NFP guidelines and SOPs available	55 865 000 2022
1	Develop guidelines and Standard Operating Procedures (SOPs) for IHR NFP		Validate NFP guidelines and SOPs (60Pax*1 day)	National	NFP guidelines and SOPs validated	2	16 820 000 2022
			Print and Disseminate 500 copies NFP guidelines and 500 copies SCOPs	National	NFP guidelines, SOPs printed and distributed	1000	500 000 2022
	Heads, MDAs	None	Appoint IHR NFP from relevant MDAs	National	No of IHR NFP appointed	10	- 2022
	Heads, MDAs	None	Annual Review of IHR NFP appointees from relevant MDAs	National	Report of annual review available	10	40 730 000 2022
2	Build the capacity of IHR NFP in areas of coordination, communication and advocacy	IHR NFP	Orientation for appointed IHR NFP (30 pax X 3 days)	National	Report of orientation	10	48 080 000 2022
	IHR NFP	None	Orientation of Media on IHR core capacities and implementation (40 pax X 1 days)	National	Report of orientation	10	33 035 000 2022

Objective	To strengthen IHR NFP for effective coordination, communication and advocacy for IHR implementation						Year of implementation		
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)			
3	Regular intersectoral coordination meetings	IHR NFP	REDISSE project (One health)	Quarterly national level coordination meeting (quarterly + 10 adhoc annually, 40 pax X 1 day)	National	Minutes of the meeting	70	325 500 000	1 1 1 1 1
				District level coordination meeting (quarterly X 25 pax X 1 day X 16 districts)	District	No of district with coordination report	320	635 200 000	1 1 1 1 1
				Procure 15 Desktops	National	No of desktop procured	15	55 875 000	1 1
				Procure 15 Laptops	National	No of Laptop procured	15	55 875 000	1 1
				Procure 12 Coloured Printer (Scanner)	National	No of Printers procured	12	44 700 000	1 1
				Internet server (USD 20,000*2)	National	Internet server available	2	298 000 000	1 1
				Connect to Fiber optic for Internet access (USD 10,000*2 servers)		Internet subscription done	2	147 000 000	1 1 1 1
				Dongles for Internet/ Modems (USD 100*15)	National	No of Dongles/ modems Provided	15	11 025 000	1 1 1 1
				Modems subscription (dongles) (USD 75*15modems *12months *5years)	National	Subscription done	15	99 225 000	1 1 1 1
				Maintenance cost for Computers (Two contracts)	National	Contractual agreement	2	14 900 000	1 1 1 1
				1 Generator (75 KVA) (USD 50,000)	National	Generator available	1	367 500 000	1 1
				Housing and Installation of generators	National	Housing constructed	1	22 350 000	1 1
				Maintenance of Generators	National	Generator in good working order	20	14 700 000	1 1 1 1
4	Logistics support for effective functioning of IHR NFP	IHR NFP	None						

Objective	To strengthen IHR NFP for effective coordination, communication and advocacy for IHR implementation						Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Output indicators (Monitoring and Evaluation)	Target	
No							
4	Logistics support for effective functioning of IHR NFP	IHR NFP	None	Fuel for Generators (20 litres*365 days* 5 years) Two 4WD Vehicles	National National	35500 No Vehicles procured Vehicles in good working order	43 800 000 5 880 000 000 88 200 000
5	Monitor and evaluate the implementation of NAPHS	IHR NFP	None	Maintenance of Vehicles Quarterly servicing for 2 vehicles for 5 years (USD 1500/4quarters* 5years*2 vehicles) Fuel for Vehicles 50 litres for 2 cars (100) (200 litres/ months * 12 months * 5years* 2 vehicles)	National National	2 2	28 800 000 69 405 000 1 1 1 1
6	Develop and sustain a mechanism for intersectoral collaboration	IHR NFP/NPHA	One health, Disaster Management Committee, Public Health Emergency Management Committee, NPHA	Three consultative meetings (50 pax X 1 day X 3 meetings)	National	1	521 500 000 47 880 000 1
7	Mobilise resources including domestic financing and advocate for creation of IHR budget line	IHR NFP/NPHA	NHPA Strategic and Operational plans	Develop Resource mobilization strategies (30 pax X 3 days)	National	1	34 820 000 1 34 820 000 1

TECHNICAL AREA		1.3 Antimicrobial Resistance (AMR) detection system in place					
JEE Indicator	JEE recommendations	1.3.1 Antimicrobial resistance (AMR) detection system in place				JEE Scores 1 and 1	
Objective	Summary of Planned Activities at National Level (Strategic actions)	Responsible Authority(s) for Implementation including budget line holder	Related existing plan/framework / Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Year of implementation
7	Mobilise resources including domestic financing and advocate for creation of IHR budget line	IHR NFP/NPHA	NHPPA Strategic and Operational plans	Resource mobilization meeting with Partners (50 pax X 1 day)	National	Resource mobilization with partners report available	1 34 820 000 1
1	Integration of AMR plan into the NLSP	Pharmacy Board, MoHS, MAF, EPA	AMR strategic plan, NLSP Regional AMR framework, One Health Platform	Workshop to develop One Health AMR Laboratory strategic plan (5 days; 30 people, Port Loko)	Sub- National	24 people (i.e., 80%); One Health MoHS, MAF, EPA; strategic plan developed	2022 113 110 000 1
				Conduct a meeting to validate the comprehensive NLSP (60 participants, 1day, Freetown)	National	Number of people at meeting; meeting notes; plan validated	2022 48 people; comprehensive NLSP with AMR validated 44 980 000 1
				Print and disseminate the NLSP to stakeholders (400 copies)	National	comprehensive NLSP printed and disseminated	2022 320 copies (ie., 80%) printed/disseminated 6 000 000 1

Objective	To integrate AMR surveillance, prevention, and control into the NLSP and GHSA 5-year roadmap using One Health Approach					Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)		
No							
2	In collaboration with training institutions and research facilities, build capacity for detection of AMR at central and regional level	AMR strategic plan, NLSP Regional AMR framework, One Health Platform Pharmacy Board, MoHS, MAF, EPA	Meeting to develop training plan in collaboration with the tertiary institutions (12 participants, 3 days, Freetown)	National	number of people at meeting; meeting notes; training plan developed	10 people; training plan developed	2018
			Develop curriculum and training materials (course content) and generate list of equipment, consumables and reagents (12 participants, 5 days, Freetown)	National	curriculum and training materials developed; list of equipment, consumables and reagents available	curriculum and training materials developed; list of equipment, consumables and reagents available	2019
			Engage consultants/ faculty members to deliver modules and practical sessions (3 consultants, 9 months)	National	number of consultants/faculty hired	3 consultants for 9 months	2020
			Conduct intensive trainings for 32 participants ,4 x 3 weeks	National	number of intensive trainings conducted; number of participants; length of trainings	4 trainings conducted (each 3 weeks) for 26 participants	2021
			Printing of training materials (100 copies)	National	number of training materials printed	materials printed for all participants	2022
			Procurement of equipment, reagents and consumables	National	Amount of equipment, reagents, and consumables procured	all essential equipment, reagents, and consumables procured	
			Administrative cost to training institutions (10% of AMR laboratory budget)	National	10% of AMR budget to support admin costs of training institutions	8% of AMR budget to support admin costs of training institutions	
			Engage consultant to deliver bench training	National	consultant hired to deliver training	consultant hired to deliver training	
			Improve the capacity of CPHRL to monitor quality of AMR detection			52 773 000	

Objective	To integrate AMR surveillance, prevention, and control into the NLSP and GHSA 5-year roadmap using One Health Approach					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
4	Institute specimen management system			Review, update and print SOPs (100 copies)	National	SOPs reviewed, updated, and printed
				Procurement of specimen collection kits	National	Number of specimen collection kits procured to monitor quality of AMR detection
				Meetings to develop plan to integrate AMR specimen management into the national specimen referral system (3 meetings, 60 participants, 3 days each, Western Rural)	National	number of meetings held; number of participants; AMR specimen management integrated into national specimen referral system
				Conduct a consultative meeting to design a hub and spoke system for specimen referral (2 consultants, 2 days, for 20 stakeholders, Western Rural)	National	number of stakeholders that attend meeting; hub and spoke system for specimen referral developed; number of consultants participating in meeting
				consultant international		16 stakeholders attend meeting; hub and spoke system for specimen referral developed; 2 consultants participate in meeting
				consultant national		36 200 000
				Fuel to support transportation of specimen (150 litres per week, x 16 districts)		98 196 000
5	Establish a specimen transportation and referral network from peripheral to regional and central					11 760 000
						4 162 080 000
						16 participants in meeting; referral guidelines, algorithms and forms developed
						47 940 000.00
						1 1

JEE Indicator							JEE Scores 1			
Objective		To integrate AMR surveillance, prevention, and control into the NLSP and GHSA 5-year roadmap using One Health Approach			Year of implementation					
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Target	Unit Cost		
	Establish a specimen transportation and referral network from peripheral to regional and central			Meeting to validate tools (1 day, 60 participants, Freetown) Printing of tools (1000 forms per district, 2000 guidelines and algorithms)	National	number of participants in validation meeting; tools validated	60 participants in validation meeting; tools validated	56 420 000		
					National	Number of tools printed	tools printed (800 forms and 1600 guidelines)	488 000 000		
JEE recommendations		1. Establish a monitoring and evaluation framework to ensure routine assessment, data management, analysis and reporting of antimicrobial resistance 2. Ensure reporting of AMR is incorporated into MoHS pathogen reporting systems with plans and procedures for sharing reports for action and strategic planning			Year of implementation					
Objective		Establish an AMR surveillance system			Year of implementation					
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Target	Unit Cost		
1	Develop a multi-sectoral national AMR surveillance system	Pharmacy Board, WHO, MoHS, CDC, LTWG, MAF, EPA	National AMR plan, Africa CDC Regional framework, WAHO workplan 2016-2020, One Health Platform	Establish a multisectoral AMR Technical Working Group to include local and regional expertise (steering committee meeting to develop TOR, quarterly meetings) 2 days, 30 people, Freetown	National	number of participants attending multisectoral AMR Technical Working Group meetings; TOR developed	24 people attend multisectoral AMR Technical Working Group meeting; TOR developed	201 840 000	1	
				Consultative multi-sectoral (human, animal, environmental health experts) meeting to assess data needs and develop collection tools and reporting system for AMR selected pathogens (30 stakeholders, 3 days)	National	number of participants attending multisectoral meeting; data needs identified, collection tools and reporting system for AMR selected pathogens developed	24 participants attend multisectoral meeting from human, animal, and environ health; data needs identified, collection tools and reporting system for AMR selected pathogens developed	68 010 000	1	

Objective	Establish an AMR surveillance system					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programs or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
1	Develop a multi-Sectoral national AMR surveillance System		National AMR plan, Africa CDC Regional framework, WAHO workplan 2016-2020, One Health Platform	Conduct operational survey to identify AMR priority pathogens and designate laboratories for AMR surveillance (20 researchers, 15 days, 2 workshops, review board, field costs)	Sub-national	operational survey to identify AMR priority pathogens conducted; laboratories for AMR surveillance designated; number of workshops and participants
				Procure assorted equipment, reagents, supplies and consumables for AMR lab surveillance	National	Amount of equipment, reagents, supplies and consumables for AMR lab surveillance procured
2	Build multi-sectoral capacity for AMR surveillance		Pharmacy Board, WHO, MoHS, CDC, LTWG, MAF, EPA	Multi-sectoral stakeholder meeting to identify AMR training needs; incorporate AMR into in-service curriculum (30 persons, 3 days)	National	number of participants in meeting; AMR training needs identified; AMR incorporated into in-service curriculum
				Conduct workshop to develop in - service AMR training modules (5 days, 30 people)	National	workshop conducted; number of people in attendance; AMR training modules developed
			Conduct 1 Training of Trainers for AMR Surveillance (40 participants, 2 trainers per district; 3 days)	National	TOT conducted; number of participants	16 districts received TOT for AMR surveillance (2 participants per district)
			Train laboratory personnel, clinicians, animal and environmental health workers on AMR priority pathogen surveillance (5 days, 30 people x 16 districts)	Sub-national	number of personnel trained (from lab, human, animal, and environ health) on AMR priority pathogen surveillance	16 districts trained (300 people) from lab, human health, animal and environ health on AMR priority pathogens
						1 009 760 000
						1 1 1 1

Objective	Establish an AMR surveillance system					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
3	Include AMR as a core component of professional education, training, certification and development	Pharmacy Board, WHO, MoHS, CDC, LTWG, MAF, EPA	Review and update the existing pre-service education curricula in human, animal, environ health, and food safety to incorporate AMR surveillance (40 people, 5 days, Freetown)	Review and update the existing pre-service education curricula in human, animal, environ health, and food safety to incorporate AMR surveillance (40 people, 5 days, Freetown)	National	32 people attend meeting; all relevant sectors in attendance; curricula reviewed/updated/ disseminated
		National AMR plan, Africa CDC Regional framework, WAHO workplan 2016-2020, One Health Platform	Validate the updated pre-service education curricula in human, animal, environhealth, and food safety to incorporate AMR surveillance (100 people, 2 days, Freetown)			72 480 000
4	Raise awareness on AMR		Print and disseminate the new education curricula in human, animal, environ health, and food safety (1500 copies)			106 200 000
		Oriентate lecturers in tertiary institutions on the newly developed curriculum (60 lecturers, x 2 days , Western Area)				22 500 000
		Update IPC training Curricula to include AMR (Workshop 30 people 5 days Freetown)				90 920 000
		Conduct health education campaigns, sensitization meetings (4 teams x 4 persons, Monthly, x 16 districts)	National	number of people attending meeting; IPC curricula updated to include AMR	24 people attend meeting; IPC curricula updated to include AMR	101 110 000
		Radio talk shows on AMR (monthly x 4 radio stations)	National and Sub-national	Number of health education campaigns, sensitization meetings, radio talk shows on AMR conducted		3 724 800 000
						48 000 000

Objective	Establish an AMR surveillance system					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
		Pharmacy Board, WHO, MoHS, CDC, LTMG, MAF, EPA	National AMR plan, Africa CDC Regional framework, WAHO workplan 2016-2020, One Health Platform	Printing of IEC materials (2000 copies each) Celebrate Antibiotic awareness week (2 days stakeholder meeting to discuss operational research results, national celebration/event)	National National and Sub-national	Output indicators (Monitoring and Evaluation) number of AMR IEC materials printed number of participants in stakeholder meeting
JEE Indicator	1.3.3. Healthcare associated infection (HCAI) prevention and control programs					JEE Scores 2
Objective	Develop an action plan to prevent and monitor incidence/prevalence of HAIs					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
1	Review and update national HCAI plan	Mohs, MAF, Local Council, EPA	The national HCAI plan, National IPC Action Plan, MTHE, SLMDA, LRB, MoHS, MOF, EPA, One Health Platform	Convene stakeholder workshop to review and update HCAI plan (3 days, 40 participants, Freetown) Print and disseminate the HCAI plan (500 copies)	National	Output indicators (Monitoring and Evaluation) workshop conducted; number of participants; HCAI plan reviewed/ updated HCAI plan printed and disseminated
2	Establish surveillance system of HCAI in 25 government hospitals		Workshop to develop HCAI surveillance tools (30 people, 3 days, Freetown) Workshop to validate HCAI surveillance tools and plan (50 participants, 3 days) Regional training of HCWs in HAI surveillance definition, methods and tools (30 participants per region x 5 regions x 3 days)	National	Target workshop conducted; 32 participants; HCAI plan reviewed/ updated 40 copies of HCAI plan printed/ disseminated workshop conducted; number of participants; HCAI surveillance tools developed 93 750 000 1	2018 2019 2020 2021 2022
						515 550 000 1 1 1

Objective	To strengthen HCAI surveillance and prevention programs					Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)		
No							
3	Support, monitor and evaluate infection prevention and control programs in collaboration with National IPC Unit and stakeholders	MoHS, MAF, Local Council, EPA	The national HCAI plan, National IPC Action Plan, MTHE, SLMDA, LRB, MoHS, MOF, EPA, One Health Platform	Refresher training in the second and fourth year (30 participants x 5 regions x 3 days) Develop a reporting system for HCAl surveillance and incorporate into DHIS-2 (consultant, 14 days) Conduct surveillance in selected facilities targeting human, animal, environment twice a year (10 people, 30 days each survey) Conduct quarterly IPC assessments in selected facilities to monitor compliance (2 people per district, for 16 districts, field costs) Procure PPEs, soap, sanitisers, etc	National National National and Sub-national National and Sub-national	Output indicators (Monitoring and Evaluation) consultant hired; HCAl surveillance database developed and incorporated into DHIS2 surveillance conducted in select facilities twice per year quarterly IPC assessments in selected facilities in all districts conducted Amount of PPEs, soap, sanitizer and other IPC supplies procured HH day celebrated annually	Target
4	Establish occupational health program for health workers			Celebrate Hand Hygiene Day every 5th May and Global Hand Washing Day / 15th October (Refreshments, etc) Refurbish and equip isolation facilities at selected health facilities per district (assorted equipment)	National and Sub-national	Number of isolation facilities refurbished and equipped	Unit Cost
					Isolation facilities refurbished and equipped in 16 districts	340 050 000 70 942 200	
					workshop conducted; number of participants; guidelines on HW safety developed	103 110 000	
						1 1 1 1 1 1 1	
						1 1 1 1 1 1 1	
						1 1 1 1 1 1 1	

Objective	To establish Antimicrobial stewardship programs to promote appropriate use of antibiotics						Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or ongoing activities	Detailed activities (input description for costing)	Output indicators (Monitoring and Evaluation)	Target	
No							
1				Printing and dissemination of updated guidelines (1,200 copies)			30 000 000 1
			Training of HCWs on the use of the updated guidelines in 16 districts (30 participants x 16 districts 1 day each, yearly)	Sub - National	number of participants; treatment guidelines updated to include appropriate antibiotic use	24 participants; treatment guidelines updated to include appropriate antibiotic use	244 960 000 1 1 1 1
2	To establish treatment and testing algorithm inclusive of antibiotic use	MoHS, Pharmacy board, DHMTs, MAF, EPA, District councils	Workshop to develop treatment and testing algorithm (30 participants, 5 days, Makeni)	Sub - National	number of participants; treatment and testing algorithm developed	24 participants; treatment and testing algorithm developed	103 110 000 1
3	Develop regulation for antibiotic use in animals, agriculture and fisheries	Pharmacy board policy ad guidelines, national testing algorithm, AMR plan, One Health Platform, National IPC Action Plan	Disseminate treatment guidelines to			24 participants; policy and guidelines for antibiotic use developed; policy and regulations for AMS in health facilities and drug outlets developed	103 110 000 1
4	Monitor prescription and consumption patterns in both human and animals	oversight	Convene workshop to review surveys , develop monitoring tools and plan supervisory visits Joint event, with 3 groups for a) Humans and b) Animals and c) environment.	Sub - National	number of participants; monitoring tools developed; training on AMS conducted at HFs	24 participants; monitoring tools developed; training on AMS conducted at HFs	86 550 000 1
			Conduct training for antimicrobial stewardship at health facilities (30 participants, Makeni)				68 010 000 1

Objective	To establish Antimicrobial stewardship programs to promote appropriate use of antibiotics						Year of Implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for Implementation including budget line holder	Related existing plan/ framework / Programme or ongoing activities	Detailed activities (input description for costing)	Output indicators (Monitoring and Evaluation)	Target	
5	Establish antimicrobial stewardship committees at health facilities level			visits	integrated supervisory visits to centres 6 people (animal, human, environment), 5d x 16 districts, yearly		
				Conduct 2 in-service sensitizations on antimicrobial stewardship at Central, district and CHC level (50 participants, 3 days)	National	number of participants; in-service sensitization on AMS conducted at district and central levels	36 participants; in-service sensitization on AMS conducted at district and central levels
				Conduct 2 days workshop to train district AMS teams	Sub - National	number of participants; district AMS teams trained	86 550 000 1
				Conduct biannual prevalence survey on antibiotic use at 25 government hospitals (20 participants, 5 days)	National and sub - national	biannual prevalence survey on antibiotic use conducted at 25 government hospitals; number of participants	50 460 000 1
				Establish and operationalize medicines and therapeutic Committees and other related committees. (20 Participants)		Medicines and therapeutic Committees established and operationalized; number of participants	109 000 000 1 1 1 1
				Monitor antimicrobial stewardship programmes	National	Medicines and therapeutic Committees established and operationalized; 16 participants	375 040 000 1
				Convene consultative meeting to review the national drugs act (30 participants, 3 days, Western Rural)	National	consultative meeting convened to review the national drugs act; number of participants	68 010 000 1
6	Update the National Medicines Policy to include use of antimicrobial agents					consultative meeting convened to review the national drugs act; 30 participants	
7				Workshop to update the National Medicines Policy to include AMR (5 days, 30 people, Western Rural)	National	Workshop to update the National Medicines Policy to include AMR conducted; number of participants	103 110 000 1 1

Objective	To establish Antimicrobial stewardship programs to promote appropriate use of antibiotics					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
	Update the National Medicines Policy to include use of antimicrobial agents		Conduct a meeting to validate the reviewed policy (60 participants, 1day, Freetown)	National	policy validated; number of participants	60 820 000 1
		Print and disseminate the updated National Medicines Policy to stakeholders (400 copies)	National	Number of copies of updated National Medicines Policy printed/disseminated	320 copies of updated National Medicines Policy printed/ disseminated	4 000 000 1
		District level sensitization meetings (16 meetings, 30 participants each, 1 day, 2 nights)	National and sub- national	District level sensitization meetings held; number of districts; number of participants	District level sensitization meetings held; 16 districts reached; 30 participants per district	526 560 000 1
TECHNICAL AREA		Zoonotic Disease				
JEE Indicator	1.4.1 Surveillance systems in place for priority zoonotic diseases/pathogens					JEE Scores 1
		1. Implement a One Health framework with joint planning, data and information sharing and joint response. 2. Strengthen surveillance for zoonoses with the development of country guidelines. 3. Develop and implement one health surveillance policy and framework 4. Strengthen animal health clinical and laboratory services.				
Objective	Establish a Zoonotic surveillance system for five or more zoonotic diseases / pathogens of greatest public health concern by 2022					Year of implementation
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Comments or Potential challenges
1	Develop and Implement national Guidelines for zoonotic disease Surveillance	MAF , MOHS	Zoonotic disease prioritization workshop with key national and international stakeholders for 4 days for 50 people.	Freetown	Report of workshop 50 persons	Selection of prioritized zoonotic diseases and participants-This activity will take place next week 15th to 18th Nov 2017
		Hire an International Consultant for guidelines development for 6 months	Based in Freetown	Validated guidelines for zoonotic disease surveillance	One International Consultant for 6 months Funding	109 200 000 1
						824 964 000 1

Objective	Summary of Planned Activities at National Level (Strategic actions)	Establish a Zoonotic surveillance systems for five or more zoonotic diseases / pathogens of greatest public health concern by 2022					Year of implementation
		Responsible authority(s) for implementation including budget line holder	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Comments or Potential challenges	
			Draft guidelines development/adaptation workshop with 50 stakeholders for 5 days	Makeni/Bo	Report of workshop	50 persons	Funding and resource persons
			Guidelines validation workshop with 50 subject Matter Experts/Stakeholders (SMEs) for 5days	National	Report of workshop 50 persons		Funding 131 850 000 1
			Training materials development workshop for 40 SMEs for 4 days	National	Report of workshop	40 SMEs	Resource persons 122 480 000 1
			Training of Trainers workshop for 75 national and district facilitators for 4 days	National	Report of workshop	75 nationals	Funding 179 600 000 1
	Develop and implement national Guidelines for zoonotic disease Surveillance	MAF, MOHS	District cascade trainings for 2,000 PHU staff, Wildlife Assistants and Livestock Assistants for 5 days in each district	All districts	Report of cascade training conducted	2000PHU, Wildlife and livestock assistant	Funding 3 274 000 000 1 1 1 1
			Printing and distribution of 4500 zoonotic surveillance tools at all levels	National and Districts levels	Availability of zoonotic tools at all levels	2000 trainees	Funding 112 500 000
			District monthly supportive supervision to high risk areas (cattle market, health facilities, abattoirs)	District	Monthly supportive supervision report of Surveillance system at all levels	960 supportive supervisory visits	Logistics 6 620 690 0.2 0.2 0.2 0.2

Objective	Summary of Planned Activities at National Level (Strategic actions)	Establish a Zoonotic surveillance systems for five or more zoonotic diseases/ pathogens of greatest public health concern by 2022					Year of implementation
		Responsible authority(s) for implementation including budget line holder	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Comments or Potential challenges	
2	Develop and implement national Guidelines for zoonotic disease Surveillance	MAF, MOHS	National quarterly supportive supervision to districts and selected sites	National	Regular quarterly supportive supervision report of Surveillance system at all levels	240 supportive supervisory visits	Logistics
			Production of a Monthly Prioritized Diseases bulletin	National	Availability of Monthly Prioritized Disease bulletin produced	1,200 Bulletins	Logistics (Computer, internet, printers, photocopiers etc) and trained personnel
			Recruitment of 30 Laboratory personnel	National	Availability of staff	30 staff	Equipment and reagents
			Training of 30 Laboratory staff (Bio-safety, biosecurity, quality management)	National	Training report	30 staff	Funding
			Trainers and training materials (consultant)				574 476 000
		MAF, MOHS	Provide lab equipments, reagents and other supplies for detection/ confirmation of prioritized zoonotic diseases	National	Availability of lab equipments, reagents and other supplies	30 staff	Logistics (Computer, internet, printers, photocopiers, transport, sample collection tools and reagents) and trained personnel
			Recruitment of 10 Laboratory personnel per regional lab (total of 30)	National	Availability of staff	30 staff	Equipment and reagents
			Training of 30 Laboratory staff (Bio-safety, biosecurity, quality management)	National	Training report	30 staff	Funding

Objective	Establish a Zoonotic surveillance systems for five or more zoonotic diseases/ pathogens of greatest public health concern by 2022					Year of implementation		
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Comments or Potential challenges	Estimated cost (Local currency)	
			Provide lab equipments, reagents and other supplies for detection/ confirmation of prioritized zoonotic diseases	National	Availability of lab equipments, reagents and other supplies	30 staff	Logistics (Computer, internet, printers, photocopiers, transport, sample collection tools and reagents) and trained personnel	2018
			Construct 3 laboratories	Regional			6 615 000 000	1
			3 labs are equipped				8 820 000 000	1
	Construct 3 regional animal health laboratories in Kenema, bor, freetown		recruit 10 laboratory personnel per regional lab (30 persons)				720 000 000	1
			Train lab staff biosafety and bio security and quality management				337 360 000	1
JEE Indicator	1.4.2 Animal Health or Veterinarian Workforce					JEE Scores 1		
JEE recommendations	1. Build capacity for animal health or veterinary public health including human resources and organizational structure. 2. Strengthen technical capacity for animal health including technical capacity development programmes.					Year of implementation		
Objective	Increase animal health workforce capacity at national level and in atleast 80 percent of the districts by 2022					Year of implementation		
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Comments or Potential challenges	Estimated cost (Local currency)	
			Develop training material				279 888 000	2018
			Training				75 840 000	1
		MAF, MOHS	Train and deploy Para Vets in at least 13 districts	National	Para vets trained and deployed	132 Para vets	Availability of Funds	2019
1	Strengthen technical capacity for animal health workforce		Training of 3,000 CAHWS in all districts	National, Districts	Report of training conducted	3,000 CAHWS	Availability of Funds	2020
								2021
								2022

Objective	Summary of Planned Activities at National Level (Strategic actions)	Increase animal health workforce capacity at national level and in atleast 80 percent of the districts by 2022						Year of implementation
		Responsible authority(s) for implementation including budget line holder	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Target	Comments or Potential challenges	
		Hire a consultant to develop pre-service curriculum for Vets training in country for 3 months	National	Consultant hired and curriculum developed	1 Consultant	Availability of Funds	5 880 000	2022
		Curriculum development workshop for 40 SMEs for 5 days	National	Workshop held for curriculum development	40 SMEs	Availability of Funds	72 480 000	2021
		Training of at least 4 Vets in FETPV 2-year regional program in another west african country	National	Training conducted and certificate issued	4 Vets	Availability of Funds	298 000 000	2020
		In service specialized animal health workforce skills training	National, Districts	Specialized animal health workforce presence in communities	700 Animal Health workers @ national and district level	Availability of Funds and personnel	471 180 000	2019
		Workshop to review and update recruitment and progression scheme for animal health workforce (50 people for 4days)	National	Report of workshop conducted	50 persons	Availability of funds, resource person	126 400 000	2018
2	Establish a sustained mechanism for the recruitment and deployment of animal health specialists into the Public Health Sector	Recruitments of animal health workforce (50)					600 000 000	
		Workshop to validate recruitment and progression scheme for animal health workforce (30 people for 3days)	National	Report of workshop conducted	30 persons	Availability of funds	46 410 000	

JEE Indicator		1.4.3 Mechanisms for responding to infectious zoonoses are established and functional						JEE Scores 1		
JEE recommendations		Implement a One Health framework with joint planning, data and information sharing and joint response.								
Objective	Establish a multi-sectorial mechanism for coordinated response to outbreaks of zoonotic diseases by human, and animal sectors at national and district levels by 2022							Year of implementation		
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Target	Comments or Potential challenges	Estimated cost (Local currency)		
1	Operationalize the One Health Platform	MAF, MOHS	Launching of One Health platform (OHP) in all districts-30 stakeholders for one day per district-transport and refreshment (30 X 16 =480)	All districts	One Health Platform launched in all districts	16 districts	Availability of funds	174 560 000	2022	
			Facilitate quarterly OHP coordination meetings in all districts	all districts	Report of quarterly OHP coordination meetings facilitated	64 meetings	Availability of funds	163 345 000	2021	
			Facilitate National quarterly OHP coordination meetings -50 people for 2 days	national	Report of quarterly OHP coordination meetings facilitated	4 Meetings	Availability of funds	75 500 000	2020	
			Workshop to draft develop OH strategic plan (50 People for 5days)	National	Report of workshop conducted	50 persons	Availability of funds	151 850 000	2019	
			Secretariat meeting to finalize the draft OH strategic plan (15 people for 3 days)	Makeni	Report of workshop conducted	15 persons	Availability of funds	23 505 000	2018	
			Workshop to validate OH strategic plan (30 People for 3 days)	National	Report of workshop conducted	30 persons	Availability of funds	46 410 000		
			Workshop to validate OH strategic plan (40 People for 3days)	national	Report of workshop conducted	40 Persons	Availability of funds	52 080 000		
	2	Develop and implement a guideline for multisectorial response to zoonosis	MAF, MOHS	Workshop to develop the guidelines (50 people for 5days)	National	Report of workshop conducted	50 persons	Availability of funds, Resource Persons	131 850 000	1
					Consultant				98 196 000	1

Objective	Establish a multi-sectorial mechanism for coordinated response to outbreaks of zoonotic diseases by human, and animal sectors at national and district levels by 2022						Year of implementation	
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Comments or Potential challenges	Estimated cost (Local currency)
2	Develop and implement a guideline for multisectorial response to zoonosis	MAF, MOHS	Workshop to validate the guidelines (40 people for 3days) Refresher training for Multi-sectorial RR is at national level (30 people for 5days)	National	Report of workshop conducted	40 Persons	Availability of funds, Resource Persons	52 080 000 1
			Refresher training for Multi-sectorial RRTs at district level (4days for 30 people/district)		Report of refresher training conducted	30 Persons	Availability of funds	53 110 000 1
			Conduct simulation exercises to test readiness at national and district levels (DSA and other travel cost needed)	All districts	Report of refresher training conducted	480 persons from 16 districts	Availability of funds	878 720 000 1
			After Action Review and dissemination of reponse to zoonotic emergencies with all stakeholders (Workshop of 50 persons for 2 days)	National	National After action review report	50 persons	Availability of funds	63 900 000 1 1 1 1

Technical Area	JEE Indicator	1.5 Food Safety						
		1.5.1 Mechanisms for multisectoral collaboration are established to ensure rapid response to food safety emergencies and outbreaks of foodborne diseases			JEE Scores 2			
JEE recommendations	1. Accelerate the Parliamentary ratification of the Food Safety bill and establish food safety standards.			Year of implementation				
Objective	To strengthen food safety systems by 2022.	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s)	Related existing plan/ framework / Program or on going activities	Detailed activities	Where is the action to be implemented (National or sub-national)	Output indicators	Targets
No								
1	1. To ratify the food and feed safety bill	DEHS/MOHS and NFP/MAF/ MFM/R		Consultative meeting with stakeholders (4 regional meetings of 100 Pax*2 days residential) 75 Outside 3 Cars per district =45 cars 585 per car 30 transport allowance 100k	National and sub national	Number of regional Meeting conducted	4 consultative meeting	540 800 000 1
				Sensitization and advocacy meeting with health committee of parliament (Zero cost)	National	Meeting for sensitization and ratification	1 meeting	- 1
				Dissemination: Print tools (20,000 brochures /bulletins)	National and sub national	Number of dissemination tools, number of television and radio programmes	20,000 prints	40 000 000 1
				Dissemination: Television appearances (10 appearances per year for 4 years) Air time at 3Mio per hour	National and sub national	Number of dissemination tools, number of television and radio programmes	40 TV appearances	30 000 000 1 1 1 1
				Dissemination: Radio discussion programmes conducted (36 total appearances per year for 5 years)	National and sub national	Number of dissemination tools, number of television and radio programmes	180 radio appearances	36 000 000 1 1 1 1
2	2. Establish a food safety surveillance system	DEHS/MoHS and NFP	IDSR - DHSE		National and sub-national	Number of meetings	1 meeting	41 250 000 1

Objective	To strengthen food safety systems by 2022.								
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s)	Related existing plan/ framework /Programme or ongoing activities	Detailed activities	Where is the action to be implemented (National or sub-national)	Output indicators	Targets	Estimated cost (Local currency)	Year of implementation
No									2022
				Hire 1 national and 1 international consultant to facilitate devt of TGs, tools and SOPS (60 days)	National and sub-national	Contract documents	2 signed contracts	279 888 000	2021
				National Consultant				35 280 000	2020
				Hold 4 regional meetings for development of TGs and reporting tools (60Pax*3days*4 regions residential. 5 cars 45 transport allowance venue 3M	National and sub-national	Number of meetings	4 meetings	484 080 000	2019
				Workshops to review draft food surveillance guidelines (60 Pax*3 days*2 workshops) 30 outside transport allowance no car	National	Number of meetings	2 meetings	190 440 000	2018
				Workshops to validate draft food surveillance guidelines (60 Pax*1 day) 30 outside no car	National	Number of meetings	1 meetings	46 220 000	
				Train for trainer 5 per district, total 80 trainer per training 2 participants, 4 training 19 outside no car				220 708 000	
				Train technical people on food safety surveillance (30 Pax*3 days*20 trainings) implemented in 2 years 5 coming from outside	National and sub-national	Number trained	600 People trained	397 100 000	
									1 1

Objective	To strengthen food safety systems by 2022.					Year of implementation		
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s)	Related existing plan/ framework /Programme or ongoing activities	Detailed activities	Where is the action to be implemented (National or sub-national)			
No					Output indicators	Targets	Estimated cost (Local currency)	
				Hold quarterly multi-sectorial food safety coordination meetings (30Pax*1day*20 quarters in 5 years) 15 outside no cars	National and sub-national	Number of meeting held to establish a coordination platform	20 meetings	102 440 000
				Meeting to develop a reporting structure and processes for food safety surveillance (40Pax*3 days *2 meetings) 32 outside no cars	National	Number of: 1. Meeting, surveillance and reports 2. commencement of reporting for every activity	2 Meetings	173 920 000
				Train Food safety reporting personnel (30Pax*3 days* 2 trainings) 15 outside no car	National	Number of trainings	2 trainings	124 770 000
		IDSR - DHSE	DEHS/MOHS and NFNP	Develop training manuals (48Pax*3 days*3 meetings) 30 outside 15 cars	National	Number of facilitators and participants, Availability of manuals	45 participants/3 meetings per year	281 970 000
				Conduct routine quarterly support supervision for food safety (8Pax*6 days*20 quarters) Supervisory visit 4 times per year for 5 years each team 2 people	National and sub-national	No of visits	20 visits	59 600 000
				Procure 20 Internet dongles @1mio initial 500k every months x 5 years 500K every months x 5 years	National and sub-national	No of dongles		20 000 000
								6 000

Objective	To strengthen food safety systems by 2022.						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s)	Related existing plan/ framework /Programme or ongoing activities	Detailed activities	Where is the action to be implemented (National or sub-national)	Output indicators	Targets	Estimated cost (Local currency)	
				Procure 20 laptops for food safety reporting @ 1200USD	National and sub-national	No of laptops	20	176 400 000	1 1	2022
				Conduct inspection for food safety at sites of concern 10 times quarterly (5Pax*5days per quarter*20 quarters) 4 x a year 1car	National and sub-national	No of visits	200 inspections	54 500 000	1 1 1 1	2021
			IDSR - DHSE	Hold quarterly national food safety surveillance and response review meetings (50Pax*- 2days*2quarters) 30 outside 15 cars no transport	National and sub-national	Number of meetings	20 meetings	296 700 000	1 1 1 1	2020
			DEHS/MOHS and NFNP	Review and update the SOPs for the disposal of food items unfit for human consumption (60Pax*3 days*3 meetings) 30 outside 15 cars 15 transport allowance	National	Number of review meeting and reports 2. Validation of the SOPs	1 Draft SoPs	307 485 000	1	2019
				Validate the SOPs for the disposal of food items unfit for human consumption (60Pax*1 day*1 meetings) 30 outside 15 cars 15 transport allowance	National	No of meetings	1 meeting	53 495 000	1	2018
3		Strengthen capacity for response to food safety incidents	DEHS/MOHS and NFNP	Train 200 staff on the SOPs for the disposal of food items unfit for human consumption (200Pax*3 days residential) per training 25 5 outside 2 cars	National and sub-national	Number of staff to be trained (12 per district)	200 participants	206 880 000	1 1	

Objective	To strengthen food safety systems by 2022.						Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s)	Related existing plan/ framework /Programme or ongoing activities	Detailed activities	Where is the action to be implemented (National or sub-national)	Output indicators	Targets	Estimated cost (Local currency)
No								
				Capacity building for food safety supervisors (16 Pax *3months) international	National and sub-national	Number of staff to be trained (16 per district)	16 staff/Food safety inspectors	1 811 040 000
				Assessment of slaughter houses a reporting on structure and materials for food safety systems (50Pax*3 days *5 meetings)	National and sub-national	Number of assessment report (1per year)	1 per year	409 250 000
				Provide basic facilities (water and toilet facilities) for health service delivery systems (22 facilities)	National and sub-national	Number of facilities 22	Reporting	4 917 000 000
				Mapping and assessment of fish and meat markets (50 markets, 50 pax*2days/year/5years	National and sub-national	2 meetings	2 meetings	182 500 000
				Mapping and assessment of all fishing companies, fish landing sites/jeeties and ice factories (40 companies, 80 pax*2days/year/ 5years		Number of mapping assessment report for 40 companies	80 inspectors	146 000 000
				Laboratory sampling of water and ice meant for fish processing (sampling collection quarterly*20 quarters). 20 facilities (20fac x 20quart) 400/5years	National and sub-national	Lab result and report availability	400 test	45 625 000
				Training of zonal inspectors/food safety focal persons (22pax*3days).	National	Number of training report	1 meeting	27 474 000
				Motivation/incentives for zonal inspectors (1000x*22 x 5years) (Le1.320 000)	National	Number of staff motivation	22 staff allowances	40 975 000

Objective	To strengthen food safety systems by 2022.					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s)	Related existing plan/ framework /Programme or ongoing activities	Detailed activities	Where is the action to be implemented (National or sub-national)	
				Procurement of inspection kits/equipment	National and sub-national	93 125 000
				Sensitize public on food items unfit for human consumption (25 TV sessions) @3M per session	National and sub-national Number of TV sessions	25 1
				Sensitize public on food items unfit for human consumption (50 radio adverts) @ 1m per advert	National and sub-national No of radio sessions	50 1
				Advocate for the revitalization of 5 regional sanitary courts 5 meeting 15 participants 5 outside 2 cars	National and sub-national 1. Number of sanitary courts revived 2. Meeting held and reports	13 525 000 5
				Orientate 50 judicial officers on food safety issues (50Pax/2 days) 15 outside 15 cars	National and sub-national Number of judiciary officials to be oriented	55 275 000 50 judicial officers / 1 meeting 1 1

Technical Area	JEE Indicator	1.6 Biosafety and Biosecurity						JEE Scores 1	
		1.6.1 Whole-of-government biosafety and biosecurity system is in place for human, animal, and agriculture facilities			Year of Implementation				
JEE recommendations	Objective	Establish and enact OneHealth legislation and regulations on biosafety and biosecurity.	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or on going activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output Indicators (Monitoring and Evaluation)	Estimated cost (Local currency)
	1	1. Establish and enact OneHealth legislation and regulations on biosafety and biosecurity.	Desktop review and upgrade of existing legislation to include Biosafety and Biosecurity	ONS, MoHS, MAF, District councils, EPA, Ministry of Trade and Industry, Ministry of Labour, NPHA	GHSA, Public Health Ordinance, ONS Policy, Animal Health Strategic Plan	Meetings to identify, review and update existing legislation (4 meetings, 30 participants, Makeni/Bo/Western Area) need link to legislation	National	Meeting reports, updated legislation	441 840 000
	2	Develop One-Health comprehensive national policy and guidelines on biosafety and biosecurity		ONS, MoHS, MAF, District councils, EPA, Ministry of Trade and Industry, Ministry of Labour, NPHA	GHSA EPT-2 Program, ONS policy, NLSP, National IPC policy and guidelines	Hire a legal consultant to facilitate the legislation through parliament and lead the desktop review (6 months)	National	Consultant final report,	70 560 000
						Set up a working group to present and advocate for biosafety and biosecurity legislation at parliament level submit request through the legal mechanism no cost related	National	updated legislation presented to parliament	-
						Convene a working group consisting of stakeholders and experts to start drafting policy and guidelines (30 participants, 1 day, Makeni/Bo/Western Area, 3 meetings: e.g. kick-off, offline work, re-convention)	National	Meeting report; stakeholders and experts identified	124 566 000
						Conduct meetings to review above biosafety and biosecurity policy and guidelines (50 participants, 3 days, Makeni/Bo/Western Area) two meetings, in year 1 Workshop	National	Meeting report, draft policy and guidelines	281 700 000
						Meeting to validate biosafety and biosecurity policy and guidelines (60 participants, 1 day, Makeni/Bo/Western Area)	National	Meeting report; policy and guidelines validated	65 770 000
						Launching implementation meeting for OneHealth key stakeholders (60 participants, 1 day, Makeni/Bo/Western Area)			65 770 000
						4x Follow-up meeting to review adherence and any other issues relating to policies. (60 participants, 1 day, Makeni/Bo/Western Area)			263 080 000
									1 1 1 1

Objective	Establish and enact OneHealth legislation and regulations on biosafety and biosecurity.					Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)	
3	Establish national OneHealth biosafety Committee including chair			Printing and dissemination of new (and revised) policy and guidelines (1000 copies)	National	Printed policy and guidelines	50 000 000	1	2018
		Determine TORs and governance-coordination structure (one meeting 25 participants, 2 days, Makeni/Bo/Western Area)					47 175 000	1	2019
		Conduct orientation meeting (30 participants , x 1 day, Makeni/Bo/Western Area)					37 335 000	1	2020
		Stakeholders meetings to review and update the national integrated waste management policy and strategies (30 participants, 3 days, Makeni/Bo/Western Area)			National	Meeting reports; national integrated waste management policy and strategies reviewed and updated	74 860 000	1	2021
		Consolidation meetings (30 participants, 1 day, Makeni/Bo/Western Area)					37 335 000		2022
4	Establish integrated waste management protocol including decommissioning protocol for all biological agents and equipments.		GHSA EPT-2 Program, ONS policy, NLSP, National IPC policy and guidelines	Meeting to validate the national integrated waste management policy and strategies (60 participants, 1 day, Makeni/Bo/Western Area)	National	Meeting report; national integrated waste management policy and strategies validated	64 270 000	1	
		Launching - implementation meeting for ONEHealth key stakeholders (60 participants, 1 day, Makeni/Bo/Western Area)					64 270 000		
		Printing and dissemination of national integrated waste management policy and strategies policy and guidelines (100 copies)		National	Printed policy and guidelines; dissemination of policy/guidelines	2 500 000	1		
5	Review and update the National Laboratory Strategic plan 2016-2020 to include Biosecurity and to integrate Biosafety for animal and environmental health laboratories		Stakeholders workshop to review and update the national laboratory strategic plan (50 participants, 5 days, Makeni/Bo/Western Area)	National	Updated draft plan	159 700 000	1	1	

Objective	Establish and enact OneHealth legislation and regulations on biosafety and biosecurity.					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
6	Develop and review national protocols and procedures for the transportation/ shipment of biologically hazardous materials	GHSA EPT-2 Program, ONS, National IPC policy and guidelines	Meeting to validate the biosecurity aspect of the national laboratory strategic plan (60 participants, 1 day, Makeni/Bo/Western Area); two meetings in first year. Printing and dissemination of national laboratory strategic plan (100 copies) OneHealth working group consisting of key stakeholders, to review protocols (20 people, 2 days, two meetings, Makeni/Bo/Western Area)	National National	Meeting report, validated plan Printed plan; plan disseminated	64 270 000 5 000 000
			Training of laboratory staff to package samples to UN regulations (25 participants, 3 days, Makeni/Bo/Western Area)	National	Reviewed protocols per year	33 165 000
			Adopt national legislation in support of this objective no cost related link to legislation	National	national protocols and procedures for the transportation/ shipment of biologically hazardous materials developed	63 070 000
JEE Indicator		1.6.2 Biosafety and biosecurity training and practices				
JEE recommendations		1. Establish and enact legislation and regulations on biosafety and biosecurity issues nationwide.				
Objective	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Year of implementation
1	Appoint and train onehealth biosafety and biosecurity officers in all human, animal and environmental laboratories	ONS, MoHS, MAF, District councils, EPA, Ministry of Trade and Industry, Ministry of Labour, National biobank committee, NPHA	GHSA EPT-2 Program, ONS policy, NLSP, National IPC policy and guidelines; National Health and Safety policy	Meeting to develop TORs for both human, animal and environmental biosafety and biosecurity officers (in selected facilities)	National and sub-national	126195000 1

Objective	To develop infrastructure and human resource capacity to address biosafety and biosecurity issues nationwide.						Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	
1	Appoint and train one health biosafety and biosecurity officers in all human, animal and environmental laboratories			1 International Consultant to develop training materials and conduct training 2 months 1 national consultant 2 months	National and sub - national		189 042 000 1
2				Workshop to review and validate the training materials 60 participants 2 days 45 from away cars 10			23 520 000 1
3				Training the Trainer 30 participants 5 days 25 10			92 470 000 1
4				training of above two weeks 120 trainee per training 30 participants 4 times 25 away 10			109 960 000 1
5				To conduct training needs assessment (10 participants, 3 days)	National and sub -national		1 073 640 000 1 1 1 1
6				GHSA EPT-2 Program, ONS policy, NLSP, National IPC policy and guidelines; National Health and Safety policy			41 045 000
7				Workshop to develop training plan and content on biosafety/biosecurity 30 participants 5 days, Makeni/Bo/Western Area)	Sub - national		
8				Conduct training of master trainers on biosafety/biosecurity (30 from districts, 4 from central, Makeni/Bo/Western Area)	National		97 555 000 1 1 1
9				Conduct training of designated Biosafety and BioSecurity (20, Makeni/ Bo/Western Area)	Sub - national		107 035 000
10				To convene meetings to develop biosafety and biorisk assessment tools and laboratory biorisk assessment plan (30 participants, 3 days, Makeni/Bo/ Western Area)	National	Training needs assessment completed	77 665 000 1
11				Conduct biorisk assessment of laboratories and health care facilities/ inventories and implement any suggested upgrades		training of master trainers on biosafety/biosecurity conducted in how many districts	65 235 000 1

Objective	To develop infrastructure and human resource capacity to address biosafety and biosecurity issues nationwide.						Year of implementation	
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)
		Conduct biorisk assessment of laboratories and health care facilities/inventories and implement any suggested upgrades	ONS, MoHS, MAF, District councils, EPA, Ministry of Trade and Industry, Ministry of Labour, National biobank committee, NPHA	Conduct biosafety quarterly assessment of all labs (3 participants per district, 10 days) and produce final report 16 team	Conduct biosafety quarterly assessment for the national public health reference lab, animal lab and other institutional labs that handle and store agent pathogens (2 participants per team, 5 days) and produce final report	National and sub national	Assessment completed to ensure standardized approach among all labs	1 360 000 000
		Conduct biorisk assessment of laboratories and health care facilities/inventories and implement any suggested upgrades	ONS, MoHS, MAF, District councils, EPA, Ministry of Trade and Industry, Ministry of Labour, National biobank committee, NPHA	Upgrade existing infrastructure based on recommendations from biosafety and biorisk assessment results Procurement 20 Biosafety Cabinet Class II@ 1560 200 Fire Extinguish@ 200 200 Fire Blanket@ 50 200 Fire Alarm @20	Map and yearly update pathogen storage facilities and their locations Procurement 45 Storage refrigeration (+2 to 8C) @ USD 500 45 Freezer for storage (-20) @ USD 1000 20 Freezer for storage (-80)@ USD 2500 20 GPS (for laboratory mapping) @ 500	National	biorisk assessment tools and laboratory biorisk assessment plan developed	36 500 000
	4	Create linkages between human, animal and environmental health labs and establish collaboration on biorisk management		Meeting to map existing animal health labs (30 participants, 1 day, Makeni/Bor/Western Area) 2 times per year	Meeting to map existing animal health labs (30 participants, 1 day, Makeni/Bor/Western Area)	National	Inventory of all stored pathogens	298 000 000
				Meetings to draft SOPs and guidelines for collaboration between animal, human and environmental health labs (30 participants , 5 days, Makeni/Bor/Western Area)	Sub - national	Infrastructure upgraded		109 960 000
								1

Objective	To achieve and sustain at least 95% coverage of measles second dose coverage per year						Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	
				Print and distribute of training materials 2500 copies @10 pages			12 500 000 1 1 1
			Refresher TOT for National Facilitators on the RED/REC strategy (32 ppx X 5 days every 2 years)	National		54 984 000 1 1 1	
			Refresher TOT for DHMTs on the RED/ REC strategy (4 ppx X 5 days X 16 districts every 2 years)	National		227 015 000 1 1 1	
			Cascade training for health facilities on the RED/REC strategy (2 ppx X 5 days X 1500 health facilities every 2 years) total 3100 trainee and facilitators 62 trainings of 50 participants	District		5 123 370 000 1 1 1	
			National Supervisors to support district cascade training (32 ppx X 7 days)	District		204 400 000 1 1 1	
		EPI MANAGER	Advocacy meeting with Paramount Chiefs, Ward councillors, District Councils and MTHE (192 plus 1 each chiefdoms + 69 wards + 21 councils + 20 from MTHE) for 1 day X 5 regions estimated at 100 participants each region	Regional		387 750 000	
			Community engagement with chiefdom and ward stakeholders, religious leaders and youths (50 ppx X 192 chiefdoms in other districts + 30 zones in Western Area)	Chiefdom/Wards		2 851 200 000 1 1 1	
			Organize workshop for development of IEC materials (30 ppx X 2 days)	National		34 060 000 1 1 1	
			Field testing of developed IEC materials (1 day) 4 people per team, 5 team 1 day	National		12 125 000 1 1 1	
			Print and distribute IEC materials (1 electronic print banner per HF X 20 copies per HF X 1500 HFs) @500	National		15 000 000 000 1 1 1	
			REC/microplanning workshop (5 ppx X 2 days X 1500 HFs yearly)	Health facility		21 645 000 000 1 1 1	
		EPI MANAGER	Consolidation of HFs plans at district level (4 ppx X 5 days X 16 districts)	District		493 568 000 1 1 1	
	Develop RED/REC plan in every health facility						

Objective	To achieve and sustain at least 95% coverage of measles second dose coverage per year						Year of implementation	
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	
Develop RED/REC plan in every health facility	EPI MANAGER	cMYP (2017 - 2021)		National Supervisors to support district level consolidation process (32 pxs (2 per district) X 7 days)	District		204 400 000	1 1 1 1 1
Conduct regular performance review of implementation of REC strategy	EPI MANAGER	cMYP (2017 - 2021)		Consolidation of district plans at national level Workshop 70 participants 2 days 64 outside 14 cars	National		123 170 000	1 1 1 1 1
Strengthen AEFI monitoring, reporting and investigation	EPI MANAGER	cMYP (2017 - 2021)		Printing of RED tools and provision of stationery 5 copies per health facilities 1500 @500	National		3 750 000	1 1 1 1 1
				Quarterly district performance review meeting (1 pxs X 2 days X 1500 HFs) 100 participants per meeting	District		3 891 200 000	1 1 1 1 1
				Quarterly national performance review meeting (3 pxs X 2 days X 16 Districts) + 10 National EPI staffs	National		100 375 000	
				Refresher TOT for National Facilitators on Immunization in Practice (4 pxs X 5 days X 16 districts every 2 years)	National		224 990 000	1 1 1
				Refresher TOT for DMTs on Immunization in Practice (4 pxs X 5 days X 16 districts every 2 years)	National		202 568 000	1 1 1
				Cascade training for health facilities on Immunization in Practice (2 pxs X 3 days X 1500 health facilities every 2 years)	District		7 036 200 000	1 1 1
				National Supervisors to support district level training (20 pxs X 7 days)	District		84 875 000.00	1 1 1
				Sensitization meeting at community level (50 pax X 1 day X 1500 HFs)	Community		22 275 000 000	1 1 1 1
				Community mobilization using CHWs/ town criers (2 CHWs X 1500 HFs)	Health facility		210 000 000	1 1 1 1
				Sensitization meeting at district level (200 pxs X 1 days X 16 districts)	District		448 000 000	1 1 1 1
				Radio Discussions (4 slots per district per month) @1mlo	District		4 000 000	1 1 1 1

		Year of implementation					
Objective	To achieve and sustain at least 95% coverage of measles second dose coverage per year	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)
No	Summary of Planned Activities at National Level (Strategic actions)	EPI MANAGER	cMYP (2017 - 2021)	Develop IEC materials (30 pax X 2 days) Field testing of developed IEC materials (1 day) Monthly district-to-health facility supportive supervision (4 pxs per districts X 5 days X 16 districts) Quarterly National-to-District-to-health facility supportive supervision (4 pxs per districts X 5 days X 16 districts) Review existing training curricula to include AEFI monitoring and reporting (4 technical meetings x 30 pxs X 4 days)	National District National National		34 060 000 48 500 000 2 328 000 000 194 000 000 78 960 000
JEE Indicator	1.7.2. National Vaccine	Conduct refresher training of District Health Management Teams (DHMTs) on the District Vaccination Data Management Tool. Track implementation of all recommendations of the 2016 cold chain assessment					JEE Scores 3
Objective	To strengthen the capacity of DHMTs for improved vaccine access and delivery	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)
No	Summary of Planned Activities at National Level (Strategic actions)	EPI MANAGER	cMYP (2017 - 2021)	Orientalion of National EPI Staff on DVDMT (15 pxs X 2 days every 2 years) Training of DHMTs on DVDMT (6 pxs X 3 days X 16 districts every 2 years) Quarterly Data Quality Audit (16 pxs X 5 days X 16 districts)	National National District		28 330 000 115 830 000 297 328 000
	Build the capacity of DHMTs on DVDMT			Procure additional Cold Chain Equipment for human and animal health (CCE) - 7 freezers (Ice-pack refrigerators) in the first 2 years	National	20 386 925	1
	Improve the availability and functionality of cold chain	EPI MANAGER	cMYP (2017 - 2021)	Procure additional Cold Chain Equipment (CCE) - 7 refrigerators (SSD) per district per year: (one active CCE per HF)	District	164 674 800	1
				Procure additional Cold Chain Equipment (CCE) - 2 vaccine carriers per facility +1 per district for animal health	All level	25 219 740	1

Objective	To strengthen the capacity of DHMTs for improved vaccine access and delivery					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
			Procurement of Antrax vaccine 100000 doses (50doses per vial) 2000 vial@10 per vial Multi dosage Syringe (Haupiner revolver 30ml)@USD120 for 200 unit repair kit 200 unit @USD 4 Glass Barrel 200 @ USD 4	All level		5 924 800
			Procurement of anti rabies vaccine for animal and human per year 300,000 USD 20 per vial of 10 Doses for animal Multi dosage Syringe (Haupiner revolver 30ml)@USD 120 for 200 unit repair kit 200 unit @USD 4 Glass Barrel 200 @ USD 4 Hypodermic needle (21G X 0.5 inch) 400 Packages @USD 6 human 1000 doses @ USD 25 each	All level		184 378 000
			Procurement of 150 semi automatic multi dose syringes 30 ml with 500 pkts of 10pc hypodermic needles 21 G spear parts	All level		223 500 000
		EPI MANAGER	cMYP (2017 - 2021)	Procure additional Cold Chain Equipment (CCE) -550 cold boxes	All level	129 972 700
				Installation of CCE refrigerators	All level	47 700 000
				Decommissioning of obsolete equipment once replaced no cost related	All level	-
				Quarterly maintenance cost of CCE @500K	District	3 000 000 000
				Refresher training for solar technicians (1 pax X 3 days X 16 districts)	National	50 980 000
				Refresher training for cold room officers (1 pax X 3 days X 16 districts)	National	50 980 000
				Procure 2 two for vaccine distribution vehicles	National	670 500 000
				Procure pickup Land Cruiser vehicles (16 vehicles)	District	5 364 000 000
				Procure motorcycles (16 motorcycles)	District	596 000 000

Objective	To strengthen the capacity of DHMTs for improved vaccine access and delivery					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
Monitoring and Evaluation of EPI activities	EPI MANAGER	cMYP (2017 - 2021)	Quarterly maintenance cost of vehicles@ 1Mio	Quarterly maintenance cost of vehicles@ 1Mio	All level	64 000 000
			Quarterly maintenance cost of motorcycles@ 200k	Quarterly maintenance cost of motorcycles@ 200k	District	12 800 000
			Monthly Fuel for Vaccine distribution (80 litres per day for 7 days of distribution per district)	Monthly Fuel for Vaccine distribution (80 litres per day for 7 days of distribution per district)	All level	698 880 000
			Printing of EPI tools 1500 HF 2 sets each estimated at 100k per set Tally book @ 100 pages 2 immunization registers Summary form AEFI form under 5 years cards TT Cards	Printing of EPI tools 1500 HF 2 sets each estimated at 100k per set Tally book @ 100 pages 2 immunization registers Summary form AEFI form under 5 years cards TT Cards	National	300 000 000
			Conduct EPI vaccine coverage survey (every 3 years) 3 people per district for 16 districts 7 days	Conduct EPI vaccine coverage survey (every 3 years) 3 people per district for 16 districts 7 days	National	238 000 000
			Recruit international consultant for EPI vaccine coverage survey 1 month	Recruit international consultant for EPI vaccine coverage survey 1 month	National	98 196 000
			Cold chain assessment (every 3 years) 2 people per district for 16 districts 5 days	Cold chain assessment (every 3 years) 2 people per district for 16 districts 5 days	National	146 000 000
			Recruit international consultant for Cold chain assessment 1 month	Recruit international consultant for Cold chain assessment 1 month	National	98 196 000
			Review and update for EPI cMYP in 2021 (20 pax x 5 days) - Write up	Review and update for EPI cMYP in 2021 (20 pax x 5 days) - Write up	National	85 740 000
			Review and update for EPI cMYP in 2021 (10 pax x 5 days) - costing	Review and update for EPI cMYP in 2021 (10 pax x 5 days) - costing	National	85 740 000
			HFs conduct weekly outreach services (Transportation + Allowance @36k) 56k 2 people per facility 1500HF 1 day every week	HFs conduct weekly outreach services (Transportation + Allowance @36k) 56k 2 people per facility 1500HF 1 day every week	Health facility	8 736 000 000
			Procure rain gears for HF staff for Outreach services per HF 3 staffs 1500HF 10 people DHMT @Boots 20K Coat 25K	Procure rain gears for HF staff for Outreach services per HF 3 staffs 1500HF 10 people DHMT @Boots 20K Coat 25K	All level	209 700 000
			Improve immunization through outreach services	Improve immunization through outreach services		1 1 1 1 1 1

Technical Area	National Laboratory System			JEE Scores 4
	JEE Indicator	D 1.1 Laboratory testing for detection of priority diseases	JEE Scores 1	
JEE recommendations	Establish functional Bacteriological section at the human, animal and environmental National and Regional Reference Labs			Year of Implementation
Objective	To expand lab capacity at the national reference lab to be able to conduct 6 of 10 WHO core tests			
No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)
				Estimated cost (Local currency)
1	Improve supply chain management	Implement supply and inventory management system (software, computers and internet) Procurement	National and sub national	29 800 000
		Hire 1 International consultant to implement supply and inventory management system and train technicians, 3 months, yearly	National	279 888 000
		Hire 1 National consultant to implement supply and inventory management system and train technicians, 3 months, yearly		35 280 000
		Implement supply and inventory management course, 15 people, 5 days, biannually	National and sub national	135 620 000
		Establish and maintain CUUG services at 7 human labs, 2 animal labs, 1 environmental labs for reporting/sharing of results each lab	National	Establishment of a results communication network
		procurement 10 phones @40K Monthly Service Provider @50K		46 000 000
		Establish and maintain Internet services at 7 human labs, 2 animal labs, 1 environmental labs	National and sub national	1 014 300 000
		Procure internet service @ USD 1.150		
		Procure modem @ 445and router @230 for 10 labs @675		49 612 500
		Procure solar panels, invertors and batteries for 6 national labs including human (CPHRL, Kenema, Bo and Makem), animal and environmental health labs	National	2 205 000 000
		Procure for 10 labs 10 per lab @ USD 3K	National and sub national	35 280 000
		Hire consultant to establish and sustain solar power at laboratories, 3 months, yearly	National and sub national	220 500 000
		Maintainance of solar panels and invertors, yearly @USD 300	Sub national	1 1 1 1
		Supportive supervisory visits to regional animal, human and environmental labs, 3 people, 3 human health labs, 2 animal health labs, 1 environmental health lab, quarterly,		42 500 000
		Training workshop for EOAs and PT panels (30 participants, 5 days, CPHRL)	National	110 460 000
4	Provide mentorship to human, animal and environmental laboratory personnel	Number of workshop participants for EOAs AND PT		1 1

Objective	To expand lab capacity at the national reference lab to be able to conduct 6 of 10 WHO core tests					Year of implementation
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	
5	Improve the capacity for bacteriological testing culture and ASTs for Human health	Procure equipment, reagents and other laboratory supplies, including solar panels	National	"Number of equipment, reagent and supplies procured Document review of stockouts"	149 000 000	1 1 1 1 1
		Procure and implement service and maintenance contracts for all equipment in laboratories @ 10% from above		Number of service and equipment contracts implemented	74 500 000	1 1 1 1 1
		Implement bacteriology national and international training courses at national level for Cultures, ASTs and stock archiving (25 people, 10 days, yearly)		Number of technicians trained	171 400 000	1 1 1 1 1
		Implement bacteriology national and international training courses at national level for molecular biology testing (15 people, 6 weeks, yearly)		Number of technicians trained	484 025 000	1 1 1 1 1
		Procure and implement EOA services and PT panels to monitor quality for routine and AMR test packages, 4 panels, 7 labs, quarterly		Number of EOA and PT panels procure	149 000 000	1 1 1 1 1
		Procure equipment, reagents and other laboratory supplies, including solar panels	National		149 000 000	1 1 1 1 1
		Procure and implement service and maintenance contracts for all equipment in laboratories	National		93 125 000	1 1 1 1 1
		Training for laboratory personnel in molecular techniques, 30 people, 6 weeks, biannually	National	Number of trained personnel	1 623 920 000	1 1 1 1 1
6	Improve the capacity for viral testing for Human health	Training for laboratory personnel in serology techniques, 12 people, 2 weeks, biannually		Number of trained personnel	148 394 000	1 1 1 1 1
		Procure and implement EOA services and PT panels to monitor quality, 8 panels, 5 labs, quarterly	National and sub national	EOA results	149 000 000	1 1 1 1 1
		Procure equipment, reagents and other laboratory supplies, including solar panels			223 500 000	1 1 1 1 1
		Procure and implement service and maintenance contracts for all equipment in laboratories			93 125 000	1 1 1 1 1
		Training for laboratory personnel on microscopy, 30 people, 10 days, twice yearly	National and sub national	Number of trained personnel	195 785 000	1 1 1 1 1
7	Improve the capacity for parasitic testing for Human health	Procure and implement EOA services and PT panels to monitor quality, 8 panels, 7 labs, quarterly			149 000 000	1 1 1 1 1
		Procure equipment, reagents and other laboratory supplies for a high level veterinary reference laboratory in Western Area, including solar panels			223 500 000	1 1 1 1 1
8	Build the diagnostic capacity for animal health laboratories to test for priority diseases					

Objective	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Year of implementation			
					2018	2019	2020	2021
8	Build the diagnostic capacity for animal health laboratories to test for priority diseases	Procure equipment, reagents and other laboratory supplies for 16 districts for all laboratory tiers			149 000 000	1	1	1
		Procure and implement service and maintenance contracts for all equipment in laboratories			74 500 000	1	1	1
		Training for laboratory personnel in bacteriology and DST techniques, 25 people, 6 weeks, annually			704 275 000	1	1	1
		Training for laboratory personnel in molecular techniques, 4 people, 6 weeks, annually	National and sub national		298 733 000	1	1	1
		Training for laboratory personnel in serology techniques, 5 people, 6 weeks, annually	National and sub national		320 370 000	1	1	1
		Training for laboratory personnel in parasitology techniques, 20 people, 4 weeks, annually	National and sub national		271 165 000	1	1	1
		Training for laboratory personnel in pathology techniques, 5 people, 14 weeks, annually	National and sub national		496 495 000	1	1	1
		Procure and implement EOA services and PT panels to monitor quality, 6 panels, 3 labs, every 3 months Panel @ USD 2k	National and sub national		1 058 400 000	1	1	1
		Convene consultative meetings using historical data, literature analysis and experts to synthesize zoonotic situation in the country and identify priority diseases (25 participants, 3 days, Makeni)	National	No of consultative meetings	62 400 000	1		
		Meeting to review and update priority zoonotic diseases policy to align with the One health policy (30 participants , 3 days Makeni)	Sub - national	Number of meeting participants for policy review	72 435 000	1		
9	Identify priority Zoonotic diseases (Animal health)	Procure equipment, reagents and other laboratory supplies for a high level environmental reference laboratory in Western Area (Lakka), including solar panels	National	Number of food safety lab establish and equipped	558 750 000	1	1	
		Procure reagents and supplies for water and food safety lab	National	Reagents and supplies for 1 food safety lab	149 000 000	1	1	1
		Procure and implement service and maintenance contracts for all equipment in laboratories	National and sub national		74 500 000			
		Convene meetings to advocate for ratification of water food safety policy, guidelines and implementation plan for food safety in line with S. Leone Standards Bureau policy (30 participants, 1 day Freetown)	National	Number of meetings for ratification of food safety policy.	35 410 000	1	1	
		Engage national/international consultants (3) to develop training manual, and general algorithm for water and food testing. Hiring of 1 international consultant	National	Hiring 1 national and 1 international consultant	279 888 000			1
10	Build the testing capacity for environmental health laboratories to test for water and food safety							

Objective	To expand lab capacity at the national reference lab to be able to conduct 6 of 10 WHO core tests			Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)	Year of implementation
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)				
10	Build the testing capacity for environmental health laboratories to test for water and food safety	Engage national/international consultants (3) to develop training manual, and general algorithm for water and food testing. Hiring of 1 national consultant Engage consultants to provide diversified mentorship sessions (1international consultants, 9 months) Engage consultants to provide diversified mentorship sessions (1 National consultants, 9 months) Training personnel for food sample collection (10 participants, 5 days, Njala/Makeni/Freetown) Training for laboratory personnel in molecular techniques, 5 people, 6 weeks, annually Procure and implement EOA services and PT panels to monitor quality, 4 panels, 2 lab, annually @USD2k	National National and sub-national National and sub-national National and sub-national	Meetings to engage consultants Number of trainings for personnel	824 964 000 52 040 000 307 070 000 117 600 000	35 280 000 105 840 000 307 070 000 117 600 000	2018 2019 2020 2021 2022
JEE Indicator	D 1.2 Specimen referral and transport system			Finalize and implement draft sample transportation SOPs and policy			JEE Scores 3
Objective	To institute an effective system for collection, packaging and transport of biological specimens			Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)	Year of implementation
No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)					2018
1	Establish a comprehensive integrated National policy, guidelines and SOPs on specimen management for human, animal, food and environmental samples	Workshops to develop an integrated policy and plan (guidelines and Operational SOPs) on specimen management for human, animal, food and environmental samples- 3 workshops, 40 participants, 5 days each, Makeni/Freetown	National/sub national	Number of workshops to develop integrated policy; workshop reports; policy and plan (guidelines and SOPs)	380 205 000	1 1 1	2019
2	Establish a network of specimen transportation at all levels - national and international	Conduct a workshop to develop a protocol for a national Specimen referral network (25 participants, 3 days, Freetown) Meetings to develop and review the plan for specimen management [2 meetings a year] (25 participants, 3 days, Freetown)	National	Number of participants; protocol for a national specimen referral network; workshop report	61 900 000	1	2020
2	Establish a network of specimen transportation at all levels - national and international	Workshop to develop the training curriculum for all involved in specimen management: (Drivers/bike riders, support staff, security personnel, nurses, doctors, lab technicians), (12 participants, 2 days, Freetown)	National	Number of meetings to develop and review plan	123 800 000	1	2021
		Workshop report; draft training curriculum			28 439 000	1	2022

Objective	To institute an effective system for collection, packaging and transport of biological specimens					Year of implementation
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	
2	Establish a network of specimen transportation at all levels - national and international	Conduct a training workshop for all personnel involved in national specimen referral(400 participants - cross cutting - see above; 3 days, Freetown/regional capitals)	National/ Sub national	Number of personnel to be trained on specimen referral	954 300 000	2018
		Procurement of Specimen Collection and transportation supplies for human, animal and environmental specimens 10 Cool box @200 Triple package	national	Meeting notes from advocacy events	149 000 000	2019
		2 supportive supervisions per district per year for 5 years (2 persons per district; 32 visits per year)	National/ Sub national	Number of supportive supervisions annually for 5 yrs	584 000 000	2020
		Procure 16 vehicles and 20 bikes for delivery of EQA and PT panels , for human, animal and environmental laboratories	National	Number of vehicle and Bikes procured	5 690 000 000	2021
		Courier services/Fuel for transportation of samples Per week @120lt*3 trip 360 lt 52 weeks 121,680,000 per district			1 946 880 000	2022
		External Shipment of samples 3 per week@ USD 2000 per week			764 400 000	
		Procuring ipads for tracking specimen referral and transportation			149 000 000	
		Training of national and district specimen focal persons, 35 people, 4 days, annually			102 930 000	
		JEE Indicator	D 1.3 Effective modern point of care and laboratory based diagnostics			JEE Scores 2
		JEE recommendations	Establish the regulation for the use of POCT in the country, establish a mechanism for the regulation of POCT laboratory testing, include private laboratories			JEE Scores 1
Objective	To develop or acquire technologies to optimize POCT at all levels (human and animal health)					Year of implementation
No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)	
1	Develop an integrated syndromic and laboratory-based POCT algorithm	Workshop to map out all laboratories performing POCT (20 participants, 1 day, Freetown)	National	Number of workshop to map out all laboratories performing POCT	24 895 000	2018
		Workshop to develop syndromic algorithms (20 participants, 5 days, Western Rural)	National	Number of workshop to develop algorithm	76 495 000	2019
		Print and distribute testing algorithms (up to 10 syndroms X 200 copies)	National	Number of testing algorithms printed	50 000 000	2020

Objective	To develop or acquire technologies to optimize POCT at all levels (human and animal health)			Year of implementation
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	
1	Develop an integrated syndromic and laboratory-based POCT algorithm	Workshop to train facility personnel on the application of algorithms by districts: Doctors, nurses, DMOs, pharmacists, CHOs, lab technicians (20 participants, 2days, at district level, 5 facilitators per district) Conduct workshop to develop Laboratory based testing algorithms (see above, row 4) (12 participants, 4 days, Freetown) Validation workshop for both syndromic and lab testing algorithms (30 participants, 3 days, Freetown)	Sub - national National National	Number of participants trained on the application of algorithm Workshop report; draft lab testing algorithm Workshop report; validated syndromic and lab testing algorithms
2	Establish sustainable commodities supplies system	Workshop to develop vendor list and post market verification protocol (20 participants, 2 days, Freetown)	National	Inventory of suppliers of drugs, reagents and chemicals
JEE Indicator		D.1.4 Laboratory Quality System		JEE Scores 2
JEE recommendations		Complete SLMTA process as part of the quality improvement system		JEE Scores 1
Objective	Institute a national quality assurance system for human, animal, environment and food safety. To ensure the inclusion and functionality of a National Laboratory Regulatory Board.			Year of implementation
No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)
1	Ratification of National Laboratory Regulatory Body	Workshop to identify members and develop TOR for National Laboratory Regulatory Body (30 participants, 3 days, Freetown, once every 2 years) Lobby and advocate for ratification of NLRB (35 copies)	National National	Members identified; workshop report; TOR Ratified NLRB
2	Establish a National EQA program to address human, animal and environmental health at reference laboratories	Construct a national EQA unit at CPHRL Procure equipment, reagents, and supplies Identify and train personnel for NEQA (10 personnel ,3 months) Hire consultants (1 international x 6 months Hire consultants 2 national x 6 months Identify and assess capacity of all existing laboratories - public and private (25 human, 2 animal, 1 environmental) (3 person per 6 team , x 5 days)	National National National	Number of NEQA units established 7 450 000 000 Generalization of personnel list for NEQA 551 990 000 552 426 000 141 120 000 capacity assessment of all labs
JEE Indicator				JEE Scores 2
JEE recommendations		Complete SLMTA process as part of the quality improvement system		JEE Scores 1
Objective		Summary of Planned Activities at National Level (Strategic actions)		Year of implementation
No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)
1	Ratification of National Laboratory Regulatory Body	Workshop to identify members and develop TOR for National Laboratory Regulatory Body (30 participants, 3 days, Freetown, once every 2 years) Lobby and advocate for ratification of NLRB (35 copies)	National National	Members identified; workshop report; TOR Ratified NLRB
2	Establish a National EQA program to address human, animal and environmental health at reference laboratories	Construct a national EQA unit at CPHRL Procure equipment, reagents, and supplies Identify and train personnel for NEQA (10 personnel ,3 months) Hire consultants (1 international x 6 months Hire consultants 2 national x 6 months Identify and assess capacity of all existing laboratories - public and private (25 human, 2 animal, 1 environmental) (3 person per 6 team , x 5 days)	National National National	Number of NEQA units established 7 450 000 000 Generalization of personnel list for NEQA 551 990 000 552 426 000 141 120 000 capacity assessment of all labs
JEE Indicator				JEE Scores 2
JEE recommendations		Complete SLMTA process as part of the quality improvement system		JEE Scores 1

Objective	Institute a national quality assurance system for human, animal, environment and food safety. To ensure the inclusion and functionality of a National Laboratory Regulatory Board.						Year of implementation
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)	
2	Establish a National EOA program to address human, animal and environmental health at reference laboratories	Accreditation of labs for specific capacity (3 team of 4 x 5 days) x 3 labs Conduct hands-on workshops for NEQA personnel (1 workshop per year for 5 years; 5 personnel; 2 days; CPHRL)	national and Sub - national	Accreditation based on assessment results	36 375 000	1 1 1 1 1	2018
3	Establish sustainable capacity building for NQMS	Conduct training program on QMS (55 participants, 5 days, Bo) Conduct 3 SLMTA trainings for lab personnel across all districts and at CPHRL, per year for 5 years (20 participants per training, 5 days Freetown/Bo/Kenema/Makeni) Develop and review curriculum for in-service and pre-service QMS training (25 participants, 3 meetings,x 5 days) biannually. Makeni Hire consultants 1 international to conduct long-term in-service trainings on QMS(2 months every year for 5 years) Hire consultants 1 national to conduct long-term in-service trainings on QMS(2 months every year for 5 years) Supportive supervision quarterly in district, regional, and selected lower level labs for QMS (3 persons per 4 teams x 7 days)	national and Sub - national	Report on workshop; attendance of personnel for NEQA at CPHRL Delivery of training and competency assessment	16 175 000 172 460 000	1 1 1 1 1 1 1 1 1 1	2019
4	Establish an integrated One Health Laboratory committee	Select multidisciplinary committee members, develop and review terms of reference for OneHealth lab committee (2 meetings, 30 participants, x 3 days) Develop and implement plans for One Health laboratory, 30 people, 5 days, biannually	National	TOR Implementation plans	277 050 000 143 870 000 107 035 000	1 1 1 1 1 1 1 1 1	2020 2021 2022

Technical Area		Detect 2 Real Time Surveillance		JEE Scores 4		Year of Implementation				
JEE Indicator	D.2.1 Indicator and event based surveillance systems					2018	2019	2020	2021	2022
JEE recommendations	1. Finalize roll out of CBS and strengthen event-based surveillance systems. 2. Strengthen animal health surveillance at all level 3. Strengthen private sector involvement in surveillance									
Objective	To expand lab capacity at the national reference lab to be able to conduct 6 of 10 WHO core tests	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)		
No	Summary of Planned Activities at National Level (Strategic actions)	MOHS, MAF	Strengthen Community-based Surveillance System in context of OneHealth	1. Conduct CBS TOIs for health facility staff in the remaining 5 districts (500 persons for 3 days) 2. Conduct CHWs training on CBS in 5 remaining districts (5,000 CHWs for 2 days) 3. Printing and distribution of CBS materials (500 training flip charts, 13,000 case-based reporting forms, 13,000 weekly summary reporting forms)	Kenema, Bo, Tonkolili, Western Urban, Western Rural and TBD districts Kenema, Bo, Tonkolili, Western Urban, Western Rural and TBD districts Community Based Surveillance (CBS), WHO	Number of persons trained as TOIs Number of CHWs trained Number of CBS materials printed and distributed to district levels	500 persons Availability of funds 5,000 persons Availability of funds 500 training flip charts, 13,000 case-based reporting forms, 13,000 weekly summary reporting forms Availability of funds	433 500 000 4 335 000 000 13 820 000 000	1	
									1	1
									1	1
									1	1
									1	1

Objective	To expand lab capacity at the national reference lab to be able to conduct 6 of 10 WHO core tests						Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)
Strengthen Community-based surveillance system in context of OneHealth	MOHS, MAF	Community Based Surveillance (CBS), WHO	6. District quarterly CBS supportive supervision in all districts (District team of 4 people visiting the health facilities in a quarter)	Health facilities	Number of health facilities visited	64 trips per year Availability of funds and logistics (will be combined with IDSR supervision)	2 328 000 000	1 1 1 1 1
			7. National workshop to review CBS implementation and performance (50 persons for 3 days twice a year)	National	Review CBS implementation and performance	50 persons Availability of funds and logistics	209 900 000	1 1 1 1
			8. Train 117 staff to direct CBS alerts to health facility as an early warning system (30 persons for 2 days)	All districts	Number of 117 staff trained	30 persons Logistics (CUG,phones etc)	186 640 000	1
Establish Event-based surveillance system in context of OneHealth	MOHS		1. Workshop to adapt event based surveillance (informal source of information) guidelines (50 persons for 4 days)	National	Guideline adaptation	50 persons Availability of funds	130 400 000	1
			2. Workshop to develop an event based surveillance training package (40 persons for 5 days)	National	Event based surveillance training package	40 persons Availability of funds	135 980 000	1
			3. Print and disseminate event based surveillance guidelines and training materials (1 500 copies of guidelines, 100 facilitator manual, 1 500 participant manual)	All districts	Event based surveillance guidelines and training materials	1 500 copies of guidelines, 100 facilitator manual, 1 500 participant manual Availability of funds	66 200 000	1

Objective	To expand lab capacity at the national reference lab to be able to conduct 6 of 10 WHO core tests					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
Establish Event-based surveillance System in context of OneHealth	MOHS			4. TOTs on EBS including early warning systems for national and DHMT staff (100 persons for 3 days)	National Number people trained as TOTs	2018 100 people trained as TOTs Availability of funds
				5. Training of health workers on event based surveillance including early warning systems at all levels (1,500 persons for 2 days)	All districts Number of people trained	2019 873 000 000 1 1
				1. Identify and train human and animal private and public sector health personnel on surveillance guidelines and reporting tools (1,700 persons for 3 days)	National and all districts Number of people trained	2020 1 700 Persons Availability of funds, identification of private sector health personnel
				2. Quarterly supportive supervision with real time feedback to One Health Secretariat for monitoring and problem solving (team of 4 persons for 2 days per districts)	National and all districts Number of site visited	2021 1 526 260 000 1 1 1
			Build capacity for surveillance among human and animal health workers in both public and private sectors	MOHS, MAF, One Health Secretariat One Health platform	National and all districts Number of health facilities visited for DQA	2022 64 trips/yr x 5 yrs Availability of funds, logistics 310 400 000 1 1 1
				3. Joint national MOHS/MAF data quality assessment (DOA) conducted in all districts in selected health facilities twice a year (Team of 4 persons for 2 days per district)		2018 32trips/yr x5yrs Availability of funds, logistics 2 483 200 000 1 1 1

Objective	To expand lab capacity at the national reference lab to be able to conduct 6 of 10 WHO core tests						Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)
Build capacity for surveillance among human and animal health workers in both public and private sectors	MOHS, MAF, One Health Secretariat	One Health platform	4. Joint district MOHS/MAF quarterly data quality assessment (DOA) conducted at district level by DHMT (team of 4 district staff for 8 days per workshop to adapt the WHO AFRO 3rd edition IDSR guidelines, training materials and reporting tools (50 persons for 5 days)	All districts	Number of health facilities visited for DQA	64 trips/yr x 5yrs Availability of funds,logistics	19 865 600 000	1 1 1 1 1
Adapt and implement the WHO AFRO 3rd edition IDSR strategy			Workshop to validate the WHO AFRO 3rd edition IDSR guidelines, training materials and reporting tools (50 persons for 3 days)	National	Adapted WHO AFRO 3rd edition IDSR guidelines, training materials and reporting tools	50 persons Availability of funds,logistics	155 850 000	1
			Committee to finalize adaptation of WHO AFRO 3rd edition IDSR guidelines, training materials and reporting tools (20 persons for 3 days)	Makeni	Finalized draft WHO AFRO 3rd edition IDSR guidelines, training materials and reporting tools	20 persons Availability of funds,logistics	34 040 000	1
			Workshop to validate the WHO AFRO 3rd edition IDSR guidelines, training materials and reporting tools (50 persons for 3 days)	National	Validated WHO AFRO 3rd edition IDSR guidelines, training materials and reporting tools	50 persons Availability of funds,logistics	112 650 000	1
			TOIs on the 3rd edition of IDSR strategy (100 persons for 5 days)	National	Number of people trained as TOT	100 persons Availability of funds,logistics	361 700 000	1
			Cascade training on the 3rd edition of IDSR strategy (1,700 persons for 3 days)	All districts	1700 human and animal health facility staff trained	1,500 persons Availability of funds,logistics	1 630 980 000	1 1
			National IDSR quarterly support supervision to districts (team of 3 national staff for 2 days per district in a quarter)	All districts	Number of districts and facilities supervised	64 trips/yr x 5yrs Availability of funds,logistics	272 000 000	1 1 1 1

Objective	To expand lab capacity at the national reference lab to be able to conduct 6 of 10 WHO core tests						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	
Adapt and implement the WHO AFRO 3rd edition IDSR strategy		Conduct IDSR DQA in districts and health facilities twice a year (team of 2 national staff for 2 days per district)	All districts	Number of health facilities supervised	64 trips/yr x 5yrs Availability of funds,logistics	1 241 600 000	1 1 1 1 1			2022
National Quarterly Disease Surveillance Review Meeting (70 people for 2 days)		National/ Freetown	National Quarterly Disease Surveillance Review Meeting	70 people/ quarter x 5 years Availability of funds,logistics	116 800 000	1 1 1 1 1				2021
JEE Indicator	D.2.2 Interoperable, interconnected, electronic real-time reporting system						JEE Scores 2			2018
JEE recommendations	Finalize and deploy the electronic surveillance reporting platform that will be integrated and interoperable with other systems						Year of implementation			2019
Objective	Develop, integrate and maintain an interoperable, interconnected, electronic real-time reporting system, for public health and/or veterinary surveillance systems at all levels by 2022						Year of implementation			2020
Objective	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	2022
Establish an electronic zoonotic disease surveillance reporting platform		MAF, MOHS	REDISEE, PREDICT	Workshop to develop SOP and user requirements for zoonotic disease surveillance electronic platform (DHIS2) and tool (40ppl x 2 days)	National	SOP and user requirements for zoonotic disease surveillance electronic platform (DHIS2) and tool developed	40 Persons Availability of funds and resource persons	54 330 000	1	2021
				Hire an International consultancy to develop/adapt software on electronic zoonotic surveillance in line with the SOP and User Requirements developed and tested	Freetown	Software on electronic zoonotic surveillance in line with the SOP and User Requirements developed and tested	International Consultant Availability of funds	597 849 000	1	2018

Objective	Develop, integrate and maintain an interoperable, interconnected, electronic real-time reporting system, for public health and/or veterinary surveillance systems at all levels by 2022					Year of implementation			
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)				
No									
	Establish an electronic zoonotic disease surveillance reporting platform	MAF, MOHS	REDISEE, PREDICT	Mobile devices procured for 190 chiefdoms and 16 district Head quarter town Procurement of 17 computers (1 per districts and 1 for national) Provide Inenet services (16 modem/wifi for districts and credit/meabite for 190 mobile devices) Train livestock extension officers to pilot zoonotic electronic surveillance platform in 2 districts (30 persons for 2 days) Workshop to evaluate pilot of zoonotic electronic surveillance platform in 2 districts (40 persons for 2 days) Support supervision during pilot (DSA for 5 persons from National for 16 days) Train livestock extension officers on zoonotic electronic disease surveillance in the remaining 14 districts (170 persons for 2 days) Monthly support supervision visits from districts to chiefdoms (team of 2 persons per district for 4 days)	Mobile devices procured for 190 chiefdoms and 16 district Head quarter town Procurement of 17 computers (1 per districts and 1 for national) Provide Inenet services (16 modem/wifi for districts and credit/meabite for 190 mobile devices) Train livestock extension officers to pilot zoonotic electronic surveillance platform in 2 districts (30 persons for 2 days) Workshop to evaluate pilot of zoonotic electronic surveillance platform in 2 districts (40 persons for 2 days) Support supervision during pilot (DSA for 5 persons from National for 16 days) Train livestock extension officers on zoonotic electronic disease surveillance in the remaining 14 districts (170 persons for 2 days) Monthly support supervision visits from districts to chiefdoms (team of 2 persons per district for 4 days)	Number of mobile devices procured Number of Computers purchased Number of Modems procured % of mobile devices connected	Output indicators (Monitoring and Evaluation) 206 mobiles devices Availability of funds 18 Computers purchased Availability of funds 16 Modems purchased 190 devices connected Availability of funds 30 persons Availability of funds 40 persons Availability of funds All chiefdoms of the pilot districts Availability of funds 170 personnel trained in electronic zoonotic reporting Number of sites supervised	Targets and potential challenges 206 mobiles devices Availability of funds 126 650 000 1 335 250 000 1 149 000 000 1 46 660 000 1 50 480 000 1 87 200 000 1 313 250 000 1 56 trips per months for 3 months Availability of funds 102 200 000 1 1 1 1 1	2018 2019 2020 2021 2022

Objective	Develop, integrate and maintain an interoperable, interconnected, electronic real-time reporting system, for public health and/or veterinary surveillance systems at all levels by 2022							Year of implementation
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for Implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	
Establish an electronic zoonotic disease surveillance reporting platform	MAF, MOHS	REDISSE, PREDICT	Annual electronic Zoonotic disease system review meeting (30 persons for 2 days)	Freetown	Annual electronic Zoonotic disease system review meeting	30 persons Availability of funds	46 660 000	1 1 1 1 1
			Quarterly meeting of zoonotic disease electronic surveillance technical working group (20 persons for 2 days)	District	Quarterly meeting of zoonotic disease electronic surveillance technical working group	20 persons Availability of funds	36 540 000	1 1 1 1 1
			Procurement of 1300 mobile devices for remaining PHUs	District	Number of mobile devices procured	1300 mobile devices Availability of funds	1 937 000 000	1
			Procurement of internet subscription for 16 district modems	District	Number of districts connected to Internet	Monthly subscription for 16 modems Availability of funds	193 700 000	1
			Procurement of data for PHU devices	District	Number of PHUs connected to Internet	Monthly data subscription for 1,300 devices Availability of funds	625 800 000	1
		WHO/IDSR, REDISSE, CDC/ eHealth Africa, FOCUS 1000, University of Oslo, HISP	e-IDSR setup in procured devices	District	Number of devices with eIDSR set up	1,300 devices Availability of funds	730 100 000	1
Implement eIDSR at health facility level nationwide	MOHS, MAF	Training of district trainers and supervisors on mobile application (2 persons per district for 2 days)	District	Number of persons trained	32 persons Availability of funds	60 024 000	1 1 1	1 1 1 1
		Training of health facility staff in the use of mobile device (1,300 persons for 2 days)	District	Number of persons trained	1,300 persons Availability of funds	2 030 784 000	1	1 1 1 1
		Supportive supervision		Number of sites visited	80 trips per month Availability of funds	438 000 000.00	1	1 1 1 1
		Review meeting once a year (50 persons for 2 days)	District	Review meeting held	50 persons Availability of funds	79 500 000	1	1 1 1 1

Objective	Develop, integrate and maintain an interoperable, interconnected, electronic real-time reporting system, for public health and/or veterinary surveillance systems at all levels by 2022					Year of implementation				
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	
										2018
										2019
										2020
										2021
										2022

Objective	Develop, integrate and maintain an interoperable, interconnected, electronic real-time reporting system, for public health and/or veterinary surveillance systems at all levels by 2022					Year of implementation				
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	
		Integrate the IDSR electronic reporting platform with zoonotic surveillance electronic platform and identified sectors to make it interoperable	MOHS, MAF	FAO, WHO/IDSR, REDISSE, PREDICT	Stakeholder workshop to establish DHS2/ SET interoperability requirements for IDSR and zoonotic disease reporting platform (40 people for 2 days) Monthly technical working group meetings on human-animal electronic reporting systems (20 people for one day)	National	Report on Stakeholders workshop for 15 persons and interoperable platform	16 districts Availability of funds	63 080 000	2018
JEE Indicator										JEE Scores 4
JEE recommendations										
Objective	Increase capacity for data analysis, interpretation and application at all levels by 2022					Year of implementation				
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	
		Build capacity for data analysis among human and animal health workers	MOHS, MAF	WHO, FAO, REDISSE, FETP	Refresher trainings of district and major health facilities staff, surveillance staff, M&E staff and animal health worker staff 2700 staff 6 training per district for 28 persons 2 days	District	Refresher training of district and major health facilities staff conducted	10 trainings/5yrs Availability of funds	4 332 672 000	2018
		Improve ICT to support data analysis for surveillance at all levels	MOHS, MAF	WHO, FAO, REDISSE, FETP	Provision of ICT equipment to DHMTs, major health facilities and PHUs	District	ICT equipment provided to DHMTs and major health facilities	16 Districts, 1300 Facilities Availability of funds, logistics	521 500 000	2018
										2019
										2020
										2021
										2022

JEE Indicator		D.2.4 Syndromic surveillance systems						JEE Scores 4				
JEE recommendations	Objective	Increase capacity for a resilient syndromic surveillance system to include animal and environmental health				Year of Implementation						
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Programme or on going activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)				
	Strengthen capacity for syndromic surveillance among animal and environmental health workers at all levels	MOHS, MAF	REDISSE	Nationwide assessment/survey to establish the status of syndromic surveillance for Zoonotic diseases (120 enumerators, 5 days)	District	Report of nationwide assessment/survey of syndromic surveillance system (DHMT level)	120 trained enumerators Availability of funds	126 000 000	2018			
		WHO, FAO, REDISSE, FETP	Training/refresher training of livestock officers in syndromic surveillance of critical syndromes (300 staff for 2 days), annually	District	Number of persons trained	300 Persons from districts and health facilities Availability of funds	514 800 000	1	2019			
		WHO, FAO, REDISSE, FETP	Training for 1,500 community animal health workers in syndromic surveillance, annually	District	Number of persons trained	1500 persons in all 16 districts Availability of funds	2 763 000 000	1	2020			
			Procure starter kits for animal health workers at community level (1,500 CAHWS) 200usd	District	Number of starter kits procured	1500 starter kits Availability of funds	2 205 000 000	1	2021			
			Print and disseminate CAHW handbook for basic animal healthcare in Sierra Leone (3000 copies)	District	Number of copies of CAHW handbook printed & disseminated	300 copies CAHW handbook Availability of funds	75 000 000	1	2022			
	Establish mechanism for collaboration and coordination between human and animal health sector in the context of One Health	MOHS, MAF	WHO, FAO, REDISSE, FETP	Quarterly coordination meetings between zoonotic and human surveillance technical working groups (30 persons for 2 days)	National/ District	Quarterly coordination meeting conducted	30 persons Availability of funds	186 640 000	1	1	1	1
			Quarterly joint supportive supervision visits from national staff at the district level (4 persons for 2 days per district)	District	Number of sites visited	64 trips/yr in 16 districts x 5yrs Availability of funds	77 600 000	1	1	1	1	

Technical Area		Detect 3 Reporting		JEE Scores 3					
JEE Indicator	D.3.1 System for efficient reporting to WHO, FAO and OIE								
JEE recommendations	1. Designate and train National IHR Focal Point and OIE focal point personnel so as to constitute a National IHR Focal Point team. 2. Develop legislation and policies for reporting (refer technical area IHR Legislation, Policy and Financing) 3. Develop regional multilateral and bilateral arrangements for information sharing.								
Objective	By 2022, strengthen capacity to identify any potential PHEIC and report within 24 hours to WHO, FAO and OIE.	Year of implementation							
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Comments or Potential challenges	Estimated cost (Local currency)		
	Operationalize the National IHR Focal point	MOHS, MAF	WHO, FAO/OIE, One Health, REDISSE, PREDICT	Consultative meetings (to identify relevant government institutions/ individuals for national IHR/OIE focal point membership (30 people for one day-2 away no vehicle) Procure furnished 3 room office space for national IHR/OIE Focal point membership (Yearly space rentage, 2 desktops, 2 laptops, internet facilities, stationery etc.)	National	Identification of persons Availability of funds,logistics	12 870 000 223 500 000		
	Build technical capacity among the National IHR Focal Point and OIE teams.	MOHS, MAF	WHO, FAO/OIE, One Health, REDISSE	Hold quarterly meetings of national National IHR Focal Point and OIE Focal Point (30 persons for one day-2 away no vehicle) Train National IHR focal point team on IHR/OIE reporting (20plpl x 3 days - 2 away no vehicle)	National	Availability of funds	122 040 000 41 740 000		
	Development a system of simulation exercise for reporting to WHO, FAO and OIE	MOHS, MAF	WHO, FAO/OIE, One Health, REDISSE	Print and distribute IHR materials to the IHR and OIE focal team (40 copies of IHR (2005) second edition, 40 copies of OIE guide) (may be reprinted after 2 years)	National	Availability of funds	1 004 000 1		
	Develop a legal framework for information sharing with neighboring countries	MOHS, MAF	WHO, FAO/OIE, One Health, REDISSE	Organize simulation exercise every six months on IHR/OIE reporting (20plpl x 2 days-6 persons away of which 4 with vehicle) Compile and share lessons learnt, best practices and challenges (One day meeting of 40 persons-10 persons away with vehicle)	National	Availability of funds	27 140 000 28 560 000		
				Stakeholder meeting to develop and agree upon legal framework for Sierra Leone (40plpl x 2 days - 7 away with vehicles)	National	Availability of funds	37 495 000 1		

JEE Indicator		D.3.2 Reporting network and protocols in country				JEE Scores 2		
Objective		Develop and establish protocols, processes, regulations and legislation governing reporting to be implemented by 2020.				Year of implementation		
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or on going activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Comments or Potential challenges	Estimated cost (Local currency)	
	Develop and implement national guidelines and SOPs for notification of PHEIC events and mechanisms for sharing information between key sectors	MOHS/MAF	WHO, FAO/OIE, One Health, REDISSE	Stakeholder workshop to develop national guidelines and SOPs for sharing information between key sectors (50 ppl x 5 days- 20 away of which, 14 with vehicle)	National	Availability of funds	120 640 000 1	
	Strengthen the reporting capacity for priority zoonotic diseases	MOHS/MAF	WHO, FAO/OIE, One Health, REDISSE	Workshop to validate the national guidelines and SOPs (50 ppl x 5 days- 20 away of which, 14 with vehicle)) Train relevant GoSL personnel on national guidelines and SOPs (30ppl x 2 days-14 away with vehicle)	National	Availability of funds	120 640 000 1	
				Train National IHR focal point team on IHR reporting (20ppl x 3 days-2 away without vehicle) Annual refresher trainings of National IHR focal point team for IHR reporting (20 ppl x 3 days-2 away without vehicle))	National	Availability of funds	1 1 1 1 1	
Technical Area		Detect 4 Workforce				JEE Scores 2		
JEE Indicator	JEE recommendations	D.4.1 Human resources are available to implement IHR core capacity requirements				Year of implementation		
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or on going activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)
	Strengthen the Public Health HR capacity for IHR compliance	MOHS, MAF, MTBE, CDC, CHAI, COMAHS, Njala University	FETP/CDC	Hire international multidisciplinary Public Health needs assessment for 2 months	National	Consultant hired to conduct multidisciplinary Public Health needs assessment	1 consultant Availability of funds, access to information	189 042 000 1

Objective	Establish a Multidisciplinary Public Health HR capacity at National and District levels by 2022						Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)
				Workshop to validate needs assessment document (20ppi x 3days). Outside 12 cars	National	Report of Workshop held	40 persons X 3days Availability of funds	44 820 000
				Develop and implement additional trainings as per the needs assessment results THIS IS THUS UNKNOWN NOW	National	Training report	100 persons for 3 days Availability of funds	
				Workshop to update the scheme of service based on the needs assessment (15ppi x 3days) NO ONE OUTSIDE	National	Report of Workshop held	40 persons X 3days Bureaucratic procedures and funding	
				Hire public health staff based on the needs assessment LATER SAME	National	Availability of multidisciplinary public health staff	National & all districts Availability of funds	
		MOHS, MAF, MTHE, CDC, CHAI, COMAHS, Njala University	FETP/CDC	Establish a multidisciplinary public health workforce steering committee that meets twice a year (40 persons for one day twice a year) OUTSIDE 10 10 cars	National	Meeting report	40 persons for one day Bureaucratic procedures and funding	25 290 000
				Workshop to adapt/integrate FETP curriculum into COMAHS and Njala University public health curriculums (10ppi x 3 days) 3 outside 3 TA	National	Report of Workshop held	40 persons X 3days Delay in integration of curriculum into University public health system	25 290 000
				Workshop to validate integrated FETP curriculum into COMAHS/Njala public health curriculums (20ppi x 2 days) 6 outside 6TA	National	Report of Workshop held	40 persons X 2days Availability of funds	25 200 000

JEE Indicator		D.4.2 Field Epidemiology Training Program or other applied epidemiology training program in place					JEE Scores 3		
JEE recommendations	veterinarian and laboratory staff and for advanced training in the western African Region to expand developed capacities.						Year of implementation		
Objective	Establish three levels of FETP/FETPV/FELTP (Basic, Intermediate and Advanced) in Sierra Leone or through an agreement with another country by 2022	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)
				Train and graduate 8 cohorts of 20 multidisciplinary GoSL personnel each in Frontline FETP 20 persons 8/3 trainings 7 dazs 14 outside 14 travel all plus costs for field work field investigations< per training 10 days of field work TA = 50000 * 2 * 20* 8 Per diem = 5 days for all 20'8 * 5 300,000 VENUE FOR HALF, 4 out of 8 I WILL RECEIVE THE BUDGET FOR THIS	National	Training conducted	160 persons Availability of funds	655 600 000	1 1 1 1 1
	Increase national workforce of epidemiologists	MOHS/MAF	FETP, CDC facilitating	Train and graduate 4 cohorts of 20 multidisciplinary GoSL personnel each in Intermediate FETP 16 persons 4 training 12 outside 12 TA	National	Training conducted	48 persons Availability of funds	633 250 000	1 1 1 1
				Enroll and train 8 multidisciplinary GoSL personnel in Advanced FETP in a regional program	National	Enrollment and training done	8 persons Availability of funds	109 266 667	1 1 1
				Establish agreement for Advanced FETP training with regional governments 8 pers travelling abroad for 5 days 8 flights plus per diem 100 usd per day both to nigeria and ghana thus 2 times	National	Agreement for Advanced FETP training with regional governments established	2 countries (Nigeria & Ghana) Bureaucratic procedures	176 400 000	1

Objective	Establish three levels of FETP/FETPV/FELTP (Basic, Intermediate and Advanced) in Sierra Leone or through an agreement with another country by 2022					Year of implementation				
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programs or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	
Establish a mechanism of complete ownership of FETP by the MoHS		MOHS/MAF	FETP, CDC facilitating	Inclusion of GoSL staff as FETP mentors including facilitation of workshops, (10 mentors @ 70% LOE and 20 mentors @ 20% LOE 2 FETP program manager at 100%) salaries from Charles. 125 days of field support per year for 100% FTE. Average TA is 40 days.	National	FETP included in MoHS budget	MoHS support FETP trainings Bureaucratic procedures	- 1 1 1 1	1 162 200 000	2018
Develop and implement a public health HRH strategy to include speciality areas in line with One Health approach*		MOHS/MAF/ MOFED	PHE supporting NPHA (under development), eHealth Africa, CHAI	Hire an international consultant (two months) to develop public health HRH strategy to include speciality areas in accordance with One Health approach	National	Consultant hired	1 consultant Availability of funds, Govt. moratorium on recruitment	189 042 000	1	2019
			Workshop to draft a public health HRH strategy (25 ppl x 3 days) outside 10.10 TA	National	Report of workshop	40 persons Availability of funds, Govt. moratorium on recruitment	44 575 000	1		2020
										2021
										2022

Objective	Establish three levels of FFTP/FETPV/FFELTP (Basic, Intermediate and Advanced) in Sierra Leone or through an agreement with another country by 2022					Year of implementation			
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)				
	Develop and implement a public health HRH strategy to include specialty areas in line with One Health approach*	MOHS/MAF/ MOFED	PHE supporting NPHA (under development), eHealth Africa, CHAI	Workshop to validate drafted public health HRH strategy (25 ppl x 2 days) outside 10 and 10TA Establish mechanism for monitoring and tracking implementation of the workforce strategy (identification of coordinator/focal person) NO COST	National National	Output indicators (Monitoring and Evaluation) Report of workshop Report of monitoring and tracking activities	Targets and potential challenges 30 persons Availability of funds Govt. monitorium on recruitment 1 Coordinator/focal person Availability of funds Govt. monitorium on recruitment	Estimated cost (Local currency) 44 575 000 -	2018
									2019
									2020
									2021
									2022
Technical Area		Respond 1 Preparedness					JEE Scores 1		
JEE Indicator	R.1.1 Multi-hazard national public health emergency preparedness and response plan is developed and implemented						JEE Scores 1		
JEE recommendations	1. Develop and implement multi-hazard NPHEPR plan that includes a costing element, 2. Develop a stockpiling emergency plan and establish mechanisms for accessing funds for emergencies and supplies								
Objective	To have an all hazards plan and a system for stockpiling of supply mechanism to foster assess to resources during emergencies that is one health compliant by 2018.						Year of implementation		
Objective	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	2018
1	Develop a one-health compliant all hazards plan	Director of DHSE & DVS	All hazards plan completed, plus individual plans for cholera, floods disaster, EVD and Zika.	Stakeholder mapping and engagement/-workshop (60 pax 1 day* 1 session)	National	Stakeholders Oriented	1 workshop of 60 stakeholders	44 980 000	2018
				"Situation analysis in regard to potential hazards and country capabilities (Literature reviews) 20 pax * 3days"	National	Potential hazards and country capabilities for public health emergencies identified and documented	Literature reviewed and validated	43 620 000	2019
				Situation analysis in regard to potential hazards and country capabilities - visitation of sites etc. (40pax * 5 days for 5 regions)	National & Regional	Potential hazards and country capabilities for public health emergencies identified and documented	4 regions	121 250 000	2020
									2021
									2022

Objective	To have an all hazards plan and a system for stockpiling of supply mechanism to foster assess to resources during emergencies that is one health compliant by 2018.						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	
				Situation analysis in regard to potential hazards and country capabilities -workshop for situation analysis feedback (60 pax * 1 day * 1 times)	National & Regional	Potential hazards and country capabilities for public health emergencies identified and documented	1 workshop of 60 stakeholders	44 980 000	1	2018
				Establish a technical working group to develop ToRs for drafting an all hazards plan Meeting for TWG (10 pax * 3 days * 1 meeting)	National	ToRs for TWG to draft an all hazards plan	1 TOR	6 970 000	1	2019
				Draft the document through a consultative process including costing of the plan -enlist services of subject matter expert (1 pax Consultancy fees x 3months)	National	subject matter expert available	1 consultant for three months	35 280 000	1	2020
				All hazards plan completed, plus individual plans for cholera, floods disaster, EVD and Zika.	National	Draft all hazards ready	3 workshops	165 150 000	1	2021
				Conduct three workshops for document development (30pax * 3 workshops * 3 days)	National		1 workshop of 30 stakeholders	24 990 000	1	2022
				Validation workshop (30 pax for 1 day)			Finalized and published all hazards plan, 500 copies of all hazards plan	7 500 000	1	
				Printing the document (500 copies	National		500 copies of all hazards plan	28 930 000	1	
				Ceremony to launch the all hazards plan (50pax * 1 day)	National	Attendance list	1 seminar reaching 50 stakeholders	13 340 000	1	
2	Establish a system for stockpiling of supplies and accessing resources during emergencies.	Incident Manager EOC & Director Central Medical Stores		Develop a list for supplies required for stockpiling workshop (20 pax * 1 day)	National	List of commodities for stockpiling	1 List of commodities for stockpiling			

Objective	To have an all hazards plan and a system for stockpiling of supply mechanism to foster assess to resources during emergencies that is one health compliant by 2018.						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	
				Provide contingency fund to Procure and stockpile supplies for use in public health emergencies	National	Supply available in ware houses		a national stockpile of commodities for preparedness	- 1	2018
				Develop SOP & tools for Quarterly stock checks of stockpiled items workshop (20pax * 2days)	National	Draft SOP and Tools for stock check available	1 Draft SOPs and 3 Tools for stock check available		23 440 000	2019
				workshop to validate and adapt SOP & tools for Quarterly stock checks of stockpiled items (20pax *1 day)	National	Finalized SOPs and Tools for stock check available	1 workshop of 20 stakeholders		5 880 000	2020
		Establish a system for stockpiling of supplies and accessing resources during emergencies.	Incident Manager EOC & Director Central Medical Stores	Advocate for the establishment of an emergency response fund for the health sector easily accessed during emergencies meeting with Parliamentary Oversight Committee on Health (20 pax * half day)	National	attendance list	1 Advocacy meeting		13 340 000	2021
				Conduct half yearly simulation exercises (100 pax * 2 days * 2 times 1 national and per district 1	National and subnational	Half yearly simulation exercises conducted	2 simulation exercises		1 265 480 000	2022
3	Promotion of lessons learnt from emergency outbreaks/ events			Conduct after action review (80 * 1 * 2 times)	National	After action review report	2 after action reviews		129 520 000	

JEE Indicator		R.1.2 Priority public health risks and resources mapping of all priority public health risks.						JEE Scores 1					
JEE recommendations	Objective	To have a comprehensive vulnerability and risk assessment with resource mapping and mobilization for identified hazards by 2019						Year of implementation					
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	2018	2019	2020	2021	2022
	Establish a comprehensive risk and resource mapping of priority public health hazards	Incident Manager EOC	Risk profiling done cholera, EVD, Zika and flooding.	Stakeholder mapping and engagement Meeting with key stakeholders (30 pax * 1 day) Workshop to comprehensively list, categorize and prioritize potential hazards that Sierra Leone faces (50 pax * 1 day) Conduct risk profiling and mapping of potential hazards nationally and regionally visitation of sites etc. (80 pax * 3 days * 5 regions) Map resources and identify resource gaps for response to each hazard (visitatioin of sites etc. (80pax * 3 days * 5 regions)	National National & Regional National & Regional	Attendance list List of potential hazards available Risk & Potential hazards identified	30 Stakeholders oriented 1 workshop of 30 stakeholders risk mapping in 4 regions	24 990 000 43 010 000 132 360 000	1				
			Validation, production and active dissemination of the public health risks and resources mapping document one day seminar (50 pax * 1 day)	Mapped resources identified	National & Regional	resource mapping in 4 regions	132 360 000	1					
			Print and disseminate document		National & Regional	50 stakeholders	28 930 000						
			Mobilize resources to address the identified resources gap	National & Regional	Amont of Resources mobilized in Les.	50% reduction in resource gap	-						

Technical Area	Respond 2 Emergency Response Operations					
	JEE Indicator	R.2.1 Capacity to Activate Emergency Operations				
JEE recommendations	1. Increased training and retention of surge capacity staff in emergency response operations competencies 2. Government ownership as demonstrated by dedicated budgetary support to ensure sustainable funding and authority to the national EOC to mobilize resources required for response					JEE Scores 4
Objective	To have a Surge capacity staff available and increase the proportion of EOC operations budget for preparedness and response at various levels supported through core government funding to 50% by 2018.					Year of Implementation
Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)
No					Targets	
1	Capacity building for surge personnel	Incident Manager EOC	REDISSE, in part	Sub National	1600 Surge personnel trained	1 779 200 000 1
			Support Surge personnel with allowances during emergency operations (100 pax * 2 events per year * 14 days)	National and Subnational	Logistics support available for surge staff	522 900 000 1
			Develop and Produce training Materials (Memory sticks- 160, booklets -1800, Visual aides- 1800, Assorted stationeries) International Consultant 5 days	National	Training materials produced	30 061 500 1

Objective	To have a Surge capacity staff available and increase the proportion of EOC operations budget for preparedness and response at various levels supported through core government funding to 50% by 2018.						Year of implementation		
	Summary of Planned Activities at National Level (Strategic actions)	No	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)
Capacity building for surge personnel		Incident Manager EOC	REDISSE, in part	Develop and Produce Training Materials (Memory sticks- 160, booklets -1800, Visual aides- 1800, Assorted stationeries) Workshop 40 participants 16 from outside transport				1	79 200 000
Develop a costed Strategic plan for EOC that should be review and tested annually.		Incident Manager EOC		Develop and Produce Training Materials (Memory sticks- 160 @200k, booklets 40 pages- 1800@250k, Visual aides- 1800@200K, Assorted stationeries@500K)				1	1 742 000 000
				Workshop to develop a draft strategic plan for EOC (30 pax * 4 days)	National	Draft strategic EOC plan available		1	79 440 000
				Review of the strategic plan for EOC (20 pax * 3 days)	Sub National	Draft 2 of EOC strategic plan		1	34 040 000
				workshop for costing and finalization of the strategic plan for EOC (15 pax * 2 days)	National	EOC strategic plan		1	15 730 000
				Carryout a simulation exercise to test the validated and endorsed plan (40 pax * 2 * 1 times)	National	simulation exercise on the plan done	1 simulation	1	25 280 000
				Meeting with Parliamentary Oversight Committee on Health Advocacy meeting for creation of a dedicated budget line for EOC operations as outlined in the strategic plan (20 pax * 1 day)	National	Budget line dedicated for EOC operations		1	8 940 000

JEE Indicator		R.2.2 Emergency Operations Centre Operating Procedures and Plan						JEE Scores 3	
JEE recommendations**		Finalize key SOPs for EOC functions 2. Support capacity development in human and animal health epidemiology						Year of implementation	
Objective	Put in place SOPs for EoC emergency operation functions by 2018, 2. To have epidemiology capacity in both animal and human health by 2018	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan, framework / Programme or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)
1	Strengthen procedures and plans for EOC emergency operation functions	Incident Manager EOC	PHE, WHO, CDC		Review EOC SOPs to align with one health initiative (20 pax * 3 days)	National	SOPs aligned and reviewed		34 040 000 1
					Print 60 Copies of SOPs aligned with one health	National	60 copies of assorted SOPs printed	60	1 200 000 1
					Workshop for consolidation of the Emergency Operation Centre SOPs (20 pax * 2 days)	National	SOPs Consolidated	20	23 940 000 1
					Validation of SOPs (20 pax * 1 day)	National	SOPs validated		13 840 000 1
					Printing and dissemination of Finalized copies of SOPs (1000 copies)	National	1000 finalized SOPs printed		20 000 000 1
					Conduct Simulation exercises (1 quarterly * 4 x * 100 pax)	National and Sub National	Four simulation Exercises conducted	4 simulation exercises	974 900 000 1 1 1 1
					Develop SOPs to formalize information sharing between animal and human health (20 pax * 4 days)	National	SOPs available	20 Participants, SOPs	46 565 000 1
					Training of Human and Animal health staff on basic epidemiology .No cost, already captured in Workforce development	National ,	personnel trained	Refer to Workforce development	- 1 1 1
					Training of Rapid Response Teams on One health approach (12 pax * 17 * 5 days * 1)	National and Sub National	204 personnel trained	204	1 053 048 000 1 1 1
2	Build epidemiology capacity of human and animal health personnel	Secretariat Lead One Health	FETP now has vet officers						

Put in place SOPs for EoC emergency operation fuctions by 2018, 2. To have epidemiology capacity in both animal and human health by 2018							Year of implementation		
Objective	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)	2022
	Build epidemiology capacity of human and animal health personnel	Secretariat Lead One Health	FETP now has vet officers	Conduct joint outbreak investigations with Animal and human health teams (Launch allowance for 5 pax * 16 districts * 3 suspected outbreaks per quarter * 4) Conduct after action review (80 * 1 * 1 times)	National and Sub National	192 suspected Outbreaks investigation conducted.	192 investigations	2 275 200 000	2018
JEE Indicator	R 2.3 Emergency Operations Program ** Develop curriculum and institutionalized EOC and simulation training programmes.							JEE Scores 4	2018
Objective	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)	2022
	Summary of Planned Activities at National Level (Strategic actions)*	Strengthen EOC Emergency response operations by 2018		Curriculum development (hiring of 1 consultant * 3 months) workshop for adaption and validation of the curriculum (20 participants * 1 day) Printing of finalized curriculum (100 copies)	National	Consultant hired, Draft curriculum available	20 participants	279 888 000	2018
		Incident Manager EOC	Develop a curriculum for training of EOC staff to respond to PHE		National and Sub National	Validated Curriculum available	20 participants	16 265 000	2019
						Four Simulation trainings conducted	170 staff per Quarter	607 240 000	2020
					National and Sub National	Table top/ simulation exercises conducted	Two table top exercises conducted	64 960 000	2021
									2022

JEE recommendations**		**Develop curriculum and institutionalized EOC and simulation training programmes.								
Objective	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)	JEE Scores 4	Year of Implementation
			Procure 20 motor-bikes for national and districts EOC operations	National and Sub National	20 motor-bikes procured		20 motor-bikes	882 000 000	2018	2022
			Fuel running costs for 10 vehicles (20 * 480 L * 4)					230 400 000	1	1 1 1 1
			Fuel costs for 20 motorbikes (20 * 180 L * 4)					86 400 000	1	1 1 1 1
			Vehicle maintenance (20 * 1 000.000 * 12)					240 000 000	1	1 1 1 1
			Motorbike maintenane					72 000 000	1	1 1 1 1
JEE Indicator		R.2.4 Case management procedures are implemented for IHR relevant hazards								
JEE recommendations	Develop case management guidelines to respond to the most prevalent public health priority diseases (Cholera, Ebola, Lassa Fever, Yellow fever, Measles) and events									Year of Implementation
Objective	To establish case management guidelines for priority diseases (flooding & Chemical spills) by 2018									
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)	2018	2022
	Develop national case management guidelines for priority diseases	Incident Manager EOC	clinicians trainings for surveillance	Workshops for development of case management guidelines for priority diseases and events (workshops * 30 pax * 2 days)	National	attendance list	3 workshops 30 participants	124 860 000	1	
				Adaptation and finalization of case management guidelines for epidemic prone diseases (30 participants * 1 day)						
				Printing and dissemination of the case management guidelines (7 different guidelines * 500 copies)	National	case management guidelines for epidemic prone diseases	1 workshop 30 participants	15 810 000	1	
							Printed copies of case management guidelines	87 500 000	1	

Objective	Year of implementation							
	2018	2019	2020	2021	2022	2022		
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)
				Training of trainers on case management guidelines on priority diseases and events (5 pax * 17 * 3 days)	National and subnational	Report of training available	85 personnel	196 930 000
				Cascading training for Multisectoral personnel on case management guidelines for priority diseases and events (120 pax * 16 * 2 days yearly)	National and subnational	Report of training available	1920 personnel	1 607 520 000
				workshops for development of SOPs for the management and transport of potentially infected persons at PoEs (40 pax * 2 days)	National	Workshop report available	40 personnel	31 580 000
				Adaption and validation of SOPs for the management and transport of potentially infected patients at PoEs (40 pax * 2 days)	National	SOPs adapted and validated	40 personnel	30 515 000
		Incident Manager EOC	Develop SOPs for the management and transport of potentially infected persons	Printing and dissemination of SOPs for the management and transport of potentially infected patients at PoEs (1* 500 copies)	National	Copies Printed and disseminated	500 copies	12 500 000

Technical Area	Respond 3 Linking Public Health and Security Authorities												
	JEE Indicator	R.3.1 Public Health and Security Authorities, (e.g. Law Enforcement, Border Control, Customs) are linked during a suspect or confirmed biological event											
JEE recommendations	To strengthen coordination, collaboration and joint planning between public health and security authorities in response to emergencies by 2022					JEE Scores 4							
Objective	To have an all hazards plan and a system for stockpiling of supply mechanism to foster assess to resources during emergencies that is one health compliant by 2018.					Year of implementation							
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Programs or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	2018	2019	2020	2021	2022
	Build capacity for coordination and collaboration between human health, animal health and collaboration between public health and security authorities at PoEs			Consultative meeting and appointment of point of contacts from Human Health, Animal Health and security authorities (60 pax * 1 day)	National	Consultative meeting held and appointment of contact point	List of contact point priorities and Funding	40 260 000	1				
				Workshop for Memorandum of Understanding (MOU) and guidelines between public health and security authorities (40 pax * 3 days * 1 session)	National	Draft MOU and guidelines developed	1 MOU and 1 guidelines Competing priorities and Funding	47 805 000	1				
				meeting for adaptation and validation of MOU and guidelines (40 pax * 2 day)	Sub National	Validated MOU and guidelines available	1 validated MOU and Guidelines Competing priorities and Funding	34 005 000	1				
				Printing of finalized MOU and guidelines (500 copies * 2)	National	copies of MOU printed	500 copies Funding	500 000	1				
				Conduct joint training programme on MOU and guidelines for Human Health, Animal Health and security authorities (60 pax * 3days * 1 times)	National	Report on training available.	60 participants Funding	98 300 000	1				
				Quarterly review meeting to discuss issues and events of joint concern between public health and security authority (60pax * 2 days)	National	Reports of quarterly review meeting available	4 Reports Funding	491 760 000	1	1	1	1	1

Technical Area	Respond 4 Medical Countermeasures and Personnel Deployment					
	JEE Indicator	R.4.1 System is in place for sending and receiving medical countermeasures during a public health emergency				
		JEE Scores 2				
JEE recommendations						
		1. Enter agreements with medical countermeasures manufacturers and distributors to accommodate accelerated procurement of medical countermeasures during public medical, public health and veterinary personnel on an emergency basis, health emergencies stocks of medical countermeasures (for example, vaccines, antibiotics, infection control supplies and rapid diagnostic tests) to cover all-hazard emergency contingencies, including zoonotic infections. 4. Improve access to veterinary countermeasures by leveraging existing supranational partnerships, for example, OIE Canine Rabies Vaccine Bank. 5. Develop a distribution matrix for veterinary countermeasures for utilization at both national and regional levels.				
Objective	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Program or on going activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)
	Support the development of MOUs with manufacturers and suppliers of medical countermeasures for public health emergencies	CMO	Enlist the services of a legal consultant to draw up MOUs (1 pax * 1 month)	National	MOU developed	1 Draft MOU Breach of Contract by MoHS or manufacturers
			Workshop for adaptation and validation of MOUs (40 pax * 2 days)	National	MoU adapted and Validated	1 validated MOU Funding gaps
			Printing and dissemination of MOUs (500 copies)	National	Printed copies available	500 copies Funding gaps
			one day symposium with suppliers of medical commodities (30 pax * 1 day)	National	signed communique, attendance register	1 symposium Unwilling merchants
			Meeting of technical working group to develop regulations for vetting donations (10 pax * 3 days * 3 meetings)	National	regulations for vetting donations, attendance list	10 participants, refutation, Competing priorities
	Establish regulations for vetting donations of medical supplies to align with pharmacy board requirement	CMO	Publish the regulations in print media (newspaper advertisements 3 times * 2 daily)	National	Newspaper adverts	6 newspaper adverts Funding gaps
						2 700 000
						1

Objective		A one-health compliant strategic national stockpiling system of medical commodities for use in public health emergencies is established in Sierra Leone by 2020						Year of implementation	
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	
			National and Regional simulation exercise to practice deployment and receipt of medical countermeasures (25 pax * 4 days * 1)	National	simulation exercises conducted	1 simulation exercise per year Funding gaps	67 920 000	1	1 1 1 1
	Develop or update plans to direct the procurement, distribution and utilization of medical and veterinary Countermeasures .	CMO and CAO	workshop to develop a plan that directs procurement, distribution and utilization of medical countermeasures (40 pax * 3 days)	National	Workshop conducted and reports available	1 workshop Funding gaps	62 320 000	1	
			Workshop to Review and validation of plan (20 pax * 2 days)	National	Plan validated and reports available	1 plan Funding gaps	36 465 000	1	
			Printing and dissemination of the plan (100 copies)	National	plan printed and validated	100 copies of plan Funding gaps	1 500 000	1	
JEE Indicator		R 4.2 System is in place for sending and receiving health personnel during a public health emergency						JEE Scores 1	
JEE recommendations		Develop or update plans for sending and receiving health personnel during a public health emergency						Year of implementation	
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and potential challenges	Estimated cost (Local currency)	
	Empower health professionals' regulatory bodies to issue temporary licences and perform background checks on foreign professionals and volunteers.	CMO	None	workshop to prepare contents for a Bill to enact subsidiary legislation on licensing of medical, public health and veterinary personnel to cover temporary licensing (30 pax * 2 days)	National	Revised Health Workers Licensing regulations	30 Participants delays in AG office and parliament	56 650 000	1
				workshop to develop policies on the hiring of foreign professionals and volunteers for emergency response activities (40 pax * 3 days * 2 times)				R 124 640 000	1

Objective	Establish a system for sending and receiving health and veterinary personnel during a public health emergency						Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	
No	Maintain data base of trained health and veterinary personnel who are willing to be deployed externally	HRMO (Health)	Create and Maintain a database of personnel that can be deployed externally	National	Database of personnel that can be deployed externally	Targets and potential challenges	Estimated cost (Local currency)
	Develop a national deployment plan for response workers (Health and Veterinary) during public health emergencies	Hire an International consultant for drafting the deployment plan for public health emergencies (1 consultant * 4 months)	National	consultant hired	1 database frequently changing contacts of personnel	35 280 000	2018
		Workshop on review and validation of the national deployment plan (30 pax * 2 days)	National	Validated deployment plan	1 consultant Funding	370 734 000	2019
		Printing of the deployment plan (200 copies)	National	printed copies of deployment plan	1 validated plan Funding	41 620 000	2020
					200 copies Funding	5 000 000	2021
							2022
Technical Area	Respond 5 Risk Communication						JEE Scores 3
JEE Indicator	R.5.1 Risk Communication Systems (plans, mechanisms, etc.)						
JEE recommendations	1. Finalize the draft EOC communications strategic plan. 2. Develop a training plan to meet the capacity gaps in risk communication						
Objective	To finalize EOC communications strategic plan, review Media and Communications SOPs and strengthen capacity of Risk Communicators						Year of implementation
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Estimated cost (Local currency)
	Finalize the EOC Communications strategic plan.	EOC Communications Lead	Media and Communication SOP is available	Workshop for expert to review existing Media and Communications SOPs (40 multisectorial participants*2days*3) 30 away 5 cars	National	Availability of Revised SOP	120 Participants
		EOC Communications Lead	Draft PHEOC communications strategic plan,	experts workshop to validate the Plan (40 participants*2 day 30 away 5 cars	National	Plan validated	196 515 000 1
							1
							1
							1
							1

Objective	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Year of implementation				
			2018	2019	2020	2021	2022
To finalize EOC communications strategic plan, review Media and Communications SOPs and strengthen capacity of Risk Communicators			Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)	
			Detailed activities (Input description for costing)				
Finalize the EOC Communications strategic plan.	EOC Communications Lead	Related existing plan / framework / Program or on going activities	Launch and dissemination of the approved PHEOC communications strategic plan(100 participants*1 day) 80 away 16 cars	National Report	100 Participants	110 460 000	1
		Validated PHEOC communications strategic plan					
		Monitoring of the Risk Comms plan	External evaluation of the effectiveness of the Risk Comms Plan *Recruit evaluation team *3 months	National	Evaluation Report	5	312 900 000
		Review evaluation report	Workshop for expert to review findings of the evaluation and determine next steps 40 participants *2days) 16 away	National report	40 Participants	45 440 000	1
			meeting to identify and develop cross-sectoral training needs and draft training plan for risk communications (30 pax*1 day meeting x 5) 16 away	National Plan developed	30 participants	132 950 000	1 1 1 1
Build human capacity in risk communication	EOC Communications Lead	Draft PHEOC communications strategic plan	Workshop to develop and validate training materials (30 pax*4 days meeting* 5) 20 away	National Plan developed and validated	30 participants	394 800 000	1 1 1 1
		Refresher training of personnel on risks communication reflecting the one health approach, including simulation exercise (40 pax * 5 days * 2) 20 away	National Personnel trained	40 participants	104 480 000	1	

		Year of Implementation				
Objective	To finalize EOC communications strategic plan, review Media and Communications SOPs and strengthen capacity of Risk Communicators	2018	2019	2020	2021	2022
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)
	Build human capacity in risk communication	EOC Communications Lead	Draft PHEOC communications strategic plan	Training of 30 journalists for responsible reporting on public health risks & One Health, including representatives from main regional outlets & site visit (4 days); certificates; printing of materials; award for best health reporting (?) (30px4 days* 4 locations)-(1 consultant media trainer fees * 30 days)) 60 away 4 cars	National and Sub-National	Reporters trained; media monitoring
				1 consultant and 3 facilitators hired (international)		
JEE Indicator	R.5.2 Internal and Partner Communication and Coordination					JEE Scores 4
JEE recommendations	Establish a formal mechanism to coordinate communication with the private sector during an emergency.					Year of Implementation
Objective	To develop formal mechanism to coordinate communication with the private sector and other stakeholders during an emergency	2018	2019	2020	2021	2022
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)
	Develop formal mechanism to coordinate communication with the private sector during an emergency	EOC Management, EOC Communications Lead, ONS	None	Workshop for development of MOU (25 pax * 2 days * 4 locations)	National and sub-national	MOU and SOP developed; number of private sector actors engaged
1				Workshop for validation and adoption of the MOU (40 pax * 1 day * 4 locations)	National and sub-national	MOU and SOP developed; number of private sector actors engaged
				Workshop to review MOU (25 pax * 2 days * 4 locations)	National	MOU and SOP validated
					25 participants	163 120 000 1 1 1

Objective To develop formal mechanism to coordinate communication with the private sector and other stakeholders during an emergency							Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)	
	2	Sustain regular communications with partners	EOC Communications Lead		Production and dissemination of MOU (1000 copies)	National	Copies printed and received	100 copies	30 000 000	2018
					Quarterly newsletter is produced and disseminated (printing of 150 newsletters x 4 quarters)	National	Quarterly newsletter produced and disseminated	600 newsletters	3 000 000	2019
					Quarterly coordination meetings held involving health, agriculture, ONS, EPA, environmental partners etc (30pax*12 meetings)	National	Number of weekly coordination meetings	4 meetings per year	484 320 000	2020
					Simulation exercise is held involving the private sector actors	National and sub- national	Regular simulation exercises; private sector participation		67 050 000	2021
					Database of contacts of institutions and individuals key to public communications during management of public health emergencies is sustained and updated	National	Frequency of updates to contact lists	4 updates annually	-	2022
JEE Indicator		R.5.3 Public Communication								
JEE recommendations		Sustain feedback loops between district teams and communities within localities								
Objective	Community	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)	Year of implementation
		Capacity building for risk communication in the districts	EOC Communications Lead	Draft EOC communications strategic plan	workshop to develop ToRs for district focal persons (20pax*1 day)	National	ToRs developed	20 participants	24 620 000	2018
					Training/ refresher training of focal persons on risk communication (35 pax * 5 days * 2 locations	National	Focal persons trained	75 focal persons	249 990 000	2019
										2020
										2021
										2022

Objective	To have risk communications focal persons in each district by 2018 (health sector) that will serve as communication link between the district and the community						Year of implementation		
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)
Capacity building for risk communication in the districts	EOC Communications Lead	Draft EOC communications strategic plan	Provision of mobile phones with CUG @20K per month connectivity for exchange of information between relevant stakeholders (75)	National	Mobile with CUGs provided	75 mobile phones	18 000 000	1 1 1 1	2022
		Draft EOC communications strategic plan, risk matrices	Workshop to develop district specific risk comms plans and messaging, (15 pax * 3 days*16 districts)	sub-National	Comms plan in place	240 participants	510 000 000	1 1	2021
	District focal persons	Workshop to review district plans (15 pax * 3 days*16 districts)	Transport and subsistence for twice monthly community engagement meetings by risk communications focal persons (60 pax * 2*12 months)	sub-National	Comms plan in place	240 participants	510 000 000	1	2020
Community engagement meetings	EOC Communications Lead, district focal persons, social media	Draft EOC communications strategic plan	Community engagement meetings held	sub-National	Community engagement meetings held	1440 community engagement meetings	57 600 000	1 1 1 1	2019
Media engagements for risk communications	EOC Communications Lead, district focal persons	Draft EOC communications strategic plan	National, districts	Number of media briefings	340 journalists per year	106 950 000	1 1 1 1		2018

Objective	To have risk communications focal persons in each district by 2018 (health sector) that will serve as communication link between the district and the community						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for Implementation including budget line holder	Related existing plan/ framework / Program or on going activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)	
				Public relations: TV programs, radio discussions (National 2 TV programs per month@3Mio x 12months, 5 Radio discussions @1Mio per month x 12 months and 1 regional TV programs per @ 3Mio 5 regions and 4 Radio programs @ 1 Mio per 16 districts) + (120 radio programs)	National, regional/ districts	Media engagement sessions	216 TV programs, 828 radio programs, for year		331 000 000	2018
				Develop inventory of risk communication materials nation wide Review existing materials half yearly	National and sub-national	Inventory data base in place			14 900 000	2019
			EOC Communications Lead, MAF	Draft EOC communications strategic plan, risk matrix	National and sub-national	Risk comm materials developed	30 participants		56 650 000	2020
JEE Indicator JEE Recommendations		R.5.4 Communication Engagement with Affected Communities Allocate a dedicated budget line in with MOHS and MAF for addressing communications response in MoHS & MAF						JEE Scores 2		Year of implementation
Objective	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for Implementation including budget line holder	Related existing plan/ framework / Program or on going activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets	Estimated cost (Local currency)	
		Create a dedicated budget line for addressing risk communications response in MoHS & MAF	Financial directors (MOHS & MAF)	Advocacy and management meetings to establish budget line for risk communication (30 pax * 2 days)	National	Budget line created	30 participants		41 620 000	2021
		Local level engagement	DEOC, MAF, ONS	Local level engagement using existing community structures to facilitate feedback mechanisms (30 pax *16 districts *4 yearly)	District	Reports	64 Meeting		160 940 000	2022

JEE Indicator		R.5.5 Dynamic Listening and Rumour Management		JEE Scores 3	
Objective	Summary of Planned Activities at National Level (Strategic actions)	Methods for effective monitoring of messages used to disprove rumours or correct information should be put in place.			
No	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)
		Media monitoring:Buy local news papers(10 news papers * 293 days + Subscription for DSTV * 12 months + Dongle Subscription * 3 modems * 12 months) + (Dongle Subscription * 16 modems for districts * 12 months	Media monitoring:Buy local news papers(10 news papers * 293 days + Subscription for DSTV * 12 months + Dongle Subscription * 3 modems * 12 months) + (Dongle Subscription * 16 modems for districts * 12 months	National	Media monitored
	EOC Communications Lead	Whatsapp groups established with district colleagues to share information, messages, materials and report rumours	Whatsapp groups established with district colleagues to share information, messages, materials and report rumours	National , district	Number of relevant participants/posts in Whatsapp groups
	EOC Communications Lead, district focal persons	117 marketing and promotion including radio discussions (nationally and in the districts); 1 jingles; 5000 posters, 18 Bill boards (10 jingle slots per month* 2 radio stations*12 months *16 districts)	117 marketing and promotion including radio discussions (nationally and in the districts); 1 jingles; 5000 posters, 18 Bill boards (10 jingle slots per month* 2 radio stations*12 months *16 districts)	National , district	Number of radio discussions; airtime
	EOC Communications Lead	Annual hosting and maintenance of Website	Annual hosting and maintenance of Website	National	Functioning website; usership
	EOC Communications Lead, MAF	Ensure timely updates on social media (Whatsapp and Facebook) to counter rumours and share public health information	Ensure timely updates on social media (Whatsapp and Facebook) to counter rumours and share public health information	National	Frequency of social media posts
	EOC Communications Lead	Nation wide media survey (2 teams of 3 staff for 14 days)	Nation wide media survey (2 teams of 3 staff for 14 days)	National , district	2 participants
					14 900 000
					59 500 000

Technical Area	JEE Indicator	PoE.1 Points of Entry			Year of Implementation
		JEE Scores 2		JEE Scores 1	
JEE recommendations		1. Develop policy, SOPs, guidelines and plans for port health. 2. Conduct capacity assessments at major border crossings and establish PoEs for their designation 3. Establish or strengthen routine inspection programmes at PoEs with 24 hour appropriate services. 4. Finalize the national aviation public health emergency preparedness plan			
	Objective	Detailed activities (input description for costing)			
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national) Output indicators (Monitor Targets and potential challenges Monitoring and Evaluation)	Comments or Potential challenges
		Assess existing Policies, plans, frameworks, guidelines (45-2 days*1 time)	National Meeting report	1 meeting report	Estimated cost (Local currency) Knowledge of existing policies
		Draft policy for port health services (20'3*1 meeting)	National Meeting report	1 draft Port health policy	64 990 000 1
		Meetings to advocate for cabinet approval (zero cost, 2 meetings)	National Number of advocacy meeting held	2 Advocacy meetings	Commitment issues. 62 810 000 1
		Sensitize stakeholders on policy (50PAX*1 day*3 meetings)	National number of people sensitized	150	Cabinet priorities - 1
		Awareness through electronic media (40 Radio@ 1mio and 10 TV @ 3Mio total 50 sessions) for 5 Years	National Number media adverts	50 Adverts	132 750 000 1
		Awareness through print media (5 sessions)	National Number of media appearances	5 media appearances	70 000 000 1 1 1 1
		Hire 1 international consultants for three (3) months	National Number of consultants hired	2 contracts signed	14 900 000 1
		Hire 1 national consultants for three (3) months			Time frame of engagement 279 888 000 1
		Stakeholders Consultation meetings to develop and review SP (80'3 days*4 meetings with 3 of them residential)	National Meeting report	4 meeting reports and draft plans	35 280 000 1
		Validation Workshop (80'1 day*1 meeting)	National 1. National SP 2. Meeting reports	1 strategic plan	Funding 737 940 000 1
		Sensitize personnel on the SP (50'2days*4 sessions, 3 of them residential)	National Number of people sensitized	200 people sensitized	Funding 136 405 000 1
		Hold annual M & E meetings (60 Pax*3 days*5 years	National Meeting reports	5	Funding 66 900 000 1
					88 445 000 1 1 1 1

Objective	Detailed activities (input description for costing)			Comments or Potential challenges	Estimated cost (Local currency)	Year of implementation	
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (input description for costing)				
		Develop framework, SOPs, guidelines and tools for border health	Workshop to develop draft framework, SOPs, guidelines and tools for border health (50Px*3days*3 meetings all residential)	National	Meeting reports	3	2018
			Validate framework, SOPs, guidelines and reporting tools for border health (50Px*1day*1 meeting)	National	Meeting report	1	2019
			Sensitize personnel working at PoEs on framework, SOPs, guidelines and reporting tools (50Px*2days*3 meetings, 2 of them residential)	National Sub-national	Meeting reports	3	2020
			Conduct assessment of existing infrastructure (8Px*6 days*1 time)	Sub-national	Assessment report	1	2021
			Prepare and disseminate report with recommendations on infrastructure needs at PoEs	National	Assessment report	1	2022
			Meeting to mobilize resources to address infrastructure gaps (60Px*1day*1time)	National	Meeting report	1	
			Build /rehabilitate infrastructure for the 9 major POEs (20,000.000 each)	Sub-national	Number of PoEs build/rehabilitated	9	
			Build animal holding facilities in 3 PoEs	Sub-national	Number of animal holding facilities furnished	3	
			Procure furniture for 9 major POEs	Sub-national	Number of PoEs furnished	9	
			Procure equipment for 9 major POEs	Sub-national	Number of PoEs furnished	9	
			Establish three (3) holding facilities at FNA, Gbalamuya and Jendema	Sub-national	Number of holding facilities established	3	
			Procure 10 vehicles for PoEs	National	Number of motor vehicles procured	10	
			Procure 20 motorcycles for PoEs	National	Number of motorcycles procured	20	
		Strengthen infrastructure for routine services at PoEs					

Objective	Detailed activities (input description for costing)					Year of implementation
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and Potential challenges Monitoring and Evaluation)	
		Supply cold chain system to 4 PoEs (4 fridges)	Sub-national	Number of PoEs equipped with cold chain facilities	4	funding / maintenance
		Supply yellow fever vaccines to 5 PoEs (through out the five years)	Sub-national	Number of PoEs stocked with yellow fever vaccine	5	-
		Procure 2 computers each of 6 PoEs	National	Number of computers procured	12	89 400 000 1
		Procure 1 printer for each of 6 PoEs	National	Number of printers procured	6	14 900 000 1
		Procure PoE equipments				149 000 000 1
		Establish Closed User Group for PoE personnel (200 users) to facilitate reporting and communication	National and	Number of personnel on CUG	200	44 775 000 1
		Recruit and deploy 27 port health staff for the 9 major POES (3 per PoE)	National	Number of port health staff recruited and deployed	27	1. Public service recruitment freeze 2. Funding
		Conduct training for 60 POE staff every year (60Pax*3days*5years)	National	Number of personnel trained	300	324 000 000 1 1 1
		Conduct exchange visits with other PoEs outside Sierra Leone to learn best practices (2 Pax yearly*5years)	National and sub-national	Number of personnel visiting	10	141 420 000 1 1 1 1
		Conduct biannual supportive supervisions of PoE activities in 9 districts (12Pax*20 quarters*6 days)	Sub-national	Number of PoEs supervised	45	36 750 000 1 1 1 1
		Meetings to review implementation of border health activities quarterly (60Pax*3days*4quarters*5years)	National	Number of review meetings held	20	174 600 000 1 1 1 1
		Train 20 para veterinary officers for 3 months each.	National	Number of review meetings held	20	473 280 000 1 1 1 1
		Hold regional cross-board meetings within MRU countries to develop structure for cross-border collaboration in health (75Pax*5 days*3 meetings).	National	Number of regional cross-border meeting held	3	1. MRU member states will prioritize this activity. 2. Language differences
		Cross boarder engagement for information sharing, joint out break response and planning				189 775 000 1 1

Objective	Detailed activities (input description for costing)					Year of implementation
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and potential challenges Monitoring and Evaluation)	
		Meeting to develop an MOU for cross boarder engagement with MRU countries (75Pax*5 days*1 meeting)	National "1. MOU developed 2. Meeting report"	1 MCU developed	Comments or Potential challenges	Estimated cost (Local currency)
		Hold annual regional cross board meetings within MRU countries. (75Pax*3 days*4 meetings)	National Number of Meeting held	4	Cooperation by member states	95 275 000 1 1
		Conduct a health service availability inventory and capacity assessment between cross boarder districts in MRU countries. (12Pax*12days)	Sub-national Assessment of inventory of health service availability in MRU countries	1 assessment report	Cooperation by member states	374 100 000 1 1 1
		Adapt/revise MOU between the seven boarder districts with their counterparts in Guinea and Liberia (30Pax*2 days meetings per district for 7 districts)	Sub-national Number of districts with revised MOUs	7	Cooperation by member states	90 300 000 1 1
		Develop Framework for cross-border collaboration (60*5days*2 meetings)	National "1. Meeting report 2. Draft framework"	1 draft framework		269 360 000 1
		Validate framework for cross-border collaboration (60Pax1 day*1 meeting)	National "1. Meeting report 2. Finalised framework"	1 framework		352 950 000 1
		Hold cross boarder surveillance coordination meetings in 7 districts quarterly (20Pax*2 days*28 meetings*5 years)	Sub-national Number of quarterly meetings held	140 meetings		60 920 000 1 1 1
		Train cross boarder collaboration committees on SOP, Tools, framework etc. (40Pax*4days*5 trainings)	Sub-national Number of persons trained	200		932 820 000 1 1 1
						325 050 000 1

JEE Indicator		PoE.2		JEE Scores 1		Year of Implementation
JEE recommendations	Objective	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and potential challenges Monitoring and Evaluation)	Targets	
	Summary of Planned Activities at National Level (Strategic actions)	Meeting of stakeholders to establish status of existing plans and the need for new plans. (75Pax*3days)	National	Meeting report	1 meeting report	Knowledge of existing plans
		Meetings for the drafting and reviewing the national PoEs PHECP (75Pax*5days*3 meetings)	National	1. Meeting reports 2. Draft national PHECP	1 draft national POE PHECP	149 850 000 1
		Meeting to validate the national PoEs PHECP (75Pax*1day)	National	1. Meeting reports 2. Final national PHECP	1 final national PoEs PHECP	571 845 000 1 1
		"Validate the Freetown International Air Port public health emergency response plan (75Pax*2 days) possibility to join with above (validate the national PoEs PHECP)"	National	1. Meeting report 2. Final plan	1 final plan	63 875 000 1
		Disseminate the national PoEs PHECP (30Pax*2 days*5 meetings)	National and sub-national	Number of people sensitized	150	95 350 000 1 1
		Develop a national public health Emergency Contingency Plan (PHECP) for emergencies at PoEs	Sub-national	1. Meeting reports 2. Draft plans	4 draft plans	170 300 000 1 1
		Develop draft PoEs specific public health emergency response plans for 4 PoEs (40Pax*5days*2 meetings*4 PoEs)	Sub-national	1. Meeting reports 2. Draft plans	4 draft plans	253 470 000 1 1
		Validate draft PoEs specific public health emergency response plans for 4 PoEs (40Pax*1days*4 PoEs)	Sub-national	1. Meeting reports 2. PoE finalised plans	4 PoEs finalised plans	129 920 000 1 1
		Sensitize stakeholders on the PoE specific public health emergency response plans (100 Pax*1 day 4 districts)	Sub-national	1. Meeting reports 2. Number of people sensitized	400 people sensitised	257 200 000 1 1
		Develop SOPs for POEs public health emergency response plan (40Pax*3 days*1 meetings)	Sub-national	1. Number Meeting 2. Developed SOPs	1 SOPs developed	86 960 000 1 1

Objective	Year of implementation				
	2022	2021	2020	2019	2018
Summary of Planned Activities at National Level (Strategic actions)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and potential challenges Monitoring and Evaluation)	Targets	Comments or Potential challenges	Estimated cost (Local currency)
No	Detailed activities (Input description for costing)				
Sensitize PoE staff (including other govt sectors) on public health emergency response plan/ SOP (40Pax*2 days*5 meetings)	Sub-national	Number of sensitized personnel	200		315 400 000
Train personnel working at PoE and clinical staff from selected health facilities on EPR (50 Pax*3days*5 meetings)	Sub-national	Number of personnel train on EPR	250		463 150 000
Conduct one simulation exercise biannually (80Pax*3 days*10 SIMEX)	Sub-national	Number of simulation exercises conducted	10		1 296 600 000
Technical Area	Other IHR & PoE Chemical Events				
JEE Indicator	CE_1 Mechanisms are established and functioning for detecting and responding to chemical events or emergencies				
JEE recommendations	<p>1. Develop comprehensive guidelines or manuals on surveillance, assessment and management of chemical events to support the implementation of the strategic plan for chemical safety.</p> <p>2. Establish a coordination mechanism nationally and at regional and district levels for the detection and response to chemical events and emergencies, to include a public health plan for chemical incidents and emergencies.</p> <p>3. Advocate for an increase in the number of human resources to meet the needs of chemical safety.</p> <p>4. Establish a national environmental quality laboratory system</p> <p>5. Establish poisons center</p>				
Objective	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022				
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for Implementation including budget line holder	Related existing plan/ framework / Programme or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)
	Strengthen the capacity to monitor chemicals in air, water, waste water, soil, sediments, human and Plant specimen and products for purposes of compliance promotion, research, and enforcement by 2021	EPA-SL	Review and Update of the National Implementation Plan of the Stockholm Convention	Procure 2 equipped Mobile chemical monitoring laboratories (Caravan trail);	National/Sub-national # of mobile chemical laboratories
Objective	Year of implementation				
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for Implementation including budget line holder	Related existing plan/ framework / Programme or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)
	Strengthen the capacity to monitor chemicals in air, water, waste water, soil, sediments, human and Plant specimen and products for purposes of compliance promotion, research, and enforcement by 2021	EPA-SL	Review and Update of the National Implementation Plan of the Stockholm Convention	Procure 2 equipped Mobile chemical monitoring laboratories (Caravan trail);	National/Sub-national # of mobile chemical laboratories
Objective	Year of implementation				
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for Implementation including budget line holder	Related existing plan/ framework / Programme or on going activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)
	Strengthen the capacity to monitor chemicals in air, water, waste water, soil, sediments, human and Plant specimen and products for purposes of compliance promotion, research, and enforcement by 2021	EPA-SL	Review and Update of the National Implementation Plan of the Stockholm Convention	Procure 2 equipped Mobile chemical monitoring laboratories (Caravan trail);	National/Sub-national # of mobile chemical laboratories

Objective	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/framework /Program or ongoing activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)	
				Minamata Initial Assessment and National Action Plan for the Artisanal and Small Scale Gold mining	Procure 5 hand held portable laboratory field test kits for chemicals in the regions	Sub-national	# of hand held portable laboratory	5 funds, Political stability, maintenance and repairs	147 000 000	1
				Minamata Initial Assessment and National Action Plan for the Artisanal and Small Scale Gold mining	Reagents /Other Consumables	Sub-national	# of Reagents /other consumables	6000 funds, Political stability, maintenance and repairs	22 050 000	1
				Minamata Initial Assessment and National Action Plan for the Artisanal and Small Scale Gold mining	Procure 100 complete Personal Protective Equipments (PPEs)	Sub-national	# of PPEs procure	100 funds, Political stability, maintenance and repairs	3 725 000 000	1
			EPA-SL	Training and Awareness raising programs on sound management of Waste	Procure 5 motorbikes for monitoring of Chemicals in remote environment	National	# of motorbikes	5 funds,	447 000 000	1
				Strengthen the capacity to monitor chemicals in air, water, waste water, soil, sediments, human and Plant specimen and products for purposes of compliance promotion, research, and enforcement by 2021	Procure and install 15 stationary specialized air monitoring stations for toxic chemicals (PQPs, Halogens, Heavy metals, VOCs, Sulphides, GHG etc)	National	# of specialized monitoring stations	15 funds,	1 764 000 000	1 1
				Strategic action Plan (2017-2021) of the Environment Protection Agency (EPA)	Procure and install 15 stationary specialized water monitoring stations for toxic chemicals	National	# of specialized monitoring stations	15 funds,	2 205 000 000	1 1
					Procure marine pollution monitoring mobile unit for toxic chemicals and response	National	# of specialized mobile marine units	2 funds	5 587 500 000	1 1
					Procure 5 portable equipment for realtime monitoring of toxic chemicals in air	National	# of portable equipment	5 funds,	294 000 000	1 1

Objective	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022						Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)
				Procure 5 portable equipment for realtime monitoring of toxic chemicals in Water	National	# of portable equipment	5 funds,	294 000 000 1 1
				Procure 5 portable equipment for realtime monitoring of toxic chemicals in Soil	National	# of portable equipment	5 funds,	294 000 000 1 1
				Procure 5 portable equipment for realtime monitoring of toxic chemicals in Sediments	National	# of portable equipment	5 funds,	294 000 000 1 1
				Procure 5 portable equipment for realtime monitoring of toxic chemicals in Products	National	# of portable equipment	5 funds,	294 000 000 1 1
				Procure 5 portable equipment for realtime monitoring of toxic chemicals in human specimens	National	# of portable equipment	5 funds,	294 000 000 1 1
		EPA-SL		Procure 5 portable equipment for realtime monitoring of toxic chemicals in plant specimens	National	# of portable equipment	5 funds,	294 000 000 1 1
				Training of laboratory personnel on the use of specialized testing kits as listed above (25X 3daysX 3 training)	National	Training Report	25 funds,	59 550 000 1 1
				Training of laboratory personnel on the maintenance of specialized testing kits as listed above (25*3 days/3 trainings)	National	Training Report	25 funds,	178 650 000 1 1

Objective	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022						Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)
				Construct national reference chemical laboratory (ISO 17250 certified) for air, water, waste water, sediments, human specimen, plants, and products	National	# of building and # of equipment	1 funds,	16 762 500 000 1 1
				Procure Equipments for national reference chemical laboratory (ISO 17250 certified) such as GC, AAS, Ion and Liquid Chromatography, Mass Spectrometer, Analytical Balance, Muffle Ovum, Biological safety Cabinet, Analytical tables, Gas Source, Beakers, Cylinders, two Microscopes (Electromicroscope and Compound Microscope), 75 KV generator etc.	National	# of equipment procure	1 funds,	3 725 000 000 1 1
				Support the management of the chemical laboratory for a period of three years (Stationaries, Fuel etc)	National	# of operational support	3 funds,	73 500 000 1 1 1
				Stakeholder engagement to support sustainability (40 participants * 2days * 5 Regions)	National	Meeting report	40 funds,	68 905 000 1 1 1 1
				Procurement of 10 laptop Computers for chemical data input and processing	National	# of computers	10 funds,	260 750 000 1 1

Objective	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022					Year of implementation				
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)	
EPA-SL	Strengthen the capacity to monitor chemicals in air, water, waste water, soil, sediments, human and Plant specimen and products for purposes of compliance, promotion, research, and enforcement by 2021			Procure and install 5 chemical monitoring database	National	# of database	5 funds,	1 676 250 000	1 1	2022
				Procure 5000 pieces of specialized noise masks	National	# of nose mask	5000 funds,	558 750 000	1 1	2021
				Procure 5000 specialized aprons for chemical emergency response	National	# of apron	5000 funds,	558 750 000	1 1	2020
				Procure 1000 specialized safety shoes for chemical emergency response	National	# of safety shoes	1000 funds,	55 875 000	1 1	2019
				Procure 1000 of specialized googles for chemical emergency response	National	# of gloves	1000 funds,	31 662 500	1 1	2018
				Procure 1000 of specialized googles for chemical emergency response	National	# of googles	1000 funds,	39 112 500	1 1	
				Procure 100 of specialized wash chambers for chemical emergency response	National	# of wash chambers	100 funds,	1 676 250 000	1 1	
				ISO 17025 accreditation programs for Chemical laboratory Assessment meeting	National	# of accreditation licences	1 funds,	558 750 000	1 1	
				ISO 17025 accreditation programs for Chemical laboratory Corrective Measures	National	# of accreditation licences	funds,	633 250 000	1 1	
				ISO 17025 accreditation programs for Chemical laboratory Re-Assessment and Re-certification	National	# of accreditation licences	1 funds,	558 750 000	1 1	

Objective	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022						Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	
				Training of legal professionals on Chemical prosecutions (40 Pxs* 2days* 5 years)	National	Training Report	5 funds,
				Train laboratory staff on legal implications of sampling, analysis and reporting (25* 2days*5yrs)	National	Training Report	5 funds,
				Hiring of 1 International and 1 national consultants. To conduct consultancy on (1) national profile of Chemicals, (2) develop implementation plans and (3)emergency preparedness and response plans on Chemicals	National	# of consultants	2 funds,
				Review and Update of the National Implementation Plan of the Stockholm Convention			325 311 000 1 1
				National consultant 3 - 4 months			41 160 000 1
		EPA	Minamata Initial Assessment and National Action Plan for the Artisanal and Small Scale Gold mining	1 National Workshop to launch the program (100pxs*1day)	National	workshop report	1 funds,
			Promote programmes to develop chemicals-management instruments (national profiles, national implementation plans, national emergency preparedness and response plans).	2 Stakeholder engagements (Consultations, presentation of draft at 5 regions. (10 meetings*60pxs*3days*5regions)	National/Sub-national	Meeting reports	10 funds,
			Stocking taking exercise of Obsolete pesticides and associated wastes	1 national validation meeting ('meeting'100pxs*2days)	National	meeting report	1 funds,
			Strategic action Plan (2017-2021) of the Environment Protection Agency (EPA)	Training of stakeholders in selected district and Chiefdom levels (20 trainings*50pxs*1)	National/Sub-national	Training Reports	20 funds,
							53 950 000 1 1

Objective	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022						Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)
				1 Simulation annually for emergency preparedness and response plans.	National/Sub-national	Simulation report	5 funds,	745 000 000 1 1
				Procurement of a server for Chemical Information Exchange	National	# of server	1 funds,	167 625 000 1 1
				Support chemical information Exchange networking of key stakeholders (MAF, EPA, MTI, MoHS, NRA, NSRPA, ONS) -- Software for communicating date/information)	National/Sub-national	# of networking	1 funds,	37 250 000 1 1
				Training of stakeholders on computerised chemical data sharing and compliance rating of chemicals within the lifecycle. (10 trainings*2days*30pxs)	National/Sub-national	Training Reports	10 funds,	515 100 000 1 1
	Promote chemical exchange information through enhanced networking	EPA		Develop a comprehensive reporting tools to assist industry to provide simplified chemicals information to Government and individual users. Workshop , consultant validation meeting	National	# Tools	1 funds,	98 196 000 1 1
				Workshop 30 pers 2 days				60 235 000 1 1
				Validation meeting 60 pers 1 day				65 720 000 1 1
				Support quarterly national meetings TWG on Chemicals management for a period of 3yrs. (16meetings*20pxs*1day)	National	Meeting reports	16 funds,	455 840 000 1 1 1

Objective	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)	
				Hiring of 11 International and 1 national consultants	National	# of consultants	2 funds,	325 311 000	1 1 1	2022
				National consultant 3 - 4 months				41 160 000	1 1 1	2021
				2 Stakeholder engagements (Consultations, presentation of draft) in 5 regions. (2*60pxs*3days*5)	National/Sub-national	meeting reports	10 funds,	128 020 000	1 1 1	2020
				1 validation meetings (1*80pxs*1day)	National	Meeting report	1	76 985 000	1 1 1	2019
				Training of Technical Staff on framework implementation. (3days*10pxs*5regions* 10meetings)	National	Training Reports	10 funds,	467 900 000	1 1 1	2018
			EPA	Chemical Incidence Surveillance guideline developed and validated.	National/Sub-national	# of Guidelines	10 funds,	1 203 200 000	1 1 1	
				2 Stakeholder engagements (Consultations, presentation of draft) in 5 regions. (2*60pxs*3days*5)	Consultant int 60			279 888 000	1 1 1	
				Monthly sampling and analysis of rivers in progress	National/Sub-national	# of Guidelines	10 funds,	1 304 450 000	1 1 1	

Objective	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework /Programme or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	
Develop communication framework for pollution and chemicals management	EPA	Radio discussions and awareness programs on Mercury Waste management and POPs	Hiring of 1 International and 1 national consultants	National # of consultants	12 unds,	2018 279 888 000 1 1 1
		National consultant 3 - 4 months				2019 35 280 000 1 1 1
		2 Stakeholder engagements (Consultations, presentation of draft) at 5 regions. (2*60pxs*3days*5)	National meeting reports	10 funds,		2020 1 017 450 000 1 1 1
		1 validation meetings (180pxs*1day)	National meeting report	1 funds,		2021 65 720 000 1 1 1
		Training of Technical Staff on framework implementation in selected districts and chiefdoms. (2days*20meetings*10pxs*5regions)	National Training Report	20 funds,		2022 1 455 600 000 1 1 1
Increase knowledge of Coastal communities on pollution identification and management control. The entire coastline of Sierra Leone	EPA	Environmental committees exists in local communities	National # of Guidelines	10 funds,		1 304 450 000 1 1 1
		30 stakeholder workshops on pollution identification and management control for coastal communities in Sierra Leone. (30workshop 50pxs*2days)	National/Sub-national # of Meeting reports	30 funds,		2 298 000 000 1 1 1

JEE Indicator		CE.2 Enabling		JEE Scores 2			
JEE recommendations	Objective	Develop a strategic plan for chemical safety				Year of implementation	
No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges
			Draft Chemicals management act	1 Pre-legislation meeting with Parliamentarians (1 meeting*150 Pxs* 1day)	National	Meeting reports	Target 1 funds,
			EPA-SI amended act of 2008	Disseminate through 10 workshops/community engagements (10workshops*60pxs*1day)	National	# of reports	Target 10 funds,
			Environmental Impact assessment fee regulations	20hrs television discussions program on chemicals	National/ Sub-national	Recorded discussions	Target 20 funds,
	Enact Draft National chemicals Management Act 2017	EPA	A party to the Stockholm Convention, Basel Convention, Minamata Convention, SAICM, Vienna, Marpol and OPCW, Libreville declaration of 2010.	20 radio discussions program on chemicals	National/ Sub-national	Recorded discussions	Target 20 funds,
				Development of 1 Jingles	National	copy of jingle	Target 1 funds,
				1000 flyers	National/Sub-national	copy of flyer	40 975 000 1
				300 public announcement slots on radio	National/Sub-national	receipts	1000 funds, 365 050 000 1
				20 publications on the print media	National/Sub-national	receipts	300 funds, 104 300 000 1
	Enact Draft regulations for the management of toxic and hazardous substance	EPA	Draft toxic and hazardous substance regulations	1 Pre-legislation meeting with Parliamentarians, 150pxs* 1days*1workshop	National	meeting report	150 funds, 74 500 000 1

Objective	To develop, legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.					Year of implementation				
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)	
Enact Draft regulations for the management of toxic and hazardous substance	EPA			Disseminate through 20 workshops/community engagements (20workshops*60pxs*1day)	National/Sub-national	# of reports	Target 20 funds,	- 1		
				20hrs television discussions	National/Sub-national	Recorded discussions	Target 20 funds,	14 900 000 1		
				20 radio discussions	National/Sub-national	copy of jingle, flyer	20 funds,	14 900 000 1		
				Development of 1 Jingles	National	receipts	Target 1 funds,	40 975 000 1		
				1000 flyers	National	receipts	1000 funds,	365 050 000 1		
				300 public announcement slots on radio	National/Sub-national	receipts	300 funds,	104 300 000 1		
				20 publications on the print media	National/Sub-national	receipts, print out	Target 20 funds,	14 900 000 1		
				1 international and 1 local Consultant	National	# of consultants	Target 2 funds,	189 042 000 1		
				Review integrated waste management Policy and Strategy	national consultant 40 days			23 520 000 1		
				EPA-SI amended act of 2008	National/ Sub-national	# of Meeting reports	Target 10 funds,	1 721 600 000 1		
Develop a comprehensive waste management policy, regulations, plan and guidelines to include emerging waste streams like electronic, chemical wastes and nano-technologies.	EPA			5 meetings for presentation of drafts (5regions*80pxs*3days)	National/Sub-national	# of Meeting reports	Target 5 funds,	658 300 000 1		
				1 validation meetings (1*100pxs*1day)	National	meeting reports	Target 1 funds,	102 900 000 1		
				Disseminate through 20 workshops/community engagements (20 workshops*60pxs*1day)	National/Sub-national	# of reports	Target 20 funds,	730 450 000 1		
				20hrs television discussions	National/Sub-national	Recorded discussions	Target 20 funds,	14 900 000 1		

Objective	To develop, legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.						Year of implementation	
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges
Develop a comprehensive waste management policy/regulations, plan and guidelines to include emerging waste streams like electronic, chemical wastes and nano-technologies.	EPA	20 radio discussions Development of 1 Jingles 1000 flyers 300 public announcement slots on radio 20 publications on the print media Training (16 districts - 3days*80pxs)	National/Sub-national National National National/National	copy of jingle, flyer receipts receipts print	Target 20 funds, Target 1 funds, 1000 funds, 300 funds,	14 900 000 1 40 975 000 1 365 050 000 1 104 300 000 1	14 900 000 1 40 975 000 1 365 050 000 1 104 300 000 1	
Develop/adopt chemical standards in air, water, waste water, sediment/ sludge, plant and human specimen, soil, exhaust fumes and products	EPA	Gazatted adopted chemical standards for waste water effluent and air National technical committees for air, water, soil and noise exists	National	Workshop of air TWG to establish national air chemical standards (20pxs*3days) Workshop of water TWG to establish national water chemical standards (20pxs*3days)	Workshop report Target 1 funds, workshop report	54 290 000 1 54 290 000 1	54 290 000 1 54 290 000 1	
		Workshop of waste water TWG to establish national waste water chemical standards. (20pxs*3days)	National	workshop report	Target 1 funds,	54 290 000 1		

Objective	To develop, legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.						Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges
No							
	Develop/adopt chemical standards in air, water, waste water, sediment/ sludge, plant and human specimen, soil, exhaust fumes and products	EPA	Workshop of human specimen TWG to establish national human specimen chemical standards. (20pxs*3days)	National	workshop report	Target 1 funds,	54 290 000
			Workshop of plant specimen TWG to establish national human plant chemical standards. (20pxs*3days)	National	workshop report	Target 1 funds,	54 290 000
			Workshop of sediment/sludge TWG to establish national sediment/sludge chemical standards. (20pxs*3days)	National	workshop report	Target 1 funds,	54 290 000
			Workshop of soil TWG to establish national soil chemical standards. (20pxs*3days)	National	workshop report	Target 1 funds,	54 290 000
			Workshop of exhaust fumes TWG to establish national exhaust fumes chemical standards. (20pxs*3days)	National	workshop report	Target 1 funds,	54 290 000
			Support gazetting and printing	National	print	Target 1 funds,	37 250 000
			Workshop of product TWG to establish national products chemical standards	National	workshop report	Target 1 funds,	54 290 000
			Research report on common air pollutants from vehicular traffic	National	# of consultants	Target 2 funds,	279 888 000
	Develop and enact a National chemical standards regulations for all media	EPA	National consultant 3 months				35 280 000

Objective	To develop, legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)	
		Develop and enact a National chemical standards regulations for all media	EPA	2 stakeholder meetings (Consultations, presentation of draft), (2meetings*80px*3days)	National	# of Meeting reports	Target 2 funds,	167 310 000	1 1	2018
				1 validation meetings (1*80px*1day)	National	meeting report	Target 1 funds,	69 660 000	1 1	2019
				Pre-legislation meeting with Parliamentarians, 150px*2days*1workshop)	National	# of Meeting reports	Target 1 funds,	239 650 000	1 1	2020
				Disseminate through 20 workshops/community engagements (20workshops*60px*1day)	National/Sub-national	meeting reports	Target 20 funds,	730 450 000	1 1	2021
				20hrs television discussions and 20 radio discussions	National/Sub-national	Recorded discussions	Target 20 funds,	14 900 000	1 1	2022
				Development of 1 Jingles	National	copy of jingle, flyer	Target 1 funds,	14 900 000	1 1	
				1000 flyers	National	copy of flyer	1000 funds,	40 975 000	1 1	
				300 public announcement slots on radio	National/Sub-national	receipts	Target 300 funds,	365 050 000	1 1	
				20 publications on the print media	National/Sub-national	receipts	Target 20 funds	104 300 000	1 1	
				Hiring 1 international and 1 local legal draft consultants	National	# of consultants	Target 2 funds,	279 888 000	1	
				National consultant 3 months			Target 1	35 280 000	1	
				2 stakeholder meetings (Consultations, presentation of draft), (2meetings*80px*3days)	National	# of Meeting reports	Target 2 funds,	283 570 000	1	
		Enactment of Vehicle maintenance regulation	EPA	1 validation meetings (1*80px*1day)	National	# of Meeting reports	Target 1 funds,	98 960 000	1	

Objective	To develop, legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.						Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)
No								
Enactment of Vehicle maintenance regulation	EPA	Pre-legislation meeting with Parliamentarians. 150px*2days*1workshop)	National	# of Meeting reports	Target 1 funds,	239 650 000	1	2018
		Disseminate through 20 workshops/community engagements (20workshops*60pxs*1day)	National/Sub-national	meeting reports	Target 20 funds,	730 450 000	1	2019
		20hrs television discussions	National/Sub-national	Recorded discussions	Target 20 funds,	14 900 000	1	2020
		20 radio discussions	National/Sub-national	Recorded discussions	Target 20 funds,	14 900 000	1	2021
		Development of 1 Jingles	National	copy of jingle, flyer	Target 1 funds,	40 975 000	1	2022
		1000 flyers	National	copy of flyer	1000 funds,	365 050 000	1	
		300 public announcement slots on radio	National/Sub-national	receipts	300 funds,	104 300 000	1	
		20 publications on the print media	National/Sub-national	receipts	Target 20 funds,	279 888 000	1	
		Hiring 1 international and 1 local legal draft consultants	National	# of consultants	Target 2 funds,	279 888 000	1	
		National consultant 3 months				35 280 000		
Enactment of electronic waste management regulation	EPA-SI amended act of 2008	2 stakeholder meetings (Consultations, presentation of draft) (2meetings*80pxs 3days)	National	# of Meeting reports	Target 1 funds,	283 570 000	1	2018
		1 validation meetings (1*80pxs*1day)		# of Meeting reports	Target 1 funds,	98 960 000	1	2019
		Pre-legislation meeting with Parliamentarians. 150px*2days*1workshop)	National	# of Meeting reports	Target 20 funds,	239 650 000	1	2020

Objective	To develop, legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)	
Enactment of electronic waste management regulation	EPA			Disseminate through 20 workshops/community engagements (20workshops*60pxs*1day)	National	meeting reports	Target 20 funds,	730 450 000	1	2018
				20hrs television discussions	National/Sub-national	Recorded discussions	Target 20 funds,	14 900 000	1	2019
				20 radio discussions	National/Sub-national	Recorded discussions	Target 20 funds,	14 900 000	1	2020
				Development of 1 Jingles	National	copy of jingle, flyer	Target 1 funds,	40 975 000	1	2021
				1000 flyers	National	copy of flyer	1000 funds,	365 050 000	1	2022
				300 public announcement slots on radio	National/Sub-national	receipts	300 funds,	104 300 000	1	
				20 publications on the print media	National	receipts	Target 20 funds,	279 888 000	1	
				Public Order Act, 1960	Hiring 1 international and 1 local legal draft consultants	National	# of consultants	279 888 000	1	
				2 stakeholder meetings (Consultations, presentation of draft), (2meetings*80pxs*3days)	National	# of Meeting reports	Target 2 funds,	35 280 000	1	
				1 validation meetings (1*80pxs*1day)	National	# of Meeting reports	Target 1 funds,	283 570 000	1	
Enactment of food waste management regulation	EPA			Pre-legislation meeting with Parliamentarians, 150pxs*2days*1workshop)	National	# of Meeting reports	Target 1 funds,	98 960 000	1	
				Disseminate through 10 workshops/community engagements (10workshops*60pxs*1day)	National	meeting reports	Target 10 funds,	239 650 000	1	
				20hrs television discussions	National/Sub-national	Recorded discussions	Target 20 funds,	730 450 000	1	

Objective	To develop, legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.						Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)	
Enactment of food waste management regulation	EPA			20 radio discussions	National/Sub-national	Recorded discussions	Target 20 funds,	14 900 000	1 1	2022
				Development of 1 Jingles	National	copy of jingle, flyer	Target 20 funds,	14 900 000	1 1	2021
				1000 flyers			Target 1 funds,	40 975 000	1 1	2020
				300 public announcement slots on radio	National/Sub-national	receipts	300 funds,	365 050 000	1 1	2019
				20 publications on the print media	National/Sub-national	receipts	Target 20 funds,	104 300 000	1 1	2018
				Hiring 1 international and 1 local legal draft consultants	National	# of consultants	Target 2 funds,	279 888 000	1 1	
				2 stakeholder meetings (Consultations, presentation of draft), (2meetings*80px*3days)	National	# of Meeting reports	Target 2 funds,	35 280 000	1 1	
				1 validation meetings (1*80px*3day)	National	# of Meeting reports	Target 1 funds,	283 570 000	1 1	
				Pre-legislation meeting with Parliamentarians. 150px*2days*1workshop)	National	# of Meeting reports	Target 1 funds,	98 960 000	1 1	
				Disseminate through 20 workshops/community engagements (20workshops*60px*1day)	National	meeting reports	Target 20 funds,	239 650 000	1 1	
Enactment of health care waste management regulation	EPA			20hrs television discussions	National/Sub-national	Recorded discussions	Target 20 funds,	730 450 000	1 1	2022
				20 radio discussions	National/Sub-national	Recorded discussions	Target 20 funds,	14 900 000	1 1	2021
				Development of 1 Jingles	National	copy of jingle	Target 1 funds,	14 900 000	1 1	2020

Objective	To develop, legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.						Year of implementation	
	Summary of Planned Activities at National Level (Strategic actions)	Responsible authority(s) for implementation including budget line holder	Related existing plan/ framework / Program or ongoing activities	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitoring and Evaluation)	Targets and Comments or Potential challenges	Estimated cost (Local currency)
No								
Enactment of health care waste management regulation	EPA	1000 flyers	National	copy of flyer	1000 funds,	40 975 000	1 1	2018
	300 public announcement slots on radio	National	receipts	300 funds,	365 050 000	1 1		2019
	20 publications on the print media	National	receipts	Target 20 funds,	104 300 000	1 1		2020
	Support Chemical management organizational structures and facilities	Procure 2 vehicles (Toyota Land Cruisers) for sample collection and management structures	National	# of vehicles	Target 2 funds,	705 600 000	1 1	2021
								2022
Technical Area	RE.1	JEE Scores 2						Year of implementation
JEE Indicator		1. Advocate for an increase in the number of human resources to meet the needs for radiation safety. 2. Improve laboratory capacity for the detection and response to all radiological and nuclear emergencies. 3. Incorporate responding to chemical and radiological emergencies in the draft public health incident and emergency response plan. 4. Allocate sufficient budget to meet demand in the event of a radiation emergency. 5. Conduct simulation exercises on the appropriate response to radiation emergencies.						
Objective	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and potential challenges Monitoring and Evaluation)	Targets	Comments or Potential challenges	Estimated cost (Local currency)		
No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)						
	Procure 3 portable water monitoring equipment	National	# of specialized water monitoring stations procure	3	funds,	217 193	1 1	2018
	Procure 3 portable equipment for realtime monitoring of radiation in Soil and sediment	National	# of portable real time monitoring equipment for radiation in soil procure	5	funds,	8 334 900	1 1	2019
	Procure 3 portable equipment for realtime monitoring of radiation in Products	National	# of portable real time monitoring equipment for radiation in product procure	3	funds,	8 820 000	1 1	2020
								2021
								2022

Objective	Detailed activities (input description for costing)					Year of implementation			
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and potential challenges Monitoring and Evaluation)				
		Procure 1000 TLD (thermoluminescence Dosimeter badges) portable equipment for realtime monitoring of radiation in human specimens ASK IAEA VIENNA	National	# of portable real time monitoring equipment for radiation in human specimen procure	1000	funds,	1 241 666 667	1 1 1	2022
		Procure 3 TLD readers HALSHAW		# TLD readers	3	funds,	74 500 000	1 1 1	2021
		2 Training of scientific and technician personnel 2 people for 3 months abroad	National	# of training for scientific and technician	2	funds,	226 380 000	1	2020
		2 Training of 2 technician personnel on the maintenance and repairs of specialized radiation equipment .2people trained for 3 months ABROAD	National	# of training technicians on maintenance and repair of specialised testing kits	2	funds,	226 380 000	1 1	2019
		Procurement of 5 laptop for radiation data input and processing	National	# of laptops procure for radiation data input.	5	funds,	86 916 667	1 1 1	2018
		Procure and install a regulatory authority information system (RAIS) software the new version	National	# of regulatory authority information system	1	funds,	745 000 000	1 1 1 1	
		Training meetings for legal professionals on radiation prosecutions 2 trainings ABROAD 1 MONTH	National	# Training meeting held for legal professionals on radiation prosecution	2	funds,	85 260 000	1	
		Hiring of 3 International and 3 national consultants for 2 months	National	# of international and national consultants hired	3 international and 3 national consultants hired	funds,	189 042 000	1 1	
		3 national consultants		number of workshop held to launch radiation program	1 workshop held to launched radiation program	funds,	23 520 000	1 1	
		1 Workshop to launch the radiation program (100participants 1)	National	1. number of stakeholder engagement Meeting to draft radiation reponse plan	1. 2 stakeholder engagement meeting to draft radiation response plan for 5 regions	funds,	54 000 000	1 1	
		2 Stakeholder engagements (Consultations, presentation of draft validation) at 5 regions. (2-6participants 3days*5)	National	validate radiation response plan	radiation response plan validated	funds,	692 700 000	1	
		1 validation meetings (1-80participants*1day)	National			funds,	50 060 000	1 1 1	

Objective	Detailed activities (input description for costing)			Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and Potential challenges Monitoring and Evaluation)	Targets	Comments or Potential challenges	Estimated cost (Local currency)	Year of implementation
	No	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (input description for costing)						
		Promote programmes to develop radiation-management instruments (national profiles, national implementation plans, national emergency preparedness and response plans).	Training of stakeholders on respons plan (180participants*1	National	number of stakeholder Training on response plan	1 stakeholder training on response olan	funds,	50 060 000	2018
			1 Simulation annually for emergency preparedness and response plans. Meeting 80 p 1 daz.	National	number of emergency response Simulation exercise	1 emergency response Simulation exercise conducted	funds,	50 060 000	2019
			Procurement of a server for Radiation Information Exchange	National	# of server	1	funds,	45 000 000	2020
			Support Radiation networking of key stakeholders (MAF, EPA, Trade, MoHS, NRA, NSRPA, ONS) Hire 1 staff to do this	National	# of networking meetings	3	funds,	186 250 000	2021
			Training of stakeholders on computerised radiation data sharing and compliance rating. (13days*30pxs)	National	number of training for stakeholder on computerised radiation	1 training for stakeholder on computerised radiation	funds,	32 885 000	2022
			Develop reporting tools to assist industry to provide simplified radiation information to Government and individual users. Consultant national + consultant national	National	# of meeting held to develop reporting tools to assist in simplified radiation information	3 meeting held to develop reporting tools to assist in simplified radiation information	funds,	52 773 000	
			National consultant for 10 days		# of national quarterly TWG meeting on radiation management held	12 TWG meetings on radiation management held	funds,	5 880 000	
			Support quarterly national meetings TWG on radiation management for period of 3yrs. (12meetings*20pxs)	National	# of international and national consultants hire to develop risk assessment framework	1 international and 1 national consultant hired	funds,	181 200 000	
			Hiring of 1 International and 1 national consultants for 2 months	National			funds,	189 042 000	
			National consultant for 10 days				funds,	23 520 000	
		Develop Risk assessment and management framework for Radiation management	2 Stakeholder engagements (Consultations, presentation of draft, validation) at 5 regions. (2*60pxs*3days*5)	National	1.number of stakeholder meetings held to develop radiation risk assessment framework 2. draft Risk assessment framework	2 stake holder meetings held to develop radiation risk assessment framework 2. radiation risk assessment framework drafted	funds,	895 200 000	

Objective	Detailed activities (input description for costing)					Year of implementation
	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and potential challenges Monitoring and Evaluation)	Targets	
	Develop Risk assessment and management framework for Radiation management	1 validation meetings (180pxs*1day) Training of Technical Staff on framework implementation. (140pxs*5regions)	National National	validate radiation risk assessment framework number of training for technical staff on framework implementation	radiation risk assessment framework validated 1 training meeting held in each regions for 5 regions	funds, funds,
	Radiation Incidence Surveillance guideline developed interna cons	National	Guideline develop	# of international and national consultants to develop radiation communication framework	guideline developed	funds, 1 international and 1 national consultantshire to develop radiation communication framework
	Hiring of 1 International and 1 national consultants for 2 months	National				23 520 000 1
	2 Stakeholder engagements (Consultations, presentation of draft, validation) at 5 regions. (260pxs*3days*5)	National	# of stakeholder engagement meeting to develop communication framework	2 stakeholder meeting held and report available		1 097 700 000 1
	1 validation meetings (180pxs*1day)	National	validate communication framework	communication framework validated		50 000 000 1
	Develop communication framework for radiation managemen	National	Training of technical staff on communication framework implementation	1 training meeting held in each regions for 5 regions		570 900 000 1
	Training of Technical Staff on framework implementation. (140pxs*5regions)					

JEE Indicator		RE.2		Year of Implementation				
JEE recommendations	Objective	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and potential challenges Monitoring and Evaluation)	Targets	Comments or Potential challenges	Estimated cost (Local currency)
	No	1 Pre-legislation meeting with Parliamentarians Disseminate through 10 workshops/ community engagements (10workshops 60pxs*1day)	National	Meeting reports	# of workshop conducted	1meeting parliamentarians	funds,	17 640 000 1
		20hrs television discussions	National	number of Recorded discussions	20hrs recorded discussion	funds,	461 200 000 1	
		20 radio discussions	National	Recorded discussions	20 hour radio discussions	funds,	31 662 500 1	
		Development of 1 Jingles 1000 flyers	National	copy of jingle copy of flyer	1 gingle developed 1000 flyers printed	funds,	31 662 500 1	
		300 public announcement slots on radio	National	number of public announcement slots on the radio	300 public announcement slots hired on the radio	funds,	14 900 000 1	
		20 publications on the print media	National	number of publication on print media	20 publication printed	funds,	182 525 000 1	
		1 Pre-legislation meeting with Parliamentarians Disseminate through 10 workshops/ community engagements (10workshops 60pxs*1day)	National	meeting report on pre legislation with parliamentarians	meeting on pre legislation with parliamentarians held	funds,	100 575 000 1	
		20hrs television discussions	National	# of workshop conducted to disseminate regulation	10 work shop conducted	funds,	29 800 000 1	
		20 radio discussions	National	number of television discussions recorded	20hrs television discussion recorded	funds,	17 640 000 1	
		Development of 1 Jingles 1000 flyers	National	number of radio discussions heard receipts for developing jingles	20 radio discussions heard jingles available	funds,	461 200 000 1	
		300 public announcement slots on radio	National	number of flyer develop number of public announcement slots on the radio	1000 flyers printed 300 announcement hired over the radio	funds,	31 662 500 1	
							14 900 000 1	
							182 525 000 1	
							100 575 000 1	

Objective	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and potential challenges Monitoring and Evaluation)		Comments or Potential Challenges	Estimated cost (Local currency)	Year of implementation
				Targets	Targets			
Develop a comprehensive Radioactive waste management policy, regulations, plan and guidelines				number of publication print out	20 publication printed	funds,	29 800 000	1
				# of internationa and national consultant to develop policy and guidelines	1 international and 1 national consultant hired	funds,	52 773 000	1
				national cons 2 weeks			5 880 000	1
				10 consultative meetings (10meetings*80pxs*3days)	# of consultative held	10 consultative meetings held	100 860 000	1
				5 meetings for presentation of draft's policy regulatin and framework (5regions*80pxs*3days)	# of Meeting for the help to develop the draft policy.	5 meetings to be held	504 300 000	1
				1 validation meetings (1*80pxs*1day)	National	validation meeting reports	one validationmeeting report	1
				1 Pre-legilation meeting with Parliamentarians	National	meeting report	one pre legislation meeting with Parliament	1
				Disseminate through 10 workshops/ community engagements (10workshops*60pxs*1day)	National	# of workshop conducted for dissemination	10 workshops	461 200 000
				20hrs television discussions	National	# of hourly Recorded TV discussions	20 hour radio discussions	31 662 500
				20 radio discussions	National	copy of jingle, flyer	20 radio discussions	31 662 500
				Development of 1 Jingles	National	1 radio jingle developed	1 radion jingle	14 900 000
				1000 flyers	National	# of flyers	1000 flyers printed	182 525 000
				300 public announcement slots on radio	National	# radio announcement slots	300 public announcements slots hired on the radio	100 575 000
				20 publications on the print media	National	# of publications in the print media	20 publications in the print media	29 800 000
				Training (16 districts*3days*80pxs)	National	Training Report	16 trainings conducted (one per district) per year	1 613 760 000

Objective	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and Potential challenges Monitoring and Evaluation)	Targets	Comments or Potential challenges	Year of implementation				
							2018	2019	2020	2021	2022
		Construct and equip 5 radiation waste containment centers	National	# of radiation waste containment centers constructed	5 radiation waste containers constructed	funds,	2 500 000	1	1	1	1
		Workshop of air TWG to establish national air radiation standards (20pxs*3days) plus int consultant	National	# of workshops to develop air radiation standards	1	funds,	40 515 000	1	1		
		International consultant 10 days					52 773 000	1	1		
		Workshop of water TWG to establish national water radiation standards (20pxs*3days)	National	# of workshops to develop water radiation standards	1	funds,	40 515 000	1	1		
		Workshop of human specimen TWG to establish national human specimen radiation standards. (20pxs*3days)	National	# of workshops to establish human specimen radiation standards	1	funds,	40 515 000	1	1		
		Workshop of plant specimen TWG to establish national plant radiation standards. (20pxs*3days)	National	workshop report	1	funds,	40 515 000	1	1		
		Workshop of sediment/sludge TWG to establish national sediment/sludge radiation standards. (20pxs*3days)	National	workshop report	1	funds,	40 515 000	1	1		
		Workshop of soil TWG to establish national soil radiation standards. (20pxs*3days)	National	workshop report	1	funds,	40 515 000	1	1		
		Workshop of product TWG to establish national products radiation standards	National	workshop report	1	funds,	40 515 000	1	1		
		Hiring 1 international and 1 local legal draft consultants 10 days national cons 2 weeks	National	# of consultants	2 consultants hired one internation and one local	funds,	52 773 000	1	1		
		2 stakeholder meetings (Consultations, presentation of draft, validation of draft). (2meetings*80pxs*3days)	National	# of Meeting reports	2 preparatory meetings to validate the national Radiation Standards	funds,	5 880 000	1	1		
		1 validation meetings (1*80pxs*1day)	National	meeting report	1 validation meeting	funds,	201 720 000	1	1		
		Develop and enact a National radiation standards regulations for all media					50 060 000	1	1		

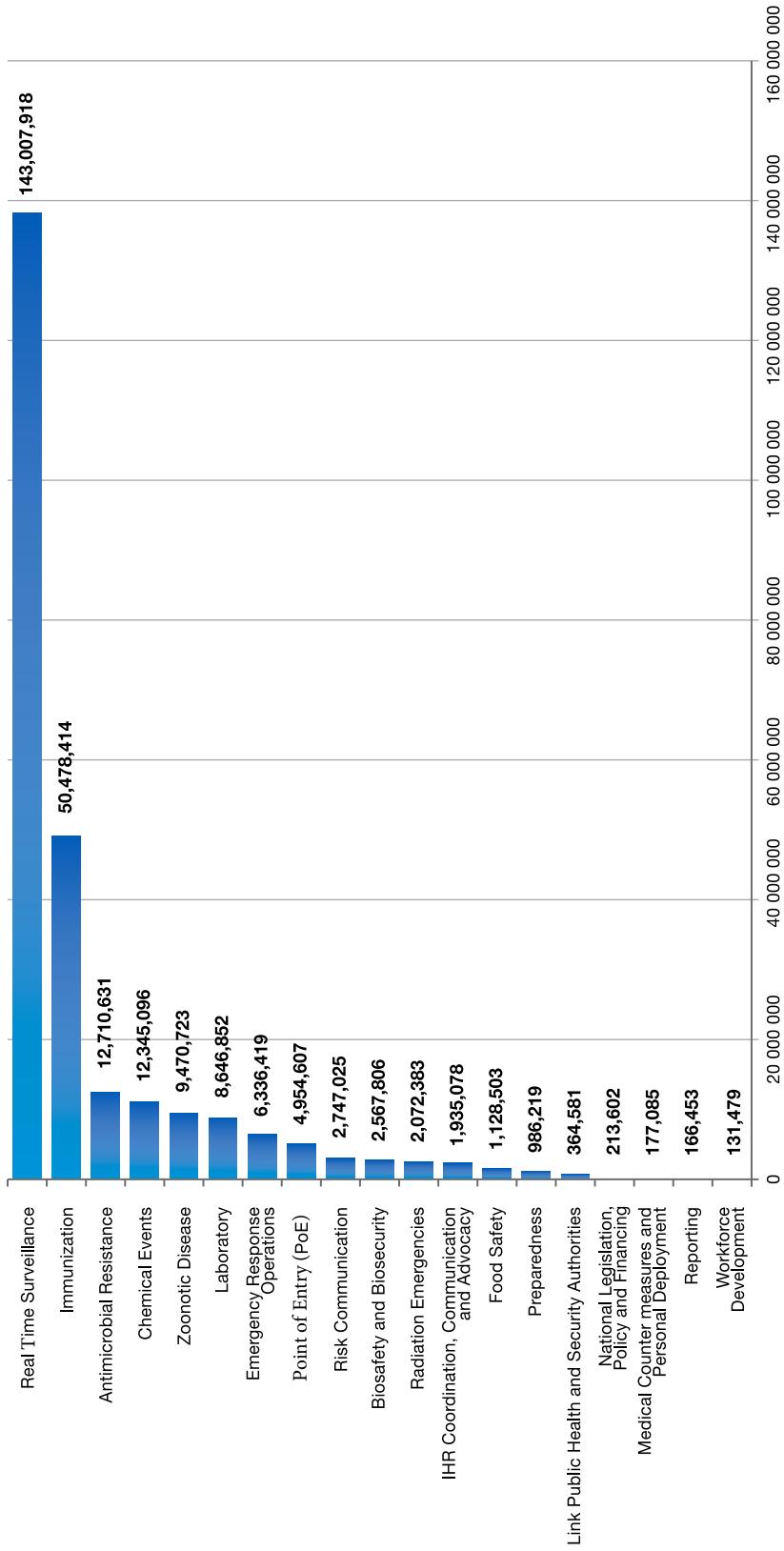
Objective	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output indicators (Monitor Targets and Potential challenges Monitoring and Evaluation)	Targets	Comments or Potential challenges	Estimated cost (Local currency)	Year of implementation			
								2018	2019	2020	2021
		Pre-legislation meeting with Parliamentarians	National	# of prelegislation meeting with parliamentarians	2 meetings	funds,	17 640 000	1	1	1	
		Disseminate through 10 workshops/ community engagements (10workshops*60pxs*1day)	National	# of workshop / community engagements	10 engagement workshops	funds,	461 200 000	1	1	1	
	Develop and enact a National radiation standards regulations for all media	20hrs television discussions and 20 radio discussions	National	# of TV and radio Recorded hours of discussions	20 TV and 20 Radio hour discussions	funds,	31 662 500	1	1	1	
		Development of 1 Jingles	National	copy of jingle, flyer	1 jingle developed	funds,	31 662 500	1	1	1	
		1000 flyers	National	# of flyer	1000 flyers printed	funds,	14 900 000	1	1	1	
		300 public announcement slots on radio	National	# of public announcement slots on radio	300 announcement hired over the radio	funds,	182 525 000	1	1	1	
		20 publications on the print media	National	# of publications in the print media	20 publications in the print media	funds,	100 575 000	1	1	1	
		Hiring 1 international and 1 local legal draft consultants for 3 months	National	# of consultants	2 consultants hired one internationa and one local	funds,	279 888 000	1	1	1	
		national cons 2 weeks					35 280 000	1	1	1	
		2 stakeholder meetings (Consultations, presentation of draft validation of draft), (2meetings*80pxs*3days)	National	# of Meeting reports	2 preparatory meetings to validate the national Radiation standards	funds,	100 860 000	1	1	1	
		1 validation meetings (180pxs*1day)	National	# of Meeting reports	1 validation meeting	funds,	50 060 000	1	1	1	
		Pre-legislation meeting with Parliamentarians	National	# of Meeting reports		funds,	17 640 000	1	1	1	
		Disseminate through 10 workshops/ community engagements (10workshops*60pxs*1day)	National	meeting reports	10 engagement workshops	funds,	461 200 000	1	1	1	
		20hrs television discussions and 20 radio discussions	National	# of TV and radio Recorded hours of discussions	20 TV and 20 Radio hour discussions	funds,	31 662 500	1	1	1	
		Development of 1 Jingles	National	copy of jingle, flyer	1 jingle developed	funds,	31 662 500	1	1	1	
		1000 flyers	National	# of flyers	1000 flyers printed	funds,	14 900 000	1	1	1	

Objective	Summary of Planned Activities at National Level (Strategic actions)	Detailed activities (Input description for costing)	Where is the action to be implemented (National or sub-national)	Output Indicators (Monitor Targets and potential challenges Monitoring and Evaluation)		Comments or Potential challenges	Estimated cost (Local currency)	Year of implementation
				Targets				
		300 public announcement slots on radio	National	# of public announcement slots on radio	300 announcement hired over the radio	funds,	182 525 000	1 1 1
		20 publications on the print media	National	# of publications in the print media	20 publications in the print media	funds,	100 575 000	1 1 1
		Hiring 1 international and 1 local legal draft consultants 5 days national cons 5 days	National	# of Consultants	2 consultants hired one internationa and one local	funds,	30 061 500	1 1 1
		2 stakeholder meetings (Consultations, presentation of draft, validation of draft). (2meetings*80pxs*3days)	National	# of Meeting reports	2 preparatory meetings to validate the national Radiation standards	funds,	100 860 000	1 1 1
		1 validation meetings (1*80pxs*1day)	National	# of Meeting reports	1 validation meeting	funds,	50 060 000	1 1 1
		Pre-legislation meeting with Parliamentarians	National	# of Meeting reports	2 meetings	funds,	17 640 000	1 1 1
		Disseminate through 10 workshops/ community engagements (10workshops*60pxs*1day)	National	meeting reports	10 engagement workshops	funds,	461 200 000	1 1 1
		20 hrs television discussions	National	# of radio discussions	20 radio discussions	funds,	31 662 500	1 1 1
		Development of 1 Jingles	National and sub national	# of hours of TV discussions copy of jingle, flyer	20 TV hour discussions 1 jingle developed	funds,	31 662 500	1 1 1
		1000 flyers		# of flyers	1000 flyers printed	funds,	14 900 000	1 1 1
		300 public announcement slots on radio	National	# of public announcement slots on radio	300 announcement hired over the radio	funds,	182 525 000	1 1 1
		20 publications on the print media	National	# of publications in the print media	20 publications in the print media	funds,	100 575 000	1 1 1
		Procure 2 vehicles for sample structures	National	# of vehicles procured	2 vehicles procured	funds,	8 000	1 1 1
		Support Radiation management organizational structures and facilities					676 200 000	1
		Enactment of radiation waste management regulation						
		2022						
		2021						
		2020						
		2019						
		2018						

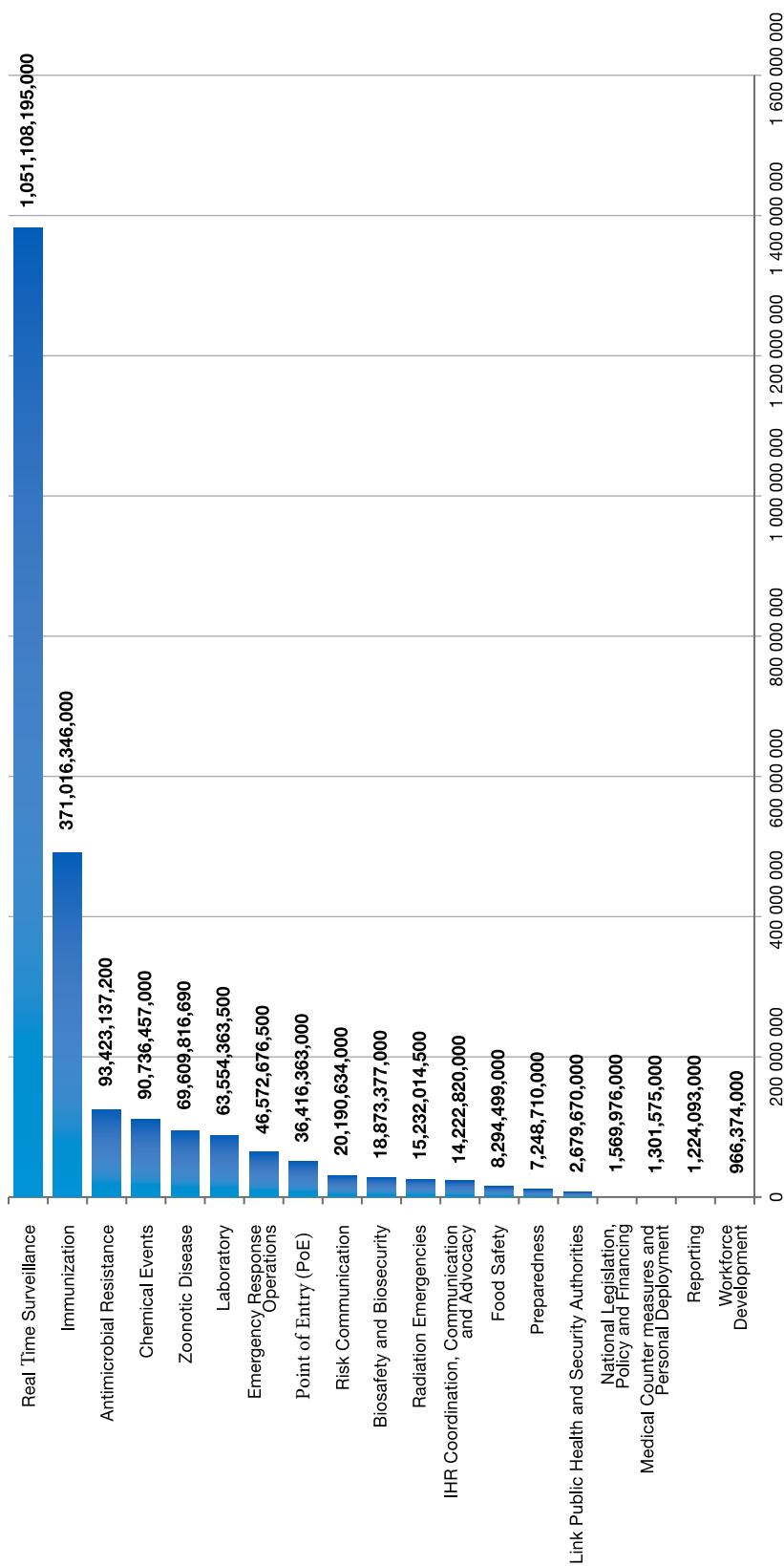
NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS) COSTING, SIERRA LEONE

	Technical Area	2018	2019	2020	2021	2022	TOTAL	USD
1	National Legislation, Policy and Financing	932 038 000	637 938 000	-	-	-	1 569 976 000	210 735
2	IHR Coordination, Communication and Advocacy	8 619 065 000	1 518 485 000	1 518 485 000	1 756 050 000	2 039 985 000	15 452 070 000	2 074 103
3	Antimicrobial Resistance	18 329 707 000	22 665 266 200	20 505 409 000	19 869 850 000	20 007 905 000	101 438 137 200	13 615 857
4	Zoonotic Disease	20 845 540 138	15 586 729 138	17 053 729 138	18 520 729 138	29 865 089 138	101 871 816 690	13 674 069
5	Food Safety	2 478 914 000	11 162 701 000	3 379 641 000	2 877 266 000	829 346 000	20 727 868 000	2 782 264
6	Biosafety and Biosecurity	5 051 512 000	4 611 325 000	4 362 615 000	3 792 385 000	3 855 540 000	21 673 377 000	2 909 178
7	Immunization	105 089 901 965	65 968 882 965	82 779 663 040	66 700 368 040	82 779 663 040	403 318 479 050	54 136 709
8	National Laboratory System	15 832 022 500	28 016 551 000	18 473 235 000	12 459 8 3 000	14 056 242 000	88 092 863 500	11 824 545
9	Real Time Surveillance	226 975 881 000	207 774 662 000	208 855 570 000	203 265 492 000	208 855 570 000	1 055 727 195 000	141 708 348
10	Reporting	735 629 000	177 740 000	177 740 000	178 744 000	177 740 000	1 447 593 000	194 308
11	Workforce Development	3 060 394 000	2 724 740 000	2 708 096 667	2 708 096 667	2 708 096 667	13 909 424 001	1 867 037
12	Preparedness	2 186 790 000	1 265 480 000	1 265 480 000	1 265 480 000	1 265 480 000	7 248 710 000	972 981
13	Emergency Response Operations	19 633 632 500	7 159 208 000	7 146 708 000	7 146 708 000	5 486 420 000	46 572 676 500	6 251 366
14	Linking Public Health and Security Authorities	6 14 330 000	590 060 000	491 760 000	491 760 000	491 760 000	2 679 670 000	359 687
15	Medical Countermeasures and Personnel Deployment	67 920 000	384 775 000	713 040 000	67 920 000	67 920 000	1 301 575 000	174 708
16	Risk Communication	5 684 588 000	1 917 610 000	5 950 408 000	1 936 235 000	5 592 068 000	21 080 909 000	2 829 652
17	Points of Entry	8 978 513 000	1 3 764 430 000	10 727 715 000	6 565 715 000	6 241 715 000	46 278 088 000	6 211 824
18	Chemical Events	89 742 232 000	71 979 143 000	13 552 172 000	2 769 530 000	68 905 000	178 141 982 000	23 911 675
19	Radiation emergencies	16 873 850 077	14 494 670 077	7 052 819 877	983 588 950	983 588 950	40 388 517 930	5 421 278
TOTAL (Leones)		551 732 460 179	472 400 416 379	406 804 286 721	353 355 730 795	385 373 033 795	2 168 920 927 870	291 130 326
Total in USD		74 053 048	63 409 452	54 604 602	47 430 299	51 727 924	291 130 326	

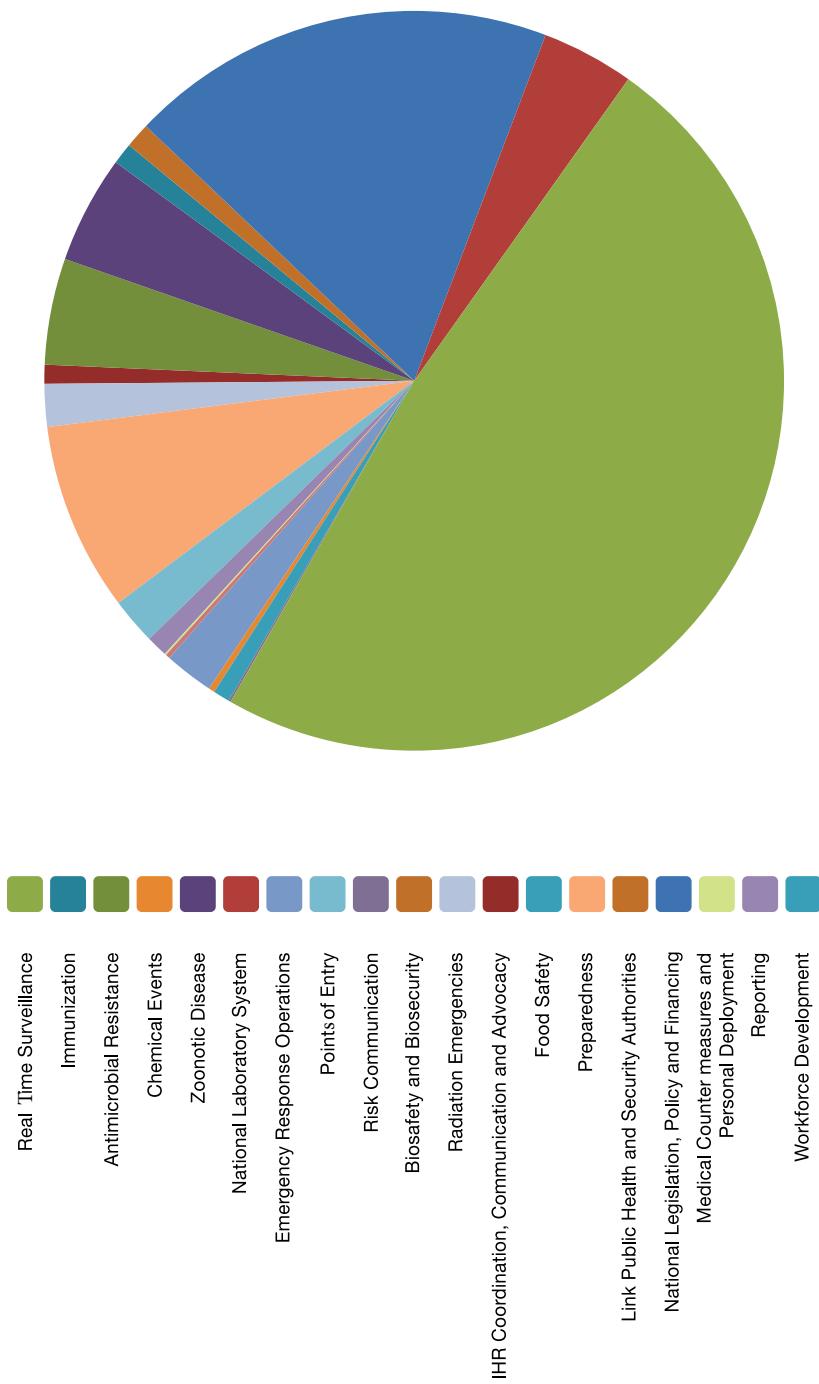
NAPHS Costing by technical Area In USD



NAPHS Costing by technical Area In Leones



Total costs over 5 Years SSL



Prioritization of Activities

Group	Technical Area	Objective	Summary Activity	Total score	Associated Costed of priority activities	Associated Costed of priority activities
1	IHR Coordination Communication and Advocacy	To strengthen IHR NFP for effective coordination, communication and advocacy for IHR implementation	Develop guidelines and Standard Operating Procedures (SOPs) for IHR NFP	9	SLL 73 185 000.00	\$9 529.30
1	IHR Coordination Communication and Advocacy	To strengthen IHR NFP for effective coordination, communication and advocacy for IHR implementation	Build the capacity of IHR NFP in areas of coordination, communication and advocacy	9	SLL 210 655 000.00	\$27 429.04
1	IHR Coordination Communication and Advocacy	To strengthen IHR NFP for effective coordination, communication and advocacy for IHR implementation	Develop and sustain a mechanism for intersectoral collaboration	10	SLL 140 460 000.00	\$18 289.06
	IHR Coordination Communication and Advocacy	To strengthen IHR NFP for effective coordination, communication and advocacy for IHR implementation	Regular intersectoral coordination meetings	10	SLL 1 921 400 000.00	\$250 182.29
	IHR Coordination Communication and Advocacy	To strengthen IHR NFP for effective coordination, communication and advocacy for IHR implementation	Logistics support for effective functioning of IHR NFP	10	SLL 4 794 300 000.00	\$624 257.81
1	National Legislation, Policy and Financing	To ensure adequate statutory and administrative provisions for the implementation of IHR by December 2018	Develop or review the administrative and statutory instruments to make them compliant with IHR 2005	7	SLL 538 800 000.00	\$70 156.25
	National Legislation, Policy and Financing	To adjust and align legislation, policies and administrative arrangements in compliance with IHR 2005 by end of 2018	Sensitize relevant stakeholders (MDAs, Parliamentarians, Partners etc) on the aligned documents	7	SLL 75 510.00	\$9.83
1	Immunization	To achieve and sustain at least 95% coverage of measles second dose coverage per year	Strengthen RED/REC strategy in all districts through training of health staff and community engagement	9	SLL 23 982 184 000.00	\$3 122 680.21
1	Immunization	To achieve and sustain at least 95% coverage of measles second dose coverage per year	Develop RED/REC plan in every health facility	9	SLL 22 469 888 000.00	\$2 925 766.67
2	Immunization	To achieve and sustain at least 95% coverage of measles second dose coverage per year	Conduct regular performance review of implementation of REC strategy	9	SLL 3 991 575 000.00	\$519 736.33
2	Immunization	To achieve and sustain at least 95% coverage of measles second dose coverage per year	Strengthen AEFI monitoring, reporting and investigation	9	SLL 33 269 528 000.00	\$4 331 969.79
2	Immunization	To strengthen the capacity of DHBMs for improved vaccine access and delivery	Monitoring and Evaluation of EPI activities	9	SLL 751 872 000.00	\$97 900.00
1	Immunization	To strengthen the capacity of DHBMs for improved vaccine access and delivery	Improve immunization through outreach services	9	SLL 8 945 700 000.00	\$1 164 804.69
2	AMR	To integrate AMR surveillance, prevention, and control into the NLSP and GHSA 5-year roadmap using One Health Approach	Integration of AMR plan into the NLSP	9	SLL 467 400 000.00	\$60 859.38

Group	Technical Area	Objective	Summary Activity	Total score	Associated Costed of priority activities	Associated Costed of priority activities
2	AMR	To strengthen HCAl surveillance and prevention programs	Review and update national HCAl plan	9	SLL 85 880 000.00	\$11 182.29
2	AMR	To strengthen HCAl surveillance and prevention programs	Establish surveillance system of HCAl in 25 government hospitals	9	SLL 1 487 362 200.00	\$193 666.95
2	AMR	To strengthen HCAl surveillance and prevention programs	Support, monitor and evaluate infection prevention and control programs in collaboration with National IPC Unit and stakeholders	9	SLL 4 677 250 000.00	\$609 016.93
2	AMR	To strengthen HCAl surveillance and prevention programs	Establish occupational health program for health workers	9	SLL 2 056 400 000.00	\$267 760.42
2	AMR	To strengthen HCAl surveillance and prevention programs	Strengthening National and community linkages/Partnership for IPC in human, animal, and agricultural sectors	9	SLL 374 000 000.00	\$48 697.92
2	AMR	To establish Antimicrobial stewardship programs to promote appropriate use of antibiotics	To review and update treatment guidelines to include appropriate antibiotic use	9	SLL 407 560 000.00	\$53 067.71
2	AMR	To establish Antimicrobial stewardship programs to promote appropriate use of antibiotics	To establish treatment and testing algorithm inclusive of antibiotic use	9	SLL 103 110 000.00	\$13 425.78
2	AMR	To establish Antimicrobial stewardship programs to promote appropriate use of antibiotics	Develop regulation for antibiotic use in animals, agriculture and fisheries	9	SLL 103 110 000.00	\$13 425.78
2	AMR	To establish Antimicrobial stewardship programs to promote appropriate use of antibiotics	Monitor prescription and consumption patterns in both human and animals	9	SLL 494 560 000.00	\$64 395.83
2	AMR	To establish Antimicrobial stewardship programs to promote appropriate use of antibiotics	Establish antimicrobial stewardship committees at health facilities level	9	SLL 137 010 000.00	\$17 839.84
2	AMR	To establish Antimicrobial stewardship programs to promote appropriate use of antibiotics	Update the National Medicines Policy to include use of antimicrobial agents	9	SLL 762 500 000.00	\$99 283.85
2	AMR	To Integrate AMR surveillance, prevention, and control into the NLSP and GHSA 5-year roadmap using One Health Approach	In collaboration with training institutions and research facilities, build capacity for detection of AMR at central and regional level (H)	9	SLL 2 579 155 000.00	\$335 827.47
2	AMR	To integrate AMR surveillance, prevention, and control into the NLSP and GHSA 5-year roadmap using One Health Approach	In collaboration with training institutions and research facilities, build capacity for detection of AMR at central and regional level (A-E)	8	SLL 3 290 272 000.00	\$428 420.83
2	AMR	Establish an AMR surveillance system	Develop a multi-sectoral national AMR surveillance system (H)	8	SLL 1 387 350 000.00	\$180 644.53
2	AMR	Establish an AMR surveillance system	Develop a multi-sectoral national AMR surveillance system (A-E)	7	SLL 670 765 392.00	\$87 339.24
2	Biosafety and BioSecurity	Establish and enact OneHealth legislation and regulations on biosafety and biosecurity	Establish integrated waste management protocol including decommissioning protocol for all biological agents and equipments.	9	SLL 243 235 000.00	\$31 671.22

Group	Technical Area	Objective	Summary Activity	Total score	Associated Costed of priority activities	Associated Costed of priority activities
2	Biosafety and BioSecurity	To develop infrastructure and human resource capacity to address biosafety and biosecurity issues nationwide.	Appoint and train OneHealth biosafety and biosecurity officers in all human, animal and environmental laboratories	9	SLL 1 614 827 000.00	\$210 263.93
2	Biosafety and BioSecurity	To develop infrastructure and human resource capacity to address biosafety and biosecurity issues nationwide.	Build OneHealth technical capacity for biosafety and biosecurity (at relevant laboratory sites)	9	SLL 323 280 000.00	\$42 093.75
2	Biosafety and BioSecurity	To develop infrastructure and human resource capacity to address biosafety and biosecurity issues nationwide.	Appoint and train OneHealth biosafety and biosecurity officers in all human, animal and environmental laboratories	8	SLL 1 614 827 000.00	\$210 263.93
2	Biosafety and BioSecurity	To develop infrastructure and human resource capacity to address biosafety and biosecurity issues nationwide.	Build OneHealth technical capacity for biosafety and biosecurity (at relevant laboratory sites)	8	SLL 323 280 000.00	\$42 093.75
2	Biosafety and BioSecurity	To develop infrastructure and human resource capacity to address biosafety and biosecurity issues nationwide.	Conduct biorisk assessment of laboratories and health care facilities/ inventories and implement any suggested upgrades	8	SLL 1 461 735 000.00	\$190 330.08
2	Biosafety and BioSecurity	Establish and enact OneHealth legislation and regulations on biosafety and biosecurity.	Establish national OneHealth biosafety committee including chair	7	SLL 84 510 000.00	\$11 003.91
2	Biosafety and BioSecurity	To develop infrastructure and human resource capacity to address biosafety and biosecurity issues nationwide.	Create linkages between human, animal and environmental health labs and establish collaboration on biorisk management	7	SLL 459 245 000.00	\$59 797.53
2	National Laboratory System	Laboratory testing for detection of priority diseases	Build the testing capacity for environmental health laboratories to test for water and food safety	9	SLL 1 640 492 000.00	\$213 605.73
2	National Laboratory System	Laboratory testing for detection of priority diseases	Improve the capacity for bacteriological testing culture and ASIs for Human health	9	SLL 655 425 000.00	\$85 341.80
2	National Laboratory System	Specimen referral and transport system	Establish a network of specimen transportation at all levels - national and international (H)	9	SLL 3 699 319 000.00	\$481 682.16
2	National Laboratory System	Specimen referral and transport system	Establish a tracking system for specimen referral and transportation (H)	9	SLL 102 930 000.00	\$13 402.34
2	National Laboratory System	Effective modern point of care and laboratory based diagnostics	Establish sustainable commodities supplies system (A)	9	SLL 37 795 000.00	\$4 921.22
2	National Laboratory System	Specimen referral and transport system	Establish a network of specimen transportation at all levels - national and international (A-E)	8	SLL 3 699 319 000.00	\$481 682.16
2	National Laboratory System	Effective modern point of care and laboratory based diagnostics	Establish a tracking system for specimen referral and transportation (A-E)	8	SLL 102 930 000.00	\$13 402.34
2	National Laboratory System	Effective modern point of care and laboratory based diagnostics	Establish sustainable commodities supplies system (H)	8	SLL 37 795 000.00	\$4 921.22
2	National Laboratory System	Effective modern point of care and laboratory based diagnostics	Establish sustainable commodities supplies system E	8	SLL 0.00	\$0.00

Group	Technical Area	Objective	Summary Activity	Total score	Associated Costed of priority activities	Associated Costed of priority activities
2	National Laboratory System	Laboratory testing for detection of priority diseases	Improve supply chain management	8	SLL 450 788 000.00	\$58 696.35
2	National Laboratory System	Laboratory testing for detection of priority diseases	Provide mentorship to human, animal and environmental laboratory personnel (A-E)	8	SLL 152 960 000.00	\$19 916.67
2	National Laboratory System	Laboratory testing for detection of priority diseases	Improve communication for timely reporting of laboratory results (H)	7	SLL 46 000 000.00	\$5 989.58
2	National Laboratory System	Laboratory testing for detection of priority diseases	Provide sustainable power supply to laboratories	7	SLL 35 280 000.00	\$4 593.75
2	National Laboratory System	Specimen referral and transport system	Establish a comprehensive integrated National policy, guidelines and SOPs on specimen management for human, animal, food and environmental samples (H)	7	SLL 380 205 000.00	\$49 505.86
3	Workforce Development	will be added later	Increase national workforce of epidemiologists	10	SLL 176 400 000.00	\$22 968.75
3	Real Time surveillance	Enhance the performance of the syndromic surveillance system and expertise by 2022	Establish mechanism for collaboration and coordination between human and animal health sector in the context of One Health	10	SLL 264 240 000.00	\$34 406.25
3	Reporting	By 2022, strengthen capacity to identify any potential PHEIC and report within 24 hours to WHO, FAO and OIE.	Develop a system of simulation exercise for reporting to WHO, FAO and OIE	10	SLL 55 700 000.00	\$7 252.60
3	Zoonotic Disease	Establish a multi-sectorial mechanism for coordinated response to outbreaks of zoonotic diseases by human, and animal sectors at national and district levels by 2022	Operationalize the One Health Platform	10	SLL 687 250 000.00	\$89 485.68
3	Zoonotic Disease	Establish a multi-sectorial mechanism for coordinated response to outbreaks of zoonotic diseases by human, and animal sectors at national and district levels by 2023	Develop and implement a guideline for multisectorial response to zoonosis	10	SLL 1 287 524 000.00	\$167 646.35
3	Workforce Development	will be added later	Establish a mechanism of complete ownership of FETP by the MOHS	9	SLL 5 811 000 000.00	\$756 640.63
3	Workforce Development	will be added later	Develop and implement a public health HRH strategy to include speciality areas in line with One Health approach	9	SLL 278 192 000.00	\$36 222.92
3	Real Time surveillance	Sustain the existing human surveillance systems and integrate animal and human health surveillance systems	Strengthen Community-based surveillance system in context of OneHealth	9	SLL 177 721 040 000.00	\$23 140 760.42
3	Real Time surveillance	Develop, integrate and maintain an interoperable, interconnected, electronic real-time reporting system, for public health and/or veterinary surveillance systems at all levels by 2022	Implement eIDSR at health facility level countrywide	9	SLL 6 623 802 000.00	\$862 474.22

Group	Technical Area	Objective	Summary Activity	Total score	Associated Costed of priority activities	Associated Costed of priority activities
3	Real Time surveillance	Develop, integrate and maintain an interoperable, interconnected, electronic real-time reporting system, for public health and/or veterinary surveillance systems at all levels by 2024	Build capacity for data analysis among human and animal health workers	7	SLL 4 332 672 000.00	\$564 150.00
3	Real Time surveillance	Strengthen capacity for data analysis at all levels by 2022	Improve ICT to support data analysis for surveillance at all levels	7	SLL 521 500 000.00	\$67 903.65
3	Reporting	Develop and establish protocols, processes, regulations and legislation governing reporting to be implemented by 2020.	"Strengthen the reporting capacity for priority zoonotic diseases"	7	SLL 48 000 000.00	\$6 250.00
3	Reporting	By 2022, strengthen capacity to identify any potential PHEIC and report within 24 hours to WHO, FAO and OIE.	Build technical capacity among the National IHR Focal Point and OIE teams.	8	SLL 42 744 000.00	\$5 565.63
3	Reporting	By 2022, strengthen capacity to identify any potential PHEIC and report within 24 hours to WHO, FAO and OIE.	Develop a legal framework for information sharing with neighboring countries	7	SLL 37 495 000.00	\$4 882.16
3	Reporting	Develop and establish protocols, processes, regulations and legislation governing reporting to be implemented by 2020.	Develop and implement national guidelines and SOPs for notification of PHEIC events and mechanisms for sharing information between key sectors	7	SLL 241 280 000.00	\$31 416.67
3	Reporting	By 2022, strengthen capacity to identify any potential PHEIC and report within 24 hours to WHO, FAO and OIE.	Operationalize the National IHR Focal point	7	SLL 134 910 000.00	\$17 566.41
3	Zoonotic Disease	Increase animal health workforce capacity at national level and in at least 80 percent of the districts by 2022	Strengthen technical capacity for animal health workforce	9	SLL 4 594 908 000.00	\$598 295.31
3	Zoonotic Disease	Establish a Zoonotic surveillance systems for five or more zoonotic diseases/ pathogens of greatest public health concern by 2022	Develop and implement national Guidelines for zoonotic disease Surveillance	9	SLL 4 955 964 689.66	\$645 307.90
4	Preparedness	To have an all hazards plan and a system for stockpiling of supply mechanism to foster access to resources during emergencies that is one health compliant by 2018.	Develop a one-health compliant all hazards plan	10	SLL 523 650 000.00	\$68 183.59
4	Preparedness	To have a comprehensive vulnerability and risk assessment with resource mapping and mobilization for identified hazards by 2019	Establish a comprehensive risk and resource mapping of priority public health hazards	10	SLL 371 650 000.00	\$48 391.93
4	Emergency Response Operations	To have a Surge capacity staff available and increase the proportion of EOC operations budget for preparedness and response at various levels supported through core government funding to 50% by 2018.	Develop a costed strategic plan for EOC that should be review and tested annually.	10	SLL 163 430 000.00	\$21 279.95

Group	Technical Area	Objective	Summary Activity	Total score	Associated Costed of priority activities	Associated Costed of priority activities
4	Emergency Response Operations	To have a Surge capacity staff available and increase the proportion of EOC operations budget for preparedness and response at various levels supported through core government funding to 50% by 2018.	Capacity building for surge personnel	9	SLL 5 002 621 500.00	\$651 383.01
4	Linking Public Health & Security	To strengthen coordination, collaboration and joint planning between public health and security authorities in response to emergencies by 2022	Build capacity for coordination and collaboration between human health, animal health and collaboration between public health and security authorities at PoEs	8	SLL 712 630 000.00	\$92 790.36
4	Med Counter Measure	A one-health compliant strategic national stockpiling system of medical commodities for use in public health emergencies is established in Sierra Leone by 2020	Establish regulations for vetting donations of medical supplies to align with pharmacy board requirements	7	SLL 132 630 000.00	\$17 269.53
4	Risk Communication	To establish a dedicated budget line by 2018 for addressing risk communications response in MoHS & MAF	Finalize the EOC communications strategic plan.	7	SLL 472 480.00	\$61.52
4	Risk Communication	To develop a formal mechanism to coordinate communication with the private sector and other stakeholders during an emergency	Sustain regular communications with partners	7	SLL 287 320 000.00	\$37 411.46
4	Risk Communication	To have risk communications focal persons in each district by 2018 (health sector) that will serve as communication link between the district and the community	Develop messaging and materials for risk communication	7	SLL 56 650 000.00	\$7 376.30
4	Risk Communication	To establish a dedicated budget line by 2018 for addressing risk communications response in MoHS & MAF	Create a dedicated budget line for addressing risk communications response in MoHS & MAF	9	SLL 41 620 000.00	\$5 419.27
4	16-Risk Communication	To establish a dedicated budget line by 2018 for addressing risk communications response in MoHS & MAF	Build human capacity in risk communication	8	SLL 5 433 810 000.00	\$707 527.34
4	16-Risk Communication	To have risk communications focal persons in each district by 2018 (health sector) that will serve as communication link between the district and the community	Capacity building for risk communication in the districts	8	SLL 1 312 610 000.00	\$170 912.76
5	PoE	To sustain 24 hours routine port health services in four (4) PoEs by 2022	Develop Strategic plan for Port Health	8	SLL 1 344 858 000.00	\$175 111.72
5	PoE	To sustain 24 hours routine port health services in four (4) PoEs by 2023	Develop framework, SOPs, guidelines and tools for border health	7	SLL 586 590 000.00	\$76 378.91
5	PoE	To sustain 24 hours routine port health services in four (4) PoEs by 2024	Cross border engagement for information sharing, joint out break response and planning	7	SLL 2 690 550 000.00	\$350 332.03
5	PoE	To develop, implement and test ECPs at 4 PoEs by 2022	Develop a national public health Emergency Contingency Plan (PHECP) for emergencies at PoEs	8	SLL 2 395 035 166.00	\$311 853.54

Group	Technical Area	Objective	Summary Activity	Total score	Associated Costed of priority activities	Associated Costed of priority activities
5	PoE	To sustain 24 hours routine port health services in four (4) PoEs by 2026	Strengthen infrastructure for routine services at PoEs	8	SLL 90 845 000.00	\$11 828.78
5	PoE	To sustain 24 hours routine port health services in four (4) PoEs by 2027	Build technical capacity for port health services	8	SLL 2 664 100 000.00	\$346 888.02
5	PoE	To sustain 24 hours routine port health services in four (4) PoEs by 2028	Strengthen capacity for responding to public health emergencies at PoEs	7	SLL 2 075 150 000.00	\$270 201.82
5	PoE	To sustain 24 hours routine port health services in four (4) PoEs by 2026	Develop/Review Policy for Port health services	7	SLL 330 550 000.00	\$43 040.36
5	Chemical Events	To establish a national chemical surveillance and response system in real time reporting at 50% by 2022	Promote programmes to develop chemicals-management instruments (national profiles, national implementation plans, national emergency preparedness and response plans).	7	SLL 1 868 621 000.00	\$243 310.03
5	Chemical Events	To establish a national chemical surveillance and response system in real time reporting at 50% by 2023	Develop communication framework for pollution and chemicals management	8	SLL 4 158 388 000.00	\$541 456.77
5	Chemical Events	To develop legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.	Enact Draft National chemicals Management Act 2017	7	SLL 970 100 000.00	\$126 315.10
5	Chemical Events	To develop legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.	Enact Draft regulations for the management of toxic and hazardous substance	7	SLL 970 100 000.00	\$126 315.10
5	Chemical Events	To develop legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.	Develop/adopt chemical standards in air, water, waste water, sediment/sludge, plant and human specimen, soil, exhaust fumes and products	8	SLL 488 610 000.00	\$63 621.09
5	Chemical Events	To develop legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.	Develop and enact a National chemical standards regulations for all environmental media	8	SLL 1 522 238 000.00	\$198 208.07
5	Chemical Events	To develop legal instruments for effective implementation and enforcement of chemical events to support integrated national environment and health surveillance systems by 2022.	Enactment of electronic waste management regulation	8	SLL 1 947 686 000.00	\$253 604.95

Group	Technical Area	Objective	Summary Activity	Total score	Associated Costed of priority activities	Associated Costed of priority activities
5	Radiation Emergencies	To strengthen surveillance and response to nuclear and radiological hazards with 50% routine reporting from identified nuclear and radiological hazard sites by 2022	Develop communication framework for radiation management	7	SLL 1 742 180 000.00	\$226 846.35
5	Radiation Emergencies	To develop, implement and test a national radiation emergency response plan by 2022.	Review Radiation Protection Act	7	SLL 478 840 000.00	\$62 348.96
5	Radiation Emergencies	To develop, implement and test a national radiation emergency response plan by 2022.	Develop/adopt radiation standards in air, water, sediment/sludge, plant and human specimen, soil, and products	7	SLL 336 378 000.00	\$43 799.22
5	Food Safety	To establish a food safety surveillance and response system with 50% reporting from identified reporting sites.	Strengthen capacity for response to food safety incidents	7	SLL 3 383 571 000.00	\$440 569.14
Total			SLL 389 237 589 937.66		\$50 681 977.86	

High Prioritized Activities

Item	Amount (Le)	Amount (USD)
Medical Countermeasures and Personnel	132 630 000	17 270
National Legislation, policy and Financing	538 875 510	70 166
Reporting	560 129 000	72 933
Linking Public Health and Security	712 630 000	92 790
Preparedness	895 300 000	116 576
Radiation Emergencies	2 557 398 000	332 995
Food Safety	3 383 571 000	440 569
Emergency Response Operations	5 166 051 500	672 663
Boisafety and Biosecurity	6 124 939 000	797 518
Workforce development	6 265 592 000	815 832
Risk Communication	7 132 482 480	928 709
IHR Coordination	7 140 000 000	929 688
Laboratory	11 041 238 000	1 437 661
Zoonotic Diseases	11 525 646 690	1 500 735
Chemical Events	11 925 743 000	1 552 831
Points of Entry (PoE)	12 177 678 166	1 585 635
Antimicrobial Resistance	19 083 684 592	2 484 855
Immunization	93 410 747 000	12 162 858
Real Time Surveillance	189 463 254 000	24 669 695
Total	389 237 589 938	50 681 978

Resource Mapping | STRATEGIC PARTNERSHIP COORDINATION

Donor Funding IHR Sierra Leone prioritized Activities

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify if Other Agencies	Amount	Region Receiving Support
AFDB	Strengthening West Africa's Public Health Systems Response to the Ebola Crisis	Real Time Surveillance	Completed	Strengthening IDSR and IHR, eIDSR, CBS and logistics support for surveillance and response	2016-2017	Through WHO	MOHS	\$ 1 156 200	National
AIDCO	WHO		Completed						All districts
Bill & Melinda Gates	WHO ATM	HIV, TB and Malaria	Completed	Implementation of preventive strategies on Malaria, HIV and TB	2014-2016	Through WHO			\$ All districts
Canada		Biosafety and Biosecurity	Completed	Development of policies, guidelines, training of biosafety officers	2016-2018	Through WHO			National
Canada Aid	WHO	Laboratory	Completed	Support building Laboratory capacity	2016-2018	Through WHO			All districts
US - CDC	CDC Ring Vaccine	Immunization	On Going	Ring vaccination for Ebola vaccine	2018-2020	Through WHO		\$ 500 000	All districts
US - CDC	CDC Ring Vaccine	Immunization	On Going	Ring vaccination for Ebola vaccine	2018-2020	Through WHO		\$ 500 000	All districts
US - CDC	HBM	Points of Entry (PoEs)	On Going	Coordinating disease surveillance and response	2015-2018	Other Agencies	IOM	£ 1 000	Kambia
US - CDC	HBM	Points of Entry (PoEs)	On Going	Coordinating disease surveillance and response	2015-2018	Other Agencies	IOM	£ 1 000	Koinadugu
US - CDC	HBM	Points of Entry (PoEs)	On Going	Coordinating disease surveillance and response	2015-2018	Other Agencies	IOM	£ 1 000	Pujehun
US - CDC	HBM	Points of Entry (PoEs)	On Going	Coordinating disease surveillance and response	2015-2018	Other Agencies	IOM	£ 1 000	kailahun
US - CDC	HBM	Points of Entry (PoEs)	Planned	Capacity Building	2014-2018	Other Agencies	IOM	£ 1 000 000	Port Loko
US - CDC	GHSA	Real Time Surveillance	On Going	IDSR, eIDSR, case-based disease surveillance, CHAMPS, cross-border surveillance	2015-2019	Other Agencies	WHO, eHealth Africa, IOM, focus 1000, World hope International, HISP	\$ National	
US - CDC	GHSA	Real Time Surveillance	On Going	Sierra Leone Ebola Database (SLED)	2016-2019	Other Agencies	eHealth Africa, Concern	\$	National

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
US - CDC	GHSA	Workforce Development	On Going	FETP Frontline, Intermediate & Advanced, CHO Management & Leadership Training, IPC Certification Course,	2015-2019	Other Agencies	eHealth Africa, AFENET, ICAP, EMORY,	\$ 1 000 000	National
China CDC		Laboratory	On Going	Human sample	2017-2020				National
China CDC		Real Time Surveillance	On Going	Diarrhea and fever surveillance	2017-2020				National
Chinese Government	National Laboratory System support	Laboratory	On Going	Building lab (RSLAF P4) - building will be complete end of June, then will staff and continue to offer support in staffing over next couple years until hand over completely to SL					
Chinese Government	National Laboratory System support	Laboratory	On Going	Building lab (RSLAF P4) - building will be complete end of June, then will staff and continue to offer support in staffing over next couple years until hand over completely to SL					
DFID	IDSR and IHR Implementation	Real Time Surveillance	Completed	Indicator based surveillance, Sentinel Surveillance and IHR	2016-2017	Through WHO	MOHS	\$ 1 034 800	National
DFID	IDSR and IHR Implementation	IHR	Completed	Indicator based surveillance, Sentinel Surveillance and IHR	2016-2017	Through WHO	MOHS	\$ 1 034 800	National
DFID	Resilient Zero	Laboratory	Completed	Lab modernization capacity building - Ebola Dx	2016-2017	Other Agencies	PHE		£ National
DFID	WHO - DFID	Preparedness	On Going	Support for RRIs to conduct field investigations, refresher courses for the RRIs; M&E of preparedness at district levels; Support compilation, validation, printing and dissemination of the all-hazard plan; Simulation exercises	2018-2020	Through WHO		\$ 300 000	All districts
DFID	WHO - DFID	Emergency Response Operations	On Going	Support for RRIs to conduct field investigations, refresher courses for the RRIs; M&E of preparedness at district levels; Support compilation, validation, printing and dissemination of the all-hazard plan; Simulation exercises	2018-2020	Through WHO		\$ 300 000	All districts

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
DFID	Resilient Zero	Emergency Response Operations	Completed	EPRR training	2016-2017	Other Agencies	PHE		£ National
DFID	HBM	Points of Entry (PoEs)	On Going	Cross border coordination	2014-2018	Other Agencies	IOM	\$ 4 000	Forecariah
DFID	HBM	Points of Entry (PoEs)	On Going	Cross border coordination	2014-2018	Other Agencies	IOM	\$ 4 000	Kambia
USAID	HBM	Points of Entry (PoEs)	On Going	Cross border coordination	2014-2018	Other Agencies	IOM	\$ 4 000	Kambia
USAID	HBM	Points of Entry (PoEs)	On Going	Cross border coordination	2014-2018	Other Agencies	IOM	\$ 4 000	Kambia
CDC	HBM	Points of Entry (PoEs)	On Going	Cross border coordination	2014-2018	Other Agencies	IOM	\$ 4 000	Forecariah
CDC	HBM	Points of Entry (PoEs)	On Going	Cross border coordination	2014-2018	Other Agencies	IOM	\$ 4 000	Forecariah
DFID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 4 000	Kambia
DFID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 4 000	Forecariah
DFID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 5 000	Tonkolili
DFID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 5 000	Kambia
DFID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 5 000	Port Loko
DFID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 5 000	Kailahun
DFID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 5 000	Pujehun
DFID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 5 000	WU
USAID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 5 000	Kambia
USAID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 5 000	Tonkolili
USAID	HBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	\$ 5 000	Pujehun

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
USAID	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	kailahun
USAID	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	Port Loko
USAID	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	Kono
USAID	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	WR
USAID	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	WU
CDC	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	Kambia
CDC	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	Tonkolili
CDC	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	Pujehun
CDC	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	kailahun
CDC	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	Port Loko
CDC	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	Kono
CDC	HHBM	Points of Entry (PoEs)	Completed	Breaking cross border disease transmission	2014-2015	Other Agencies	IOM	£ 5 000	WR
CDC	HHBM	Laboratory	On Going	procurements of reagents and consumables	2015	Direct Bilateral			National
DoD DTRA		Laboratory	Planned	Lab rehabilitation	2018	Direct Bilateral			National
European Commission	Environmental Governance and Mainstreaming Project	Chemical Events	Completed	Training and procurement of field monitoring Equipment	2014-2016	Direct Bilateral			National
European Commission	WHO - EU	Immunization	On Going	Immunization, health system strengthening					All districts
European Commission	WHO - EU	Health system strengthening	On Going	Immunization, health system strengthening					All districts
European Union	Operational Project for Environment	Laboratory	Completed		2016-2017	Direct Bilateral	EPA	\$	Western Area

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
GAVI	WHO	Immunization	On Going	Support to implementation of routine immunization	2018-2023	Other Agencies	WHO, UNICEF, and bilateral arrangements with MoHS	All districts	
GCF (Green Climate Fund)	Capacity strengthened for the implementation of the stockholm convention	Chemical Events	On Going	Chemical legislations; Pesticide inventory	2014-2018	Other Agencies	UNEP	\$ 70 000	National
GEF (Global Environment Facility)	Minimata Initial Assessment and Artisanal Gold mining	Chemical Events	On Going	NAP for Mercury in products and the Artisanal and Small scale Gold mining Communities	2017-2020	Other Agencies	UNEP	\$ 700 000	National
GEF (Global Environment Facility)	Capacity strengthened for the implementation of the stockholm convention	Chemical Events	On Going	Awareness raising;	2014-2017	Other Agencies	UNEP	\$ 30 000	WU
GEF (Global Environment Facility)	Capacity strengthened for the implementation of the stockholm convention	Chemical Events	On Going	Awareness raising;	2014-2017	Other Agencies	UNEP	\$ 30 000	Kambia
GEF (Global Environment Facility)	Capacity strengthened for the implementation of the stockholm convention	Chemical Events	On Going	Awareness raising;	2014-2017	Other Agencies	UNEP	\$ 30 000	Pujehun
GEF (Global Environment Facility)	Capacity strengthened for the implementation of the stockholm convention	Chemical Events	On Going	Awareness raising;	2014-2017	Other Agencies	UNEP	\$ 30 000	Bo
GEF (Global Environment Facility)	Capacity strengthened for the implementation of the stockholm convention	Chemical Events	On Going	Awareness raising;	2014-2017	Other Agencies	UNEP	\$ 30 000	Tonkolili
GEF (Global Environment Facility)	Capacity strengthened for the implementation of the stockholm convention	Chemical Events	On Going	Awareness raising;	2014-2017	Other Agencies	UNEP	\$ 30 000	Kono
GEF (Global Environment Facility)	Capacity strengthened for the implementation of the stockholm convention	Chemical Events	On Going	Awareness raising;	2014-2017	Other Agencies	UNEP	\$ 30 000	koladugu
GEF (Global Environment Facility)	Review and Update of the National Implementation Plan for the Stockholm Convention	Chemical Events	On Going	National Action Plan for Persistent Organic Pollutants	2015-2018	Other Agencies	UNEP	\$ 152 000	National
GIZ	Points of Entry (PoEs)	On Going				Other Agencies	GIZ		Kambia
GIZ	Points of Entry (PoEs)	On Going				Other Agencies	GIZ		Kallahun

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
GIZ		Risk Communication	On Going	Supporting ICT innovation to support risk communication at the EOC	2018-2020	Other Agencies	Through WAHO to an implementing partner (Sensi Tech Innovation Hub)		
GIZ		Risk Communication	On Going	Supporting ICT innovation to support risk communication at the EOC	2018-2020	Other Agencies	Through WAHO to an implementing partner (Sensi Tech Innovation Hub)		
Global Fund		Laboratory	On Going	Malaria, TB, and HIV	2015	Direct Bilateral	MOHS (NAS, NMCP, NTP)		National
Global Fund		Laboratory	On Going	HIV EID viral load	2015	Other Agencies	ASLM		National
Netherlands	WHO	Emergency Response Operations	Completed	EVD Laboratory capacity	2016-2017	Through WHO		\$	All districts
Ho+ RMNCH Trust Fund	WHO	Child health	On Going	Child health					All districts
Italy		Preparedness	On Going	Strengthening national framework for management and coordination for PHE using the all-hazard approach; Risk assessments for relevant PHEs conducted and information disseminated	2018-2018	Through WHO		\$ 100 000	All districts
Italy		Emergency Response Operations	On Going	Strengthening national framework for management and coordination for PHE using the all-hazard approach; Risk assessments for relevant PHEs conducted and information disseminated	2018-2018	Through WHO		\$ 100 000	All districts
Italy	Strengthening IHR Implementation in Sierra Leone	IHR	On Going	IHR Core Capacity Strengthening, Indicator based surveillance, cross border surveillance	2017-2018	Through WHO	MOHS	\$ 276 700	
Italy	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	Strengthened coordination and implementation of IHR 2005 at PoEs	2016-2018	Through WHO		\$ 49 000	Kambia
Italy	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	Strengthened coordination and implementation of IHR 2005 at PoEs	2016-2018	Through WHO		\$ 49 000	Koinadugu

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
Italy	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	Strengthened coordination and implementation of IHR 2005 at POEs	2016-2018	Through WHO		\$ 49 000	Pujehun
Italy	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	Strengthened coordination and implementation of IHR 2005 at POEs	2016-2018	Through WHO		\$ 49 000	Kailahun
Italy	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	Strengthened coordination and implementation of IHR 2005 at POEs	2016-2018	Through WHO		\$ 49 000	Bombali
Italy	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	Strengthened coordination and implementation of IHR 2005 at POEs	2016-2018	Through WHO		\$ 49 000	Kono
Italy	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	Strengthened coordination and implementation of IHR 2005 at POEs	2016-2018	Through WHO		\$ 49 000	Kenema
JICA									National
Luxembourg Development Cooperation	WHO	EVD Response	Completed	training and capacity building	2016-2017	Direct Bilateral	MOHS		All districts
MPTF	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	"1. Strengthened coordination and implementation of IHR 2005 at POEs 2. Support monitoring and evaluation of surveillance and response capacities at PoEs"	2016-2018	Through WHO		\$ 121 400	Kambia
MPTF	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	"1. Strengthened coordination and implementation of IHR 2005 at POEs 2. Support monitoring and evaluation of surveillance and response capacities at PoEs"	2016-2018	Through WHO		\$ 121 400	Koinadugu
MPTF	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Points of Entry (PoEs)	On Going	"1. Strengthened coordination and implementation of IHR 2005 at POEs 2. Support monitoring and evaluation of surveillance and response capacities at PoEs"	2016-2018	Through WHO		\$ 121 400	Pujehun

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
MPTF	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Point of Entries (PoEs)	On Going	"1. Strengthened coordination and implementation of IHR 2005 at POEs 2. Support monitoring and evaluation of surveillance and response capacities at PoEs"	2016-2018	Through WHO		\$ 121 400	kailahun
MPTF	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Point of Entries (PoEs)	On Going	"1. Strengthened coordination and implementation of IHR 2005 at POEs 2. Support monitoring and evaluation of surveillance and response capacities at PoEs"	2016-2018	Through WHO		\$ 121 400	Bombali
MPTF	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Point of Entries (PoEs)	On Going	"1. Strengthened coordination and implementation of IHR 2005 at POEs 2. Support monitoring and evaluation of surveillance and response capacities at PoEs"	2016-2018	Through WHO		\$ 121 400	Kono
MPTF	Preparedness, Surveillance and response to public health emergencies strengthened at POEs including International Borders	Point of Entries (PoEs)	On Going	"1. Strengthened coordination and implementation of IHR 2005 at POEs 2. Support monitoring and evaluation of surveillance and response capacities at PoEs"	2016-2018	Through WHO		\$ 121 400	Kenema
MDTF (UNDP Multi-Donor Trust Fund)	WHO	EVD Response	Completed	EVD Survivors	2016-2017	Other Agencies	WHO, UNAIDS	\$ 560 000	All districts
MLF (Multi-Lateral Fund)	Institutional Strengthening for the Implementation of the Montreal Protocol	Chemical Events	On Going	Procurement of Ozone depleting Substance monitoring Devices	2014-2021	Other Agencies	UNEP		National
MPTF	Strengthening coordination,advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Kambia
MPTF	Strengthening coordination,advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Koinadugu
MPTF	Strengthening coordination,advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Pujehun
MPTF	Strengthening coordination,advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Kambia

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MPTF	Strengthening coordination, advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Koinadugu
MPTF	Strengthening coordination, advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Pujehun
MPTF	Strengthening coordination, advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Kailahun
MPTF	Strengthening coordination, advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Port Loko
MPTF	Strengthening coordination, advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Bombali
MPTF	Strengthening coordination, advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Kono
MPTF	Strengthening coordination, advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	WU
MPTF	Strengthening coordination, advocacy and capacity for the implementation of NAPHS	Point of Entries (PoEs)	Planned	Training of multi-sectorial team in IHR 2005 (including POE)	2018-2018	Through WHO		\$ 18 900	Kenema
MPTF	IDSR	Real Time Surveillance	On Going	Indicator based surveillance, cross border surveillance, event based surveillance, community based surveillance,	2017-2018	Through WHO	MOHS	\$ 951 910	
MRU		Point of Entries (PoEs)	On Going						Koinadugu
National Philanthropic Trust			Completed			Through WHO			All districts
Netherlands Foundation			Completed						
Norad	EVD Response	Completed				Through WHO			All districts
Rotary International	WHO	Immunization	Completed						All districts

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
Switzerland		Preparedness	On Going	Conduct periodic risk assessments for PHEs; Facilitate production of situation reports and other information products on ongoing events; Develop technical capacity for assessments, verification and documentation of events and risks at all levels	2018-2018	Through WHO		\$ 81 250	All districts
		Emergency Response Operations	On Going	Conduct periodic risk assessments for PHEs; Facilitate production of situation reports and other information products on ongoing events; Develop technical capacity for assessments, verification and documentation of events and risks at all levels	2018-2018	Through WHO		\$ 81 250	All districts
UK AID	IHR strengthening	Laboratory	On Going	Capacity building and technical support	2018	Direct Bilateral	PHE		National
		Preparedness	On Going	Support for RRIs to conduct field investigations, refresher courses for the RRIs; M&E of preparedness at district levels; Support compilation, validation, printing and dissemination of the all-hazard plan; Simulation exercises	2018-2020	Through WHO		\$ 300 000	All districts
UK AID		Emergency Response Operations	On Going	Support for RRIs to conduct field investigations, refresher courses for the RRIs; M&E of preparedness at district levels; Support compilation, validation, printing and dissemination of the all-hazard plan; Simulation exercises	2018-2020	Through WHO		\$ 300 000	All districts
	IHR strengthening	Emergency Response Operations	Planned	EPRR training	2018	Direct Bilateral	PHE		National
UK AID	IHR strengthening	Workforce Development	Planned	Supporting workforce development of NPHA	2018	Direct Bilateral	PHE		National
UNFIP	WHO		Completed						All districts
UNICEF		Laboratory	On Going	Procurement of reagents and consumables		Direct Bilateral	MOHS		National

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
USAID		AMR	On Going	Animal lab activity training	2017	Other Agencies	FAO		National
USAID	Biosafety and Biosecurity	On Going	animal sector capacity building		2017	Other Agencies	FAO		National
USAID		Laboratory	On Going	Building capacity of the animal labs	2017-2018	Other Agencies	FAO	\$	Central Veterinary lab Teko
USAID	One Health	Real Time Surveillance	On Going						National
USAID	Strengthening One Health Implementation	Zoonotic Diseases	On Going	Coordination of surveillance preparedness and response, build capacity of one health staff, facilitate joint investigation between MAF and MOHS	2017-2018	Through WHO	MOHS	\$ 660 000	National
USAID	PREDICT	Zoonotic Diseases	On Going	Strengthening coordination of surveillance, preparedness and response at national and district level; Build capacity of ON personnel at all levels; Build capacity of multi-disciplinary RRTS (incl. surveillance officers in HH and AH)	2018-2020	Through WHO			National
USAID	One Health	Coordination	On Going					\$ 750 000	All districts
USAID	One Health	Communication and Advocacy	On Going					\$ 750 000	All districts
USAID	One Health	Real Time Surveillance	On Going	Strengthening coordination of surveillance, preparedness and response at national and district level; Build capacity of ON personnel at all levels; Build capacity of multi-disciplinary RRTS (incl. surveillance officers in HH and AH)	2018-2020	Through WHO		\$ 750 000	All districts

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
USAID	One Health	Zoonotic Diseases	On Going	Strengthening coordination of surveillance, preparedness and response at national and district level; Build capacity of ON personnel at all levels; Build capacity of multi-disciplinary RRTS (incl. surveillance officers in HH and AH)	2018-2020	Through WHO		\$ 750 000	All districts
USAID	One Health	Reporting	On Going	Strengthening coordination of surveillance, preparedness and response at national and district level; Build capacity of ON personnel at all levels; Build capacity of multi-disciplinary RRTS (incl. surveillance officers in HH and AH)	2018-2020	Through WHO		\$ 750 000	All districts
USAID	One Health	Preparedness	On Going	Strengthening coordination of surveillance, preparedness and response at national and district level; Build capacity of ON personnel at all levels; Build capacity of multi-disciplinary RRTS (incl. surveillance officers in HH and AH)	2018-2020	Through WHO		\$ 750 000	All districts
USAID	One Health	Emergency Response Operations	On Going	Strengthening coordination of surveillance, preparedness and response at national and district level; Build capacity of ON personnel at all levels; Build capacity of multi-disciplinary RRTS (incl. surveillance officers in HH and AH)	2018-2020	Through WHO		\$ 750 000	All districts
USAID	One Health	Points of Entry (PoEs)	On Going	Strengthening coordination of surveillance, preparedness and response at national and district level; Build capacity of ON personnel at all levels; Build capacity of multi-disciplinary RRTS (incl. surveillance officers in HH and AH)	2018-2020	Through WHO		\$ 750 000	All districts
USAID	Breakthrough ACTION	Risk Communication	On Going		2018-2020	Other Agencies	Global program	\$ 3 000 000	Bombali
USAID	Breakthrough ACTION	Risk Communication	On Going		2018-2020	Other Agencies	Global program	\$ 3 000 000	Bombali

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
USAID	PREDICT 2 (through GHSA)	Zoonotic Diseases	On Going	PREDICT 2 (through GHSA)					
USAID	PREDICT 2 (through GHSA)	Workforce Development	On Going	PREDICT 2 (through GHSA)					
USAID	PREDICT 2 (through GHSA)	Laboratory	On Going	PREDICT 2 (through GHSA)					
USAID	PREDICT 2 (through GHSA)	Biosafety and Biosecurity	On Going	PREDICT 2 (through GHSA)					
USAID	FAO (through GHSA)	Zoonotic Diseases	On Going						
USAID	FAO (through GHSA)	Workforce Development	On Going						
USAID	FAO (through GHSA)	Laboratory	On Going						
USAID	FAO (through GHSA)	Biosafety and Biosecurity	On Going						
USAID	IFRC (through GHSA)								
USAID	Preparedness & Response (P&R) (through GHSA)	Preparedness	On Going						
USAID	Preparedness & Response (P&R) (through GHSA)	Emergency Response Operations	On Going						
USAID	IFRC (through GHSA)								
US - CDC	AMR	On Going		Support GHSA and IHR implementation	2016-2019	Through WHO		\$	National
US - CDC	AMR	On Going		Support GHSA and IHR implementation	2017-2019	Other Agencies	APHL	\$	National
US - CDC	Biosafety and Biosecurity	On Going		Support GHSA and IHR implementation	2014-2019	Through WHO		\$	National
US - CDC	Biosafety and Biosecurity	On Going		Support GHSA and IHR implementation	2015-2019	Other Agencies	APHL	\$	National
US - CDC	Biosafety and Biosecurity	On Going		Support GHSA and IHR implementation	2018-2019	Direct Bilateral		\$	National
US - CDC	Laboratory	On Going		Support GHSA and IHR implementation	2014-2019	Through WHO		\$	National
US - CDC	Laboratory	On Going		Support GHSA and IHR implementation	2015-2019	Other Agencies	APHL	\$	National
US - CDC	Laboratory	On Going		Support GHSA and IHR implementation	2018-2019	Direct Bilateral		\$	National

Donor Name	Project Name	IHR Core Capacity Supported	Status	Activity Description	Date	Channel of Funding	Specify If Other Agencies	Amount	Region Receiving Support
US - CDC	CHAMPS	Laboratory	On Going	Indicator based surveillance, eIDSR	2015-2019	Through WHO	MOHS	\$ 952 202	National
US - CDC	Cooperative Agreement	Real Time Surveillance	On Going	Sentinel Surveillance	2016-2017	Direct Bilateral	MOHS	\$ 138 000	National
WHO	Pandemic Influenza Preparedness (PIP)	Real Time Surveillance	Completed	Procurement of supplies/ reagents; capacity building	2017-2022	Direct Bilateral	MOHS		National
World Bank	REDISSE	Laboratory	On Going	eIDSR, community based surveillance, maternal death surveillance and response, animal surveillance, cross border surveillance, risk based surveillance, 117	2018-2019	Direct Bilateral	MOHS Africa	\$ 5 744 670	National
World Bank	REDISSE	Real Time Surveillance	On Going	FETP Advanced, training for district medical teams and districts livestock officers, human resources for health strategy	2018-2021	Direct Bilateral	MOHS	\$ 5 744 670	National
World Bank	REDISSE	Workforce Development	Planned						

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