

Uganda Virus Research Institute

Plot 51-59, Nakiwogo Road, Entebbe P.O. Box 49, Entebbe-Uganda Tel: +256 414 320 385 / 6 Fax: +256 414 320 483 Email: directoruvri@uvri.go.ug



Uganda Virus Research Institute

Strategic and Development Plan 2018-2022

Repositioning the Institute as A World Class Centre of Excellence in Health Research

Foreword

This Strategic Plan (2018/19-2022/23) is a major milestone in the journey towards making UVRI a world class center of excellence in Health Research. A well-developed Research Institute is a fundamental arm of the health sector and crucial component of any health system. Functions of research institutions range from surveillance, diagnosis of health/disease conditions for individual patients to national disease surveillance and control of disease outbreaks for policy and knowledge translation and improved community wellbeing. It therefore requires the necessary investment and utmost attention to fulfill these functions.

The health system in Uganda aims to deliver a defined National Minimum Health Care Package (UNMHCP) to every member of the Ugandan population. To achieve this research institutions must be well funded, managed and coordinated. The Research Institutions in Uganda have lacked fiscal support required to fulfill their role resulting in increased operational cost due to inadequate disease identification, missed diagnoses, poor case monitoring and management as well as delays in disease outbreak management. This strategic plan is a tool for implementing the set targets in the National Health policy 2009, Horizon 2020 national document, the sustainable and Development Goals (SDGs), the Health Sector Development plan 2015/16-2019/20 and the National Development Plan II 2015/16- 2019/20 and aims to resolve this situation.

This plan outlines the vision, goals, and strategies for strengthening key thematic areas of UVRI as a Research Institutions in the country to facilitate adequate support to the UNMHCP. In the past decade, Research Institutions for Communicable, Non-communicable and viral infections have seen marked improvement as a result of increased activity and funding in these areas largely by international health partners. During this period of time, the importance of evidenced based research for policy has been progressively acknowledged by the MoH, its partners in health and stakeholders.

The development of this Strategic and development Plan began in 2016 through a number of stakeholder consultations and meetings. It provides a national framework and guidance for implementation and investments in health research Institutions by the Government and Health Development partners. It is a very useful and powerful guiding tool for the planning and implementation of programs towards strengthening Health Research in the country in the public and private sector as well as the general Health sector.

The Ministry of Health is committed to using, strengthening the coordination and quality evidence based research findings in implementation of the Uganda National Minimum Health Care Package. All stakeholders and partners are therefore called upon to examine the strategic and development plan, assess their involvement in the health research environment, and thereafter align their present and future activities with the guidelines laid out in this plan.

Dr. Jane –Ruth AcengMinister of Health

Acknowledgments

The development and finalization of this Strategic Plan and Development II for UVRI is a result of contributions and dedicated efforts of the collaborative Research Institutions, Ministry of Health (MOH), several stakeholders, on campus partners and Senior Staff at UVRI. These stakeholders have been engaged in series of policy meetings, workshops, and individual as well as institutional consultations to develop this strategic plan and Development Plan 2017- 2020 for UVRI. The Institute is very appreciative for all the efforts and sacrifice that has been invested for the successful development.

The Ministry of Health would like to acknowledge and extend its sincere appreciation to the Uganda Virus Research Institute Technical Committee and Heads of Departments at UVRI for spearheading the development process, on Campus Programs and Partners at UVRI.

Special acknowledgement is extended to Dr. Okware Sam (Director General UNHRO), Prof. Pontiano Kaleebu (the Director UVRI), Dr. Julius Lutwama (Deputy Director) and Mrs. Asiimwe Rachel Birungi (the Principal Assistant Secretary) who committed time and effort in steering the process of developing and finalizing this strategic and development plan. Special thanks go to the Heads of Departments and Heads of Programs Dr. Edward Katongole Mbidde, Prof. Alison Eliot, Dr.Robert Downing, Dr. Kayondo Jonathan, Dr. Watera Christine, Dr. Lutalo Tom, Dr. Sserwanga Jennifer and Dr. Bwogi Josephine, also special thanks go to the Strategic Plan Task force chaired by the Principal Assistant Secretary, Mr. Joseph Lule, Mrs. Emily Nyanzi Kabuye, Ms Katusabe Monica, Mr. Rajab Lukwago, Mr. Makko Musagara, Mr. Kimbowa Timothy Wamala and Mr. Robert Mujabi for their dedicated efforts in organizing the preparatory and workshop sessions, putting together and editing this final document

Finally, the Institute is grateful to Ministry of Health and all those institutions and individuals who have not been specifically mentioned above, but who directly or indirectly contributed to the successful development and finalization of this Strategic and development Plan. The support and contributions from all departments of MOH is valued.

Prof. Pontiano Kaleebu DIRECTOR UVRI

Table of Contents

Acknowledgments	ii
Table of Contents	i
List of Acronyms	iii
1.0 Introduction	1
1.1 Background	1
1.2 Purpose of the Revised Plan	2
1.3 The Review Process of the UVRI Strategic and Development Plan	2
1.4 Structure of the Rrevised Plan	
2.0 Strategic Direction	3
2.1.Mandate	3
2.2 UVRI's Core Competences	6
3.0 Performance Analysis	7
3.1 Highlights of Past Performance	7
4.0 Environment Scan	10
4.1. Political	10
4.1.1.Challenges of Health Research in Africa	
4 .1.2Porous Regional Borders	
4.13 Instability in the Great Lakes Region	
4.1.4 The Health Research Policy in Uganda	
4.1.5 Insufficient Political Will	11
4.1.6 Political Stability	
4.1.7 Unrealistic Expectation of Quick/Timely Research Evidence	11
4.1.8 Approved Organizational Structure	
4.2. Economic	11
4.2.1. Global Economic Recession	
4.2.2 Research Consortia	
4.2.3. Brain Drain	
4.2.4. Decreasing Funding Trend by Government for Health Sector	
4.2.5. Scope for Product Innovation	
4.2.6. Excessive Reliance on Donor Funding	12
4.3.0 Social	
4.3.1. Acceptability of Research Projects by Communities	
4.4.0 Technological	
4.4.1. Developments in the Information Communication Technology (ICT) Sector	
4.4.2. Electricity Power Challenges	
4.5.0 Legal	
4.5.1. The UNHRO Act 2011	
4.5.2. Weak Intellectual Property Laws	
4.6.0 UVRI's Current SWOT Profile	
4.7.0 Distinctive Competence	
5.0 Strategic Issues and a Strategic Foci Statement Strategic Issues	17

UVRI Revised Strategic and Development Plan 2018-2022

5.1 Strateg	gic Fo	ci Statement for 2017-2020	17
5.1.1 Gc	oal		17
5.1.2	Key	Result Areas (KRA)	17
		sult Areas (KRA) and Strategic Objectives	
6.0 Strategic	and [Development Plan Implementation Critical Assumptions	23
6.1 Implen	nenta	ition Modalities	23
7.0 Monitorin	ng an	d Evaluation Strategy	24
Appendices			25
Appendix 2015		Operational Plan Template for UVRI Revised Strategic Plan 25	2012-
Appendix	2:	Logical Framework for the Revised UVRI Strategic and Deve	•
Appendix Appendix 4	3: 4:	Pillars of the Uganda National Health Research Organisation Stakeholder Analysis Table	39 for UVRI
Appendix	5:	Organisational Structure for UVRI	43

List of Acronyms

ACP AIDS Control Program

AU African Union

CDC Centers for Disease Control and Prevention

EAC East African Community

EACCR East-African Consortium for Clinical Research
EACR European Association for Cancer Research

EAHC East African High Commission EAVRI East African Virus Research Institute

EDCTP European & Developing Countries Clinical Trials Partnership

EIA Environmental Impact Assessment
EPI Expanded Program on Immunization
ESD Epidemiological Surveillance Division
FAO Food and Agriculture Organization

FY Fiscal Year

GCLP Good Clinical Laboratory Practice

GCP Good Clinical Practice
GLR Great Lakes Region
GLR Great Lakes Region
GOU Government of Uganda
HPV Human Papilloma Virus
HRL HIV Reference Laboratory

HSSIP Health Sector Strategic and Investment Plan

IANPHI International Association of National Public Health Institutes

IARC International Agency for Research on Cancer

IAVI International AIDS Vaccine Initiative ICRF Imperial Cancer Research Fund

ICT Information Communication Technology

IHP+ International Health Partnerships and related Initiatives

KEMRI Kenya Medical Research Institute

KRA Key Result Areas

LIMS Laboratory Information Management System

MDGs Millennium Development Goals

MoH Ministry of Health

MOU Memorandum of Understanding MRC-UK Medical Research Council-UK

NACCAP Netherlands-African Partnership for Capacity development and Clinical

interventions Against Poverty related Diseases
NCDs Non-Communicable Diseases
NDP National Development Plan

NHP II The second National Health Policy

UVRI Revised Strategic and Development Plan 2018-2022

NIMR National Institute for Medical Research, Nigeria

NRM National Resistance Movement
OVIs Objectively Verifiable Indicators
QAC Quality Assurance Committee
RHSP Rakai Health Science Programs
SEC Science and Ethics Committee

SIDA Swedish International development Agency

SOPs Standard Operating Procedures

TBC To Be Communicated
UAB UVRI Advisory Board
UK United Kingdom

UNEPI Uganda National Expanded Program for Immunization
UNHRO Uganda National Health Research Organisation
UNHRO Uganda National Health Research Organisation

USA United States of America

UVRI Uganda Virus Research Institute

VHF Viral Hemorrhagic Fever WHO World Health Organization

1.0 Introduction

1.1 Background

The Uganda Virus Research Institute (UVRI) was established in 1936 by the International Division of the Rockefeller Foundation of the United States of America. It was then called the Yellow Fever Institute, as its focus was on yellow fever epidemiology with emphasis laid on investigating the extent of spread of the yellow fever virus from West Africa eastwards. Over the years, a number of other, previously unknown, arboviruses were isolated, some of which proved to be of considerable medical importance.

By 1950, the Institute had gained regional recognition and became the East African Virus Research Institute (EAVRI) under the East Africa High Commission (EAHC). Due to the outstanding scientific contribution to the study of arboviruses, the Institute was designated as a World Health Organization (WHO) Regional Center for Arboviruses Reference and Research.

The Institute's scientific mission continued to be enriched through growing collaboration with re-known research institutions including the Imperial Cancer Research Fund (ICRF) of the United Kingdom and the International Agency for Research on Cancer (IARC) in Lyons, France on the aetiology of Burkitt's lymphoma. Following the arrival of a study team from the WHO in 1969, the Institute received enhanced status as a fully- fledged virus research laboratory capable of handling viral diseases deemed to be of public health significance. During subsequent years, extensive and valuable data on entero-and-respiratory viruses and the efficacy of vaccination with oral polio virus vaccine and measles vaccine were accumulated.

The collapse of the East African Community (EAC) in 1977 marked the end of the "golden years" of research for UVRI as the Institute quickly deteriorated as international support was stopped. Many international and national staff left the country as civil strife raged in the country till 1986. The Institute, now renamed Uganda Virus Research Institute, suffered adversely with damaging repercussions in its infrastructure, research policy direction and personnel.

Following takeover of government by the National Resistance Movement (NRM) in 1986, and with a steady return of peace and stability, efforts were initiated to revive research activities at UVRI. A major initiative was the sero-epidemiological study started in Rakai District in 1986, which later became the Columbia University Rakai Project with funding from the National Institutes of Health in USA. At the same time, WHO secured funding for the Uganda AIDS Control Program (ACP) which had just been initiated to tackle the AIDS problem in the country. Part of that funding was earmarked for the rehabilitation of UVRI as a National HIV Reference and Research Laboratory to support the work of ACP.

Over the following five years, the physical structures and human resource requirements to support surveillance activities were developed including a national serum repository. UVRI staff was trained in serology, data management, immunology and equipment management. In addition, facilities for cell culture and virus isolation were put back in place including a new P2/3 Laboratory, and a Liquid Nitrogen Plant. In the 1990's HIV/AIDS activities continued to drive the recovery of the Institute through collaborative research projects with Medical Research Council (MRC-UK), Columbia University, Johns Hopkins University, Cambridge Biotech, WHO/GPA, the World Laboratory and the National Cancer Institute-Naples, and the Centers for Disease Control and Prevention (CDC) laboratories, USA, Wellcome Trust and International AIDS Vaccine Initiative, (RHSP) Rakai Health Sciences Programme.

Whilst UVRI's programmatic and institutional development has gathered impressive pace over the years, it has become imperative for the Institute to anchor this growth and development within the framework of a clear and dynamic Strategic and Development Plan.

1.2 Purpose of the Revised Plan

This Revised Strategic and Development Plan serves the following related purposes:

- i. To develop a comprehensive strategic pathway that is well aligned to the National Development Plan (2016/17-2019/20), the Health Sector Strategic and Investment Plan 2017/18-2019/20, Second National Health Policy of July 2010, and the core functions of public health institutions.
- ii. To ensure that the recent developments in the country are captured in the vision, mission and core values
- iii. To articulate UVRI's strategic issues and the strategic focus statement that highlights the key results areas and the corresponding strategic objectives and strategies for addressing strategic issues and the emerging health research agenda for the period 2018/19-2022/23, To provide a systematic platform for the formulation of the Institute's rolling annual activity/work plans and budgets.
- iv. To develop a business plan to achieve the goals.
- v. To address the structural and implementation challenges that affect the overall performance of the UVRI.
- vi. To make effective use of resources within UVRI.

1.3 The Review Process of the UVRI Strategic and Development Plan

The Strategic and Development Plan was reviewed through a planning retreat by the UVRI management, staff, and representatives from Uganda's Ministry of Health, UNHRO Board and the Director General of UNHRO. The retreat, also attended by some of the Institute's on-campus partners was facilitated by an external Consultant. The process started with the assessment of the achievements and challenges registered by all departments, which were presented at a three-day retreat that was held on November

22nd, 23rd and 26th 2017 at the Sanctum Hotel, Entebbe. In his opening remarks to the retreat participants, the Institute Director underscored the review initiative as a major landmark in strengthening and repositioning UVRI as an innovative, sustainable world class research centre.

1.4 Structure of the Rrevised Plan

Following the introductory part, section two outlines UVRI's strategic direction in terms of the mandate, vision, mission, core values and core competencies that shape the fundamental corporate character of the organization.

Section three reviews UVRI's performance over the last decade and giving an overview of the main Institute's achievements as it implemented its health research and capacity development programs in the past.

Section four reviews UVRI's environment to establish the key external forces (political, economic, socio-cultural, technological, legal and environmental) likely to impact on the successful implementation of this Plan; and identification of the current organizational profile of strengths, weaknesses and distinctive competence which UVRI has to use harness a more productive future.

Section five presents the corporate key strategic issues that must be confronted over the next five years and the strategic focus statement that shows the Institute's strategic priorities in form of key results areas, strategic objectives and the strategies to be pursued during the next three years.

While section six presents the modalities for implementing UVRI's strategic intent including an implementation template that is in appendix 1 section seven presents the monitoring and evaluation strategy whose details are captured by a logical framework in appendix 2.

2.0 Strategic Direction

UVRI's strategic direction is defined by its mandate, vision, mission, core values, core competences, key results area, and the strategic objectives.

2.1.Mandate

UVRI is mandated to conduct

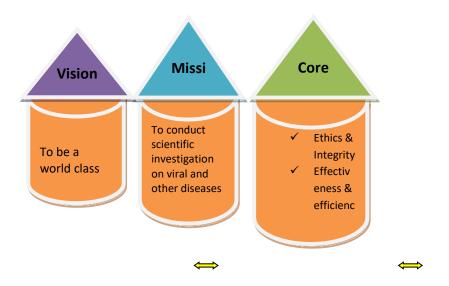
health research pertaining to human infections and disease processes associated with or linked to viral aetiology and provides capacity building to target beneficiaries. The Institute's programmatic activities currently comprise of the following areas:

- Basic research
- Applied research (intervention, diagnostics, clinical, operational/implementation science or IS)
- Social/economic research
- Capacity development, and
- Advice for regulation, policy development and quality improvement
- Innovation

The Institute is organized under seven (7) departments which are closely inter-related. Each department is headed by an Assistant Director assisted by a Principal Research Officer, all of whom are under the supervision of the Deputy Director. The two support departments; Finance and Administration headed by the Principal Assistant Secretary and the Planning Department headed by the Principal Economist, both reporting to the Executive Director. There is, in addition, a major function of training that is spearheaded by a Training Committee and the UVRI Research Clinic that serves both Institute staff and the surrounding community; and also undertakes research (details in the new structure in appendix 5).

The program departments include:

- Immunology
- Arbovirology/merging and re-emerging viral infections
- General virology
- Ecology/Zoology
- Entomology/Vector biology and;
- Finance and administration
- Planning and resource mobilization



Ethics and Integrity

This includes upholding generally accepted high standards of social and ethical behavior and demonstrating acceptable levels of transparency and accountability in use of resources entrusted to the individual either by the organization or on behalf of the publics served.

Effectiveness and Efficiency

These are essential demonstrable elements of the professionalism that are expected from staff at all levels of the organizational structure. Effectiveness and efficiency call for a thorough knowledge of one's work, skilful work behavior, respect for others and commitment to high standards of quality assurance and control in achievement of the Institute's objectives, and timeliness.

Teamwork and Collaboration

The Institute recognizes that sustainable success is a collective endeavor based on mutual trust, complementary effort and shared objectives by members of the 'corporate family'- bound the same destiny Furthermore, UVRI attaches great importance to professional and institutional collaboration as a major strategy for achieving the Institute's mission and objectives.

Innovativeness

UVRI is a learning institution that takes pride in the ability and willingness of its staff to initiate innovative approaches that add value to the institutional mandate and work relationships resulting in improved public health.

Biosafety and biosecurity

UVRI is a responsible corporate institution that seeks to avoid, or otherwise minimize, the potential adverse effects of its activities on individuals, communities and the environment in general.

Productivity and quality

UVRI aspires in all its undertakings to generate tangible results in terms of services and products which must be of high quality to its clients.

2.2 UVRI's Core Competences

In accordance with the stated core functions of the National Public Health Institutions by the Pan-American Health Organization, UVRI embeds its competences in the following areas:

- I. Public Health Research and Innovation (in the National Development Plan) with deliverables of peer-view publications, research reports, scientific presentations.
- II. Public Health Surveillance (diseases & bio-risks) with deliverables of documented outbreaks investigated and controlled plus bio-risks averted.
- III. Reference & Specialized Testing Proficiency with deliverables of evaluated and validated testing algorithms and standard operating procedures (SOPs).
- IV. Health promotion and environmental health linked to cluster I in the MoH Health Sector Strategic & Investment Plan.
- V. Disease prevention & control linked to the MoH clusters in its Health Sector Strategic & Investment Plan: Maternal and Child Health (cluster II); Communicable Diseases (cluster III) and Non-Communicable Diseases (cluster IV).
- VI. Human Resource and Capacity Development with deliverables of scientists trained/mentored, trainees handled through internships and staff retention plus motivation.
- VII. Research governance and quality assurance measurable through policy contributions, number of grants, infrastructural developments, number of partnerships/collaborations, number of quality assurance schemes and resources mobilized.

3.0 Performance Analysis

3.1 Highlights of Past Performance

Some of the major achievements recorded by the Institute during the last decade or so include the following:

- a) It is a key source of expertise for many of the country's infectious disease functions, including monitoring and investigating outbreaks, clinical trials, scientific research and laboratory science.
- b) It has participated in disease control and surveillance at both regional and national levels in regard to control of outbreaks of viral haemorrhagic fever, measles, polio, rubella and yellow fever, and is helping the Ministry of Health (MOH) examine trends over time for other communicable and noncommunicable diseases.
- c) It has grown considerably since 2007 with new positions including a Deputy Director as well as research officers, grants support staff, and, laboratory assistants. Its staff hold honorary appointments with Makerere University, among whom are PhD and post-doc supervisors. Some of UVRI's staff supervise students who come to UVRI for apprenticeships. To interest young people in science careers UVRI held an Open day in 2016 for 1000 Primary School Pupils and Science Teachers. UVRI has some of its staff on master's, PhD and post-doc scholarships to attend Makerere University, the London School of Hygiene and Tropical Medicine and South African universities.
- d) It is a founding member of the newly constituted East-African Consortium for Clinical Research (EACCR 2), a network of 23 regional institutions from six countries and eight northern partners. The Network focuses on workforce development, infrastructures upgrades, project management strengthening, and development and implementation of north-south and south to south collaborative efforts in support of communicable disease control.
- e) It also has strong partnerships with Wellcome Trust-UK, European and Developing countries Clinical Trials Partnership (EDCTP), Rakai Health Sciences Program/NIH, THRIVE, MUII-Plus and Makerere University among many others (e.g CDC, IAVI, WHO, London School of Hygiene and Tropical Medicine).

- f) Within the past four years, it has added new facilities, including totally refurbishing bio-security Level 2 and 3 laboratories funded by CDC and WHO and a resource center funded by IANPHI.
- g) The EPI laboratory was fully accredited for polio diagnosis by WHO in 1999 and has continued to be fully accredited annually. The laboratory was also designated as a Measles Regional Reference Laboratory in 2000, initially serving Eastern and Southern African region. Currently the laboratory serves seven countries from the Eastern and Central WHO AFRO region.
- h) UVRI was designated by WHO as a National Influenza Center, Arbovirology Reference Laboratory.
- i) k) Two phase 1 HIV vaccine candidates were successfully evaluated for safety and immunogenicity. Evaluation of HIV induced antibodies in HPTN 027 vaccine trial has also been completed.
- j) Completed the first phase of new HIV rapid kits for use in a new national rapid HIV testing algorithm.
- k) Capacity for performing molecular biology has been developed. A centralized molecular lab has been set up.
- I) Capacity for performing neutralization assays has been established and staff have been trained.
- m) In partnership with MRC and IAVI, capacity for flow cytometry assays has been set up and developed.
- n) It has expanded the scope of activities for the HIV Reference Laboratory (HRL) and established a National HIV Quality Assurance/Quality Control project.
- o) National/ Reference Laboratory for HIV Drug Resistance Genotyping was accredited by WHO.
- p) It conducted three HIV/AIDS indicator surveys (2004/2005 and 2010/2011) and 2016/2017
- q) In collaboration with its partners, it has published at least 500 peer-review publications in the past five years

- r) UVRI has also experienced notable infrastructural developments. These include: construction of a new influenza laboratory with support from the World Bank; a new training centre with support from the Wellcome Trust-UK; a new 250 KVA generator with support from IANPHI and CDC; a boosted department of information technology with an e-library, website, teleconference and video conference facilities with support from Wellcome Trust, EDCTP and IANPHI and enhance security with support from CDC.
- s) It has received a donation of influenza vaccines for adults because of the confidence of its collaborators in the on-going influenza work.
- t) It has contributed to innovation through rigorous evaluation of a new pointof-care device for monitoring CD4 counts among HIV-infected persons (PIMA machine with a rechargeable battery) in collaboration with Alere Technologies.
- u) On top of the financial support from the Government of Uganda through the wage bills and some non-wage recurrent costs, UVRI has leveraged and tremendously increased funds for its operations. US Government has provided funds through CDC for the expanded scope of work on HIV, arbovirology and VHF. This is also reflected by the various contributions from the different sponsors in the litany of selected achievements mentioned above.

v)

4.0 Environment Scan

4.1. Political

4.1.1. Challenges of Health Research in Africa

The Sustainable Development Goals (SDGs) are described as ambitious for sub-Saharan Africa and are a real barometer to assess countries' efforts towards improving the health of populations. These universal goals target, among other priorities, poverty-related diseases such as tuberculosis, malaria and HIV/AIDS. Although Africa bears the greatest burden of these three major diseases with potential for global transmission, the continent is characterized by weak and under-resourced health infrastructure, health interventions inappropriate to the scale of the problem, and benefits of health not reaching those with the greatest disease burden. In addition, African health research institutions are crippled by fragmentation, lack of coordination, diminishing critical mass of qualified African researchers, inadequate research infrastructure, and inconsistent and limited funding opportunities. Such challenges hamper the contribution of African leadership to impact on research about diseases of global health importance.

To address some of these challenges, the European and Developing Countries Clinical Trials Partnership (EDCTP), a European Union-funded and peer-review grant awarding agency has strategically invested in transformative health research led by African professionals to champion capacity development, research excellence and networking for improved global health and economic development while concurrently contributing to the MDGs. Other like-minded international development partners (such as Wellcome Trust, the Swedish International development Agency (SIDA), Netherlands-African partnership for Capacity development and Clinical Interventions Against Poverty related Diseases (NACCAP), NIH and Bill Gates) have also invested in such initiatives.

Some of the MDGs addressed by 2015 include MDG4: reducing child mortality; MDG6: combating HIV/AIDS, malaria and other diseases, and MDG8: developing global partnerships. Expected benefits of such investments include:

- a) Efficient multi-site research coordination and grant management capabilities for greater impact,
- b) Enhanced production capacity for scaling up the number of qualified African scientists and health practitioners and
- c) Incremental infrastructure, partnerships, co-ownership and funds capable of responding sustainably to diseases and threats through synergy and multi-disciplinary collaboration.

4.1.2Porous Regional Borders

The porous regional borders increase risk for disease outbreaks such as polio, viral haemorrhagic fevers and plague. This creates prospects for strengthening joint disease surveillance by East African and Regional partner states through the East Africa Integrated Disease Surveillance Network within the East African Community (EAC).

4.1..3 Instability in the Great Lakes Region

Somalia instability increases risk for disease outbreaks e.g. dengue hemorrhagic fever and bio-terrorism. There are potential prospects for increased accessing of funds from the Government of the United States of America (USA) for joint disease surveillance and controlling potential risk of bio-terrorism.

4.1.4 The Health Research Policy in Uganda

This policy strengthens stewardship and governance of health research in the country and establishes a mechanism for alignment, harmonisation and coordination of health research within the context of Uganda's National Development Plan (NDP), the second National Health Policy, HSSIP 2010/11 - 2014/15 and UNHRO. It also provides a framework for application of evidence in policy development and practice. It is supposed to set the tone at the top for all parties involved in health research in the country over the period 2012 - 2020.

4.1.5 Insufficient Political Will

There is inadequate political will to translate the existing written policies and plans (NDP, HSSIP, Second National Health Policy & UNHRO) into actual practice. Reduced budget for health sector in Fiscal Year (FY) 2016-2017 has translated into reduced government funds for health research and health interventions.

4.1.6 Political Stability

There is political stability which has ushered in a conducive environment, creating confidence among stakeholders for smooth execution of UVRI's mission.

4.1.7 Unrealistic Expectation of Quick/Timely Research Evidence

Very high and unrealistic expectations of quick/timely research evidence that is demand driven for pressing health challenges have tended to redirect focus on immediate results for policy and operational research. This tends to crowd out attention from clinical trials and observational studies which take a longer gestation period to yield evidence.

4.1.8 Approved Organizational Structure

The Ministry of Public Service has approved a new organizational structure through the Ministry of Health. This structure has helped to clarify the institutional management organogram and guide recruitment for key personnel posts (appendix 3)

4.2. Economic

4.2.1. Global Economic Recession

Effects of economic recession have persisted especially in the United States of America, the Eurozone and in Uganda. This has reduced prospects which for mobilization of grants from corporates especially from the aforementioned countries.

4.2.2 Research Consortia

International corporate and development agencies are now moving away from positive consideration for single (institutional) funding applications to joint funding and multi institutional and trans-national programming.

4.2.3. Brain Drain

Economic brain-drain syndrome in context of poor remuneration for health researchers is likely to lead to mass exodus of promising health research professionals from poor government institutions and countries like Uganda to better paying projects/programmes and resource-rich countries thereby, widening the human resource capacity gaps.

4.2.4. Decreasing Funding Trend by Government for Health Sector

There has been decreasing funding trend by government for health sector over the last three years since FY 2016/20.

4.2.5. Scope for Product Innovation

There is no national sample repository (e.g. for samples from survivors of Ebola, Marburg, yellow fever) to encourage biotechnology transfer and potential product innovation.

4.2.6. Excessive Reliance on Donor Funding

Over 90% of institutional funding is external, which is amenable to possible fragility and non-sustainability if influenced by adverse political factors of donor countries. Over reliance on donor funding tends to make health research agenda to be externally influenced.

4.3.0 Social

4.3.1. Acceptability of Research Projects by Communities

There is increasing acceptability of research projects by communities supported by their representatives on cross-institutional Community Advisory Boards (CABs).

4.4.0 Technological

4.4.1. Developments in the Information Communication Technology (ICT) Sector

The proliferations of ICT platforms such as CISCO intercom, NAVISION, internet connectivity, video conference facilities have created scope for the Institute to upgrade the lab information management systems.

4.4.2. Electricity Power Challenges

The protracted electricity/power challenges have increased fuel costs for big generators and hence created a need for exploring alternative power sources such as solar energy.

4.5.0 Legal

4.5.1. The UNHRO Act 2011

The UNHRO Act 2011 has put in place a framework for coordination and harmonisation of health research and its application in the country.

4.5.2. Weak Intellectual Property Laws

There are very weak intellectual property laws and weak bargaining power in contract negotiations with funders in the country.

4.6.0 UVRI's Current SWOT Profile

During the retreat, UVRI staff and their collaborating partners present identified the key external and internal factors or drivers likely to impact the successful implementation of the Institute's Strategic and Development Plan. These drivers-opportunities, threats, strengths and weaknesses-are presented in the matrix below.

UVRI's Current SWOT Profile

Strengths:

- ♣ A strong cohesive team of highly competent scientists and support team
- ↓ A well-established EPI laboratory enjoying international status
- 4 Available state-of-art health research equipment
- ➡ A strong track record of scientific findings, information generation and dissemination
- ♣ A relatively well established culture of publications in respected medical and scientific peer-review journals
- ➡ Engaging in country-wide and regional-wide research networks UVRI is devoted to research on viral diseases and epidemic responses
- A maintained infrastructure of buildings and other physical assets in a prime location near Entebbe International Airport
- ♣ Energetic staff

Opportunities

- ♣ Institutional competencies in line with the Sustainable Development Goals
- ♣ Strong policy support at various levels of government.
- ♣ Strong interest by funders to collaborate with UVRI
- ♣ Strong linkages with national and international research
 and academic institutions
- ↓ Outbreaks ability to investigate and respond appropriately
- ♣ Motivation strategy for health workers (MoH) to address staff welfare
- ↓ Uganda HSSIP 2010/11-2014/15 and National Development Plan in place
- ↓ Uganda enjoys significant international interest and respect for its success in health research especially in HIV/AIDS and other emerging and re-emerging diseases
- **↓** Government of Uganda is a signatory to the Abuja Declaration
- ♣ Strong interest by international research & funding institutions to collaborate with UVRI
- ♣ Strong linkages with national research, health, academic institutions
- ♣ Growing regional cooperation and integration (EAC, AU).
- ♣ Demand for specialized consulting, testing and training services
- **↓** Continued macro-economic growth
- ♣ Favorable fiscal policy

	 Increasing community interest and support including community leaders Interest in evaluating emerging technologies Improved security in Uganda
Weaknesses: ↓ Weak financial base ↓ Over concentration on HIV/AIDS research agenda ↓ Inadequate staffing at most levels ↓ Inequity of technology access within the Institute ↓ Excessive bureaucracy and procrastination ↓ Inadequate corporate visibility at national, regional and international level ↓ Fragmentation of the different departments ↓ Limited infrastructure and the available is Old and dilapidated ↓	Threats ↓ High dependency on donor support ↓ Lack of a legal status required to support timely decision making ↓ Weak supervision and coordination by UNHRO secretariat ↓ Global financial crisis influences funding ↓ Rapidly changing technologies ↓ Changing research priorities ↓ Potential conflicts in some parts of the country and region ↓ Irregularities in utility supplies (water and electricity) ↓ The agenda created by industrialized countries/donors largely influences the nature of research ↓ Growing competition for resources within a globalized world ↓ Emerging inflationary trend compounded by volatile energy costs in Uganda and globally ↓ Technology obsolescence ↓ Political interference ↓ Potential conflict in some parts of the Great Lakes region

4.7.0 Distinctive Competence

UVRI is currently the only such specialized research institute in Uganda and the Great Lakes Region (GLR) with a large concentration of local and international researchers working in unique collaboration on viral diseases of public health importance. This distinctive competence, if effectively exploited, should give UVRI significant competitive advantage in terms of realizing its vision of becoming a world class centre of excellence in health research.

5.0 Strategic Issues and a Strategic Foci Statement Strategic Issues

A strategic analysis of UVRI revealed eight strategic issues that, if not addressed, will fundamentally impact on UVRI's delivery of her mandate and mission and, consequently, blight her profile among her key stakeholders. Details regarding stakeholders are in appendix 4. The strategic issues are:

- 1. There is overconcentration on HIV/AIDS research hence not fully fulfilling UVRI's mandate and mission, neglecting other prevalent diseases;
- 2. There is inadequate middle level scientific and technical capacity at UVRI, which poses a threat to its growth;
- 3. There is inadequate funding for UVRI which constrains the delivery of its mandate and mission;
- 4. There is currently no centralized and accessible sample repository system, which has constrained proper sample management and utilization;
- 5. There is inadequate dissemination and utilization of its research findings, which constrains its contribution to evidence based policy formulation and practice;
- 6. There is inadequate coordination of programs, projects and core departments leading to replication thereby causing resource wastage and dilution of impact to the population;
- 7. There is inadequate health research workforce in the country and region , which hampers evidence based policy , practice and interventions; and
- 8. There is insufficient infrastructure and human resource, which hold back the ability of UVRI to deliver on her mission.

5.1 Strategic Foci Statement for 2017-2020

5.1.1 Goal

The overall goal of the Revised Strategic and development Plan 2016/17-2019/20 is to reposition UVRI into a dynamic, internationally competitive research institution, contributing as a centre of excellence to the global challenge of addressing an expanded portfolio of diseases in order to achieve the corresponding SDGs and contribute to economic growth and development.

5.1.2 Key Result Areas (KRA)

UVRI has identified eight major key results areas to address the identified strategic issues. These are:

- 1. Diversification of the research portfolio to include other prevalent diseases in order to fulfill UVRI's mandate and mission;
- 2. Attraction, retention and development of a critical mass for middle level scientific and technical staff;
- 3. Contribution to the financial sustainability of UVRI;

- 4. Development of a centralized, accessible and reliable sample repository system;
- 5. Contribution to timely translation of research findings into policy formulation;
- 6. Improvement in coordination of programs, projects and departments; core departments;
- 7. Increased production of health research workforce;
- 8. Expansion and improvement of the Institute infrastructure; and human resources.

5.1.3 Key Result Areas (KRA) and Strategic Objectives

Specific strategic objectives and corresponding strategies were identified to impact on each key result area as follows:

Key Result Area 1	Diversification of the research portfolio to include other prevalent diseases in order to fulfill UVRI's mandate and mission	Baseline 2018	Indicator	Target 2019	Target 2020	Target 2021	Target 2022
Strategic	Increase UVRI's involvement in research on other						
Objective	communicable and non-communicable diseases						
Strategies	 Expand the malaria research capacity Expand on TB research capacity Expand research and surveillance on viral diseases e.g. hepatitis, rota virus, human papilloma virus (HPV) Establish research on non-communicable diseases (NCDs) Investigate factors associated with viral hemorrhagic fever (VHF) outbreaks 						
Key Result	Creation of a critical mass for middle level scientific						
Area 2	and technical staff						
Strategic	To widen the research skills mix for middle level						
Objective	scientific and technical staff						
Strategies	 Strengthen Human resource Planning Strengthen existing mentorship and attachment programs Support training for long and short term courses Jointly develop and conduct trainings in areas of interest for UVRI staff with 						

	relevant research and training institutions Restructure the current establishment Motivate the workforce Streamline Records Management						
Key Result Area 3	Contribution to the financial sustainability of UVRI	Baseline 2018	Indicator	Target 2019	Target 2020	Target 2021	Target 2022
Strategic Objective a)	Widening the financial resource base						
Strategies	 Diversify donor funding Generate income from services rendered Win more grants to increase on the overheads Levy a fee on consultancy services offered by UVRI staff Establish a national sample repository for biotechnology innovation Lobby government for increased funding Levy a fee for training courses conducted Charge sample storage Develop and implement a business model for UVRI Develop a Monitoring and Evaluation Plan 						
Strategic Objective b)	Improve efficiency and effectiveness in the use of						
Strategies	 available resources Strengthen mechanisms for rational utilization of resources Enforce accountability and transparency in the 						

Key Result Area 4	use of resources. Efficiently and Effectively budget for both Project and G.O.U funds Put all UVRI projects on the IFMIS system Development of a centralized, accessible and reliable sample repository system	Baseline 2018	Indicator	Target 2019	Target 2020	Target 2021	Target 2022
Strategic Objective	Improve sample management and utilization.						
Strategies	 Establish a lab information management system (LIMS) Ensure sufficient storage space Reliable power backup system Utilize the available liquid nitrogen capacity for more reliable long term storage Develop an efficient national bio-bank Develop a strategy for sample destruction 						
Key Result Area 5	Contribution to timely translation of research findings into policy formulation						
Strategic Objective	To enhance the profile of UVRI among policy makers						
Strategies	 Develop and operationalize a communication strategy Establish a mechanism at UVRI to develop policy briefs from research findings Contribute to the national knowledge platform for health research agenda, evidence and application in partnership with UNHRO 						

	 Contribute to the national disease surveillance database Operationalize the Research and Grants Support 						
	and Networking Office						
Key Result Area 6	Improvement in coordination of programs and core functions						
Strategic Objective	Optimize information and resource sharing among the different programs and projects	Baseline 2018	Indicator	Target 2019	Target 2020	Target 2021	Target 2022
Strategies	 Streamline roles, functions and responsibilities of the different programs and departments Operationalize the monitoring and evaluation plan Revitalize joint technical, administrative and support meetings Strengthen collaborations with Partners 						
Key Result Area 7	Increased production of health research workforce						
Strategic Objective	To expand the knowledge and skills base for public health research						
Strategies	 Diversify the training portfolio for health research Develop and operationalize quality assurance mechanisms for training Strengthen coordination of training and internship program Enhance collaborative partnerships between UVRI and other training Institutions Conduct open days at UVRI and career talks to 						

	students			
Key Result	Expansion of infrastructural and human resources			
Area 8 Strategic Objective a)	To improve the infrastructural capacity at UVRI			
Strategies	 Develop and implement a UVRI master plan Lobby the Ministry of Finance, Planning and Economic Development, Ministry of Health and development partners to support the expansion of office space, stores, parking space and canteen area Institute a sustainable equipment maintenance program Expand the ICT infrastructure Develop capacity to detect new pathogens 			
Strategic Objective b)	To enhance the human resource capacity at UVRI			
Key Result Area 9	Creation of a business model for UVRI			

Strategies	 Institute performance contracting Operationalize the new organizational structure Review and maintain the short courses to retool staff Continuing professional development should be made mandatory Encourage exchange and sabbatical programs Motivate winners of grants and those that publish in peer review journals 			
Key Result Area 9	Efficient provision of Administration and Management at UVRI			
Strategic Objective a)	To improve the Administration and Management of UVRI			
Strategies	 Develop and implement a UVRI master plan Improve the corporate image of the Institute, rebranding and acquiring a legal status To promote Knowledge transfer partnerships and networking Establish a framework that will enhance collaboration and coordination of partner activities at UVRI Develop policy documents and implement the guidelines there in 			

6.0 Strategic and Development Plan Implementation Critical Assumptions

Successful implementation of the Strategic and Development Plan is predicated on the following pre-conditions:

- i) A supportive legal and policy environment
- ii) Conducive working environment
- iii) Requisite commitment by key stakeholders
- iv) Implementation of the various international and regional declarations on health research to which Uganda is a signatory
- v) Attainment of long term sustainable networks
- vi) Sustainable peace and stability in the country and region
- vii) A committed cohesive UVRI workforce

6.1 Implementation Modalities

A Strategic and Development Plan Implementation Committee headed by the Director and composed of Heads of Departments will be put in place and will work with the Planning Unit to steer the implementation of the Strategic and Development Plan. It is expected that three months prior to the beginning of every financial year, the Committee will be undertaking operational planning to ensure that the strategies in the Strategic and Development Plan are broken down into activities for inclusion into the recurrent budget. For those strategies whose implementation will span several years, detailed projects will be formulated with their corresponding project profiles and logic models.

The Strategic and Development Plan Implementation Committee will develop an implementation matrix as shown in the operational plan template in Appendix 1. The Committee will also put in place a resource mobilization strategy to raise different types of resources to support the implementation of UVRI strategy over the next three years.

7.0 Monitoring and Evaluation Strategy

Effective delivery on the set objectives will be monitored, evaluated and reported based on Objectively Verifiable Indicators (OVIs) that have been identified for each Key Result Area (KRA), strategic objectives and strategies as captured in the logical framework for the Strategic and Development Plan. Provision for frequency of strategic data collection and analysis and the responsibility for collection is included in the logic framework matrix in appendix 2. The logic framework matrix for the Strategic and Development Plan will support results based management at the Institute. The tool therefore provides for monitoring and evaluation at the Institute level. At the micro level, it is expected that the various strategic interventions will each have a logic model to provide for the tracking of outcomes.

Overall organizational oversight is currently provided by the Ministry of Finance, Planning and Economic Development, Ministry of Health and UNHRO through quarterly and annual reporting while regular operational monitoring, performance evaluation and reporting is the responsibility of pertinent committees comprised of top and senior management.

Appendices

Appendix 1: Operational Plan Template for UVRI Revised Strategic Plan 2018-2022

ACTIVITIES	INDICATOR	ACTORS	TARGET/TIME FRAME	5 YEARS ES	5 YEARS ESTIMATED BUDGET					
				2018/19	2019/20	2020/21	2021/2	2022/23		
To recruit staff A) A Communica tion Officer B)		Human Resource Manager	Receipt of funds	USD (TBC)					USD 500 0	GOU and UVRI's partner s
1.1.2 Training the current and new staff	Identify the training needs Develop guidelines for training Send staff for	Training Committee, Human Resource Manager								

training					

Appendix 2: Logical Framework for the Revised UVRI Strategic and Development Plan 2018-2022

<u>Item</u>	Narrative Summary	Objectively	Means/Source	<u>of</u>	Responsibility for collecting	<u>Timeframe for</u>
		Verifiable Indicators	<u>Verification</u>		<u>data</u>	<u>Data Collection</u>
Key Result Are	ea 1:Diversification of the	research portfolio to in	clude other prevale	ent dis	eases in order to fulfill UVRI's ma	ndate and mission
Strategic	UVRI's involvement in	Additional research	Content analysis		Program and Division Heads	1 & Q2 2018
objective 1	research on other	covering four	protocols	and		
	communicable and	diseases	research reports			
	non-communicable					
	diseases increased					
Strategy 1.1	Expand the malaria	At least two malaria	Content analysis		Head of Entomology Division	1 & Q2 2018
	research capacity	related protocols				
		are developed and	protocols	and		
		implemented	research reports			
Strategy 1.2	Expand on TB	At least one TB	Content analysis		Immunology Division	1 & Q2 2018
	research capacity	related protocols	protocols	and		
		developed and	research reports			
		implemented				
Strategy 1.3	Expand research and	At least two	Content analysis		EPI Division; General Virology	1 & Q2 2018
	surveillance on viral	protocols on viral	protocols	and		
	diseases e.g. hepatitis,	diseases are	research reports			
	rota virus,	developed and				
		implemented				
Strategy 1.4	Establish research on	At least one	Content analysis		Head, UVRI Clinic	1 & Q2 2018
	non-communicable	research report on	protocols	and		
	diseases (NCDs)	NCDs is available	research reports			
Strategy 1.5	Investigate factors	At least one	Content analysis		Arbovirology; Emerging and	1 & Q2 2018
	associated with viral	protocol on VHF is	protocols	and	Re-emerging diseases	

<u>ltem</u>	Narrative Summary	<u>Objectively</u>	Means/Source of	Responsibility for collecting	Timeframe for
		<u>Verifiable Indicators</u>	<u>Verification</u>	<u>data</u>	<u>Data Collection</u>
	hemorrhagic fever (VHF) outbreaks	developed and implemented	research reports		
Vov. Bosult	Creation of a critical ma		atific and tachnical staff		
Key Result Area 2	Creation of a critical ma	ss for middle level scier	iunc and technical staff		
Strategic objective 2	the research skills mix for middle level scientific and technical staff widened	8 PhDs & 20 MScs in (immunology, virology, molecular biology, epidemiology) supported	Training reports Doctoral dissertations Master theses/ academic documents	Training Committee & Division	Q3 & Q4 2018
Strategy 2.1	Strengthen existing mentorship programs	4 mentorship program in place At least eight staff mentored	Mentorship needs assessment report Mentorship reports	Head, Training Committee	Ongoing
Strategy 2.2	Support training for long and short term courses	8 PhDs & 20 MScs in (immunology, virology, molecular biology, epidemiology) & 4 short courses supported	Degree certificates Certificates of attendance and certificates of competency	Head,Training Committee and Heads of departments/units	Ongoing
Strategy 2.3	Jointly develop and conduct trainings in areas of interest for	4 partnerships formed	Memoranda of Understanding between UVRI and	Training Committee & Office of Director/Administration	Ongoing

<u>Item</u>	Narrative Summary	<u>Objectively</u>	Means/Source of	Responsibility for collecting	Timeframe for
		Verifiable Indicators	<u>Verification</u>	<u>data</u>	Data Collection
	UVRI staff with relevant research and training institutions		the different research and training institutions.		
Strategy 2.4	Restructure the current establishment	Restructuring Report should be in place	Consultative meetings with key stakeholders and line Ministries Benchmarking with KEMRI and NIMRI and any other relevant Institution	Human Recourse	
Strategy 2.5	Strengthen Human Recourse planning	Recruitment Plan in place Career and Succession plan Retention Plan Disengagement plan . They should be developed and Implemented Automation of Records	Consultative meetings with key stakeholders	Human Resource	
			Needs assessment	Human Recourse	

<u>Item</u>	Narrative Summary	Objectively Verifiable Indicators	Means/Source of Verification	Responsibility for collecting data	<u>Timeframe for</u> Data Collection
Strategy 2.6	Staff Motivation	UVRI Motivation strategy in place	benchmarking		
Key Result Ar	ea 3: Contribution to the	financial sustainability c	of UVRI		
Strategic objective 3.1	The financial resource base for UVRI Widened	The share of non-government funding of UVRI budget increased by 40% by the end of the planning horizon	UVRI budgets	Finance & Administration	Q1 2018 -Q4 2020
Strategy 3.1.1	Diversify donor funding	The share of grants in the UVRI funding base increase by 20% donor	Collaborations /MOUs signed Grant award letters	Finance & Administration	Q1 2018 -Q4 2020
Strategy 3.1.2	Generate income from services rendered	The income generated from services account for at least 25% of UVRI funding base	Financial analysis of UVRI budgets	Finance & Administration	Q1 2018 -Q4 2020
Strategy 3.1.3	Increase overheads on research grants to 10%	Overheads on research grants account for 5% of	Financial analysis of UVRI budgets	Finance & Administration	Q1 2018 -Q4 2020

<u>ltem</u>	Narrative Summary	<u>Objectively</u>	Means/Source of	Responsibility for collecting	Timeframe for
		Verifiable Indicators	<u>Verification</u>	<u>data</u>	<u>Data Collection</u>
		UVRI funding base			
Strategy	Levy a fee on	Fees levied on	Financial analysis of	Finance & Administration	Q1 2018 -Q4
3.1.4	consultancy services	consultancy	UVRI budgets		2020
	offered by UVRI staff	services account for			
		at least 10% of UVRI			
		funding base			
Strategy	Establish a national	Fees earned from a	Financial analysis of	Director, UVRI	
3.1.5	sample repository for	National Sample	UVRI budgets		
	biotechnology	Repository for			
	innovation	Biotechnology			
		innovation account			
		for at least 5% of			
		UVRI funding base			
Strategy	Lobby Government	Government	Financial analysis of	Director General, UNHRO	Q1 2018 -Q4
3.1.6	for increased	funding of UVRI	UVRI budgets		2020
	research funding	research activities			
		increased by 25%			
_		by the end of 2015			
Strategy	Develop a monitoring				
3.1.7	and Evaluation Plan				
Strategy	Win more grants to				
3.1.8	increase overheads				
		C:	CI II (DI		
Key Kesult A	rea 3: Contribution to the	financial sustainability	OT UVKI		
Strategic	Efficiency and	Expenditures on	Financial Analysis of	Director, UVRI; Finance &	Q1 2018 -Q4

<u>Item</u>	Narrative Summary	Objectively	Means/Source of	Responsibility for collecting	Timeframe for
		Verifiable Indicators	<u>Verification</u>	<u>data</u>	Data Collection
objective 3.2	effectiveness in the use of available resources improved	administration related activities reduce by 15%	budgets	Administration	2020
Strategy 3.2.1	Strengthen mechanisms for rational utilization of resources	At least 50% of staff technical and administrative express satisfaction with regard to rational utilization of resources	Interviews with staff	Director, UVRI; Finance & Administration	Q1 2018 -Q4 2020
Strategy 3.2.2	Enforce accountability and transparency in the use of resources.	The number of audit queries reduced by 60% from baseline	Audit reports	Finance & Administration	Q1 2018 -Q4 2020
Key Result Are	ea 4: Development of a ce	ntralized, accessible an	d reliable sample reposit	ory system	
Strategic objective 4. 1	Sample management and utilization improved	Proportion of cultured/dry Income from sample management and utilization accounts for 3% of UVRI funding base	Records of accounts or repository records	Repository manager and grants office	Q1 2018 -Q4 2020
Strategy 4.1	A lab information management system (LIMS) established	At least 75% of the technical staff are using the Lab	Evaluation report % usage of LIMS	Lab Informatics Officer/IT Manager	Q1 2018 -Q4 2020

<u>Item</u>	Narrative Summary	Objectively	Means/Source of	Responsibility for collecting	Timeframe for
		Verifiable Indicators Information Management System	Verification	<u>data</u>	Data Collection
Strategy 4.2	Sufficient storage space ensured	Storage space increase by 30% from baseline	No. of freezers and cold rooms built	Lab management committee	annual
Strategy 4.3 Strategy 4.3	Reliable power backup system in place	Frequency of power outages reduced to maximum of one per month	Power outages reduced to less 60 minutes/month.	Senior Lab Technician/Administration	Q1 2018 -Q4 2020
Strategy 4.4	Utilize the available liquid nitrogen capacity for more reliable long term storage	Purchase large volume liquid nitrogen storage tanks	Number of Liquid nitrogen tanks available	Maintenance Officer, Finance &Administration Officers	Q1 2018 -Q4 2020
Key Result Are	ea 5: Contribution to time	ly translation of researd	ch findings into policy form	mulation	
Strategic objective 5.	UVRI contribution to policy enhanced as well as its profile	Comprehensive regime of approved policies in place and being implemented to improve public health	Annual reports, policy briefs, & quarterly news letters	Communication and knowledge management officer	Annual
Strategy 5.1.	Establish a mechanism at UVRI to	Number of policy briefs to MOH &	Policies or change of practice by	Administration & UNHRO	Annual

<u>Item</u>	Narrative Summary	<u>Objectively</u>	Means/Source of	Responsibility for collecting	Timeframe for
		Verifiable Indicators	<u>Verification</u>	<u>data</u>	Data Collection
	develop policy briefs	UNHRO	MoH/UNHRO in place		
	from research findings		based on UVRI results		
Strategy 5.2	Develop and operationalize a communication strategy	Functional communication strategy in place	Communication improved	Communication and knowledge managent officer	Once in three years
Strategy 5.3	Contribute to the national knowledge platform for health research agenda, evidence and application	Regular performance reports	No. of reports	Administration & Departments	Annual
Strategy 5.4	Contribute to the national disease surveillance database	Reports submitted & feedback obtained	Records & report at National Disease Control unit-MoH	Administration	Annual
Strategy 5.5	Operationalize the Research and Grants Support and Networking Office			Planning	
Key Result Are	ea 6: Improvement in coo	rdination of programs a	and core functions		
Strategic	Information and	Regular meetings of	Minutes & annual	Administration &	Weekly, monthly
Objective	resource sharing	concerned parties	reports	Departments	& annual

<u>Item</u>	Narrative Summary	<u>Objectively</u>	Means/Source of	Responsibility for collecting	Timeframe for
		Verifiable Indicators	<u>Verification</u>	<u>data</u>	<u>Data Collection</u>
6.1	among the different programs and projects optimized				
Strategy 6.1	Streamline roles, functions and responsibilities of the different programs	Clear MOUs	Copies of MOUs in soft & hard form	Administration	As & when MOUs are signed
Strategy 6.2	Operationalise the monitoring and evaluation unit	M& E activities included in all programs	Reports of M&E in all programs	M&E Officer	As & when a project/program begins
Strategy 6.3	Revitalise joint technical, administrative and support meetings	Regular meetings	Minutes & reports	Administration	Weekly, monthly, quarterly, bi- annual & annual
Strategy 6.4	Strengthen collaborations with Partners				
Key Result Are	ea 7: Increased production	n of health research wo	orkforce		
Strategic objective 7.1	The knowledge and skills base for public health research expanded	Increased application in PHR	Grants submitted and # funded	Training Officer	As & when training ends

<u>Item</u>	Narrative Summary	Objectively	Means/Source of	Responsibility for collecting	Timeframe for
		Verifiable Indicators	<u>Verification</u>	<u>data</u>	<u>Data Collection</u>
Strategy 7.1	Diversify the training portfolio for health research	% training by HR in PHR	Certificates/degrees	Training Officer	As & when training ends
Strategy 7.2	Develop and operationalize quality assurance mechanisms for training	Budget framework papers & training work plan	Quality reports	Training Officer	As & when training ends
Strategy 7.3	Strengthen coordination of training programs	Budget framework papers & work plan	Quarterly reports	Training Officer	annual
Strategy 7.4	Enhance collaborative partnerships between UVRI and other training institutions	# collaborative research conducted	Copies of MOUs, reports, publications	Training Officer & Administration	As & when MOUs have been signed
Strategy 7.5	Conduct open days at UVRI and career talks to students and a research symposium annually				
Key Result Are	ea 8: Expansion of infrastr	uctural and human reso	ources		
Strategic	The infrastructural capa	ncity Functional	Records, Inventory	UNHRO, MoH, UVRI	Annual

<u>Item</u>	Narrative Summary	Objectively	Means/Source of	Responsibility for collecting	Timeframe for
		Verifiable Indicators	<u>Verification</u>	<u>data</u>	Data Collection
Objective 8.1	at UVRI improved	/RI improved infrastructure amd pit[it			
Strategy 8.1.1	Develop and implemen UVRI master plan	t a Functional master plan	Plan implemented	UNHRO, MoH, UVRI	Annual
Strategy 8.1.2			Inventory and samples in repository of pathogens	Departments / Labs	Annual
Strategy 8.1.3	Institute a sustaina equipment maintena program		Report showing Program implemented on time	Maintenance officer	annual
Strategy 8.1.4	Expand the infrastructure	ICT Required items bought and installed	Inventory of ICT Equipment	IT Manager	Annual
Strategy 8.1.5	Lobby the Ministry Health and developm partners to support expansion of office spa stores, parking space a canteen area	the funding ce, increased	Required space and structures provided	Director General, UNHRO; Director, UVRI	Annual
Strategic objective 8.2	The human resou capacity at UVRI enhanc		Performance Contracts Inventory of short & long term courses	HR office & Administration; Director, UVRI; Director General, UNHRO	Annual

<u>Item</u>	Narrative Summary	Obj	ectivel <u>y</u>	Means/Source	ce of	Responsibility for collecting	Timeframe for
		Veri	fiable Indicators	<u>Verification</u>		<u>data</u>	Data Collection
Strategies	Institute performa	nce	Signed	Reports	and	HR Office; Director, UVRI;	Annual
8.2.1	contracting		contracts	Appraisals		Director General, UNHRO	
Strategies	Review and maintain	the	% of in service	Certificates	and	Training committee	Annual
8.2.3	short courses to re	tool	training	reports			
	staff		conducted	Inventory	of short		
			annually	courses			

Appendix 3: Pillars of the Uganda National Health Research Organisation

Uganda National Health Research Organisation Strategic Plan 2010/11 - 2014/15

STRATEGIC FRAMEWORK

Vision:

A. culture in which health policy and application is driven by research evidence to improve health and socioeconomic development for the people of Usanda.

Mission:	Mission: To provide stewardship for the coordination and conduct of quality health research and its application in the country									
Pillar 1 Health Research System	Pillar 2 Health Research Management	Pillar 3 Partnership and Collaboration	Pillar 4 Information Management Systems and Evaluation	Pillar 5 Resource Management	Pillar 6 Research Innovations and Products					
SO1: To strengthen leadership and governance in health research	SO2: To improve institutional research Management systems	SO3: To promote partnerships for research and development	SO4: To strengthen health research information management and knowledge translation	SO5: To establish sustainable financial, human resources and logistical system	SO6: To develop and commercialise innovations and products to improve health care delivery					
SA1: Streamline roles, functions, responsibilities and authority within UNHRO, UNCST and affiliated institutions SA2: Develop and implement a national health research plan with specific priority areas SA3: Develop management systems and tools to support governance and leadenship SA4: Develop skills for leadenship and management and technical support supervision SA5: Strengthen transparency and advocacy	SA1: Develop and mainstream an othical code of conduct for health research. SA2: Develop an overarching framework for technical supervision, Menitoring and Evaluation at all levels. SA3: Develop and maintain mechanisms for quality assurance in research.	SA1: Preactively engage existing and potential partnerships in national health agends. SA2: Develop communication and information exchange mechanisms to support collaboration at all levels. SA3: Develop a framework for stakeholders cooperation and coherence at all levels.	SA1: Develop a data management system for the collation, analysis, atonge, archiving, and retrieval of information. SA2: Develop dissemination mechanisms, fore and communication networks for sharing of research findings SA3: Set-up a national knowledge translation platform for health research evidence and application. SA4: Train policy makers and use of research evidence	SA1: Develop and implement financial plan SA2: Exercise prudence in deployment, use and accountability of financial resources SA3: Develop and implement a human resource expanity building plan SA4: Mainstream basic, specialised and advanced health research training acress disciplines SA5: Invest in infrastructure through phased rehabilitation and medemisation, pre-current of legistics and equipment	SA1: Harness and innovate locally appropriate technologies and tools in in health case delivery systems SA2: Develop traditional and complementary medicine for application and integration into health case delivery SA3: Support the commercialisation of new tools, innovations, and technologies in health case including the protection of intellectual property rights and other incentives SA4: Enact appropriate enabling legislation on traditional and complementary medicine					
Core Values	Integrity and accountability	Community	responsiveness	Competitiv	eness					

SO = Strategic Objective SA = Strategic Action

Appendix 4: Stakeholder Analysis Table for UVRI

Stakeholder	Stakeholder relationship and Role	Performance criteria	UVRI performance according to criteria	What UVRI should do to improve performance	Expectations of UVRI from stakeholders	What UVRI should do to realize its expectations from stakeholders
Staff	- Employees Lead, investigate and implement organizational objectives - Designers and implementer of activities	 Regular staff appraisals Developed protocols Funded protocols Reports and Publications How well staff perform according to job description 	Targets set	 Capacity building of staff Provide appropriate terms and conditions of service(incentives) Conduct regular staff appraisals Staff should be informed regularly In service training, good remuneration package, provide equipment and other protective gear, office space 	Embrace the vision, mission and uphold core values To perform and meet targets Dedication	Create a beneficial working environment for conducting health research Institute annual performance agreements Conducting regular reviews and performance appraisals
On campus collaborators	Providing funds and they are co implementers	Level of funding Research output Level of capacity building met	Level of funding Research outputs	Maintain cordial mutually beneficial relationship	Full cooperation and focus on capacity building of staff and infrastructure	Scaling up joint research Improved communication and Visibility of UVRI

Stakeholder	Stakeholder	Performance	UVRI	What UVRI should do to	Expectations of	What UVRI should do
	relationship	criteria	performance	improve performance	UVRI from	to realize its
	and Role		according to		stakeholders	expectations from
			criteria			stakeholders
UNHRO	Oversight	Funds raised	UVRI Strategic	Be responsive to UNHRO	Funding from	Implementing
	coordinating &	and guidance	and	research agenda and	GoU support	research agenda
	supervision	provided	Development	perform within the	for grants,	A -
	role for health		Plan is in line with UNHRO	provision of the UNHRO	MOU and	Adherence to/policies and guidelines
	research		one	Act 2011	constituencies	and guidennes
МОН	Provision of	Funds and other	Priority	Dialogue with policy	Required	Conduct business in
	resources,	resources	research	makers to conduct	resources	accordance with
	setting policy	provided	conducted;	relevant research	provided,	UHRO Strategic and
	and standards	Policies and	other	participate in outbreak	political and	Development Plan,
		standards	functions of	investigations, develop	support	NH policy, HSSIP and
		developed	public health	appropriate	supervision	NDP, collaborate and
			institutions	interventions/innovations	provided	support other health
			implemented			institutions
MFPED	Implement	UVRI funded		Through UNHRO	Adequate	Using funds as
	Abuja	adequately,		continue lobbying for	funding;	expected;
UNCST	declaration,	research		funds;		Produce high quality
	collaboration	conducted		Active member of UNCST	Support for	research
	with UNHRO in	according to			research	
	providing	national			conducted	
	oversight	Guidelines				
Other	Collaborate	Collaborate	Multisectoral	Maintain good working	Tap UVRI	Develop joint

Stakeholder	Stakeholder	Performance	UVRI	What UVRI should do to	Expectations of	What UVRI should do
	relationship	criteria	performance	improve performance	UVRI from	to realize its
	and Role		according to		stakeholders	expectations from
			criteria			stakeholders
ministries &	wand provide	research to	research with	relationship	expertise in	research proposals
Government	conducive	improve public	multiple		various fields	
Departments	environment	health	impact			
Academia	-Collaborate	Collaborative	Join grants	Effective MOU share	Efficient	Mutual respect;
	with UVRI,	research	obtained	equipment;	collaboration;	Open door policy to
		conducted			Critical mass of	use of facility not
	-Provide		Number of	Exchange visit;	scientists	available at their
	honorary	Number of staff	staff			campus
	appointments	with honorary	appointed	Provide expertise where	Utilization facilities reasonable	Joint mentorship and
		appointment		needed		supervision
	-Supervision of		Number of		reasonable	Joint application for
	PhD, post-	Number of	students			funds;
	doctoral and	students co-	jointly			Complementarity
	master's	supervised	supervised			rather than
	students					competition

Appendix 5: Organizational Structure for UVRI

