

KENYA MEDICAL RESEARCH INSTITUTE

STRATEGIC PLAN

2023-2028

Theme

"Innovative Human Health Research for Sustainable Health Outcomes"

Motto

In search of better health



VISION

Global Leader in Research for Human Health

MISSION

To improve the quality of human health through research, innovation, capacity development and service delivery

CORE VALUES

Integrity Excellence

Innovativeness Partnership

Ethical Teamwork

Customer focus Inclusivity

Patriotism

FOREWORD



The Board of Directors, Management and Staff of Kenya Medical Research Institute (KEMRI) are pleased to present the Fifth Strategic Plan for the period 2023/24 – 2027/28.

Development of this strategic plan recognises that Health is both a basic human right and a pre-requisite to all forms of human development as enshrined in the Kenya Constitution 2010.

The goal of Kenya's vision 2030 for the health sector is to "provide equitable and affordable health care at the highest affordable standard to her citizens". Good health is expected to play an important role in boosting economic growth, poverty reduction and in the realization of social goals as emphasized under the Sustainable Development Goal 3. The SDG 3 further seeks for more research and development, increased health financing and strengthened capacity of all countries in health risk reduction and management. The above right and goal can only be realized through use of high-quality research-oriented decision making to achieve equitable and accessible health care for all.

KEMRI is mandated to provide solutions for health challenges through conducting research that will result in changes in policy, practice and providing innovative products for diagnosis, treatment and prevention of diseases. This has been demonstrated over the years where the Institute has surpassed its expectation through ground breaking research findings that led to reduction of malaria incidence through research on bed nets and vaccine, treatment and management of tuberculosis and HIV, development of diagnostic kits, response to disease outbreaks and capacity building through postgraduate trainings.

The strategic plan builds on recent achievements realized by the institute including establishment of a centre of excellence in stem cell research which provides a platform for stem cell research and regenerative medicine that will provide innovative solutions in the management of non-communicable diseases. Innovations arising from research work will be patented and commercialized.

This plan lays a firm foundation for development of research products that will support realization of Universal Health Coverage (UHC) and Bottom-Up Economic Transformation Agenda (BETA) through establishment of a Bio-manufacturing Training Hub. The goal of this initiative will be to develop expertise and offer advisory support in bio-manufacturing ecosystem.

In order to realize the objectives set out in this strategic plan, the Institute will seek to strengthen and expand strategic partnerships and collaborations in order to broaden the approach towards addressing existing and emerging health challenges. The

partnership will also provide an opportunity to review and reengineer business processes in order to optimize research output and establish a resilient organization.

I look forward to receiving support from the KEMRI fraternity and stakeholders in implementing this shared vision. I truly acknowledge and appreciate all those who took part in the development of this Strategic Plan.

Dr. Abdullahi Ali Ibrahim

Chairman, KEMRI Board of Directors

PREFACE AND ACKNOWLEDGEMENT



Kenya medical research Institute (KEMRI) has an overall mandate of conducting health, biomedical and public health research for human health; build human health research capacity; Collaborate and partner with other local and international research bodies and institutions in carrying out human health research and capacity building; advice the government on health research policies and priorities; undertake scientific and technological innovation, establish incubation Centres for innovation, and link research, policymakers, academia and industry in the health products value chain.

The Strategic Plan 2023-27 is a successor of the strategic plan 2018-23 which has guided the Institute over the last five years in achieving milestones in executing its mandate. Notably, the Institute provided critical support during the Covid 19 pandemic through testing, surveillance and sequencing to identify genome lineage of the virus in circulation. The Institute also conducted studies that led to development of policy briefs that informed policy development, review and implementation.

The Institute seeks to build on this success through development of a robust strategic plan 2023-27. While developing the plan, situation analysis was undertaken using SWOT and PESTEL tools which identified key strategic issues that informed development of strategic goals and strategic objectives. Some of the key issues identified included the need to increase investment in research and development, adoption of new cutting edge technologies, strengthening Knowledge Management and Knowledge Translations, enhancing research partnerships and collaborations, upgrading research and support infrastructure, reengineering business processes and review of institutional legal framework to ensure KEMRI is established through an Act of parliament. In order to address holistically the issues identified, the strategic plan adopted the Balanced Scorecard Approach in defining Key Result Areas (KRA's) and strategic objectives. The Goal for this strategic plan period is;

"To be the regional hub for health research knowledge, actively translating health research and innovation into sustainable, tangible benefits for both patients and society by the year 2028."

This goal will be realized through the following strategic objectives;

- i) Strengthen clinical, biomedical, public health and health system research for human health
- ii) Build data science and knowledge management systems
- iii)Undertake scientific and technological innovation
- iv)To strengthen disease surveillance systems

- v) Build human health research capacity
- vi) To strengthen and establish strategic partnership and collaboration
- vii) Enhance Financial Sustainability
- viii) Re-engineer internal business processes
- ix) Build institutional human capital
- x) Establish and upgrade infrastructure
- xi) Establish resilient ICT systems
- xii) Strengthen planning, monitoring and evaluation

Clear resource mobilization and coordination mechanisms have been outlined to ensure successful implementation of this strategic plan.

I acknowledge the input from the Board of Directors, KEMRI Management, staff and other stakeholders who participated in the development of this strategic plan. Special thanks goes to the Directorate of Strategy and Compliance for its role in coordinating development and ensuring successful delivery of the strategic plan. To all our KEMRI staff, let us roll up our sleeves and execute the strategic initiatives mapped out in this plan in order to realize our vision "Global Leader in Research for Human Health"

Prof. Elijah Songok Ag. Director General and Chief Executive Officer

TABLES OF CONTENT

FOREWORD	iii
PREFACE AND ACKNOWLEDGEMENT	v
DEFINITION OF CONCEPTS AND TERMINOLOGIES	ix
ACRONYMS AND ABBREVIATIONS	x
EXECUTIVE SUMMARY	xii
CHAPTER ONE:INTRODUCTION AND BACKROUND	1
Overview	1
1.1 Strategy as an Imperative to Organizational Success	
1.2 The Context of Strategic Planning	
1.2.1United Nation 2030 Agenda for Sustainable Development	
1.2.2African Union Agenda 2063	
1.2.3East African Community Vision 2050	
1.2.4The Constitution of Kenya	
1.2.5Kenya Vision 2030, Bottom up Economic Transformation and Fourth Mediu	
Term Plan	
1.3 Sector Policies and Laws	
1.4 History of KEMRI	
1.5 Methodology of Developing the Strategic Plan	
CHAPTER TWO:SITUATIONAL AND STAKEHOLDER ANALYSIS	
Overview	
2.1 Situational Analysis	
2.1.1External Environment Analysis	
2.1.1.1 Macro-environment	
2.1.2Summary of Opportunities and Threats	
2.1.3Internal Environment Analysis	
2.1.4Summary of Strengths and Weaknesses	
2.1.5 Analysis of Past Performance	
2.2 Stakeholder Analysis	32
CHAPTER THREE:STRATEGIC DIRECTION	
Overview	35
3.1 Mandate	35
3.2 Vision	35
3.3 Mission	
3.4 Strategic Goal	35
3.5 Core Values	36
3.6 Quality Policy Statement	36
3.7 Strategic Issues	
3.8 Key Result Areas (KRA)	
3.9 Strategic Choices	
CHAPTER FOUR:IMPLEMENTATION AND COORDINATION FRAMEWORK	
Overview	41

4.1 Implementation Plan	41
4.1.1Action Plan	41
4.1.2Annual Work plan and Budget	41
4.1.3Performance Contracting	41
4.2 Coordination Framework	42
4.3 Risk Management Framework	43
CHAPTER FIVE: RESOURCE REQUIREMENTS AND MOBILIZATION STRATEGIES	46
Overview	46
5.1 Financial Requirements	46
5.2 Resource Mobilization Strategies	48
5.3 Resource Management Strategies	48
CHAPTER SIX:MONITORING, EVALUATION AND LEARNING	49
Overview	49
6.1 Monitoring Framework	49
6.2 Performance Standards	49
6.3 Evaluation Framework	50
6.3.1Medium Term Review	50
6.3.2End- Term Evaluation/Terminal Review (TR)	51
6.4 Reporting Framework and Feedback Mechanism	51
6.5 Key Assumptions	52
ANNEX I: IMPLEMENTATION PLAN	53

DEFINITION OF CONCEPTS AND TERMINOLOGIES

Data Analytics: It's the science of analysing raw data to draw conclusions

for decision making

Diagnostic kits: An equipment, method or system used to discover what ails

a patient.

Data Science: It's the study of data to extract useful insight for business

or decision making

Key Results

Area:

Results It's a section or area of business where the organization aim to achieve strong positive outcomes in pursuit of

corporate goals

Emerging Issues:

This refers to recent occurrences /events /phenomena which might impact the sector negatively or positively. They include environmental, policy, legal, technological,

economic, political, social and cultural

Outcome

Indicator: Mainstreaming:

The overall product resulting directly from the implementation of activities defined within a procedure It's the process of making something start to be

considered normal

Outcomes Indicator:

Measure of the benefits that a project or intervention is

designed to deliver

Strategic Issues:

The fundamental policy choices or critical challenges that must be addressed in order for the organization to achieve its vision or foundation upon which strategies are

developed

ACRONYMS AND ABBREVIATIONS

AIA - Appropriation In AidAWPs - Annual Work Plans

CBRD - Centre for Biotechnology Research and Development

CCR - Centre for Clinical Research
 CDC - Centre for Disease Control
 CEO - Chief Executive Officer

CGHR - Centre for Global Health Research

CIPDCR - Centre for Infectious and Parasitic Diseases Control Research

CMR - Centre for Microbiology Research

CRDR - Centre for Respiratory Diseases Research

CPHR - Centre for Public Health Research

CTMDR - Centre for Traditional Medicine and Drugs Research

CVR - Centre for Virus Research

DESI - Department of Epidemiology Statistics and Informatics

DG - Director General

DHSS - Demographic Health Surveillance Systems

EAC - East Africa Community

EAHRC - East Africa Health Research Commission

ECDTP European and Developing countries Clinical Trial Partnership

ERP - Enterprise Resource Planning

FGDs - Focus Group Discussions

FHC - Finance Human Resource Committee

GoK - Government of KenyaHR - Human Resource

HQ - Head Quarters

ICD - Institutional Capacity Development

ICT - Information Communication Technology

IRB - Institution Review Board

JOOTRH - Jaramogi Oginga Odinga Teaching and Referral Hospital

ISO - International Organization for standardization

KDHS - Kenya Demographic Health SurveysKEMRI - Kenya Medical Research Institute

KGS - KEMRI Graduate SchoolKNH - Kenya National Hospital

KRAs - Key Results Areas

KUTRH - Kenya University Teaching and Referral Hospital

MOH - Ministry of Health

MoUs - Memorandum of Understanding

MTPs - Medium Term Plans

MTRH - Moi Teaching and referral Hospital

NPHI - National Public Health Institute

NTD - Neglected Diseases

PESTLE - Political, Economic, Social, Technological, Legal and Ecological

QA - Quality AssuranceQC - Quality ControlQI - Quality Insurance

RFID - Radio Frequency Identification

SCAC - State Corporations Advisory Committee

SDGs - Sustainable Development GoalsSERU - Scientific and Ethical Review Unit

SI - Strategic InterventionSLA - Service Level Agreement

SMRF - Sample Management Repository Facility

SO - Strategic Objective

SPC - Strategic Plan CommitteeSSC - Scientific Sterling Committee

STI - Science, Technology and Innovation

SWOT - Strengths Weaknesses Opportunities Threats

UHC - Universal Health Coverage

TORs - Terms of References

EXECUTIVE SUMMARY

Kenya Medical Research Institute (KEMRI) operates under Legal Notice No. 35 of March 2021. The legal notice spells out the mandate of the Institute as "To conduct health, biomedical and public health research for human health; Build human health research capacity; Collaborate and partner with other local and international research bodies and institutions in carrying out human health research and capacity building; Advice the responsible Ministry in matters pertaining to health research policies and priorities; Undertake scientific and technological innovation involving discovery, transmission and enhancement of knowledge and stimulate the intellectual life in the economic, social, cultural, scientific, and technological development; Establish incubation Centres for innovation, and link research, policymakers, academia and industry in the health products value chain; and other things that are necessary or desirable to carry out its functions.

The KEMRI's strategic plan 2023-2028 provides a framework that will guide the Institute for the next five years and is built on the progress made in implementation of the Strategic Plan 2018-2023. The new strategic direction has been aligned to support industry players in delivering health aspirations as provided for in the United Nations Sustainable Development Goals (SDG), African Union 2063 Agenda, East African Vision 2050, Kenya Vision 2030, Bottom-Up Economic Transformation Agenda (BeTA) and Fourth Medium Term Plan (MTP IV). In formulating the strategic model, the Institute's mandate and strategic issues that emerged after scanning of the external and internal environment were taken into consideration.

The Institute vision is "To be a Global Leader in Research for Human Health", while the mission is "To improve the quality of human health through research, innovation, capacity development and service delivery". The core values that will guide the strategy implementation are Accountability and Integrity, Innovativeness, Teamwork, Professionalism, Equity and Inclusivity and Customer focus.

The identified strategic issues influenced the formulation of strategic goal, Key Results Areas (KRAs), strategic objectives, strategies and key activities. The strategic goal is to "be the regional hub for health research knowledge, actively translating health research and innovation into sustainable, tangible benefits for both patients and society by the year 2028."" and the KRAs are: -

- i) Research for Health
- ii) Innovation and Product Development
- iii) Disease Surveillance and Response
- iv) Research Capacity Building
- v) Financial Sustainability
- vi) Institutional Strengthening

In order to realize the KRAs above, the following twelve (12) strategic objectives were identified;

- 1. To strengthen clinical, biomedical, public health and health system research for human health;
- 2. To build data science and knowledge management systems
- 3. To undertake scientific and technological innovation;
- 4. To strengthen disease surveillance systems
- 5. To build human health research capacity.
- 6. To strengthen and establish strategic partnership and collaboration
- 7. To enhance financial sustainability
- 8. To re-engineer internal business processes
- 9. To build institutional human capital
- 10. To establish and upgrade infrastructure; and
- 11. Establish resilient ICT systems
- 12. To Strengthen planning, monitoring and evaluation

This strategic plan is organized into eight chapters. Chapter one provides introduction and institutional background and discusses the place of KEMRI in relation to national, regional and international health research agenda. It also discusses the history of KEMRI and methodology adopted in developing this strategic plan. Chapter two details situational and stakeholder analysis by describing the external environmental factors, summary of opportunities and threats as well as internal environmental analysis together with a summary of strength and weaknesses. A review of performance of the previous strategic plan 2018-2022 was also conducted which highlights key achievements, challenges, lessons learnt. The chapter also presents stakeholder analysis and governance and administrative structures. Chapter three focuses on strategic direction by providing the mandate, vision, mission, strategic goal, core values, quality policy statement and Key Result Areas (KRAs). The chapter also presents the conceptual framework and the identified strategic objectives that shall be pursued over the next five years 2023-2028. Chapter four presents the implementation and coordination framework, implementation plan, action plan, annual work plans and budget including the performance contracts. In addition, the chapter details coordination framework by discussing institutional framework, staff establishment, skills sets and competence development, leadership, systems, procedures and risk management framework. Chapter five provides resource requirements and mobilization strategies. In this chapter annual financial requirements are projected for each KRA while discussing resource mobilization and resource management strategies. Finally, Chapter six presents the monitoring, evaluation and reporting framework, performance standards, reporting framework and feedback mechanisms.

An implementation matrix which aligns strategic objectives with strategies, activities, annual targets, budgets and responsible offices has been annexed.

CHAPTER ONE INTRODUCTION AND BACKROUND

Overview

This chapter provides the background of Kenya Medical Research Institute (KEMRI), its mandate and functions as well as Global, Regional and National Development Issues. The chapter also provides a detailed analysis of the KEMRI's Development Role vis-à-vis the National Development Agenda.

1.1 Strategy as an Imperative to Organizational Success

In developing strategies for human health research, international standards that will ensure quality research is undertaken and platforms for continuous improvement have been observed. World class health research and quality data plays a central role in development, review and implementation of health policies and practices. These high standards can only be realized through increased strategic partnerships, investments in health research and adoption of best practices. The strategies developed in this plan will ensure Institute's systems and processes are reengineered, automated and digitized in order to achieve efficiency and effectiveness in research, capacity building and service delivery. Institutional capacity has also been assessed and strategies developed to ensure human, infrastructure and financial resources are developed over the plan period.

Collaboration with government agencies and county governments as well as other partners to implement and attain the highest possible level of Universal Health Coverage and Bottom UP economic transformative agenda will be embraced.

1.2 The Context of Strategic Planning

This strategic plan has been developed taking into consideration the national development and health research priorities, regional and international development agenda.

1.2.1 United Nation 2030 Agenda for Sustainable Development

Kenya operates within the global and the regional environment and thus the need for alignment of the National and Institutes development plans to the global and regional development agenda. Universal health coverage (UHC) has been adopted as Target 3.8 of the Sustainable Development Goals (SDGs), with a clear goal of ensuring that individuals and communities receive the health services they need without suffering financial hardship. This includes provision of essential, quality health services, from health promotion to prevention, treatment, rehabilitation, and palliative care. Progress towards UHC will ensure progress towards other health related targets, and towards equity and social inclusion. KEMRI is strongly involved in spearheading research in UHC and supporting the government in implementation of UHC programmes.

1.2.2 African Union Agenda 2063

The African Union Agenda 2063 is Africa's blueprint and master plan for transforming Africa into the global powerhouse of the future. It is the continent's strategic framework that aims to deliver on its goal for inclusive and sustainable development and is a concrete manifestation of the Pan-African drive for unity, self-determination, freedom, progress and collective prosperity pursued under Pan-Africanism and African Renaissance

Arising from the Agenda 2063, Africa Health Strategy (2016-2030) was developed and adopted in line with SDGs which recognises the importance of investment in research and innovation for tackling the challenges that the African continent is grappling with. The Strategy recognizes the need to institutionalize mechanisms for defining, producing and utilizing African research in ways that can transform the health sector as well as the African economy and society as a whole. Achieving health goals and targets requires matched investment in research and innovation in order to improve access to medical technologies and products. The strategy further calls for empowerment of local research institutions, setting up of innovation hubs and allocation 1% of the national GDP for research and innovative as envisioned in the Science, Technology and Innovation Strategy for Africa 2014–2024.

KEMRI partners with Africa CDC through the Eastern Africa Regional Coordination Centre in strengthening surveillance and laboratory systems, response to disease outbreaks and other public health emergencies including viral hemorrhagic fevers.

1.2.3 East African Community Vision 2050

The Vision of the East African Community (EAC) is to attain a prosperous, competitive, secure and politically united East Africa. The Mission is to widen and deepen economic, political, social and cultural integration in order to improve the quality of life of the people of East Africa. The EAC made a commitment to improve human health by putting in place programmes and projects that will ensure realization of SDG Goal no 3 which is to "To ensure health lives and promote wellbeing for all ages" and Goal No 13 "Take urgent action to combat climate change and its impacts" through One Heath approach to Research.

KEMRI will play a key role in contributing to policies aimed at increasing life expectancy, reduction of communicable and non-communicable diseases and access to health services. To realise this, KEMRI will develop robust platforms for vaccines and drug development and put in place Health and Demographic Surveillance System (HDSS) to serve as a platform for conducting clinical trials, nested studies and disease surveillance.

1.2.4 The Constitution of Kenya

The Constitution of Kenya 2010, under the Bill of Rights, gives the citizens the right to the highest attainable standards of health in line with the WHO Constitution which declares health a fundamental human right. KEMRI contributes to this constitutional provision of highest attainable level of health through research and innovation, training and capacity building, provision of specialized laboratory and clinical services to the citizens.

1.2.5 Kenya Vision 2030, Bottom up Economic Transformation and Fourth Medium Term Plan

1.2.5.1 Kenya Vision 2030

The Kenya Vision 2030 blueprint aims to provide an efficient and high-quality health system with the best standards. This aims to actualize a healthy, productive and globally competitive nation since a healthy population is necessary for improving productivity. The Government of Kenya has continued to invest in the health sector to facilitate the well-being of its citizens by bringing quality health care services closer to the people; ensuring sustainability of the nation's human capital base required for sustainable economic growth.

In order to implement Vision 2030 aspirations, the health sector has provided a policy framework to facilitate the attainment of the highest possible standard of health to meet the aspiration of the Constitution of Kenya. The policy is responsive to the needs of the population and focuses on key areas of health services such as population coverage, access to quality services with adequate financial risk protection. The Kenya Health Policy (KHP) 2014-2030 provides for attainment of the highest possible standards of health in a manner responsive to the health needs of the population. The Health Sector priorities are geared towards achievement of the Sector development agenda, which will be achieved through full implementation of Universal Health Coverage (UHC).

The Institute contributes to achievement of the social pillar of the vision 2030 whose goal is to build a just and cohesive society that enjoys equitable social development in a clean and secure environment. KEMRI's ongoing projects in contributing to the social pillar are;

- i) Establishment of Centre of Excellence for Stem Cells Research, Synthetic Biology and Regenerative Medicine to address the need for new therapeutic and interventional approaches to Non-Communicable Diseases (NCDs);
- ii) Development of Indigenous Technologies for the Manufacture of Niche Products.

1.2.5.2 Bottom up Economic Transformation Agenda (BETA)

The country in the recent past has been confronted by three challenges that have converged into the perfect economic storm. The first is an external shock of rising inflation and interest rates, occasioned by Covid19 related global supply chain

bottlenecks, the economic stimulus spending in the major economies, and the Ukraine Russia conflict.

To address these challenges, the government adopted the Bottom-Up Economic Transformation Agenda (BETA) whose main objective is to improve the livelihoods and welfare of Kenyans. The agenda focuses on five pillars that are expected to have the highest impact at the bottom of the economy. These are: Agricultural Transformation and Inclusive Growth; transforming the Micro, Small and Medium Enterprise (MSMEs) Economy; Housing and Settlement; Healthcare; and Digital Superhighway and Creative Economy.

According to Kenya Kwanza Manifesto 2022-2027¹, KEMRI's direct contributions to the healthcare pillar will specifically focus on: -

- i) Delivering Universal Health Coverage;
- ii) Working with the pharmaceutical industries to identify and upscale manufacture of essential supplies competitively;
- iii) Leveraging on our human capital to work towards a regional pharmaceutical manufacturing hub;
- iv) Aim to bring the cost of treatment down (Drugs, consultations, laboratory services and imaging services) through innovative research products;
- v) Establishment of Bio-manufacturing Training Hub to develop expertise and offer advisory support in bio-manufacturing ecosystem.

1.2.5.3 Fourth Medium Term Plan of Kenya Vision 2023-2028of Kenya Vision 2030

The Medium Term Plan 2023-2028(MTP-IV) adopted the theme "Accelerating socioeconomic transformation to a more competitive, inclusive and resilient economy". MTP IV identifies the following key priority projects for implementation by KEMRI;

- Development of health technologies, solutions and products through research and innovation;
- ii) Establishment of Centre of excellence in Precision Medicine;
- iii) Automation and Integration of Research Data; and
- iv) Construction of state-of-the-art Research Laboratories.

1.3 Sector Policies and Laws

The Kenya Health Policy 2014–2030 gives direction to ensure significant improvement in the overall status of health in Kenya in line with the Constitution of Kenya 2010, the country's long- term development agenda, Vision 2030 and global commitments. It demonstrates the health sector's commitment, under the government's stewardship,

¹ https://www.scribd.com/document/581544827/Kenya-Kwanza-Manifesto-2022

to ensuring that the country attains the highest possible standards of health, in a manner responsive to the needs of the population.

The Health Policy outlines eight orientations or key action areas among them Research and Development where investments will be made to facilitate the attainment of the policy objectives. The Research and Development area focuses on creation of a culture in which research plays a significant role in guiding policy formulation and action to improve the health and development of the people of Kenya.

In order to realize this policy objective, KEMRI has developed a comprehensive framework under which the Institute will carry out research, capacity building and service delivery in the country's forty-seven Counties. The framework provides seven clusters which play a pivotal role in planning and implementation of research programmes and subsequent uptake of research findings through policy review and implementation.

Through these clusters, KEMRI will establish partnerships and collaborations with both the National and County Governments to address priority local health research agendas and where necessary establish new Research Centres, Units or Stations.

The coordinating stations for the clusters will work with County and National Governments on health issues that are specific and relevant to the county governments. The clusters are as shown in figure 1.1.

1.4 History of KEMRI

Kenya Medical Research Institute (KEMRI) is a State Corporation established in 1979 through the Science and Technology (Repealed) Act, Cap 250 of the Laws of Kenya operated under the Science, Technology and Innovation Act, 2013 as the national body responsible for carrying out research in human health in Kenya. Subsequently, KEMRI was re-established through Legal Notice No. 35² of March 2021.

Prior to the establishment of KEMRI, biomedical research in Kenya was done under the East African Medical Research Council under the auspices of the East African Community which collapsed in 1977. Upon its creation in 1979, KEMRI immediately consolidated research activities of the defunct East African Medical Council.

Within the Health Sector, KEMRI is responsible for providing leadership in health research and development, shaping the health research agenda, setting norms and standards, articulating evidence-based policy options and monitoring and assessing

² https://www.kemri.go.ke/wp-content/uploads/2021/07/35-KEMRI-Bill-2021.pdf

health trends as well as dealing with trans-boundary threats and disease outbreaks. The Institute further continues to be responsive to the challenges of emerging and remerging diseases, including Non-Communicable Diseases (NCDs), communicable conditions and bio-terrorism.

Currently, KEMRI has fifteen (15) Research Centres with state of the art research facilities and laboratories spread throughout Kenya. These Centres are equipped with highly skilled scientists and technical staffs to enable it conduct competitive research which has led to the institute being ranked as a leading centre of excellence in research for human health both in Africa and globally. The following is a list of Centres and their location.

Table 1.1 Research Centres of KEMRI

No.	Name	Acronym	Location
1	Centre for Clinical Research	CCR	Nairobi
2	Centre for Biotechnology Research and Development	CBRD	Nairobi
3	Centre for Public Health Research	CPHR	Nairobi
4	Centre for Virus Research	CVR	Nairobi
5	Centre for Microbiology Research	CMR	Nairobi
6	Centre for Respiratory Diseases Research	CRDR	Nairobi
7	Centre for Traditional Medicine and Drug Research	CTMDR	Nairobi
	Centre for Infectious & Parasitic Diseases Control	CIPDCR	Busia
8	Research		
9	Centre for Global Health Research	CGHR	Kisumu
10	Centre for Geographic Medicine Research – Coast	CGMR-C	Kilifi
	Eastern & Southern Africa Centre of International	ESACIPAC	Nairobi
11	Parasite Control		
12	Centre for Vector Disease Control	CVDC	Kwale
13	Centre for Community Driven Research	CCDR	Kirinyaga
14	Centre for Disease Control and surveillance	CDCS	Mandera
15	Sports Science Research Centre	SSRC	Eldoret

In addition to the above Centres, KEMRI has an established Graduate School of Health sciences that offers specialized postgraduate degrees which are research oriented and geared towards solving national, regional and global health problems.

Other Research Units and field stations managed in collaboration with partners are located in Kericho, Kombewa, Kondele, Siaya, Malindi, Mtwapa, Thika and Taita Taveta.

KEMRI has also organized its research activities into seven programmes as shown in the table below.

Table 1.2: Institute Research Programmes

No	Programme Name	Objective	Flagship projects/areas
1	Biotechnology	To promote, harness and apply biotechnology for the discovery and development of tools and strategies for use in medicine and health care	 Vaccine development Diagnostics Genetic engineering Bioinformatics
2	Natural Products and Drug Development	To identify and develop safe and effective traditional/alternative medicines and drugs for use against human diseases	Natural productsConventional medicineAlternative Medicine
3	Infectious and Parasitic diseases	To conduct research aimed at developing tools and technologies for reduction of disease burden due to infectious and parasitic agents	Bacterial, fungal & Viral diseasesParasitic diseasesHIV/AIDS, TB & MalariaNeglected tropical diseases
4	Public health and Health Systems	To conduct multidisciplinary epidemiology, biostatistical, environmental, occupational, nutritional, social, dental population and health systems and policy research	 Epidemiology Behavioral & Social Sciences Nutrition Environmental /occupational health Oral health Health care financing, HRD, information, governance and leadership, service delivery
5	Non communicable diseases	To conduct basic, clinical, operational, implementation and applied research in all matters related to non-communicable diseases	 Life styles diseases- Obesity, diabetes, hypertension, drug and substance abuse, Cardiovascular Cancers (Breast, Cervix, prostate, throat, stomach, ovaries and skin) Road traffic accidents, Domestic/Occupational injuries Mental Health
6	Sexual, Reproductive, Adolescent and child health	To conduct basic, clinical, operational, implementation and applied research in all matters related to Sexual, Reproductive and Child health	 Maternal health Child health Adolescent health STIs Gender Based Violence (GBV) Infertility Sexual dysfunction Family planning Harmful traditional practices Aging and sexual and reproductive health Gender & human rights

7	One Health approach	One Health fosters a collaborative approach to issues	- Coordinate research on zoonotic diseases.
		that intersect human, animal and environmental	- Coordinate research on pastoralist associated diseases
			- Coordinate research on arid and semi-arid associated diseases
			- Coordinate research on geographic based disease

The scope of scientific process in KEMRI is as illustrated in the diagram below;

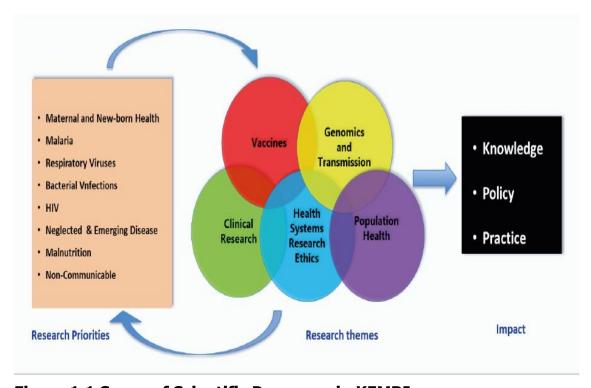


Figure 1.1 Scope of Scientific Processes in KEMRI

1.5 Methodology of Developing the Strategic Plan

Development of KEMRI strategic plan V was highly participatory and consultative. The process started with appointment of KEMRI Strategic Plan Review Taskforce which then developed the Terms of Reference for engagement of an independent consultant to facilitate review and development of Strategic Plan 2023-27. The strategic plan development process involved:

- i) Assessment of achievements and challenges in the implementation of strategic plan 2018-23
- ii) Desktop review and analysis of key documents including Sustainable Development Goals, Africa's Agenda 2063, Kenya's Vision 2030 and Ministry of Health Strategic Plan, among others.

- iii) Development of a questionnaire and data collection on priority areas to be addressed by the strategic plan
- iv) Carrying out Focus Group Discussions (FGDs) in all KEMRI Centres to get the opinion of key staff on challenges and priorities
- v) Carrying out an environmental scanning through SWOT analysis
- vi) Reviewing adequacy of organizational structure
- vii) Drafting of the strategic plan by the consultant in liaison with the Taskforce on strategic plan review
- viii) Holding stakeholder engagement and validation workshops
- ix) Holding Working and validation with the Scientific Steering Committee, KEMRI Executive team and the Board of Directors

CHAPTER TWO SITUATIONAL AND STAKEHOLDER ANALYSIS

Overview

Chapter three presents situational analysis which details the external environment, summary of opportunities and threats, internal environment, summary of strengths, weaknesses. In addition; the chapter presents analysis of performance of the previous strategic plan 2018-2023.

2.1 Situational Analysis

External and internal environmental scanning was undertaken to establish forces affecting the operation of the Institute. The Political, Economic, Social, Technological, Ecological, Legal and Ethical (PESTELE) tools was used to scan the macro environment and Strengthen, Weaknesses, Opportunities and Threats (SWOT) tool was used in the analysis of the Internal environment.

2.1.1 External Environment Analysis

The external environment discusses forces in the macro, micro, industry and market environment.

2.1.1.1 Macro-environment

Political, Economic, Social, Technological, Environmental, Legal and Ethical (PESTELE) scan was undertaken with a view to describing the circumstances under which the Institute operates to be able to appreciate the factors that will either support or impede the process of implementing the Plan. A synthesis of the outcome of the PESTEL analysis is presented beneath:

Table 2.1 PESTELE

Category	Factors	Strategic implication
a) Political environment	Change in Government policy	Reorganization of prioritiesChanges in funding patterns
	Devolution of health services	 Multiple research protocol approvals, increased cost of research and delay in implementing research work Collaboration with County governments in undertaking heath research
	Bilateral agreements between Kenya, regional and global countries	 Increased partnerships in health research and capacity building Funding for research infrastructure
b) Economic environment	Classification of Kenya as a lower middle income country	Reduced donor funding
i) Social	High rate of unemployment	• Inability to access quality health

environment		care
	Kenya's youthful population	 Tech-savvy, resourceful in driving innovations and dissemination of information Emerging challenges such as drugs and substance abuse & mental health
	Sedentary lifestyle and eating habits	Increase in prevalence of Non communicable diseases
	Social cultural practices	 Resistance by research participants due to cultural beliefs Resistance to new policy implementation
	Emergence of Teleworking and trainings in post Covid 19 era	Difficult to control employees working virtually
	Social media	 Real time communication and dissemination of research findings Employees spending more time online Dissemination of confidential information that may damage corporate image
	Increasing enforcement of the rights for marginalized groups	
	Increase demand for natural products and alternative medicine	
	Threat of Bio-terrorisms	 Threaten health and safety of the population Need for increased surveillance Need for sample and pathogen protection
d)Technological environment	Rapid technological advancement	 practices Rapid obsolescence's of ICT tools and equipment calls for increased resource allocation to catch up with technology
	Internet and digital services	Digitization of health research recordsProvision of online services

		Big data
	Cyber security	Potential loss of data
		Interruption of business process.
	Shift to E-government services	Ease of access to services through e-government portal
	Emergence of Big data analytics and artificial intelligence in health research	Enhance access to research data
e)	Climate change and global	• Increased research on climate
Environmental	warming	change
factors		 Increase in communicable diseases and food insecurity
	Environmental Pollution	Unsafe and unhealthy environment
		Increase in communicable diseases
f) Legal	Inadequate legal	Limiting scope
environment	framework	uncertainty of future operation
	Data protection Act 2019	Restrictions on data processing and sharing
g) Ethical	Research malpractices	• Litigation for plagiarism and
environment		disclosure of private information
		Negative corporate image

2.1.1.2 Micro-environment

KEMRI health research workforce are multi-disciplinary in nature, there are different trade unions representing scientific staff from the various fields and other support staff. Some of the unions include Kenya Medical Practitioners Pharmacists and Dentists Union (KMPDU) a trade union that is actively represents all Kenyan doctors in employment and labour relations with an aim of improving their welfare, Kenya National Union of Nurses (KNUN), Union of National Research Institutes Staff of Kenya (Unrisk) that has been pushing for uniform extraneous, emergency, health risk allowances and other allowances to be given to KEMRI staff across all cadres. This is likely to increase the staff emolument the Union of Kenya Civil Servants (UKCS)

The professional staff in the Institution belong to different professional associations such as the Kenya Medical Association (KMA), Kenya Dentists Association (KDA) and National Nurses Association of Kenya (NNAK), ICPAK, IHRM among others, this ensures that staff are continuously develop and this will help is strategy delivery.

KEMRI deal with a number of suppliers, the most influential suppliers are those supplying and servicing scientific research equipment and maintenance of ICT system security. The dictate prices, specialized reagents to be used in the use and maintenance of scientific and laboratory equipment.

KEMRI has wide customer base as well as huge market potential is huge. There is high demand for research in human health in areas of sports medicine, human infertility, rise in NCD and NTD that requires local solutions, for example there has been calls that the Institute carry out more research in natural products like Mogombere and come up with natural products as quality supplements for sports persons and the athletes as well as the need to establish anti-doping lab which will be one of its kind in the region. County governments have various needs and needs KEMRI staff competence to solve their health related problems through research for human health.

2.1.1.3 Industry Environment

Table 3.2 below provides a detailed analysis of competitors in human health research industry.

Table 2.2 Competitor Analysis

a di			
Competitor	Products /Services	How they Compete with us	Competitive Analysis
Teaching, Research and Referral hospital	ResearchInnovationsCapacity buildingHealth & Consultancy services	Direct and indirect	 Compete for funds from the exchequer Compete for grants from internal and external sources Compete for same skilled manpower (brain drain) Same customers/ patients
Universities	 Research Innovations Capacity building Health & consultancy services 	• Direct and indirect	 Compete for funding from the exchequer Compete for grants from internal and external sources Compete for same skilled manpower/ brain drain Compete for students Consultancy services
Collaborators and Partners	ResearchInnovationsCapacity buildingGrant management	• Direct and indirect	 Compete for grants from internal and external sources Compete for same skilled manpower/ brain drain Consultancy services

	• Infrastructure		
Non- Governmental Organizations	ResearchInnovationsCapacity buildingGrant managementInfrastructure	• Direct and indirect	 Compete for grants from internal and external sources Compete for same skilled manpower/ brain drain Consultancy services
Other Research Institutions	ResearchInnovationsCapacity buildingHealth services	• Direct and indirect	 Compete for funds from the exchequer Compete for grants from internal and external sources Compete for same skilled manpower/ brain drain Same customers/ patients
Private sector players	Products, technologies and servicesInnovations	• Direct and indirect	 Competing for customers for products, technologies and services Compete for grants from internal and external sources Compete for the same skilled manpower/ brain drain Same customers/ patients
Regional Research Institutions	ResearchInnovationsCapacity building	• Direct and indirect	 Compete for grants from internal and external sources Compete for same skilled manpower/ brain drain Consultancy services

2.1.1.4 Market Analysis

KEMRI is responsive to the health needs of the country through development and assessment of new diagnostics and interventions to combat the challenges of emerging and re-emerging diseases including Non-Communicable Diseases (NCDs), Communicable Diseases and bio-terrorism. The Institute through its innovative research approached has developed predictive models to monitor disease trends, outbreaks, identification of possible epidemics and effects of climate change. KEMRI developed and continue to manage Health and Demographic Surveillance Systems (HDSS) targeting population dynamics, validating National census/demographic Health Surveys, health facility utilization, evaluation of new health interventions and priority diseases monitoring within Nairobi, Kisumu, Siaya, Homabay and Kilifi Counties.

Research conducted over time has led to development of home-grown products including diagnostic kits and other products as well as offering specialized laboratory and clinical services across KEMRI centres spread across the country. Through these

centres aggressive marketing strategies will be put in place to enable delivery of products and services to the general public. The Institute will also leverage on the devolved health structures to expand its research activities to all parts of the country in order to bridge evidence gap in policy formulation.

2.1.2 Summary of Opportunities and Threats

This section analyses the opportunities and threats faced by the Institute as presented by table 3.3

Table 2.3 Summary of Opportunities and Threats

Environment	Opportunities	Threats
al Factors	opportunities	11110000
Political	 i) Goodwill and support from Government of Kenya ii) Support from County governments iii) Collaboration and partnership in undertaking research 	i) Multiple health research institutions in the countryii) Multiple research approval Institutions
Economic	 i) Product development (Vaccine, drugs, diagnostic kits etc.) ii) Emerging and remerging diseases iii) Leveraging on new knowledge and technology transfer iv) Readily available local market for Institutes products v) Regional market in sports medicine in Eritrea, Ethiopia, and Uganda 	i) Changing funding priorities by external collaborators and partners ii) Inadequate exchequer research funding
Social	i) Emerging and remerging diseasesii) Sport science and sports medicine research	i) Changing funding priorities by external collaborators and partners
Technological	i) Adopting and leveraging on new technologies	i) Data security
Legal	i) Opportunity to lobby for enactment of laws and regulations	i) Inadequate laws ii) Data security
Ecological	i) Climate and climate change	i) Climate and climate change

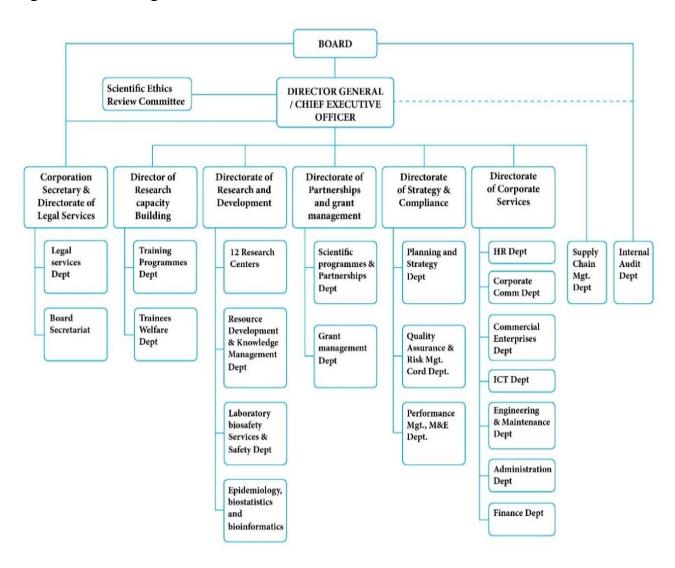
2.1.3 Internal Environment Analysis

The internal environment discusses the governance and administrative structure, internal business processes and resources and capabilities a of the Institute

2.1.3.1 Governance and Administration Structures

KEMRI Strategic Plan 2023-2028 requires an effective and responsive governance framework to facilitate delivery of planned aspirations through proper coordination and efficient use of resources to meet the expectations of stakeholders. The approved KEMRI organizational structure defines three tiers consisting of the Director General, Directors and Deputy Directors with the Board of Directors providing oversight. The figure that follows illustrates the organizational structure.

Figure 2.1: The Organizational Structure



The duties and functions of the different levels are as described hereunder: -

a) **KEMRI** Board of Directors

KEMRI Board of Directors is the highest decision making organ in the Institute and responsible for setting and overseeing the overall organizational strategy and approving policies. KEMRI Board executes its mandate through committee's four committees namely; Scientific Research and Innovation, Audit and Risk Assurance, Human Resource, Finance and Development committees.

b) Director General

The Director General is the Chief Executive Officer of the Institute and is responsible to the Board of Directors for the implementation of the Institute's strategic goals and the management of its resources including giving direction and leadership to the achievement of institute's mandate, the development of its strategy and the attainment of its annual goals and objectives.

c) Directorates

The organizational structure identifies six directorates each headed by a Director. The following are the mandates of each directorates: -

1) Directorate of Research and Development

The Research and Development directorate is responsible for overall management and coordination of human health research in the Institute as mandated through the Science and Technology Act. The directorate is also responsible for overall coordination of research regulation and knowledge management, Lab management and bio safety to ensure achievement of KEMRI's strategic objectives. The Directorate is responsible for the following key functions;

- i) Steering research through guidance of institute's research strategy;
- ii) Development and implementation of research policies, strategies, Standards, guidelines and procedures;
- iii) Coordination of research review, management and reporting;
- iv) Guide in the development of research proposals;
- v) Promotion of innovation and technology transfer;
- vi) Coordination of research activities and operations through Centres
- vii) Coordination of clinical services, trial sites, hospitals and specialized Services;
- viii) Overseeing disease surveillance and epidemiological platforms;
- ix) Keep custody of health population data and disease trends;
- x) Liaise with the Ministry of Health in emergency disease response in the Nation;
- xi) Ensuring establishment and maintenance of accurate and up to database of all Research assets including research projects and intellectual properties;
- xii) Establish and maintain quality standards in laboratories;
- xiii) Ensuring safety and a conducive research environment;
- xiv) Ensuring compliance to research policy, regulation, standards and Guidelines;
- xv) Keeping custody of research projects and programs undertaken;

- xvi) Facilitating dissemination, translation and implementation of research Findings;
- xvii)Liaising with other departments for research support; and
- xviii) Mentoring and Training research leaders to ensure scientific skills development;
- xix) Coordinate biorisk assessment and response in research area and ensure hazards are identified are controlled and managed;
- xx) Ensure maintenance of an up to date pathogen and chemical asset inventory database;
- xxi) Ensure compliance and quality standards of the laboratories;
- xxii)Initiates develop of policies and strategy for research and development;
- xxiii) Ensure implementation and compliance with policies and strategies for research and development; and
- xxiv) Ensure effective methodological support for biostatistics and informatics for Research Scientists.

2) Directorate of Scientific Programmes, Partnerships and Grant Management

The Scientific Programs, Partnerships and Grants Management Directorate is responsible for the development and enhancement of all current and future collaborative and partnership activities of the Institute with relevant partners and collaborators in research and other income generation activities. The Directorate is responsible for the following functions: -

- i) Coordinate the activities of the Scientific Research Programs;
- ii) Coordinating the activities of Grants Management;
- iii) Coordinating the activities of the Country Cluster Coordinators;
- iv) Promotion, coordination and advancement of all research collaborations and Partnerships;
- v) Liaison with Government Ministries, other research Institutions, the Universities, the National Council for Science and Technology and Innovations (NACOSTI) and other organization on research collaboration activities.
- vi) Promote partnership and collaboration and ensure efficient and effective technical cooperation;
- vii) Coordinate the Planning and execution of national, regional and international collaborative activities of ESACIPAC;
- viii) Developing and reviewing of collaborative MOUs and agreements with partners;
- ix) Developing and reviewing MOUs and Service Level Agreements (SLAs) with county Governments and other relevant partners;
- x) Coordinate routine meetings with collaborators, partners and other stakeholders to thrush out issues of mutual concern;
- xi) Initiate development of policies that will enhance funding;
- xii) Develop annual reports on state of collaboration and partnerships;

xiii) Develop strategies that Attract research grant income, and other income, from a variety of sources, for research and capacity building efforts towards financial sustainability of the Institute.

3) Directorate of Research Capacity Building

The Directorate is established to provide mentorship and capacity building for research in human health. The Directorate is responsible for the following key functions:-

- To coordinate the teaching of academic programs of the graduate school under the KEMRI research themes;
- ii) To ensure that teaching, mentorship and research skills are imparted;
- iii) Establish exchange programs;
- iv) Overseeing the establishment of effective institutional structure for monitoring quality assurance in the academic and research programs;
- v) Oversee the development and regular reviewing the specialized curriculum;
- vi) Ensure proper planning, development, coordination and management of curricula for training;
- vii) Establish endowment funds for scholarships, fellowship and grants;
- viii) Oversee the supervision and coordination of the academic and administration programs of the directorate;
- ix) Ensure student compliance to research policy, regulation, standards and guidelines;
- x) Coordinate student admission, records and maintenance, student financial support and welfare;
- xi) Spearhead training partnerships, collaborations and linking with professional institutions and related bodies in advancing the Institute's interest;
- xii) Develop short skill development courses for employees of KEMRI;
- xiii) Ensure student compliance to research policy, regulation, standards and guidelines;
- xiv) Spearhead partnerships, collaborations and links with professional institutions and related bodies in advancing the Institute's interest;
- xv) Coordination of examinations administration.

4) Directorate of Strategy and Compliance

The Directorate of Strategy and Compliance is responsible for ensuring KEMRI adopts and implements appropriate strategies that will ensure efficient and effective planning, performance management, monitoring and evaluation of programs and projects, Quality assurance and risk management, as well as ensuring adherence to regulatory requirements. The Directorate is responsible for the following key functions

- i) Advising management on policies and strategies relating to planning, resource mobilization, performance management, quality assurance, risk management;
- ii) Coordinate overall long-term and medium-term planning for the Institute to ensure realization of institute's Vision and strategic goals;

- iii) Coordinate development, implementation, monitoring, review and evaluation of Institute's Strategic Plan and annual work plans for effectiveness and efficiency of implementation of planned activities;
- iv) Coordinate the overall Institutes Performance management framework to ensure alignment of performance targets to national and Institute long term plans;
- v) Develop, implement and monitor internal controls and risk management strategy to minimize losses incurred by the institute arising from exposure to risks;
- vi) Co-ordinate formulation and/or review of Institutes development strategies, policies, programs and projects, leading to effective research and innovation, capacity building, policy formulation and service delivery;
- vii) Coordinate programs/projects forecasts, estimates and budgets in liaison with departmental heads and the Finance Department for effective planning and implementation;
- viii) Coordinate identification and implementation of vision 2030 flagship projects geared towards realization of Sustainable Development Goals (SDGs);
- ix) Coordinate and facilitate comprehensive capital/infrastructural needs assessment in consultation with user Centres/departments and prioritizes projects in line with Institute's Strategic Plan, Medium Term Plan and Vision 2030;
- x) Develop, establish and maintain an institute up-to-date Master-database for Research and support activities;
- xi) Guide in the development, implementation and application of modern techniques in Monitoring and Evaluation systems for research and capacity building programs;
- xii) Coordinate operations research and conduct surveys for additional strategic information for decision making;
- xiii) Conduct feasibility studies and carry out assessment of viability, strategic importance and sustainability of all development projects;
- xiv) Guide research teams to prepare monitoring and evaluation schedules and reports;
- xv) Provide custody and secretariat of all capital projects documents for safe keeping and future reference;
- xvi) Preparation and implementation of the Centre's Quality Management System through quality assurance programs;
- xvii) Facilitate identification and evaluation of risks, monitoring risk exposure and advising management accordingly;
- xviii) Implementation of quality management system (QMS) and other business reengineering processes initiatives.

5) Directorate of Corporate Services

The Corporate Services Directorate is responsible for providing leadership and coordination of, Human Resource Management, Information and Communications Technology, Commercial Enterprises services, Engineering and Maintenance, Corporate Communications, Finance and Accounts and Administration. The Directorate is responsible for the following key functions;

- i) Coordinate development of policies, plans and strategies in the functional areas of Human Resource, Finance, Administration, Corporate Communications, Communication Technology and Commercial Enterprises services;
- ii) Develop effective operational policies, procedures, internal controls and systems for identifying, measuring, monitoring and controlling Institute's operations to drive the implementation of the approved strategy;
- iii) Oversee management of the Institute's revenues and expenditure, assets and liabilities and staff payroll;
- iv) Foster a culture that promotes team capability and reflects the values which facilitate performance, professionalism and innovation by staff throughout the institute;
- v) Ensure financial prudence and discipline for Financial Accounting, Planning, budgeting and budgetary controls in compliance with the set legal guidelines;
- vi) Oversee planning, directing and executing all human resources strategies, policies and plans;
- vii) Coordinate provision of Engineering and maintenance services;
- viii) Ensure effective implementation and compliance with all legislative requirements relating to corporate services;
- ix) Coordinate the institute's Management Information Systems and security;
- x) Coordinate technology infrastructure in line with the institute's goals and changing technologies;
- xi) Provide technical, strategic and policy advice on ICT matters and implementation of various ICT work processes, procedures and other administrative related matters;
- xii) Ensure conducive work environment in the institute;
- xiii) Coordinate the establishment and management of income generating programs and activities;
- xiv) Coordinate the provision of physical security; and
- xv) Oversee Development, review and implementation of communications strategy to support the Institute's objectives;
- xvi) Ensure development and implementation of corporate communications plans to enhance the visibility of the Institute;
- xvii) Undertake business case analysis and due diligence as well as prioritization of new initiatives and business opportunities to ensure viability before investment;
- xviii) Ensure appropriate systems and procedures are in place to maximize the safety and security of all staff, units and stakeholders;

- xix) Liaise with other security agencies on security matter;
- xx) Coordinate implementation of general administrative policies and programs;
- xxi) Coordinate Management of the corporate image of the Institute; and
- xxii) Coordinate the Institute's public functions and corporate events.

6) Corporation Secretary and Directorate of Legal Services

This Directorate is responsible to the Board of Directors and the Director General for provision of Board secretariat services and advisory services on Corporate Governance as provided for in the Constitution of Kenya 2010 and the Mwongozo, Code of conduct for State Corporations. In addition, the Directorate is responsible for facilitate legal compliance by providing legal services to the Institute. The functions of the office of Corporation Secretary and Director Legal Services entail

- i) Providing guidance to the Board on their duties, responsibilities and powers and how these should be exercised in the best interest of the Institute;
- ii) Facilitate planning of all KEMRI Board of Management activities to ensure that they aligned to the Institutes' strategies all relevant government directives;
- iii) Coordinate evaluations of performance of board members and board development programs;
- iv) Offer guidance to the Director, KEMRI and top Management in preparation of Board papers;
- v) Providing secretarial services to the Board including ensuring that the minutes of the Board and board committees are promptly prepared and circulated;
- vi) Custody of the seal and a record of its usage;
- vii) Liaise with Parliament and Parliamentary Committees (Parliamentary Investment Committee (PIC) and Parliamentary Committee on Health) in answer of all parliamentary questions, queries and reports touching on the management of the Institute in order to ensure that the Institute meets its responsibility to the stakeholders;
- viii) Offer guidance to the Institute on matters touching on investigations of the Institute by external agencies to ensure that the Institute's image and interest are secure;
- ix) Formulating policy and Providing advice on legal and corporate matters to the Institute through interpretation and writing legal opinions;
- x) Ensuring that Legal Audit Compliance is carried out to confirm legal compliance with national, regional and international legal requirements;
- xi) Developing and reviewing relevant regulatory Legal framework for the better implementation of the Institute's mandate;
- xii) Drafting and reviewing contracts, Service Level Agreements, Memorandum of Understanding, leases and other legal documents to ensure compliance to statutory requirements and the Institute's policies;
- xiii) Coordinating and ensuring representation of the Institute in courts or other judicial authorities;

- xiv) Reviewing and providing advice on legal risk at the Institute;
- xv) Managing litigation and review progress of outstanding litigation;
- xvi) Liaising and managing external lawyers for the Institute;
- xvii)Management of intellectual property rights aspects of the institution;
- xviii) Contract negotiation with external parties;
- xix) Initiation of legal action and defense on behalf of the Board of Management.

2.1.3.2 Internal Business Processes

KEMRI will re-engineer its business processes and adopt ICT and digital technologies to improve operational efficiency and data management in research and service delivery. These technologies will be deployed at all service delivery points taking into consideration data protection laws, regulations and policies.

2.1.3.3 Resource Capabilities

The Institute boosts of well-established research infrastructure including network of accredited laboratories, clinical trials facilities, Bio-Banks, state of the art research equipment, Sample Management Repository Facility and a center of excellence in Stem cell research for regenerative and precision medicine application. In addition to research activities, the institute established clinics where walk in patients can be treated and routine or specialized diagnostic services offered. KEMRI has also a well-established graduate school facility where specialized Masters and PhD programmes are offered. The realization of these milestones is attributed to the dedicated and agile human resources totalling 856 permanent and pensionable staff and more than 3000 contract staff with diverse skills and competencies.

The figure below shows the financial trends and capacity of the Institute

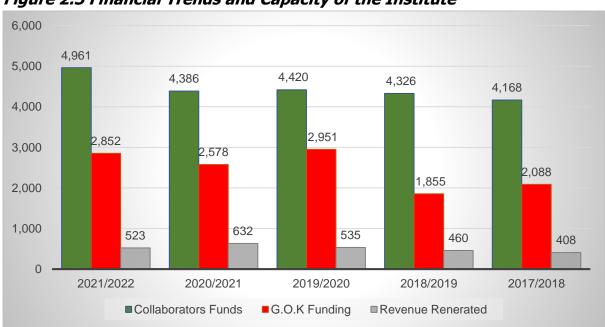


Figure 2.3 Financial Trends and Capacity of the Institute

2.1.4 Summary of Strengths and Weaknesses

This section provides a summary of strengths and weaknesses.

Table 2.4 Strengths and Weaknesses

Factor	Strengths	Weaknesses	
Governance and Administration	i) Ministry of Health supportii) Strong Corporate brandiii) Existence of institutional policies and guidelines	Weak legal framework	
Internal Business Processes	i) Innovative cultureii) Automated processes	Sub-optimal data management systems	
Resources and Capabilities	 i) Clinical research facilities ii) Modern and Accredited laboratories iii) KEMRI Graduate school iv) Research data v) Established network of partners and collaborators vi) Highly skilled human resource vii) Geographical spread of KEMRI Centres across the country 	 i) Inadequate human resource ii) Over dependence on donor funding iii) Inadequate knowledge translation 	

2.1.5 Analysis of Past Performance

The KEMRI Strategic Plan 2018-2023 identified five Key Result Areas and five strategic objectives as listed below: -

Table 2.5: Key Results Areas and Objectives of Strategic Plan 2018-2023

S/No	Key Result Area (KRA)	Strategic Objectives
1.	Research and Innovation	To strengthen investment in health Research and Innovation
2.	Corporate Governance	To strengthen corporate governance by transforming and reengineering business processes in order to achieve efficiency and effectiveness in health research and service delivery
3.	Research Infrastructure	To upgrade research infrastructure and automate processes
4.	KEMRI Graduate School of Health Research	To attain degree awarding status for KEMRI graduate school of Health sciences
5.	Financial Sustainability	To enhance and diversify resource mobilization as a step towards financial sustainability

2.1.5.1 Key Achievements

During the 2018-2023 plan period, the following were notable achievements in each Key Results Area (KRA).

1. KRA 1: Research and Innovation

During the plan period, KEMRI provided to the public specialized laboratory services totalling 4,282,296 encompassing COVID-19 PCR tests, HIV Viral Load testing (75% of National tests), Early Infant HIV Diagnosis, HIV Rapid and DNA tests among others. For surveillance of circulating COVID-19 strains in Kenya, genomic sequencing was done for 3,500 SARS-CoV-2 positive samples from 37 Counties across Kenya from samples collected between March 2020 and Jan 2022. The sequencing identified 97 distinct SARS-CoV-2 genome lineages. The 97 lineages include four variants of concern Alpha (B.1.1.7) in 501 samples, Beta (B.1.351) in 183 samples, Delta in 853 samples and Omicron in 363 samples. KEMRI also sequenced samples from other countries including; Comoros (n=34), Sudan (n=105), Ethiopia (n=221), Seychelles (n=702) and Eswatini (n=40). Whole-genome sequence data deposited in the GISAID database to allow access to the global scientific community.

KEMRI was awarded the 16th (2020) JICA President award for its contribution to diagnostics and research in human health especially during the COVID-19 pandemic. KEMRI further plays a regional lead in research as it hosts regional reference laboratories for Polio, Arbovirus and Malaria diagnostics and supports establishment of Malaria Diagnostics Centres of excellence in Tanzania, Ghana and Nigeria.

KEMRI conducted a feasibility study on local production of Human Vaccines which led to the establishment of the Kenya Biovax Institute mandated to produce vaccines for local use and export.

Significant progress was made in the establishment of a Centre of excellence in stem cell research, synthetic biology and regenerative medicine. The Centre is expected to undertake advanced stem cell research and regenerative medicine to address the need for new therapeutic and interventional approaches to Non-Communicable Diseases (NCDs). Specific achievements in this area include: -

- i) laboratory upgraded and equipped with the following equipment among others: BDFACs Cell Sorter, Next Generation Sequencer, CO2 Incubator, Class A2 Biosafety Cabinet, Medical Freezer, Centrifuge (refrigerated) and Cryogenic storage Dewars
- ii) Thirteen (13) scientists, 2 PhD and 1 masters student trained on stem cell research
- iii) Four (4) Research studies on stem cell research ongoing
- iv) Establishment of a stem cell biobank is in progress

In order to promote Indigenous Technologies and home-grown innovations, the institute conducted biomedical research on natural products with focus on use of pyrethrum grown in Kenya for its safety for insecticidal and antimicrobial applications. The main Research activities under the Pyrethrum Project included studies on efficacy for prevention and treatment of jiggers. Ujiplus, a fortified porridge flour with deworming properties was approved and licensed for distribution by the Kenya Poisons and Pharmacy Board (PPB).

To boost local capacity in innovation and production of health products, KEMRI developed 12 products with three having been commercialized. The commercialized products include COVID -19 Viral Transport Media with 26,000 utilized in the Health sector, COVID 19 proficiency testing kits and a COVID-19 PCR test kits. The Institute also embarked on development of a fractionated dose regimen vaccine for yellow fever vaccine. The development is in the final stages of evaluation. Other products include:

- -
- i) A reverse transcriptase loop amplification isothermal PCR for YFV was developed at KEMRI-PD;
- Domestication of differential diagnosis assays by PCR for YFV, RVFV, DENV, CHIKV, ONNV and WNV using established protocols;
- iii) Development of Enzyme Linked Immunosorbent Assays (ELISA) for YFV e.g. indirect IgG ELISA, IgM capture ELISA and Ag detection ELIS;
- iv) Large-scale production of YFV specific monoclonal antibody 2D12 and its subsequent use in Plaque and Focus Neutralization Assays;
- v) Developed more MAbs that are awaiting field testing and large-scale propagation;
- vi) Evaluation of a Loop-mediated isothermal amplification (LAMP) assay for COVID-19 detection.

The Institute further developed and continues to manage Health and Demographic Surveillance Systems (HDSS) targeting population dynamics, validating National census/demographic Health Surveys, health facility utilization, evaluation of new health interventions and priority diseases monitoring within Kisumu, Siaya, Homabay and Kilifi Counties. It is these HDSS that have facilitated: -

- i) Pilot deployment of malaria vaccine in Siaya and Kisumu;
- ii) Mapping out disease dynamics within communities;
- iii) Mapping distribution of health facilities and their utilization in Kilifi, Kisumu and Siaya. This information is regularly shared with County and National Government for planning;
- iv) Monitoring the COVID 19 transmission dynamics;
- v) Evaluation of the impact of COVID 19 vaccination.

In contributing to increase in scientific knowledge base and to provide key reference materials for formulating evidence-based policies, the institute developed six hundred and thirty-one (631) new research proposals covering national health research priorities, published one thousand four hundred and thirty-eight (1,438) scientific papers in peer reviewed journals and presented six hundred and one (601) peer reviewed scientific abstracts in national and international scientific conferences.

Arising from the scientific knowledge generated, KEMRI developed seventy-two (72) policy briefs covering management of various diseases including Malaria, Covid-19, Cancer, TB, HIV, and Health Systems. This has led to changes in management of diseases and interventions, review of programmes and prioritization in resource allocation.

The Institute supported the government in the initial stages of UHC in government selected Pilot Counties of Machakos, Kisumu, Isiolo and Nyeri. The Institute has carried out studies in the twelve (12) counties of Bungoma, Homabay, Bomet, Nyandarua, Nyeri, Isiolo, Meru, Machakos, Kitui, TaitaTaveta, Kisumu and West Pokot.

The Institute conducted several clinical trials targeted at vaccine development. Key clinical trials on vaccines development undertaken during the period include: -

- The development of malaria vaccine whereby the RTSS Phase 3 was completed and pilot deployment ongoing in Kenya, Malawi and Ghana. There is vaccine evaluation and malaria antigen characterization ongoing for new vaccine candidate discovery and development;
- ii) The Institute carried out phase two Ebola vaccine, phase two concept trial was completed and showed that the vaccine candidate was efficacious;
- iii) Currently KEMRI is in the final stages of evaluation developing a fractionated dose regimen for yellow fever vaccine;
- iv) The Institute took a leading role in the development of HPV vaccine that has been rolled out to vaccinate 14-year-old girls against future cervical cancer.

The Institute undertook the following clinical trials on drug development: -

- i) Malaria drug discovery by mining existing chemical libraries (360 compounds evaluated);
- ii) Evaluation of medicinal plants with anti-malarial potential;
- iii) Clinical trials on new anti-malarial drugs (KAF, Feroguine, KAE);
- iv) Antimalarial drug resistance surveillance and monitoring;
- v) In regard to HIV/AIDS a phase 3b, randomized, open-label study of the antiviral activity and safety of dolutegravir compared to lopinavir/ritonavir both administered with dual nucleoside reverse transcriptase inhibitor therapy in HIV-1 infected adult subjects with treatment failure on first line therapy. Dolutegravir has now been adopted in the country as 2nd line treatment for HIV;
- vi) A Phase IIB, Double-blind, randomized placebo-controlled study to evaluate efficacy, safety and, immunogenicity of GSK biological candidate tuberculosis (TB)

- vaccine GSK 692342 against TB disease in healthy adults aged 18-50 years living in a TB endemic region. The study is now complete and shows promising results;
- vii) A phase 3, double blind, Randomized, placebo-controlled, multicentre study of GBT440 Administered Orally to patients with Sickle Cell Disease. Completed and proceeded to an open label study GBT 034. The Drug has been registered and is in the market;
- viii) KEMRI has empowered the women through the development of the women condom ring.

The Institute conducted clinical trials in the following diagnostic kits: -

- a) First locally manufactured new rapid diagnostic tests (RDT) development;
- b) Evaluation of new and existing malaria diagnostic tools.

KEMRI continued to provide technical support to the Ministry of Health through representation in technical working groups. These technical working groups include; COVID-19 task force, National Immunization Technical Advisory Group (NITAG), National Laboratory Technical Advisory Committee (NLTAC), Kenya Coordinating Mechanism for Global Fund and operationalization of One Health Research programme. In addition, KEMRI supported the MOH in responding to the outbreaks of dengue, Rift Valley fever, Yellow fever, Chikungunya and surveillance over suspect Ebola outbreaks in the neighbouring regions.

Through collaboration with Japan International Cooperation Agency (JICA) Third Country Training Programme (TCTP), KEMRI trained health practitioners from seven countries namely Ethiopia, Uganda, Eritrea, South Sudan, Rwanda, Burundi and Kenya on laboratory preparedness for building resilience against public health emergencies and response in East African region. The Institute carried staff training on diverse areas including malaria microscopy competency, performance evaluation of a prototype rapid diagnostic test for the diagnostic of schistosomiasis, Miseq FGS sequencing, environmental surveillance, research methodologies, grants management, manuscript writing and monitoring and evaluation.

2. KRA 2: Health Research Infrastructure

KEMRI recognized that developments in healthcare and technology innovation rely heavily on a robust research infrastructure, which enables conduct of high-level scientific research. The key achievements in this area include upgrading of eleven (11) laboratories to accredited standards through funding support from DTRA-USA Government. The support was also extended to construction of a Sample Management and Repository Facility (SMRF) which is now fully operationalized.

New cutting-edge research equipment was acquired. These included next generation sequencers and equipment such as Illumina- Miseq and Oxford nanopore, Roche 454 high through put sequencing platforms and equipping of flu laboratory and P3 lab at KEMRI headquarters.

Upgrade of access roads and installation security access control at KEMRI Headquarters, installation and commissioning of an incinerator in KEMRI Busia centre, upgrading plumbing/sewer systems at headquarters and renovation of staff quarters at KEMRI estate along Mbagathi way were undertaken.

In the area of fleet management, the Institute completed the construction of Vehicle Maintenance Unit at CPHR while twenty-two vehicles were procured to facilitate research and administrative operations. Maintenance and repairs of facilities and equipment was also achieved through continuous annual repairs and maintenance schedules.

Major achievements in ICT include deployment of the ERP solution to automate finance, Human resource, procurement, performance management and fleets management processes for efficiency. ERP phase II which aims to automate research and capacity building processes were initiated and currently ongoing. Three hundred and fifty (350) computers, fifteen servers in primary site and Data Recovery sites and network security system were also acquired and operationalized. Local Area Network and Wide Area Network were upgraded at Headquarter, Kisumu and Busia. Information Security Management Systems (ISMS) standard was implemented.

3. KRA 3: Corporate Governance

Notable achievements in this area include; re-establishment of KEMRI under legal notice No. 35 of March 2021, ISO 9001:2015 recertification and development of twenty-four (24) internal policy documents. In order to ensure compliance with laws and government policy guidelines, the institute conducted a legal audit, implemented Annual Procurement Plans and ensured compliance with the service delivery charter. Annual Work Plans (AWP) based on strategic plan were also developed and implementation monitored and reported on quarterly basis.

The institute during the period commenced review of the Human Resource Policies and procedures Manual, Career Progression guideline, HR strategy and training and development policy. Skills gap analysis to inform training needs (Training needs assessment) and implement the assessment report was also undertaken.

4. KRA 4: KEMRI Graduate School of Health Research

KEMRI continues to pursue award of a charter to enable it award degrees for the various training programmes being undertaken. During the period;

- a) Draft University Charter was submitted to CUE for review towards accreditation of KEMRI as a specialized degree awarding institution;
- b) The procurements of key resources and establishment of infrastructure in support of the charter requirements has been initiated;

- c) Audit by the Commission of University Education was undertaken and implementation of audit recommendations is currently underway;
- d) One hundred and ninety-five MSc and seventy-two PhD students enrolled for various postgraduate programmes.

The Institute also entered into partnership with external stakeholders and established research funding for its students and KEMRI Staff. Some of the partnerships and projects with mentorship programmes include:-

- i) A postdoctoral training program with support of EDCTP. Two trainees are currently in the program;
- ii) Trained twenty-six personnel on research methodology and proposal writing in partnership with Smile Train Africa. Trainees were drawn from Kenya and six African counties;
- iii)Established a COVID19 sequencing and bioinformatics short course in collaboration with WHO and sixteen researchers have so far been trained;
- iv)KEMRI partnered with Nagasaki University on research in tropical diseases from Japan in implementing a student exchange programme targeting student from both institutions. Two students have already been enrolled for the programme;
- v) KEMRI established linkages with Kansas University in research, education and cultural exchange;
- vi)The KEMRI-JICA Third Country Training Program (TCTP) that brings together regional health practitioners and has equipped them with skills to respond to public health emergencies. Training Course Targets African Country participants to train them on Laboratory preparedness for building resilience against public health emergencies in the Eastern African region;
- vii) Universite of Cote-Dazur, France, Partnership training in Biobanking. Two MSc students are to undergo sandwich program.

5. KRA 5: Financial Sustainability

During the strategic plan period, the Institute received total exchequer allocation of **Ksh 10.4B** for recurrent and development expenditure. The institute further entered into partnerships with over ninety partners and collaborators to support research in different research program areas. Through these collaborations, KEMRI attracted external research grants of **Kes 21.6 Billion.**

In identifying local funding calls and lobbying for research funding, the Institute received **Ksh 222M** from Sports Arts and Social Development Fund for establishment of cancer genomics laboratory and **Kshs 77M** from National Research Fund for establishment of Centre of Excellence in stem cell research. The Institute also generated **1,739M** from its internal revenue streams.

2.1.5.2 Challenges

During the 2018-2023 plan period, the Institution experienced the following key challenges: -

- i) Covid-19 pandemic disrupted the executions of the activities of the Institution as planned. KEMR's attention was diverted to find immediate solution to fight against Covid-19;
- ii) Inadequate key staff -The approved staff establishment is 1977 employees while currently the Institution has 850 staff;
- iii) Inadequate research funds Most research activities are funded by external collaborators whose priorities are predetermined through funding calls;
- iv) Inadequate development funds from the exchequer;
- v) Instability of global markets in view of international conflicts between Russia-Ukraine.

2.1.5.3 Lessons Learned

During the 2018-2023 plan period, the following lessons were drawn from the implementation of the strategic plan. The need to:-

- i) Clearly define health research agenda;
- ii) Review research programme areas and align with the Ministry of Health priorities;
- iii) Review allocation of research funds to focus on programme areas with high impact as opposed to individual projects;
- iv) Establish and operationalize research thematic teams to focus on delivery of key strategic objectives;
- v) Create synergy in setting research priorities and undertaking research between KEMRI and its partners;
- vi) Eliminate duplication of research equipment;
- vii) Tap into unexploited capacity to commercialize research innovation;
- viii) Review and develop the MOUs and legal instruments to safeguard intellectual property and the Institute interests;
- ix) Institutionalize strategy into the corporate culture;
- x) Cascade corporate strategy into Centres/ departmental levels;
- xi) Institutionalize programme based budgeting and robust control measures;
- xii) Strengthen planning, monitoring and evaluation;
- xiii) Reengineer the internal process to achieve efficiency and effectiveness;
- xiv) Strengthen partnership to facilitate research translation and upscale production of research products;
- xv) Strengthen mentorship and succession management;
- xvi) Review and harmonize staff reward mechanisms.

2.2 Stakeholder Analysis

Stakeholder analysis was conducted to identify the interests, expectations and responsibilities of the key players toward each other. This involved taking an inventory of all key players that have a stake in this Strategic Plan taking into consideration the various ways they may influence its implementation. This analysis was conducted in order to understand the nature and extent of the functional relationships as well as various stakeholder expectations. The table below gives the summary of the analysis.

Table 2.6: Stakeholder Analysis

Category	Role	Stakeholder Expectations	KEMRI's Expectations
National	• Provision of	Delivery of the mandate	• Funding of research
Government	Legal and policy	• Participation in policy	operations
(National	guidelines	formulation	• Laws, policies and
Assembly,	 Research 	• Dissemination of research	guidelines that facilitate
National	funding	findings	research
Treasury	 Oversight 	• Timely response to disease	Facilitate
Ministry of		outbreaks, emergencies and	implementation of MoUs
health,		health challenges	and Bilateral agreements
ministry of		• Prudent resource	
education)		management	
County	Provision of Legal	Capacity development	Enabling environment to
Government	and policy	 Research findings to inform 	conduct research
	guidelines		Participation in policy
	_	•Timely response to disease	
	Collaboration in	outbreaks, emergencies and	 Collaboration in research
	research	health challenges	
Board	oversee the	•Implementation of research	Approval of policies,
	overall strategy	agenda	budgets and reports
	and approve	Compliance with policies	Provide strategic
	policies	•Implementation of board	direction
	Approve the	resolution	Resource mobilization
	organizational	 Implementation of strategic 	•Hire senior management
	structure.	plan	Oversight in resource
	Approve the	•Regular reports	utilization
	annual budgets		
	Monitor the		
	organization's		
	performance and		
	ensure		
Research	sustainability.	Confidentiality of their data	• Participate and support
	 Participating in health research 	 Confidentiality of their data 	 Participate and support health research
participants		-Innovations that address	
Health facilities	health research	•Innovations that address health challenges	Collaboration in health research
raciliues	nealui research	Involvement in research studie	
Pegulatory	• Pegulatory	•Compliance with Laws,	Participation in policy
Regulatory bodies (CUE,	Regulatory framework	policies, standards and	development
NACOSTI)	Accreditation	guidelines	Accreditation and
INACOSTI)	Approval of	•Reporting	approvals
	• •	Preporting	αρρισναίδ
	programmes	1	

Dharmacautic	•Collaboration in	Tochnical exportice in	Dartnorchin in drug
Pharmaceutic al industries		•Technical expertise in research & drug development	Partnership in drug development and
ai illuusules	drug and vaccine	research & drug development	development and
Duefeesienel	development	Canadianas villa	commercialization
Professional	•Regulate	Compliance with	•Registration, certification
bodies	professional	professional code of conduct	and regulation of
	conduct		professionals
Funding	Collaborative	Joint research proposals	Joint research proposals
Partners and	research	Prudent use of resources	Timely project
Collaborators		Accountability and	implementation
		transparency	 Adhere to the laws and
		Timely reports	policies
			Skills and knowledge
			transfer
Academia	 Collaborative 	Collaboration in research	Collaboration and
	research	 Capacity development 	partnership
	•Training and	through student internship	•Quality graduates
	capacity building	and attachment	Prompt service delivery
	•	Knowledge sharing	Participation in
		Triowicage Sharing	curriculum development
			Knowledge sharing
Semi-	Joint research	Accountability and	Provisions of quality
Autonomous	•Research funding	transparency	output
Government	•Research fulluling	Prudent use of resources	· •
			•Timely and professional services
Agencies		•Utilization of research findings	
(SAGAs)		for health programs	•Collaboration and
		•Timely response to	partnership in health
		emergencies and health	research
		challenges	
Suppliers of		•Timely payments for goods	
goods and	products and	and services provided	and services
services	services	•Transparency in procurement	
		process	services
		Fair treatment	Competitive pricing
			Compliance to laws,
			regulations and policies
Employees	Job performance	Provision of resources	Quality output
	Compliance with	/working tools	Commitment
	laws, regulation,	 Fair compensation for work 	 Confidentiality
	policies and	 Conducive and safe working 	Prudent use and
	guidelines	environment	management of
	_	Safety and security	resources
		•Effective staff welfare	
		mechanism	
The public/	Beneficiaries of	•Quality services	Participation and
Citizens &	innovative health	•Research output will improve	cooperation in research
Community	solutions	their livelihood	•Honest provision of
35	•Research	•Sensitization on health issues	information
	participants		•Timely payment for
	paracipants	respondents	services
		Lieshouneurs	SCI VICES

Media	Publicity	Provision of information for dissemination to the public	Information sharing through electronic and print mediaObjective reporting
Trade Unions	Representing workers interestSensitization of workers	Fair treatment of employeesNegotiation of CBAUnion subscriptions	Fair representationsHonesty and transparency
Customers	Payment for servicesProvision of information	Quality and timely servicesQuality products/servicesFair pricingFair treatment and confidentiality	Prompt payment of service feesComply with rules and regulationsFeedback on services

CHAPTER THREE STRATEGIC DIRECTION

Overview

This chapter presents the Institutes' mandate and its vison, mission, and strategic goals, core values, quality policy statement and Key Result Areas (KRA's).

3.1 Mandate

Kenya Medical Research Institute (KEMRI) is a State Corporation established in 1979 through the Science and Technology (Repealed) Act, Cap 250 of the Laws of Kenya operated under the Science Technology and Innovation Act, 2013 as the national body responsible for carrying out research in human health in Kenya. Subsequently, KEMRI was re-established through Legal Notice No. 35 of March 2021³. The legal notice spells out the functions of the Institute as follows:-

- i) Conduct health, biomedical and public health research for human health;
- ii) Build human health research capacity;
- iii) Collaborate and partner with other local and international research bodies and institutions in carrying out human health research and capacity building;
- iv) Advice the responsible Ministry in matters pertaining to health research policies and priorities;
- v) Undertake scientific and technological innovation as well as in the discovery, transmission and enhancement of knowledge and stimulate the intellectual life in the economic, social, cultural, scientific, and technological development;
- vi) Establish incubation Centres for innovation, and link research, policymakers, academia and industry in the health products value chain; and
- vii) To do all such things that are necessary or desirable to carry out its functions.
- viii) National diseases surveillance and rapid response for major disease outbreaks

3.2 Vision

To be a Global Leader in Research for Human Health

3.3 Mission

To improve the quality of human health through research, innovation, capacity building and service delivery.

3.4 Strategic Goal

To be the regional hub for health research knowledge, actively translating health research and innovation into sustainable, tangible benefits for both patients and society by the year 2028.

³ https://www.kemri.go.ke/wp-content/uploads/2021/07/35-KEMRI-Bill-2021.pdf

3.5 Core Values

Table 3.1 presents the core values that will guide the Institute in implementation of the strategic plan and its overall operations: -

Table 3.1 Core Values	Table	3.1	Core	Va	lues
------------------------------	--------------	-----	------	----	------

S/No i)	Value Integrity:	Description We uphold professionalism, accountability, transparency, open communication and ethical conduct in all our operations;
3	Innovativeness:	We endevour to pioneer in undertaking cutting edge research in human health to develop new knowledge, inventions and products to improve the quality of life
4	Ethical	We adhere to ethical principles in order to protect the dignity, rights and welfare of research participants and the general public.Research ethics govern the standards of conduct for our scientific researchers.
5	Excellence:	We aim to deliver quality reseach output, simple and efficient processes to improve service delivery
6	Partnership:	We shall create an environment that will deliver world class scientific output through collaborative research, capacity building and service delivery initiatives.
7	Teamwork:	We uphold the spirit of working together in KEMRI to benefit from synergy, cohesiveness and prudent use of resources
8	Customer focus:	We uphold responsibility to the community, nation and the world
9	Inclusivity:	We uphold diversity, equity, fairness, respect and embrace meritocracy

3.6 Quality Policy Statement

Kenya Medical Research Institute (KEMRI) is committed to improving the quality of human health through research, capacity building, innovation and service delivery that consistently meets and exceeds the needs and expectations of our customers.

KEMRI Management is committed to enhancing customer satisfaction through the effective application of the quality management system (based on ISO 9001:2015), including processes for improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements. Quality Objectives shall be continuously monitored and reviewed as necessary while the quality policy statement shall be reviewed at least after every three years.

3.7 Strategic Issues

Arising from the situation analysis, the following have been identified as the key issues for consideration in developing this strategic plan:

- i) Need to strengthen investment in research and development
- ii) Increase uptake of new technologies, artificial intelligence and other advances in health research
- iii) Upscale data science and data management
- iv) Enhance research translation and knowledge management
- v) Embrace results based management, Monitoring and Evaluation
- vi) Upgrade research and support infrastructure
- vii) Strengthen systems, structures and processes
- viii) Review Institutional Legal framework
- ix) Achieve Financial sustainability
- x) Strengthen Human resource capital
- xi) Review organizational culture
- xii) Automate of business processes
- xiii) Commercialize innovations, products and technologies
- xiv) Strengthen corporate image and publicity

3.8 Key Result Areas (KRA)

The Balance Scorecard (BSC) approach was used in the formulation of the Key Result Areas. It is on the basis of KRA that the strategic objectives, strategies and corresponding strategic activities were set as listed in table 3.2.

Table 3.2 Strategic Issues and KRAS

Strategic issue	Key Result Areas (KRAs)
i) Investment in research and development	KRA 1: Research for Human Health
ii) Uptake of new technologies, artificial	KRA2: Research capacity building
intelligence and other advances in health	KRA 3: Innovation and product
research	development
iii) Data science and data management	KRA 4: Disease surveillance and
iv) Research translation and knowledge	response
management	
i) Financial sustainability	KRA 5: Financial Sustainability
ii) Commercialization of innovations,	
products and technologies	
iii) Research partnerships and collaborations	

- i) Systems, structures and processes
- ii) Corporate image and publicity
- iii) Organizational culture
- iv) Institutional Legal framework
- v) Human resource capital
- vi) Results based management, Monitoring & Evaluation
- vii) Research and support infrastructure
- viii) Automated business process

KRA 6: Institutional strengthening

3.9 Strategic Choices

The Institute picked on the following strategic choices which determines its future direction for the strategic plan period.

Figure 3.1 CONCEPTUAL FRAMEWORK

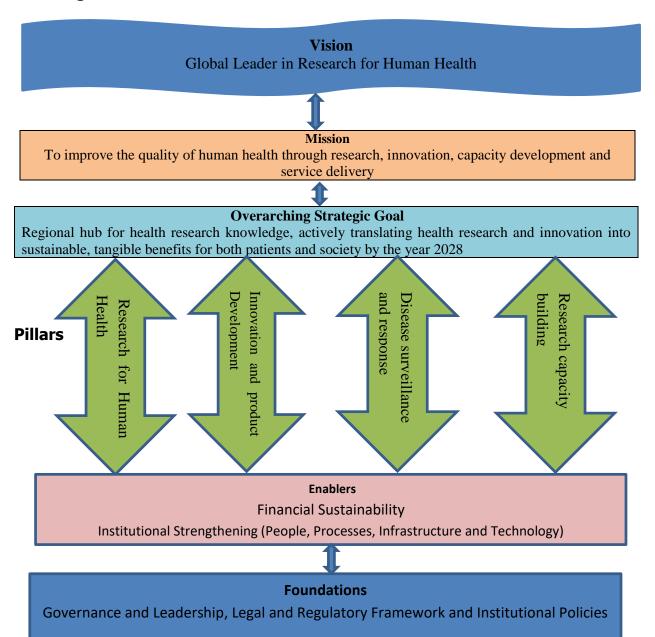


Table 3.3 Strategic Objectives and Strategies

KRA	Strategic Objectives	Strategies
1: Research for Human Health	_	 1:1: Evaluate the effectiveness and efficiency of the health care systems 1:2: Conduct Public Health and Health Systems Research to Inform the National UHC Agenda 1.3: Identify research priorities to inform health research agenda 1.3 Utilize OMICS technologies to characterize biological molecule collections for precision medicine research, disease surveillance and response 1:4: Enhance research in climate change, environmental and occupational health 1:5: Strengthen biosafety, biosecurity and biodefence 1:6: Strengthen research regulatory process and oversight 1.8: Strengthen research laboratories and clinical laboratory services 1.9: Enhance Institute's participation in policy
2: Innovation and product development	2: To build data science and knowledge management systems 3: To undertake scientific and technological innovation	formulation and implementation 2:1: To establish data protection strategies 2.2: Enhance knowledge management and knowledge translation process 3.1 Enhance innovation and technology development in the area of human health 3.2: Establish incubation Centers 3.3: Link research to policy makers, academia and
3: Disease surveillance and response	4: To strengthen disease surveillance system	 industry in the health products value chains 4.1: Strengthen capacity for early disease detection and timely response to bio threats, non-communicable and communicable diseases
4: Research capacity building	5: To build human health research capacity	5.1: Develop and implement post graduate degree programmes
5: Financial Sustainability	6 : To strengthen and establish strategic partnership and collaboration	 6.1 Seek strategic and mutual beneficial partnerships and collaborations to grow health research 6.2 Enhance Institutional end to end grant management processes 6.3 Carry out resource mobilization to support research for health
	7: To Enhance Financial Sustainability	7.1: Expand and grow revenue7.2: Institute Public Private Partnerships (PPPs)7.3: Implement cost saving measures

6: Institutional strengthening strengthening brocesses 8.1: Review and streamline internal processes 8.2 Improve fleet management 8.3: Strengthen records management systems 8.4: Strengthen statutory compliance and legal services 8.5: Strengthen governance and audit 8.6: Streamline financial management processes				
strengthening processes 8.3: Strengthen records management systems 8.4: Strengthen statutory compliance and legal services 8.5: Strengthen governance and audit				
8.4: Strengthen statutory compliance and legal services 8.5: Strengthen governance and audit				
services 8.5: Strengthen governance and audit				
8.5: Strengthen governance and audit				
8.6: Streamline financial management processes				
	8.7: Improve supply chain management			
8.7: Improve supply chain management				
8.8: Strengthen corporate communication				
9: To build 9:1 Attract, engage and retain highly skilled, dive	rse,			
institutional human inclusive and motivated staff	•			
capital 9.2: Train and develop human capital	9.2: Train and develop human capital			
	9.3: Align performance management system to the			
	institute strategic objectives			
	9.4: Strengthen employee relations			
	9.5: Review organizational design			
	10.1: Construct and upgrade health research			
and upgrade infrastructure	AI CI I			
infrastructure				
11. Establish 11.1 Upgrade ICT infrastructure				
resilient ICT 11.2: Achieve holistic cyber resilience				
systems 11.3: Initiate use of data analytics to strengt	nen			
research outputs and collaboration				
12: To Strengthen 12.1: Mainstream planning, resource allocation	and			
planning, strategy execution				
monitoring and 12.2 Integrate monitoring and evaluation	in			
evaluation programs and processes				
12.3: Improve quality assurance in research, pro	Juct			
development and service delivery				

CHAPTER FOUR IMPLEMENTATION AND COORDINATION FRAMEWORK

Overview

This chapter provides a framework for implementation and coordination of the Institute's strategic plan during the plan period. It features the implementation plan, coordination framework and risk management framework.

4.1 Implementation Plan

The Board of Directors have the overall role responsibility of ensuring the Strategic Plan is implemented and the desired goals are achieved. The Director General will oversee development of annual work plans and the entire performance management framework and provide regular monitoring reports to the Board.

4.1.1 Action Plan

The Directorate of Strategy and Compliance will cascade the strategy to directorates, departments/centres and units for alignment and to strengthen the ability to execute strategy. Implementation of the strategy will be embedded within the performance management system including Performance Contracting and performance appraisal systems.

The Implementation Plan will be a critical and important management tool for: -

- i) Resource mobilization, allocating and utilizing resources during plan implementation
- ii) Efficient and effective management and coordination of programs and projects
- iii) Partnership and collaborative engagement
- iv) Monitoring and Evaluation.

4.1.2 Annual Work plan and Budget

The detailed strategic plan Implementation Plan will be used to extract the Institute Annual Work Plans (AWPs) and annual budgets. Activity based costing shall be used in the development of annual budget.

4.1.3 Performance Contracting

The annual performance contracts shall be drawn from the strategic plan implementation matrix. An automated system that will provide for negotiations, reporting and performance evaluation will be deployed to all cadres of staff within the institute. Quarterly and annual Monitoring reports will be generated and presented to the Management and Board of Directors for review and to inform performance improvement.

4.2 Coordination Framework

Coordination and implementation of the strategic plan shall involve players within and outside KEMRI. The players are categorised as technical, financial and material support, administrative support and those that will provide policy, legislative and oversight role.

4.2.1 Institutional Framework

The approved organizational structure shall be used to execute the Strategic Plan at the internal level. KEMRI will also be expected to link up with other key stakeholders in government and development partners. The office of Director General shall have overall responsibility of coordinating implementation of strategic plan and will be supported by Directors and Deputy Directors. Director Strategy and Compliance will ensure that adequate sensitization on the content of the strategic plan is conducted for all staff at least once every year. Champions will be identified in all centres and departments to ensure adequate communication and timely mitigation of any challenges. A comprehensive M&E system with adequate budgetary allocation will be established towards implementation, coordination and oversight.

4.2.2 Staff Establishment, Skill Set and Competences

The staff establishment provides the approved jobs and number of posts created for the Institute to ensure optimal and efficient operations.

Successful execution of activities mapped out in this Plan depends on the availability of optimum workforce with the requisite competencies. The institute has an approved current staff establishment of 1,977 with current inpost of 909 as shown in the table below.

Table 4.1 Approved Staff Establishment, Impost and Variance

S/No	Cadre	Approved Establishment	In post FY 2022/23	Variance
1	Strategic Management Staff	47	14	33
2	Middle level staff	707	423	284
3	Operational Staff	1223	472	751
Total		1977	909	1068

In order to realize the objectives, set out in this strategic plan, the institute will make deliberate efforts towards achieving optimum establishment as projected in the table below;

Table 4.3 KEMRI Staff Projection -2023- 2028

Staff Level	2023/24	2024/25	2025/26	2026/27	2027/28
Strategic Management					
Staff	10	11	11	11	11
Middle level staff	23	25	28	31	34
Operational Staff	1053	1300	1521	1721	1932
Total	1123	1336	1549	1763	1977

4.2.3 Leadership

The Board of Directors provides the overall leadership, oversight and strategic direction for the Institute while the Director General will provide leadership in day to day implementation of planned activities. The Director General will be supported by six directors namely: Director Research and Development; Director Scientific Programmes, Partnerships and Grant Management; Director Research Capacity Building; Director Strategy and Compliance; Director Corporate Services and Corporation Secretary and Director of Legal Services.

4.2.4 Systems and Procedures

The Institute will review its scientific approval, research implementation, service delivery, capacity building, partner's engagement, financial management and human resource management procedures, policies, manuals and guidelines to ensure it can deliver the identified strategic objectives. Automation of processes will be prioritized to ensure timely and efficient delivery of services. The Institute will continue to maintain ISO certifications and accreditations while pursuing new laboratory accreditations.

4.3 Risk Management Framework

In today's rapidly evolving world, organizations face a multitude of risks that can significantly impact their operations, reputation, and ability to achieve their objectives. KEMRI recognizes the importance of proactively identifying, assessing, and mitigating risks to ensure the continuity of its critical activities and safeguard the well-being of its staff, stakeholders, and the communities it serves. This plan identifies risks and mitigation measures as shown in Table 4.4.

Table 4.4. Risk Management Framework

Risk	Risk Likelihood (L/H/M)	Severity (L/H/M)	Overall Risk Level (L/H/M)	Mitigation Measure
Shift in national government policies and priorities	Moderate	Moderate	High	 i) Take active role in MOH policy development ii) Engagement and consult policy makers/ relevant parliamentary committees iii) Prompt response to disease outbreaks and national health concerns
Support by County Governments	High	High	High	 i) Carry out CSR activities at the County level ii) Targeted training of county personnel to support County Health systems iii) Engage County leadership
Partner interests	Moderate	Moderate	High	i) Strategic negotiation during MoU/contract development ii) Adherence to laws and regulations iii) Establish structures for effective communication and engagement
Aging research infrastructure	High	High	High	 i) Advocate for funding for infrastructure and equipment from the GOK and Counties, sports fund ii) Enhance Philanthropic strategy iii) Engage collaborative partners for financial support
Partners and Collaborators withdrawing	Moderate	Moderate	High	i) Absorb key staff from the collaborators ii) Give Centres more support iii)Improve partner relationship and engagement strategies iv) Enhance resource utilization v) Widen the scope of internal and external partners
Brain drain	Moderate	Moderate	High	i) Develop staff recruitment and retention strategy
Disease outbreaks	Moderate	Moderate	High	 i) Enhance disease surveillance ii) Strengthen disease emergency response unit/committee iii) Enhance collaboration with other research institutions and organizations
Bio-terrorism	Moderate	Moderate	High	i) Train staff on Biosecurity, Biosafety and Biodefenceii) Enhance restricted access to the laboratories

				iii) Enhance collaborations with security agents iv) Investment in other Biosecurity interventions
Loss of samples/data	Moderate	Moderate	High	 i) Establish disaster recovery and ICT security and data recovery mechanism ii) Improve sample management iii) Enhance staff training iv) Establish data backup
Corruption	Moderate	Moderate	High	i) Enforce Anti-corruption and Anti-Bribery policies ii) Implement Bribery and Anti-corruption mitigation plan
Inadequate ICT infrastructure and system security	Moderate	Moderate	High	 i) Upgrade ICT infrastructure ii) Upgrade data centre iii) Acquire alternate site for backup operations iv) Establish system security
E- Waste	High	High	High	i) Buy environmentally friendly electronics ii) Dispose waste in line with existing laws and regulations
Weak legal framework	Moderate	Moderate	Moderate	i) Establish KEMRI through an Act of parliament
Litigations	Moderate	Moderate	High	i) Sensitize staff on internal policies and statutesii) Adopt alternative dispute resolution mechanisms
Climate change	Moderate	Moderate	Moderate	 i) Carry out research and develop predictive models ii) Undertake environmental conservation measures such as tree planting iii) Adopt clean energy

CHAPTER FIVE RESOURCE REQUIREMENTS AND MOBILIZATION STRATEGIES

Overview

The chapter provides detailed discussions on resource requirement, resource mobilization strategies and resource management.

5.1 Financial Requirements

The Institute will require adequate funding to implement the outlined strategic objectives for over the plan period. Programme Based Budgeting will be entrenched to ensure defined objectives in the Plan are adequately funded and realized. The funding for planned activities will be through Government of Kenya, external grants, internally generated revenue and any other source of funding as may be approved by National Treasury. Table 5.1 gives estimated resource requirements for the Plan period.

Table 5.1 Financial Requirements for Implementing the Strategic Plan

Cost Area	Projecte	ed Resou	rce Requi	irements	(Kes. Milli	ons)
KRA/ Strategic Objective	2023/ 24	2024/ 25	2025/ 26	2026/ 27	2027/2 8	Totals
KRA 1: Research for Human Healt	h					
SO 1: To strengthen clinical,						
biomedical, public health and health	2757	3511.2	4078.3	4705.3	5374.3	20426.1
system research for human health						
SO 2: To Build Data Science and	401	462.1	519.4	532.7	549.6	2464.8
Knowledge Management Systems			313.1	332.7	3 13.0	2 10 1.0
KRA 2: Innovation and Product D	evelopme	nt				
SO 3: To undertake scientific and	654	728.9	776.8	885	1038.5	4083.2
technological innovation		7 2015	77010	003	1030.3	100312
KRA 3: Disease surveillance and r	esponse	1		1		
SO 4: To strengthen disease	53	185	70	148	89	545
surveillance systems						0.0
KRA 4: Research Capacity Buildin	g				<u> </u>	ı
SO 5: To build human health	93.4	112.3	132.1	147.2	149.8	634.8
research capacity						33
KRA 5: Financial Sustainability	T	T	T	T	T	Ī
Strategic Objectives 6: To		4.0				
strengthen and establish strategic	23	18	21.5	8	8.5	79
partnership and collaboration						
Strategic Objectives 7: To enhance	80	88.5	99.5	110.9	123.5	502.4
financial sustainability						
Strategic Objectives 8: To	120.2	120 5	142.0	122.0	142 5	677.0
Reengineer Internal Business	128.2	129.5	142.8	133.8	143.5	677.8
processes						
KRA 6: Institutional Strengthenin	g	l	1	l	l	
SO 9: To Build Institutional Human Capital	3555.5	3927.5	4304.7	4593.2	5041.5	21422.5
SO 10: Strengthen Planning,	33.5	32	42.2	38.2	45.5	191.4
Monitoring and Evaluation	ر.ر	32	74.4	30.2	רירב	191.7
SO 11: To Establish and Upgrade Infrastructure	2068	2566.5	2224.5	2138.5	1659.5	10657

SO 12: Establish Resilient ICT System	92	111	113	111	113	540
Sub Totals	9938. 6	11872 .5	12524 .8	13551 .8	14336. 2	62224
Other Budgetary Items						
Utilities and other operational costs	871	1,002	1,152	1,325	1,524	5,874
Grand Totals	10,80 9.6	12,87 4.5	13,67 6.8	14,87 6.8	15,860. 2	68,098

Table 5.2 Projected Cash Flows/ Budget for the financial years 2023-2028 in Kes (Million)

Particulars	Baseline 2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	Totals
Government of Kenya	and Local I	Partners					
GoK- Recurrent	2,707	3,087	3,666	4,216	4,848	5,576	21,393
GOK- Capital Expenditure grants	57	100	200	371	408	449	1,528
GOK- Local Research Grants	456	500	550	605	665	732	3,052
Local partners and collaborators	-	5	10	15	20	25	75
Sub Total	3,220	3,692	4,426	5,207	5,941	6,782	26,048
External Grants	<u> </u>						
External Research grants	5,331	6,451	7,096	7,805	8,586	9,445	39,383
External development grants	-	-	600	600	600	600	2,400
Sub Total	5,331	6,451	7,696	8,405	9,186	10,045	41,783
Internally Generated I	Revenue						
Commercial Enterprises	70	74	77	85	93	101	430
Graduate School fees	17	18	19	20	21	22	100
Corporate consultancy services, SERU/ Attachment	9	10	10	11	13	15	59
Patient services (staff clinics)	2	2	2	3	3	3.5	13.5
Specialized laboratory services	38	38	38	39	43	45	203
Food handler's certification and lab services	9	9	9	10	11	12	51
Hire of facilities and rent	30	30	30	33	36	39	168
Overheads	402	486	535	588	647	712	2,968
Subtotal	667	720	789	867	950	667	3,993
Grand Total	9,128	10863	12,911	14,479	16,077	17824	71,824

Table 5.3 Resource Gaps

Financial Year	Requirement (Kes Million)	Estimated Resource Allocations (Kes Million)	Variance (Kes Million)
Year 1: 2023/2024	10809.6	10863	53.4
Year 2: 2024/2025	12874.5	12,911	36.5
Year 3: 2025/2026	13,676.85	14,479	802.15
Year 4: 2026/2027	14876.85	16,077	1,200
Year 5: 2027/2028	15,860.20	17824	1,964
Total	68098	71,824	3,726

5.2 Resource Mobilization Strategies

The effective implementation of this strategic plan is contingent to availability of the required resources. The expansion of Institutes mandate, emerging and re-emerging diseases and need to expand health infrastructure calls for more financial resources. The Institute will explore the following additional sources of revenue for the operationalization of the Plan:-

- i) Lobbying for increased annual funding by the exchequer;
- ii) Enhance commercialization of research products, move into vaccine development and enhance product innovation;
- iii) Increase proposal writing to attract solicited and unsolicited grants;
- iv) Enhanced provision of health services;
- v) Sustaining existing partners and establishing linkages with new partners and collaborators;
- vi) Identify and lobby local partners and industry players to support research;
- vii) Identify and engage local and international Philanthropist to support research for human health;
- viii) Enrol more students and provide competitive courses by the graduate school to generate revenue.

5.3 Resource Management Strategies

The Institute shall ensure proper management of resources by adopting the following strategies: -

- i) Automation and digitization of internal processes
- ii) Proper recruitment and appropriate deployment of skilled workforce;
- iii) Motivating employees to ensure high levels of task engagement;
- iv) Adopt green energy technologies;
- v) Pooling of equipment;
- vi) Having robust monitoring and evaluation system;
- vii) Ensuring competitive procurement process
- viii) Establish research teams and strengthen collaborative research;
- ix) Capacity building on governance and leadership.

CHAPTER SIX

MONITORING, EVALUATION AND LEARNING

Overview

This chapter presents the institutional framework for monitoring, evaluation and reporting of this Strategic Plan. In addition, the chapter presents learning mechanism to be deployed during strategic management process. A detailed implementation matrix with clearly outlines Key Results Areas, objectives, strategies, activities, outputs, KPIs, targets, expected timelines and resource allocation for the next five years annexed to this plan shall guide M&E activities.

6.1 Monitoring Framework

Strategic activities associated with the implementation of this Strategic Plan will be closely monitored and tracked on regular basis to ensure they are achieved. Monitoring will also establish whether the strategy implementation is on course and identify areas of challenges that requires to be addressed. The Strategic Plan will be cascaded to and implemented at department and unit levels through Annual Work Plans (AWP).

The data to inform M&E shall be collected through quarterly, semi-annual and annual departmental performance reports. Monitoring will include collection and analysis of data, analysis of progress reports, review meetings, budgetary control, performance systems and reports from special committees. Monitoring data and reports shall be collected on a quarterly basis by all functional departments and collated by the M&E departments.

The Institute will establish Strategic Plan implementation committee to support implementation, monitoring and evaluation. The Directorate of Strategy and Compliance shall facilitated monitoring by:-

- Putting in place an Integrated Performance Management System (PMS) that will ensure everyone is accountable for the attainment of set targets and use of resources;
- ii) Developing standard tools and instruments for data collection and reporting;
- iii) Clearly spelling out the documents to be prepared, periods to be covered and details of information to be provided by various departments and units.

6.2 Performance Standards

The performance standards shall be based on the qualitative and qualitative measures found in the strategy implementation plan which illustrate the performance measures in terms of expected outcomes and Key performance Indicators (KPI) or outputs indicators, targets for each year, timelines for key activities to be achieved and related costs. These standards will help gauge the extent to which each strategic activity will be achieved.

Strategic Theme teams shall be created to oversee execution of activities of KRA according to the set performance targets. The composition of the teams shall be as follows:-

- i) **KRA 1:** Health Research and Innovation- Director Research and Development, Director Capacity Building, Director Partnership and Grants Management, and Director Strategy and Compliance.
- **ii) KRA 2:** Financial Sustainability- Director Corporate Services, Director Capacity Building, Director Scientific Programmes, Partnership and Grants Management and Director Strategy and Compliance.
- **iii) KRA 3:** Internal Business Processes- Director Corporate Services, Director Strategy and Compliance, Director Scientific Programmes, Partnership and Grants Management, HOD Administration, HOD SCM, HOD ICT and HOD HRM
- **iv) KRA 4:** Organizational Capacity Development- Director Research and Development, Director Corporate Services, Director Capacity Building, Director Strategy and Compliance HOD Administration, HOD SCM, HOD ICT and HOD HRM.

6.3 Evaluation Framework

The Institute shall evaluate strategy to establish how well it's been implemented and executed. Annual evaluations shall be linked with individual employee performance targets and to be cumulated at the Directorate or unit level to establish the extent to which collective efforts has influenced strategy implementation. The annual evaluation report shall inform the annual budget and reporting on performance contracting obligations. In addition, two major Strategic Plan evaluation are foreseen during the plan period, these are mid-term evaluation; and end term evaluation. However, an ad hoc evaluation arise in the event that Strategy implementation experience hardships.

During the review process baseline data across all the strategic objectives that showed the Institute situation before interventions, shall help show progress made. A midterm strategy review shall be undertaken in the financial year 2025/2026 to specify the progress made towards achieving set targets and generate recommendations that will be used to improve the strategic plan implementation process for the remaining period. At the end of the strategic plan period an End-term evaluation shall be conducted.

6.3.1 Medium Term Review

In the third year, the strategic plan midterm review shall be conducted by an external party and a detailed Review Report submitted to the Institute. The evaluations will entail the following:-

- a) Measuring actual performance against target levels;
- b) Establishing variances, if any, and identifying the causal factors;
- c) Identifying areas of challenges that adversely affects implementation;

d) Determining alternative solutions and recommending appropriate actions or remedial measures to get back to track.

6.3.2 End- Term Evaluation/Terminal Review (TR)

At the end of the strategic plan period, there will be an external evaluation to get a summative report on the extent to which the strategic plan achieved its planned activities. The evaluation will help in drawing lessons that will help in the next phase of strategic management processes

6.4 Reporting Framework and Feedback Mechanism

Information on the execution of the strategy shall be provided on a continuous basis through reports. Monitoring and evaluation will be continuous throughout the five years of strategic plan implementation. There shall be four different reports for M&E evaluation as follows: -

- i) **Quarterly Progress Report (QPR)**: To enhance programs and project performance, KEMRI shall adopt a Quarterly Internal Review of Projects (IPRs). This involves specific project and program reviews against quarterly set targets on key performance indicators along budgets and compliance to the strategic plan.
- ii) **Annual Review Report (ARR)**: At the end of every financial year, an annual progress report will be prepared that objectively highlights key achievements against set targets, comprising of both physical progress and financial status, constraining factors, lessons learned and recommendations on the way forward. The strategic plan implementation cycle shall provide opportunities for learning from successes and failures alike. Learning forms an integral part of this strategy. The learning shall involve: -

KEMRI will put in place an aggressive dissemination strategy to ensure that strategic plan, quarterly and annual reports on strategy implementation s are widely disseminated to influence effective programme and project management and policy making. Forums like meetings, review workshops, retreats, and seminars will be organized annually for the secretariat and stakeholders as strategy sensitization forum where learning and knowledge sharing opportunities shall be utilized. Other channels such as newsletters, news releases, press conferences, public debates and electronic (e-mail, social media, websites) transmission will also be used as channels of learning.

Wider sharing of strategic plan through Institute website, SharePoint, knowledge portal, group emails, social media etc. to increase knowledge, understanding, generate interest in and support for strategy implementation;

i) Strategic plan shall be shared with strategic stakeholders externally to create broader opportunities for funding of special programme and projects;

- ii) Feedback of strategy implementation progress reported through quarterly, annual and medium term reviews shall be shared to inform adaptive management and the application of best practices to address identified failures and translate them to opportunities;
- iii) Identification of knowledge and resource gaps that may need to be addressed concurrently during strategy implementation.

The Learning shall take place through management meetings, strategy reflection workshops, and lessons learning events to be organized by the Directorate of Strategy and Compliance. During strategy executions, M&E department shall document what has been achieved, what processes worked, what did not work and why; how will future projects be planned, what hindered delivery of the strategic activities and what advice to give to future strategy executing team based on learned experiences.

6.5 Key Assumptions

The Strategic Plan 2023-2028 has been developed and will be implemented with the following key assumptions: -

- i) Political stability in the country and the region
- ii) Continued budgetary allocation from the national government of Kenya;
- iii) Willingness and support from the research participants
- iv) Continued partnership with County Governments
- v) Enhanced and sustained working relationship with partners and collaborators;
- vi) Resilience ICT infrastructure to respond to dynamic needs and security threats
- vii) Uptake of research findings to inform policy review and development

ANNEX I: IMPLEMENTATION PLAN

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	пе			mated Millio		get in		Respo	nsibility
		·		5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y 5	Lead	Support
	ch for Health earch products that le ectives 1: To strengthe						em res	searc	h for	huma	an hea	alth				
1.1. Identify research priorities to inform health	Conduct research in Non-Communicable Diseases	New research proposals developed	No of new studies approved and implemented	224	40	42	45	47	50	400	462	54	611	70 0	DRD	DD Centres / Heads of programme s
research agenda and conduct research	Conduct research in Neglected Tropical Diseases	New research proposal	No of new studies approved and implemented	40	6	7	8	9	10	60	77	96	117	14 0	DRD	DD Centres / Heads of programme s
	Conduct research in Infectious and Parasitic diseases	New research proposal	No of new studies approved and implemented	450	80	85	90	95	10 0	800	935	108	1235	14 00	DRD	DD Centres / Heads of programme s
	Conduct research on Sexual, Reproductive, Adolescent & Child Health	Research conducted on sexual, Reproductive, Adolescent & Child Health	No of new research proposals developed and implemented	270	50	52	54	56	58	500	572	64 8	728	81 2	DRD	DD Centres / Heads of programme s
	Carry out research on antimicrobial Resistance (AMR)	Research on antimicrobial Resistance (AMR) conducted	No of new research studies conducted	30	2	4	6	8	10	20	44	72	104	14 0	DRD	DD Centres / Heads of programme s
	Conduct mental health research	No of new studies in mental health	No of new studies approved and implemented	30	2	4	6	8	10	20	44	72	104	14 0	DRD	DD Centres / Heads of programme s

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	ne			mated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Carry out research in food and nutrition (National survey)	Studies on food and nutrition conducted	No of studies on food and nutrition conducted	20	2	3	4	5	6	20	33	48	65	84	DRD	DD Centres / Heads of programme s
1.2. Conduct public health and health system research to	Conduct studies on availability and access to essential health services in the country	Availability and access studies conducted	research studies approved and implemented	10	2	2	2	2	2	20	22	24	26	28	DRD	DD Centres / Heads of programme s
inform Universal Health coverage (UHC) Agenda	Conduct studies on financial risk protection in the country	Financial risk protection studies conducted	No of new research studies approved and implemented	5	1	1	1	1	1	10	11	12	13	14	DRD	DD Centres / Heads of programme s
	Conduct costing studies to support appropriate costing for various elements of the essential benefit package for UHC in the country	New costing studies conducted	No of new research studies approved and implemented	5	1	1	1	1	1	10	11	12	13	14	DRD	DD Centres / Heads of programme s
	Conduct research tracking and analyze health system resilience in the country	Studies on tracking and analysis of health system resilience conducted	No of new research studies approved and	5	1	1	1	1	1	10	11	12	13	14	DRD	DD Centres / Heads of programme s
	Conduct behavioral and social science research	Approved studies	No of new research studies approved and	70	10	12	14	16	18	100	132	16 8	208	25 2	DRD	DD Centres / Heads of programme s

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	ne			mated Millio		get in		Respo	onsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Carry out food handling and safety testing	Food handlers tested	No of food handlers tested	95,0 00	17,0 00	18, 00 0	19, 00 0	20 ,0 00	21, 00 0	17	18	19	20	21	DRD	DD Centres / Heads of programme s
		Surveillance studies on food safety conducted	No of surveillance studies on food safety conducted	11	1	2	2	3	3	10	22	24	39	42	DR D	DD Centres / Heads of programme s
	Conduct oral health research	Approved studies	No of new research studies approved and implemented	10	2	2	2	2	2	20	22	24	26	28	DRD	DD Centres / Heads of programme s
	Conduct research on health systems inputs to inform prioritization of UHC investment	Research on health systems input	No of new research studies approved and implemented	5	1	1	1	1	1	10	11	12	13	14	DRD	DD Centres / Heads of programme s
	Conduct research on Health system performance to track UHC implementation	Research on health systems performance conducted	No of new research studies approved and implemented	5	1	1	1	1	1	10	11	12	13	14	DRD	DD Centres / Heads of programme s
1.3. Evaluate the effectiveness and efficiency of the health care systems	Carry out population studies to establish population health outcomes, determinants, policies and interventions	Population studies conducted and implemented	No of new population studies conducted	5	1	2	3	4	5	10	22	36	52	70	DRD	DD Centres / Heads of programme s

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imeliı	пе			matec Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Carry out research in Health Systems leadership and governance	Research studies conducted in Health Systems leadership and governance	No of new research studies approved and implemented	15	3	4	5	6	7	30	44	60	78	98	DRD	DD Centres / Heads of programme s
	Conduct research in health economics	Approved studies	research studies approved and implemented	5	1	1	1	1	1	10	11	12	13	14	DRD	DD Centres / Heads of programme s
1.4 Utilize OMICS technologies to characterize biological molecule collections for precision	Undertake surveillance, sequencing and characterization of pools of biological molecules (OMICS and precision medicine Research)	Full genomes, Genes and Biomarkers deposited in open databases	No of genomes, genes, proteins and metabolites deposited in open databases	405	75	80	80	85	85	93	99	99	105	10 5	DRD	DD Centres / Heads of programme s
medicine research and disease surveillance	Carry out research in stem cell	Stem Cell Pre- clinical applications developed	No of Pre- clinical applications developed	5	1	1	1	1	1	91	91	10 0	114	11 4	DRD	DD Centres / Head programme s
and response	Carry out research in Nanotechnology	Ongoing research studies	No of ongoing studies	5	1	1	1	1	1	15	15	16	16	17	DRD	DD Centres / Heads of programme s
1.5. Enhance research in climate change, environmental and	Implement One health approaches to address health threats in human, animal and environment	Research in one health conducted	No of new research proposal developed and implemented	35	3	5	7	9	11	30	55	84	117	154	DRD	DD Centres / Heads of programme s

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	ne			mated Millio		get in	l	Respo	nsibility
		·		5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
occupational health	Provide evidence based solutions to environmental health hazards	Studies on environmental health conducted	No of new research studies approved and implemented	5	1	1	1	1	1	10	11	12	13	14	DRD	DD Centres / Heads of programme s
	Conduct research in climate and climate change	Studies on climate change undertaken	No of new research studies approved and implemented	5	1	1	1	1	1	10	11	12	13	14	DRD	DD Centres / Heads of programme s
	Develop predictive models to forecast health events	Predictive models developed	No of predictive models developed	3		1		1	1		5		5	5	DRD	DD Centres / Heads of programme s
	Conduct environmental and occupational health research	Research on environmental and occupational health conducted	No of new research studies approved	3		1	1	1	1		11	12	13	14	DRD	DD Centres / Heads of programme s
1.6:Strengthen biosafety, biosecurity and biodefence	Carry out studies on Biosafety, Biosecurity and Biodefence	Studies on Biosafety/ biosecurity and biodefence conducted	No of new studies on Biosafety/ biosecurity and biodefence conducted	5	1	1	1	1	1	10	11	12	13	14	DRD	DD Centres / Heads of programme s
	Assess and identify initiatives for management and containment of biological agents	Assessment report on containment of biological agents developed	No of assessment reports	5	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	DRD	DD Centres / Heads of programme s

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	ne			mated Millio		get in		Respo	Responsibility	
		•		5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support	
	Upgrade and maintain Pathogen Repository management	Pathogen repository management systems	% Implementatio n	100 %		60 %	10 0%				10	7			DRD	DD Centres / Heads of programme s	
	Systems	implementation	Licenses Annual subscription	1			1	1	1			2	2	2	DRD	DD Centres / Heads of programme s	
	Train staff on bio- defense, biosafety and biosecurity	Staff trained	No of staff trained	890	120	15 0	17 0	200	25 0	2	2.2	2.5	2.7	3	DRD	DD Centres / Heads of programme s	
1.7. Strengthen research regulatory process and	Carry out research in Bioethics	New studies on Bioethics conducted	No of new studies approved and implemented	5	1	1	1	1	1	5	5	5.5	6	6.5	DRD	Head SERU	
oversight	Monitor and evaluate implementation of research projects for ethical compliance	Research projects monitored and evaluated for ethical compliance	No of research projects monitored and evaluated	30	6	6	6	6	6	2.5	2.5	3	3	3.5	DRD	Head of SERU	
	Build capacity of scientists on research governance, scientific integrity, and bioethics	Participants trained on research governance, scientific integrity and bioethics	No of participants trained	250	50	50	50	50	50	2.5	2.5	2.5	2.5	2.5	DRD	Head of SERU	
	Establish partnerships and collaborations with other ethics and	Ethics and regulatory partners and collaborators	No of ethics and regulatory partners and collaborators	2	2	2	2	2	2	1	1	1.5	1.5	2	DRD	Head of SERU	

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for 5 years	Targets/ Timeline					Estimated Budget in KES Millions					Responsibility	
					Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	regulatory bodies through reliance agreements and MoUs.															
	Set Up and Operationalize Research Integrity Committee	Operational Research Integrity Committee	No. of RIC meetings held	10	2	2	2	2	2	2	2.2	2.2	2.5	2.5	DRD	Head of SERU
1. 8 Strengthen laboratories and clinical laboratory services	Enroll laboratories for external quality assurance	Labs enrolled for external quality assurance	No of labs enrolled	50	10	10	10	10	10	20	21	22	23	24	DRD	Head of SERU
	Acquire and maintain ISO certification and accreditations for all laboratories	ISO certification accreditation in all laboratories	No of Labs certified and accredited	20	20	20	20	20	20	8	8	8	8	8	DS&C	HOD lab, biosafety & safety
	Carry out laboratory equipment servicing and preventive maintenance	Lab equipment serviced	% compliance with annual preventive maintenance plan	100 %	100%	100%	100 %	100 %	100 %	30	32	34	36	38	DRD	HOD lab, biosafety & safety
	Register and maintain laboratory accreditation by KMLTTB	Registration of KEMRI labs handling human samples by KMLTTB	No of lab registered	20	8	8	4			9	9	3			DRD	HOD lab, biosafety & safety
			Annual license renewals	20		8	16	20	20		1	1.5	2	2.2	DRD	HOD lab, biosafety & safety
	Develop and operationalize laboratory service policy.	Laboratory policy approved	Laboratory policy	1	1					1					DRD	HOD lab, biosafety & safety

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	ne			nated Millio		get in		Respo	onsibility
		·		5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Register, license clinical and clinical research KEMRI facilities by KMPDC	Clinical research and services facilities registered and licensed	No of registered and licensed clinical research and services facilities		8	7			3	3	3	3	3	3	DRD	HOD lab, biosafety & safety
	Acquire modern diagnostic and therapeutic technologies/equipm ent	Diagnostic and therapeutic technologies/equip ment acquired	No of new equipment purchased	25	5	5	5	5	5	15 0	15 9	16 8	17 8	18 8	DRD	Centre Directors HOD lab, biosafety & safety
	Offer specialized diagnostic services	specialized diagnostic services offered	No of specialized diagnostic services offered	6,60 0,63 3	1,08 1,16 7	1,1 89, 28 4	1,3 08, 21 2	1, 43 9, 03 3	1,5 82, 93 7	32 4	59 4	65 4	71 9	79 1	DRD	Centre Directors HOD lab, biosafety & safety
	Carry out lab quality control, quality assurance and quality improvement of services (QA, QC, QI)	Quality audit of customer services	No of quality audit reports	5	1	1	1	1	1	6	6	6	6	6	DRD	Centre Directors HOD lab, biosafety & safety
	Develop and operationalize laboratory service policy	Laboratory service policy developed	Laboratory service policy approved and operational	1	1					2					DRD/ DCS	HOD lab, biosafety & safety
1. 9 Enhance Institute's participation in policy	Carry out strategic research and business intelligence	Strategic research and business intelligent report	No of reports	3	1		1		1	2		2.2		2.4	DRD	DD Centres / Heads of programme s

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	ne			matec Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
formulation and implementation	Participate in expert committees and Technical Working Groups (TWG) nationally	Expert committees and Technical Working Groups (TWG) involved	No of expert committees and Technical Working Groups (TWG) involved	100	20	20	20	20	20	2	2.2	2.4	2.6	2.8	DRD	DD Centres / Heads of programme s
	Participate in Regional and Global health Committees	Regional and Global health Committees involved	No of regional and global committees involved	27	5	5	5	6	6	4	4	5	5	5	DRD	DD Centres / Heads of programme s
	Develop evidence briefs, policy briefs and policy cafes	Evidence briefs, policy briefs and policy cafes developed	No of evidence/polic y briefs developed	50	6	8	10	12	14	1.2	1.6	2	2.4	2.8	DRD	DD Centres / Heads of programme s
	Train staff on evidence/policy briefs development	Staff trained on development of evidence and policy briefs	No of staff trained	400	40	50	60	70	80	0.5	0.5	0.5	0.6	0.6	DRD	DD Centres / Heads of programme s
Sub Totals										3445.	4363.	4852 3	5669.	6431.	2	4,761.3
Strategic Obje	ectives 2: To Build Da	ta Science and Knov	wledge Manage	ment S	ystem	ıs										
2.1 Develop data management, analytics and protection	Develop and implement data governance policies and procedures	Data governance policy and procedures developed and approved	Approved data governance policy and procedures	1	1					3					DRD	HoD DESI
strategies	Establish and equip data science center	Data center established and equipped	% level of completion	100 %			70 %	90 %	100 %			30	20	10	DRD	HoD DESI
	Establish statistic and informatics unit	Statistic/informatic s unit established	No of research projects	150	10	20	30	40	50	1	1	1	1	1	DRD	HoD DESI

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ T	imelii	ne			mated Millio		get in		Respoi	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
			supported and analyzed by the unit													
	Undertake data inventory	Data inventory system established	% level of completion of data inventory system	100 %		40%	60%	80 %	100 %		10	8	5	5	DRD	HoD DESI
	Develop Data Quality Assessment tools	Data Quality Assessment tools	No of Data Quality Tools developed	1	1					2					DRD	HoD DESI
	Build capacity of staff on data science	Staff competences on data science	No of staff trained on data science	15	3	3	3	3	3	5	5	5	5	5	DRD	HoD DESI
	Carry out epidemiological data analysis to inform research and decision making	Predictive models developed	No of predictive models developed	30	4	5	6	7	8	1.4	1.5	1.6	1.7	1.8	DRD	HoD DESI
	Explore Big data and AI in health research	Big data and Artificial Intelligence engines	No of big data and Artificial Intelligent en gines developed	22	3	4	5	5	5	120	150	150	150	15 0	DRD	HoD DESI
2.2: Enhance Knowledge management and knowledge translation process	Develop Knowledge Management policy & strategy	Knowledge Management strategy, implementation matrix and guidelines developed	Knowledge Management strategy sanitization forums	15	5	5	5	5	5	2.5	2.5	2.5	2.5	2.5	DRD	HoD KM

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	ne			nated Millio	l Budg ns	get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Conduct Research in knowledge management and translation and Intellectual property	Research protocols approved and implemented	No of protocols approved and implemented	5	1	1	1	1	1	3	3	3	3.5	3.5	DRD	HoD KM
	Build and sustain capacity of scientists on KM and KT	KM and KT trainings conducted	No of scientists trained	250	50	50	50	50	50	0.5	0.5	0.6	0.6	0.7	DRD	HoD KM
	Disseminate research outputs to various stakeholders	Conferences organized by KEMRI	No of conferences organized by KEMRI	15	3	3	3	3	3	24	24	24	24	24	DRD	Centres Directors / Heads of programm es/
		Abstracts developed	No of abstracts presented	100	200	220	240	260	28 0	50	54	60	66	72	DRD	Centres Directors / Heads of programm es/
		Research publications done	No of peer reviewed publications	213 4	350	385	423	465	51 1	175	193	212	233	25 6	DRD	Centres Directors / Heads of programm es/
		Seminars organized	No of Seminars organized by KEMRI	15	3	3	3	3	3	3	3	3	3	3	DRD	Centres Directors / Heads of programm es/
		Workshops done	No of workshops	15	3	3	3	3	3	3	3	3	3	3	DRD	Centres Directors / Heads of

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	пе			mated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
			Organized in KM													programm es/
		Webinars done	No of webinars Organized	120	12	18	24	30	36	1.5	1.6	1.7	1.8	1.9	DRD	Centres Directors / Heads of programm es/
		Blogs done	No of blogs created	38	6	6	8	8	10	1	1	1	1.1	1.2	DRD	Centres Directors / Heads of programm es/
	Develop new products and patent	Products developed and patented	No of products developed and patented	1		1		1	1		3		3.5	3.5	DRD	HoD KM
	Advocate for research evidence use/uptake for decision making	Knowledge translation engagement platforms	No of engagement forums	125	15	20	25	30	35	5	6	7	8	9	DRD	HoD KM
	Establish a repository for Knowledge Management products	Repository for Institute's knowledge products	Repository established	1			1					4			DRD	HoD KM
	Implement ISO 30401:2018 standard	ISO 30401:2018 Certified	ISO certificate	1			1					2			DRD	HoD KM
Sub Totals										400 .9	459. 1	519. 4	529. 2	549. 6		

KRA 2: Innovation and Product Development
Strategic Objectives 3: To undertake scientific and technological innovation

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ T	imeliı	ne			nated Millio	l Budg ns	get in		Respo	onsibility
		·		5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
3.1 Enhance innovation and technology development in	Undertake diagnostics, Vaccine discovery and development	Diagnostic kits developed	No of new diagnostic kits developed	5	1	1	2	2	2	20	20	40	45	50	DRD	DD Centres / Heads of programme s
the area of human health	research	Vaccine discovery and development research	No of vaccines developed	1	1	1	1	1	1	10 0	10 0	10 0	10 0	15 0	DRD	DD Centres / Heads of programme s
	Undertake drugs and therapeutics research	Drugs and therapeutics products developed	No of drugs and therapeutic products developed	1	1	1	1	1	1	10 0	12 5	12 5	15 0	20	DRD	DD Centres / Heads of programme s
		Natural products developed	No of natural products proposals developed and implemented	1	1	1	1	1	1	10 0	10 0	10 0	14 0	16 0	DRD	DD Centres / Heads of programme s
		Drugs Repurposed	No of drugs repurposed	1	1	1	1	1	1	50	50	60	62	65	DRD	DD Centres / Heads of programme s
	Adopt emerging technologies in health research	New technologies adopted	No of new technologies adopted	5	1	1	1	1	1	15	17	19	21	23	DRD	DD Centres / Heads of programme s
	Develop new technologies for disease control, prevention and	Disease control, prevention and management technologies and	No of technologies and strategies developed	3	1		1		1	15 0	15 2	15 5	15 8	16 0	DRD	DD Centres / Heads of programme s

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelir	1e			nated Millio		get in		Respo	onsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	management strategies	strategies developed														
	Conduct research on indigenous technologies for Manufacture of Natural Products	Natural products developed research proposals	No of natural products studies completed	5	1	1	1	1	1	10 0	10 3	10 5	14 0	16 0	DRD	DD Centres / Heads of programme s
3.2 Establish incubation Centers	Develop incubation strategy and policy	Incubation strategy developed and approved	Approved Incubation strategy & policy	1	1					2					DRD	HoD ITTD
	Build capacity of innovators through training and mentorship	Innovators trained and mentored	No of innovators trained/mentor ed	50	10	10	10	10	10	5	5	6	6	6.5	DRD	HoD ITTD
	Establish, maintain and update database of existing and potential innovations and innovators	Databases of innovations and innovators established	Database of innovations and innovators established	1		1					1.5				DRD	HoD ITTD
	Establish and maintain incubation platform	Incubation technology platform established	No of Incubation platform developed	1		1					40				DRD	HoD ITTD
			No of new technologies produced	3			1	1	1			50	50	50	DRD	HoD ITTD
3.2: Link research to policy-makers,	Carry out business intelligence to identify potential	Business intelligent research conducted	No of business	5	1	1	1	1	1	2	2.2	2.4	2.6	2.8	DRD &	DD Centres / Heads of

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelir	1е			mated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
academia and industry in the health products value chains	areas of linkage(Assess product market value and end user perspective)		intelligent survey reports													programme s
	Carry out corporate consultancy services	Consultancy services provided by KEMRI	No of consultancies conducted	4		1	1	1	1		2.2	2.4	2.6	2.8	DRD	DD Centres / Heads of programme s
	Commercialization of technologies, diagnostic kits and product	Commercial products/technolog ies	No of products and technologies commercialize d	5	300, 000	33 0,0 00	36 3,0 00	39 9, 30 00	43 9,2 30	10	11	12	13	14	DCS	HoD CE
Sub Totals										19	61.9	72. 8	69	70. 5	19	293.2
	Surveillance and Re	•														
	ctives 4: To strengthe															
4.1.Strengthen capacity for early disease detection and timely response	Revamp existing HDSS / hospital- based surveillance systems	HDSS and hospital-based surveillance systems revamped	No of HDSS systems and structures revamped	1		1					60	20	23	25	DRD	DD Centres / Heads of programm es
to bio threats, non-communicable and communicable diseases	Develop and pilot new HDSS/hospital- based surveillances systems to cut across strata of hospital levels	Develop HDSS/ hospital-based surveillances systems established & piloted	No of new HDSS established and operational	10	2	2	2	2	2	53	55	70	88	89	DRD	DD Centres / Heads of programm es

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ T	imeliı	ne			mated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Establish satellite laboratories for diseases surveillance and early disease detection	Satellite laboratories established	No of satellite laboratories established	2		1		1			50	50	60	60	DRD	DD Centres / Heads of programm es
	Create and maintain disease, pathogen, vectors and surveillance systems and dashboards	Disease, pathogen, vector and surveillance system established	No of disease, pathogen, vectors and surveillance system established	1		1					15	15	20	20	DRD	DD Centres / Heads of programm es
	Create and maintain population dynamics dashboards	Population dynamics dashboard developed	No of dashboards developed	1		1					5	3	3	4	DRD	DD Centres / Heads of programm es
Sub Totals										53	185	70	148	89	545	
KRA 4: Researe Strategic Obje	ch Capacity Building ctives 5: To build hun	nan health research	capacity							1			•	•		
5.1 Develop and implement post graduate degree	Offer academic degree programmes in line with the specialized areas of	Postgraduate academic programmes developed	No of PhD academic programmes introduced	4				4						4	DRCB	DDTP
programmes and other capacity	focus	, '	No of MSc programmes introduced	4		4					4				DRCB	DDTP
development courses		Implement an ERP module to manage student records	% of completion of rollout of ERP 2 module	100 %	50%	100%				4.5	2				DRCB	ICT

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ T	imeli	ne			mated Millio		get in		Respo	nsibility
		·		5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
		and KGS documents														
	Develop and align academic programmes to meet evolving health needs	Academic programmes aligned to evolving health needs	No of PhD academic programmes reviewed	4			4					4			DRCB	DDTP
		Academic programmes aligned to evolving health needs	No of MSc academic programmes reviewed	4					4					4	DRCB	DDTP
	Development and maintain an e- learning platform	e-learning platform developed	No of E- learning platforms developed	1	1					2				2	DRCB	DDTP, ICT
			E-learning platform subscription renewal	100 %		100%	100%	100 %	100%		2	2	2	2	DRCB	DDTP, ICT
	Offer library and journal support to KEMRI staff and	Library and journal services offered	No of persons utilizing library services	200 0	300	350	400	450	50 0	10	10.5	11	11.5	12	DRCB	Library, DDTP
	students		No of publications in KEMRI Journal	250	40	45	50	55	60	2	2.5	3	3.5	4	DRCB	Journal, DDTW
	Pursue Graduate School Charter	Charter Awarded	Charter	1		1					10				DRCB	DDTP
	Carry out student enrolment	Postgraduate students enrolled	No of adverts and exhibitions in various for a	10	2	2	2	2	2	4	4	4	4	4	DRCB	DDTP

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	ne			mated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
			No. of students enrolled in the ongoing collaboration with JKUAT	330		110	11 5			1	1	1			DRCB	DDTP
			No. of PhD students enrolled after award of Charter	115	20	20	20	25	30	0.5	0.5	0.5	0.5	0.5	DRCB	DDTP
			No. of MSc students enrolled after award of Charter					70	10				1	1	DRCB	DDTP
			Students pastoral supervision established and maintained	1	1					1	1	1	1	1	DRCB	DDTW
	Recruit lecturers	Lecturers and supervisors recruited	No of lecturers and supervisors recruited on part time basis	105	35	35	35			5	5	5			DRCB	DDTP
			No of lecturers and supervisors	52	8	8	12	12	12	25	25	37. 5	37.5	37. 5	DRCB	DDTP

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imeli	ne			mated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
			recruited on full time basis													
	Establish endowment funds for scholarship , fellowships and grants	Scholarship & fellowship programmes created	No of students awarded scholarships	152	20	20	32	40	40	17	17	27	34	34	DRCB	DDTW
			No of postdoctoral trainees awarded	56	10	10	16	20	20	12.5	12.5	20	25	25	DRCB	DDTW
	Establish alumni and diaspora linkage programmes	Diaspora linkage programmes established	Diaspora linkage programmes approved and operational	1	1					0.5	0.5	0.5	0.5	0.5	DRCB	DDTW
	Mainstream sandwich programmes with other institutions	Sandwich programmes with other institutions established	No of MOUs signed with other institutions	8	1	2	2	2	2	0.3	0.5	0.5	0.5	0.5	DRCB	DDTW
		Student exchange programmes established	No of student exchange programmes	5	1	1	1	1	1	0.3	0.3	0.3	0.3	0.3	DRCB	DDTW
		Student exchange programmes established	No of student exchanged	5	1	1	1	1	1	2	2	2	2	2	DRCB	DDTW
		School Engagement Program established	No of students engaged	500	100	100	10	100	10	1	1	1	1	1	DRCB	DDTP

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imeli	ne			mated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Offer specialized market driven short courses	Specialized market driven courses offered	No of students trained on specialized market driven short courses	920	100	140	18 0	220	28	2.8	4	4.8	5.9	7.5	DRCB	DDTP
	Establishes student linkages with KEMRI scientists	KGS Students linked to ongoing research projects	No of students linked to ongoing research projects	250	50	50	50	50	50	1	1	1	1	1	DRCB	DDTW
		Engagement forums held	No of seminars organized	5	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	DRCB	DDTP
		Students attached to the industry	No of students attached to the industry	250	10	20	40	80	10 0	0.5	0.5	0.5	0.5	0.5	DRCB	DDTW
		External students and scientists linked to KEMRI scientists and facilities	No. of external students and scientists linked to KEMRI scientists	100	50	50	50	50	50						DRCB	DRTW
	Support the county governments and the region in	Satellite offices established and furnished	No of offices established	2	1		1				10		10		DRCB	DDTW
	capacity development of healthcare practitioners	County governments healthcare practitioners trained	No of healthcare practitioners capacity build	430	50	80	10 0	100	10 0		5	5	5	5	DRCB	DDTP
Sub Totals										93.4	112. 3	132. 1	147. 2	149. 8		534.8

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ T	imelii	ne			mated Millio		get in		Respor	sibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
Outcome: Inst	ial Sustainability itute sound financial hea actives 6: To strengthe		egic partnership ar	nd collab	oratio	า										
6.1 Strengthen strategic and mutual beneficial partnerships and	Define clear areas of collaborations and partnerships	Priority areas of partnership and collaborations defined	Report on prioritized areas of partnership and collaborations	3	1		1		1	0.5		0.5		0.5	DRCB	Head of programs & HOD GM
collaborations to grow health research	Strengthen new strategic alliances local, regional and global	New strategic alliances established	No of new signed contracts/MoU s	15	3	3	3	3	3	0.5	0.5	0.5	0.5	0.5	DSPG M	Cluster coordinato rs
		Engagement with county governments	No of MOUs signed with county government	7	2	3	2			10	10	10			DSPGM	Cluster coordinato rs
	Undertake periodic reviews of partnership and collaboration agreements	Partnership and collaboration agreements reviewed	No of MOUs reviewed	10	2	2	2	2	2	1	1	1	1	1	DSPGM	Head of programs & Head of grants mgt
	Participate in Institute external evaluation	External evaluation reports	No of external evaluation reports	2		1		1		3		3			DSPGM	Head of programs & Head of grants mgt
	Sensitize partners and collaborators on the institutes policies & research priorities	Partners and collaborators sensitized on the	No of sensitization forums held	10	2	2	2	2	2	2	2	2	2	2	DSPM	Head of programs & Head of

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelir	пе			mated Millio	d Budg ons	get in		Respor	sibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
		institutes policies & research priorities														grants mgt
6.2 Enhance Institutional end to end	Develop, review and implement grant management policy,	Grant management policy developed and approved	Grant management policy approved	1	1					0.5					DSPGM	Head of programs & Head of
grant management processes	guidelines and standards	Grant management standards and guidelines developed and approved	No of Standards and guidelines	1	1					0.2						grants mgt
	Map out grant calls and guide scientists in applications	Guided grant applications	No of successful guided grant applications	4	6	7	10	12	15	1	1	1	1	1	DSPGM	Head of programs & Head of grants mgt
	Train scientists on grant management	Scientists trained on grant management	No of scientists trained on grant management	400	50	75	75	10 0	10 0	4	3	3	3	3	DSPGM	Head of programs & Head of grants mgt
	Participate in project closure	End of project commission reports	No of projects closed	67	30	27	12	15	20	0.5	0.5	0.5	0.5	0.5	DSPGM	Head of programs & Head of grants mgt
Sub Totals										23.2	18	21.5	8	8.5		79.2

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ T	Timeli	ne			nated Millio	l Budg ns	get in		Respo	nsibility
		·		5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
7.1 Expand and grow revenue	Lobby for increased exchequer funding	Recurrent	Amount received in Ksh	2161 3	3307	366 6	421 6	484 8	55 76	4	4	4	5	5	DCS	DD FA
		Research grants	Amount received in Ksh	3,052	500	55 0	60 5	665	73 2						DCS	DD FA
		Development grant	Amount received in Ksh	1,528	100	20 0	37 1	408	44 9						DCS	DD FA
	Increased corporate research grant application (NRF, Sports Fund etc.)	Enhanced corporate research grants	Amount received in Ksh	1,900	300	30	40 0	400	50	3	3	3	3.5	3.5	DRD	DD Centres
	Increase external research grant	Enhanced research grants	Amount received in Ksh	39,38 3	6,45 1	7,09 6	7,80 5	8,58 6	9,4 45	20	22	25	28	30	DRD	DD Centres
	Lobby for external infrastructure development grants	Enhanced research infrastructure development grants	Amount received in Ksh	3600	400	80	80	800	80	5	5	5	5	5	DG	DD Centres
	Research overheads	Increased research overheads	Amount received in Ksh	2968	486	53 5	58 8	647	71 2	3	3	4	4	5	DRD	DD Centres
	Commercial Enterprises	Increased revenues	Amount received in Ksh	590	94	10 4	11 5	126	15 1	22	26	31	37	45	DCS	DD Commercial
	Graduate school	Increased revenues	Amount received in Ksh	94	17	17	18	20	22	5	5	5. 5	6	6	DRCB	DD Training program & trainee welfare

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelii	пе			mated Millio		get in		Respo	onsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Corporate consultancy services DNA/ SERU/ Attachment	Increased revenues	Amount received in Ksh	58	10	10	11	13	14	3	3	3.3	3.9	4.2	DRD/ DCS	DD Centres / Heads of programmes
	Patient services (staff clinics)	Increased revenues	Amount received in Ksh	30	3	5	7	7	8	0.9	1.5	2.1	2.1	2.4	DRD/ DCS	DD Centres / Heads of programmes
	Specialized laboratory services	Increased revenues	Amount received in Ksh	22	2	5	5	5	5	0.6	1.5	1.5	1.5	1.5	DRD/ DCS	DD Centres / Heads of programmes
	Catering services (CCR/ CPHR)	Increased revenues	Amount received in Ksh	35	5	6	7	8	9	1.5	1.8	2.1	2.4	2.7	DRD/ DCS	DD Centres / Heads of programmes
	Food handler's certification and lab services	Increased revenue	Amount received in Ksh	51	9	9	10	11	12	2.7	2.7	3	3.3	3.6	DRD/ DCS	DD Centres / Heads of programmes
	Rent and hire of facilities	Increased revenues	Amount received in Ksh	168	30	30	33	36	39	9	9	9.9	10. 8	11. 7	DCS	DD Centres / Heads of programmes
7.2 Implement cost saving measures	Carry out energy audit and Implement recommendations	Adoption of best practices in energy management	Energy audit conducted and implementatio n	1	1					3					DCS	DD Admin
	Adopt water saving technologies in the Institute (Install water tap sensors)	Reduced cost of operations	Amount saved (KES)	4		1	1	1	1		2	2	0.1	0.1	DCS	DD Admin
	Pool maintenance contracts for similar equipment	Contracts with vendors	Amount saved from service contracts signed (KES)	20	3	3	4	5	5						HOD SCM	Senior SCM Officers

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imeliı	ne			nated Millio	l Budg ons	get in		Respo	nsibility
		·		5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Adopt paperless transaction in internal processes	Digitized internal processes	Amount saved (KES)	18	3	3	4	4	4	0.6	0.6	0.8	0.8	0.8	HOD SCM	DD Admin
	Conduct market survey and implement market prices in procurement of goods and services	Market survey report	Amount saved (KES)	8		2	2	2	2		0.8	0.8	0.8	1	HOD SCM	Senior SCM Officers
	Undertake bulk procurement of common user items	Bulk Procurement undertaken	Amount saved (KES)	15	3	3	3	3	3	0.3	0.3	0.3	0.5	0.5	HOD SCM	DD Admin
7.3 Institute Public Private Partnership	Engage Public Private partnerships	Signed agreements	Amount received from PPP (KES)	15	3	3	3	3	3	0.8	0.8	1	1	1	DSPG M	Head of partnership
	Engage local philanthropists	Signed agreements	Amount received from local financiers engaged (KES)	5	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	DSPG M	Head of partnership
	Set up endowment fund	Signed agreements	Amount received (KES)	750	50	10 0	15 0	200	25 0	0.8	0.8	1	1	1	DSPG M	Head of partnership
7.4 Strengthen resource mobilization	Develop and implement resource mobilization strategy	Resource mobilization strategy developed and approved	Approved Resource mobilization strategy	1	1					1.2					DSPG M	Head of programs & Head of grants mgt
	Build capacity for scientists in grant writing	Staff trained	No of staff trained	180	36	36	36	36	36	4	4	4	4.5	5	DSPG M	Head of programs & Head of grants mgt

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imelir	1е			mated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
Sub-Totals										79.9	88.5			123. 5		502.3
Outcome: Open	onal Strengthening rational efficiency and ef ctives 8: To Reenginee		ocesses													
	Map out current Institution business	Institution business processes mapped and evaluated	Report	1		1					2.2				DCS	DD ICT/ DD Admin
	Assess and analyze institutional business processes to identify pitfalls	Assessment done	Report	1		1					1.5				DCS	DD ICT/ DD Admin
	Identify and validate improvement opportunities for the Institute's processes	Improvements validated and documented	Report	1		1					0.5				DCS	DD ICT/ DD Admin
	Design, document and develop TO-BE processes	To be processes designed	Report	1		1					0.5				DCS	DD ICT/ DD Admin
	Sensitize staff on TO-BE processes for ownership	Staff sensitized on TO-BE processes	Report	1		1					0.5				DCS	DD ICT/ DD Admin
	Monitor and evaluate the implementation of redesigned processes and assess impacts	Implementation of redesigned processes monitored	Report	1			1					1.5			DCS	DD ICT/ DD Admin

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ Ti	melii	пе			nated Millio	l Budg ns	et in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
8.2 Improve fleet management	Acquire additional fleet	Additional fleet	No of vehicles acquired	30	4	6	6	8	8	24	42	42	56	56	DCS	DD Admin
	Automate fleet management system	Fleet management system deployed	Quarterly reports	20	4	4	4	4	4	1	1	1	1	1	DCS	DD Admin
	Equip and operationalize motor vehicle maintenance garage	motor vehicle maintenance garage operationalized	Quarterly reports	16		4	4	4	4		10	8	8	8	DCS	DD Admin
	Install motor vehicle tracking systems	Motor vehicle tracking systems installed in all vehicles	No of vehicles installed	120			50	50	20			5	5	2.5	DCS	DD Admin
8.3 Strengthen records management systems	Digitize and automate records management	Records Management digitized and automated	Level of automation (%)	100%	40%	80 %	10 0 %	100 %	10 0 %	12	8	8	5	5	DCS	DD Admin
	Establish and maintain a secret registry	Secret registry established	Secret registry established	1	1					4.5					DCS	DD Admin
8.4 Strengthen statutory compliance and legal services	Carry out biennial Legal and Compliance Audit Audits	Legal and Compliance Audits conducted	No of legal and compliance audits conducted	2		1		1			4		5		DLCS	HOD Legal
	Draft KEMRI Bill	KEMRI Bill processed through relevant stages	KEMRI Act of parliament	1	1					7	7				DLCS	HOD Legal
	Automate Board processes	Automated Board processes	% level of automation	100	100	100	100	100	10 0	3	0. 2	0.2	0.2	0.2	DLCS	HOD Legal

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ Ti	imeli	ne			mated Millio	d Budg ons	jet in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Undertake governance audits	Audits conducted	No of audits	2		1			1			7		7	DLCS	HOD Legal
	Develop policy documents and tools	Data Protection Policy	Policy document	1	1					0.5					DLCS	HOD Legal
	relevant to the Data Protection Act (DPA)	data protection impact assessment tool	Tool	1	1					0.5					DLCS	HOD Legal
	Appoint a data protection officer	A data protection officer appointed	Appointment letter	1											DG	HOD Legal
	Align whistle blower policy with DPA	Whistle blowing policy aligned with DPA	Revised whistle blowing policy	1		1					2				DLCS	HOD Legal
	Align KEMRI research policy with DPA	KEMRI research policy aligned with DPA	KEMRI research policy aligned	1		1					2				DLCS	HOD Legal
	Develop data access and retention policy for management of administrative data	Data access and retention policy for management of administrative data developed	Data access and retention policy	1			1				2				DLCS	HOD Legal
	Appoint of data protection committee	Data protection committee appointed	Committee appointed	1	1										DLCS	HOD Legal
	Establish of a data protection internal dispute resolution mechanism	Data protection internal dispute resolution mechanism established	Internal dispute resolution mechanism established	1	1										DLCS	HOD Legal
	Review case management strategies	Case management strategies	Case management strategies	1		1					1				DLCS	HOD Legal

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ T	imeli	ne			nated Millio	l Budg ns	et in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
			approved and operational													
8.5 Streamline finance management processes	Sensitize staff on finance Laws, policies and guidelines	Staff sensitized	No of staff sensitized	750	150	150	150	200	200	1	1	1.5	1. 5	2	DCS	HOD HR
	Strengthen financial control measures	Control measures implemented	No of qualified audit opinion	0	0	0	0	0	0	0.5	0.5	0.5	0. 7	0.7	HOD Inter nal Audit	Internal Audit Officers
	Decentralize finance services and functions (Kisumu and Busia)	Finance functions decentralized to Centres	No of Centres with fully decentralized finance function	2	1		1			1		1			DCS	HOD F&A
	Review and fully automate financial processes	Processes reviewed and automated	Annual Reports	5	1	1	1	1	1	1	1	1.5	1. 5	2		
8.6 Improve Supply Chain	Maintain and update inventory of assets	Asset inventory updated	Quarterly reports	20	4	4	4	4	4	1	1	1	1	1	HOD SCM	Senior SCM Officers
Management	Develop and implement Asset and disposal policy	Asset disposal policy approved and operational	Quarterly reports	20	4	4	4	4	4	1	1	1.5	1. 5	2	HOD SCM	Senior SCM Officers
	Hold supplier engagement forums	Supplier engagement forums held	No of supplier engagement forums held	1	1	1	1	1	1	0.3	0.4	0.5	0. 6	0.7	HOD SCM	Senior SCM Officers
	Establish warehouses for storage of	Warehouses established	No of warehouses	3	1	1	1			7	7	7			HOD SCM	Senior SCM Officers

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ Ti	imelii	ne			nated Millio	l Budg ns	et in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	equipment and materials															
	Tag assets using RFID	Asset tagged	Annual reports	5	1	1	1	1	1	1	1	1	1	1	HOD SCM	Senior SCM Officers
8.7 Strengthen corporate communication	Implement corporate communications policy and procedures	Corporate communications policy developed and approved	Quarterly reports	20	4	4	4	4	4	2	2	2	2	2	DCS	HOD Corp Comm
	Develop and implement communications strategy (2023-2027)	Communications strategy developed and approved	Quarterly reports	20	4	4	4	4	4	2	2	2	2	2	DCS	HOD Corp Comm
	Establish media platform for research information sharing	Media platforms establish	No. of platforms established	5	1	1	1	1	1	4	4	4	4	4	DCS	HOD Corp Comm
	Translate research and scientific information into	User-friendly IEC materials for the public and media	No of IEC material developed	5	1	1	1	1	1	6	6	6	6	6	DCS	HOD Corp Comm
	user-friendly IEC materials for the general public and media	Disability access materials developed	No of disability access materials developed	5	1	1	1	1	1	2	2	2	2	2	DCS	HOD Corp Comm
	Build capacity of staff and students in communication and media engagement	Staff and students trained	No of trainings conducted	10	2	2	2	2	2	1	1	1	1	1	DCS	HOD Corp Comm
	Enhance visibility through	Bulletins developed	No of bulletins	180	36	36	36	36	36	0.4	0.4	0.4	0. 4	0.4	DCS	HOD Corp Comm

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ Ti	imelii	ne			mated Millio	d Budg ons	et in		Respo	nsibility
		·		5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	dissemination of major research	Print media Publications	No of Printed Publication	20	4	4	4	4	4	2	2	2	2	2	DCS	HOD Corp Comm
	milestones	Documentaries	No of documentarie s	5	1	1	1	1	1	3	3	3	3	3	DCS	HOD Corp Comm
		Newspaper supplements	No newspaper supplements	1	1	1	1	1	1	3	3	3	3	3	DCS	HOD Corp Comm
	Enhance Institute social media presences for visibility	Social media activities	No of social media activities undertaken	10	10	10	10	10	10	4	4	4	4	4	DCS	HOD Corp Comm
	Use available technology such as Virtual Reality (VR) VR & Artificial Intelligence (AI) to reach all intended public	Virtual Reality (VR) VR & Artificial Intelligence (AI) adopted	Quarterly Reports	20	4	4	4	4	4	10	10	10	10	10	DCS	HOD Corp Comm
	Engage in Corporate Social Responsibility activities	CSR activities conducted	No of CSR activities undertaken	20	4	4	4	4	4	12	12	12	12	12	DCS	HOD Corp Comm
	Develop and implement the corporate Branding policy	Policy reviewed and approved	Approved policy	1	1	1	1	1	1	1	1	1	1	1	DCS	
	Develop and implement corporate branding strategy	Strategy developed and approved	Quarterly reports	20	4	4	4	4	4	5	5	5	5	5	DCS	HOD Corp Comm

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ Ti	melii	ne			nated Millio	l Budg ons	jet in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Develop Media Monitoring and trend analytics system to measure impact	Media monitoring and trend analytic system developed	Quarterly Reports	20	4	4	4	4	4	1	1	1	1	1	DCS	HOD Corp Comm
	Develop and sustain automated customer experience system	Automated customer experience developed	Quarterly Reports	20	4	4	4	4	4	1	1	1	1	1	DCS	HOD Corp Comm
	Review and monitor compliance with Institute service delivery charter	Service delivery charted reviewed and approved	Quarterly compliance reports	20	4	4	4	4	4	0.8	0.8	1	1	1.2	DCS	DD Corp Comm
	Carry out customer satisfaction survey	Customer satisfaction survey conducted	Customer satisfaction survey reports	3	1		1		1	3		3.1		3.3	DCS	DD Corp Comm
	Establish mechanisms for addressing customer/public complaints	Customer/public complaints documented and resolved	Proportion of complaints documented and resolved	100%	100 %	100 %	10 0 %	100 %	10 0 %	0.2	0.2	0.3	0.	0.4	DCS	DD Corp Comm
Sub Totals										128.2	129.	142.	8 133 8	143.		677.8
Strategic Obje	ctives 9: To Build In	stitutional Human (Capital													
9.1 Attract, engage and retain highly		staff recruited and leployed	No of staff in post	197 7	939	112 4	13 64	16 14	19 77	30 80	33 75	36 79	38 79	41 79	DCS	HOD HR
skilled, diverse, inclusive and motivated staff	employee a	imployee induction and engagement ramework	No of induction programmes	10	2	2	2	2	2	2	2	2	2	2	DCS	HOD HR

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ Ti	melii	ne			mated Millio	d Budg ons	get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	induction programmes															
	Carry out team Building activities	Team building activities conducted	No of team building activities	25	5	5	5	5	5	5	5	5	5	5	DCS	HOD HR
	Develop and integrate employee wellness programs	Employee wellness programs implemented	No employee wellness programs approved	10	2	2	2	2	2	3	3	3	3	3	DCS	HOD HR
	Review and harmonize staff salaries and allowances	Salaries and allowances reviewed and harmonized	Approved letter	1	1					4					DCS	HOD HR
	Provide comprehensive medical cover	Staff medical cover in place	Contract Signed	5	1	1	1	1	1	18 0	20 7	23 8	27 3	31 4	DCS	HOD HR
	Implement mortgage and car loan policies	Mortgage and car loan policies implemented	Proportion (%) of staff benefiting	50%	10%	20%	30 %	40 %	50%	15 0	20 0	25 0	30 0	40 0	DCS	HOD HR
	Develop and implement a succession and retention plan	Succession planning strategy developed	Annual reports on implementation of the plan	5	1	1	1	1	1	1	0.5	0.5	0.5	0. 5	DCS	HOD HR
9.2 Train and develop human capital	Carry out skills gap and training needs analysis and implement the report	Skills gap analysis and TNA conducted	Report	3	1		1		1	2.5		2.5		2.5	DCS	HOD HR

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ Ti	melii	ne			nated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
		Staff trained based on skills gap analysis report	No of staff trained	138 4	657	787	955	113 0	138 4	25	35	45	55	60	DCS	HOD HR
	Develop and implement human capital development plan	Human capital plan developed and implemented	% level of annual planned activities implementation	100	100	100	100	100	100	6	6	6	6	6	DCS	HOD HR
	Develop organizational culture and talent management strategy	Organizational culture strategy developed and implemented	% Annual planned activities implementation	100	100	100	100	100	100	4	4	4	4	4	DCS	HOD HR
	Partner with training and certification institutions for specialized skills development	Staff trained	No. of staff trained	320	60	60	60	70	70	18	18	18	21	21	DCS	HOD HR
	Develop and implement leadership and governance programmes	Leadership and governance program	No of staff trained	350	50	60	70	80	90	4	4	4	4	4	DCS	HOD HR
9.3 Align performance management system to the institute strategic objectives	Review and develop integrated Results Based Performance Management System	Automated RBPMS	% of automation	70%	80%	90 %	10 0 %	10 0 %	10 0%	1	1	0.2 5	0.2 5	3	DCS	HOD HR

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ Ti	melii	ne			nated Millio		get in		Respo	onsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Build capacity of staff on performance management	Staff trained	No of staff trained	10	250	250	25 0	25 0	25 0	3	3	3	3	3	DCS	HOD HR
	Develop programmes for coaching, counselling and mentoring of staff	Coaching and mentorship framework developed	No of coaches and mentees in the program	100	20	20	20	20	20	3	3	3	3	3	DCS	HOD HR
	Provide tools and resources necessary for timely service delivery	Working tools and resources provided	Reports on no of working tools and resources procured and distributed	5	1	1	1	1	1	50	50	40	30	30	DCS	HOD HR
	Establish and implement a reward and sanction framework	Reward and sanction framework developed and approved	Annual reports on reward and sanctioning	5	1	1	1	1	1	4	4	4	4	4	DCS	HOD HR
9.4 Strengthen employee relations	Hold employee engagement forums	Employee engagement forums conducted	No of employee engagement forums conducted	10	2	2	2	2	2	1	1	1	1	1	DCS	HOD HR
	Conduct employee satisfaction and workplace environment surveys	Employee satisfaction survey conducted	% satisfaction			70%		80 %			3		3		DCS	HOD HR

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ets/ Ti	melii	ne			mated Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Develop employee assistance programmes	Employee assistance programme developed	Quarterly reports on employees assisted	20	4	4	4	4	4	1	1	1	1	1	DCS	HOD HR
	Implement disability mainstreaming programmes	Disability mainstreaming strategies implemented	Quarterly reports	20	4	4	4	4	4	1	1	1	1	1	DCS	HOD HR
	Implement gender mainstreaming programmes	Gender mainstreaming strategies implemented	Quarterly reports	20	4	4	4	4	4	1	1	1	1	1	DCS	HOD HR
9.5 Review Organizational Design	Review of staff establishments and grading structure	Approved staff establishment and grading structure	Document	1	1					2					DCS	HOD HR
	Review career progression guidelines	Approved career progression guidelines	Document	1	1					2					DCS	HOD HR
	Review of human resource policy and procedures manual	Approved human resource policy and procedures manual	Document	1	1					2					DCS	HOD HR
Sub Totals										3555 .5	3927 .5	4304 .75	4593 .25	5041 .5	2:	1,422.5
		blish and Upgrade In					1	,	•		1		•	1		
11.1 Construct, upgrade and	Construct research facilities in Kwale	Research facilities constructed	% level of completion	100 %	14%	20 %	75 %	10 0 %		50	10 0	10 0	10 0		DCS DRD	HOD Eng & Maint
equip research infrastructure	Establish research and	Research facilities constructed	% level of completion	100 %	17%	50%	67 %	83 %	100 %	10 0	10 0	10 0	10 0	10 0	DCS DRD	HOD Eng & Maint

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ Ti	melii	ne			matec Millio		get in		Respo	onsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	incubation facilities in Kirinyaga															
	Drill water borehole in KEMRI Kirinyaga, Taveta and Busia	Boreholes drilled	% level of completion	3	100%						15				DCS DRD	HOD Eng & Maint
	Construct multi- storey research and training facility in Nairobi, CMR	Multi- storey research and training facilities in CMR constructed	% level of completion	100 %	25 %	25%	25%	25%	25%	30 0	30	27 0	20 0	10 0	DCS DRD	HOD Eng & Maint
	Establish Sports Health Research facilities in KEMRI Uasin Gishu	Sports Health Research facilities established	% level of completion	100 %		20%	50 %	75 %	100 %	10	20 0	40 0	40 0	40 0	DCS & DRD	HOD Eng & Maint
	Install solar energy infrastructure in Nairobi, Kisumu and Busia	Solar energy installed in HQ	% level of completion	100 %		20%	40 %	60 %	100 %		50	70	10 0	50	DCS DRD	HOD Eng & Maint
	Establish research facilities in Taveta	Research facilities designed and constructed	% level of completion	100 %		25%	50 %	75 %	100 %		25	50	50	30	DCS	HOD Eng & Maint
	Upgrade research laboratories in Busia	Laboratories in Busia upgraded	% level of completion	100 %		25%	50 %	75 %	100 %		10	25	25	25	DCS	HOD Eng & Maint
	Upgrade research laboratories in CRDR	Laboratories in CRDR upgraded	% level of completion	100 %		25%	50 %	75 %	100 %		50	50	10 0	10 0	DCS	HOD Eng & Maint

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ Ti	imeli	ne			mateo Millio		get in		Respo	onsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Enhance disability mainstreaming infrastructure (lifts, ramps, washrooms)	Disability mainstreaming washrooms Ramps & lifts enhanced	% level of completion	100	20%	40%	50 %	75 %	100 %	16	20	25	15	20	DCS	HOD Eng & Maint
	Construct and equip health and wellness center	Health and wellness center constructed and equipped	% level of completion	100 %			25 %	50 %	100 %			50	10 0	50	DCS & DRD	HOD Eng & Maint
	Rehabilitate access roads and drainage infrastructure in Nairobi Centers	Access roads and drainage infrastructure rehabilitated	% level of completion	100		20%	50 %	75 %	100 %		20	50	25	25	DCS & DRD	HOD Eng & Maint
	Upgrade animal house facility in Nairobi	Animal house facility	% level of completion	100 %	10%	40%	100 %	5	20	20	60				DCS & DRD	HOD Eng & Maint
	Install security access control, emergency exits and surveillance systems in all KEMRI installations	Security access control and surveillance systems installed	% level of completion	100		50%	75 %	100		50	40	40			DCS & DRD	HOD Eng & Maint
	Install Liquid Nitrogen Plants in Nairobi and CGHR Kisumu	Liquid nitrogen plants installed	% level of completion	100 %		50%	100 %			10 0	10 0				DCS & DRD	HOD Eng & Maint
	Design & construct Bio bank and cold	Bio Bank and cold room facility designed & constructed	% level of completion	100 %	50	80	80	27		50	15 0	15 0	10 0	50	DCS & DRD	HOD Eng & Maint

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ Ti	imeli	ne			mated	d Budg	get in	_	Respo	onsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	room facility in Nairobi															
	Implement energy saving measures	energy saving	% level of completion	100 %				50 %	100 %				15 0	15 0	DCS	HOD Eng & Maint
	Construct research and administration block at KEMRI HQ	Research and administration block at KEMRI HQ constructed	% level of completion	100 %	31%	63%	75 %	85 %	100 %	775	85 0	30	31 3	31 3	DCS & DRD	HOD Eng & Maint
	Upgrade clinical trials and bioequivalence facilities in Nairobi	Clinical trials and bioequivalence facilities constructed	% level of completion	100%	25%	50%	70 %	90 %	100 %	50	50	40	40	20	DCS & DRD	HOD Eng & Maint
	Upgrade research laboratories in Kisian Kisumu	Laboratories upgrades and equipped	% level of completion	100%	30%	60%	75 %	90 %	100 %	30	30	15	15	10	DCS & DRD	HOD Eng & Maint
	Establish center of excellence in precision medicine	Centre of excellence in in precision established	% level of completion	100%	47%	67%	83 %	100 %	100 %	30 1	20 0	10 0	39		DCS & DRD	HOD Eng & Maint
	Establish of center of excellence in stem cell research, synthetic biology and regenerative medicine in Nairobi	Stem cell research center of excellence established	% level of completion	100%	50%	70%	80 %	90 %	100 %	15 0	37. 5	37. 5	37. 5	37. 5	DCS & DRD	HOD Eng & Maint

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ T	imeli	ne			matec Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Establish mental health research center	Mental health Research center established	% level of completion	100%	0%	0%	50 %	75 %	100 %			10 0	50	50	DCS & DRD	HOD Eng & Maint
	Strengthen Cancer registry	Cancer registry strengthened	% level of completion	100%			50 %	75 %	100 %			10	50	50	DCS & DRD	HOD Eng & Maint
	Construct P3 laboratories	P3 laboratories	% level of completion	100%	1		1		1	56	84	82	29	29	DCS & DRD	HOD Eng & Maint
	Established specialized human Nutrition Laboratory (food and biochemistry)	Specialized human Nutrition laboratory constructed	% level of completion	100%	20%	50%	70 %	90 %	100 %	20	50	70	90	10 0	DCS & DRD	HOD Eng & Maint
	Procure mobile laboratories	Mobile laboratories procured	No of mobile laboratory procured and in use	2		1		1			25		25		DCS & DRD	HOD Eng & Maint
Sub Totals										2068				1659		10657
Stratogic Obje	ctivos 11: Establis	h Resilient ICT Syste	ma								.5	.5	.5	.5		
12.1 Upgrade ICT tools	Acquire ICT equipment to increase the staff to computer ratio	ICT equipment procured	% increase of staff issued with computers	100 %	20%	40%	60%	80 %	100 %	15	15	15	15	15	DCS	HOD ICT
	Set up and upgrade LAN and WAN	LAN and WAN set up and upgraded	No of new centers set up and upgraded	15	3	3	3	3	3	6	6	6	6	6	DCS	HOD ICT
	Upgrade existing server firm	Server environment upgraded	% increase in the no of	100 %		100				7					DCS	HOD ICT

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ T	imelii	ne			matec Millio		get in		Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	environment at primary site		servers upgraded													
	Adopt software leases/frameworks contracts for maintenance of ICT equipment	Framework contract for end user equipment developed	Signed contract	5	1	1	1	1	1	5	5	5	5	5	DCS	HOD ICT
	Set up a Library management Information Systems	Library Management Information Systems (LMIS) established	% level of completion	100 %				60 %	100 %				5	5	DCS	HOD ICT
	Set up alternate data center to support redundancy and resilience	Data center established	Contract signed	1		1					7	7	7	7	DCS	HOD ICT
	Automate research protocol approval process	Protocol approval process automated	Quarterly reports on protocols processed through the system	20	4	4	4	4	4	5	5	5	5	5	DR D	DD Centres / Heads of program
	Deploy laboratory information management system	Laboratory information Management system deployed	Contract signed and system deployed	1		1					20	20	15	15	DRD	Head of SERU
12.2 Achieve holistic cyber resilience	Procure and enhance end point security infrastructure	End point security infrastructure put in place	Quarterly reports	20	4	4	4	4	4	6	6	6	6	6	DCS	HOD ICT

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targ	ets/ T	imeli	ne			nated Millio		get in		Respo	onsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Implement a Web Application Firewall for web facing applications	Web Application Firewall for web facing applications implemented	Quarterly reports	20	4	4	4	4	4	8	8	8	8	8	DCS	HOD ICT
	Implement a Database Activity Monitoring system	Database Activity Monitoring System installed	Quarterly reports	20	4	4	4	4	4	8	8	8	8	8	DCS	HOD ICT
	Implement a Privileged Access Management system.	Privileged Access Management (PAM) system procured	Quarterly reports	20	4	4	4	4	4	6	6	6	6	6	DCS	HOD ICT
	Implement Security as a Service (SaaS)	Security as a Service (SaaS) implemented	Quarterly reports	20	4	4	4	4	4	5	5	5	5	5	DCS	HOD ICT
	Implement a Network Access Control (NAC) system	Network Access Control (NAC) system implemented	Quarterly reports	20	4	4	4	4	4	6	6	6	6	6	DCS	HOD ICT
	Put in place a Business Continuity Management System (BCMS)	ISO 22301 acquired and implemented	Certificate	1	1	1	1	1	1	2	2	2	2	2	DCS	HOD ICT
12.3 Initiate use of data analytics	Acquire data warehousing, data mining, analytics and visualization tools	Data analytics solutions implemented	Quarterly reports	20	4	4	4	4	4	10	10	10	10	10	DCS	HOD ICT

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targe	ts/ T	imeli	ne			mated Millio		get in)	Respo	nsibility
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Institute strategic alliances with Institutions with robust systems in data analytics	MOUs signed with Institutions with robust systems in data analytics	No of MOUs signed with Institutions with robust systems in data analytics	5	1		2		2	1		2		2	DCS	HOD ICT
	Train staff on data literacy and data culture	Staff trained on data literacy and data culture	No of employees sensitized	150 0	100	20 0	300	40	50	2	2	2	2	2	DCS	HOD ICT
Sub Totals										92	111	113	111	113	540	
Strategic Obje	ctives 12: Strength	nen Planning, Monitor	ring and Evaluati	on			1		<u> </u>	<u> </u>	<u> </u>		<u> </u>			
10.1 Mainstream planning, resource allocation and	Carry out Mid- term and end term review of the Strategic Plan	Medium term and end term reviews conducted	Reports	2			1		1			4		4	DS&C	Head of Strategy & Planning Head of M&E
strategy execution	Identify policy gaps and develop/review Institute policies documents	Institute policies developed/reviewed	No of policies developed/revie wed	30	5	2	16	5	2	2	2	4	3	3	DS&C	Head of Strategy & Planning
	Develop Institute Annual Work Plans (AWP)	Approved annual work plans	AWP plans developed	5	1	1	1	1	1	1	1	1	1	1	DSC	Head of Strategy & Planning
	Implement annual Performance Contracting for all cadres	Annual Performance Contracting for all cadres implemented	Proportion of staff with signed performance contracts	100 %	100%	1 0 0 %	100 %	L00 %	10 0%	5	5	5	5	5	DS&C	Head of Strategy & Planning

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for	Targets/ Timeline					Estimated Budget in KES Millions					Responsibility	
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	Develop projects concept notes	Concept notes developed and approved	No of concept notes developed	10	2	2	2	2	2	3	3	3	4	4	DS&C	Head of Strategy & Planning
	Undertake feasibility studies for priority development projects	Feasibility studies conducted	No of feasibility studies conducted	10	2	2	2	2	2	4	4	5	5	5	DS&C	Head of Strategy & Planning
	Track implementation of Institute flagship projects	flagship projects tracked and reported	Quarterly reports	20	4	4	4	4	4	1	1	1	1	1	DS&C	Head of M&E
10.2 Integrate monitoring and	Implementing the M&E Policy	M&E Policy implemented	Quarterly reports	20	4	4	4	4	4	1	1	1	1	1	DS&C	Head of M&E
evaluation in programs and processes	Establish a robust and integrated Institute M&E System	Robust and integrated Institute M&E system established	Quarterly reports	20	4	4	4	4	4	2	2	3	3	3	DS&C	Head of M&E
	Monitor & evaluate implementation of research projects and programmes	Implementation of research projects and programmes monitored and evaluated	No projects /programmes evaluated	180	25	3 0	35	40	50	6	8	9	11	13	DS&C	Head of M&E
	Capacity build on M&E officers on end to end M&E system	M&E officers capacity build on M&E system	No of staff trained on M&E system	24	5	5	7	7	10	1	1	1.2	1.2	1.5	DS&C	Head of M&E
	Train and sensitize staff on	Staff trained and sensitize on M&E	No of staff trained and	840	150	1 5 0	17 0	17 0	20 0	2	2	2	2	2	DS&C	Head of M&E

Strategies	Strategic Activities	Expected Output	Output Indicator	Targe t for						Estimated Budget in KES Millions					Responsibility	
				5 years	Y1	Y2	Y3	Y 4	Y5	Y1	Y2	Y3	Y4	Y5	Lead	Support
	M&E framework, tools and system	framework, tools and system	sensitized on M&E													
	Undertake M&E. benchmarking with local and international institutions and apply best practices	M&E. benchmarking with local and international institutions conducted	No of benchmarking conducted	5	1	1	1	1	1	1.5	1. 5	2	2	2	DS&C	Head of M&E
	Disseminate M&E reports	M&E reports disseminated	No of dissemination reports	20	4	4	4	4	4	1	1	1	1	1	DS&C	Head of M&E
10.3 Improved quality assurance in research,	Acquire and maintain ISO certifications and Accreditations	ISO certified and accredited	No. of ISO certifications & accreditations	2	2	2	2	3	3	6	6	6	6	6	DCS DS&C	
product development and service delivery	Establish and implement Enterprise Risk Management framework	Enterprise risks framework established	Quarterly reports	20	4	4	4	4	4	4	4	4	4	4	DRD, DS&C	Head of Risk Mgt
Sub-Totals								33.5	32	42.2	38.2	45.5	191.4			

ANNEX II: STRATEGIC PLAN DEVELOPMENT TASKFORCE

S/No	STRATEGIC PLAN STEERING COMMITTEE MEMBERS	DESIGNATION						
1.	Mr. Edwin Bett	Chairman						
2.	Mr. Anthony Wachira	Member						
3.	Dr. Evans Amukoye	Member						
4.	Dr. Bernhards Ogutu	Member						
5.	Mr. Mahsen T. Abud	Member						
6.	Dr. Zipporah Bukania	Member						
7.	Prof. Wallace Bulimo	Member						
8.	Dr. Lubano Kizito	Member						
9.	Dr. Samson Muuo	Member						
10.	Dr. Stephen Wandiga	Member						
11.	Dr. Sam Kinyanjui	Member						
12.	Mr. John Musau	Member						
13.	Mr. Anthony Kamigwi	Secretary						

CONTACTS:

Kenya Medical Research Institute P.O. Box 54840-00200 NAIROBI, KENYA

Phone: +254 (020)2722541, 2713349

Fax: +254 (020) 2720030 Email: director@kemri.og

Website: www.kemro.org