Republic of Rwanda



Ministry of Health

Rwanda HIV and AIDS National Strategic Plan 2013-2018

Extension 2018-2020



A Healthy People. A Wealthy Nation

PREFACE

During the implementation of the National Strategic Plan (NSP) July 2013–June 2018 (thereafter referred to as "NSP 2013-2018") on HIV and AIDS, Rwanda has continued its progress towards universal access to HIV and AIDS services. The extended HIV and AIDS National Strategic Plan 2018–2020 (thereafter referred to as "NSP 2018-2020 extension") presented here is set on pursuing the same objective, with inspiration from national strategies and global targets of ending AIDS epidemic by 2030.

The development of the NSP itself, initially conducted in 2013 and updated in 2017, has been based on broad participation of all of the actors involved in addressing HIV and AIDS in Rwanda: communities, civil society organizations, ministries, and development partners. As a result, we are confident that the strategies identified in the plan are those that are the most likely to achieve the ambitious results for which we are aiming.

The difficult international financial environment has affected HIV funding internationally, and Rwanda is no exception to this. This situation has led us to prioritize the strategies and interventions presented in this NSP based on their estimated impact and cost effectiveness. This prioritization exercise conducted during the NSP development process required many difficult choices to be made, and further prioritization will undoubtedly continue during the implementation period.

Let us continue our work with renewed energy and determination.

Dr. Diane GASHUMBA Rwanda Minister of Health



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ACKNOWLEDGEMENTS

Rwanda Biomedical Center (RBC) would like to take this occasion to express its deep appreciation and sincere thanks to all who participated in the development of the initial NSP 2013-2018 and the updated NSP 2018-2020 extension.

The NSP development process was mainly coordinated through the Disease Prevention and Control technical working group (TWG) that met regularly in working sessions and workshops to provide input and advice, from the start of the previous NSP Mid Term review until the final validation of the NSP document. These sub-TWGs are composed of representatives from all groups of stakeholders involved in the national HIV response. The HIV Division of RBC was the leading entity coordinating this process, but several divisions and units within MOH and RBC and decentralized units of health institutions participated together with partners and stakeholders, civil society organizations, private sector partners, non-health EDPRS sectors, local government, and development partners (UN family, USG, CHAI) in all the steps of NSP development, ensuring that the final NSP document is fully inclusive and comprehensive.

May all partners be congratulated here for their active participation in the elaboration of the new HIV NSP, and more broadly for their continuous contribution to the fight against HIV and AIDS.



Jeanine U. Condo, MD, PhD Associate Professor of Public Health Director General Rwanda Biomedical Center





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EXECUTIVE SUMMARY

The NSP 2018-2020 extension was developed based on NSP 2013-2018, MTR report, updated scientific epidemic facts on HIV, and new policies. It is also aligned with other key national priorities and strategies such as Vision 2020(1), EDPRS 2(2), the Health Sector Strategic Plan (HSSP III)(3) as well as international priorities such as the drive to realization of the Sustainable Development Goals (SDGs) and new guidelines for the management of HIV. Finally, the drafting of the NSP extension was guided by a number of core principles: national mobilization and ownership, equity and human rights, gender equity, integration of HIV services into the national health system, cost effectiveness of interventions, and national capacity building.

In more than a decade, the HIV epidemic in Rwanda has stabilized at a prevalence of 3 percent (4) as a result of a strong national response to control the spread of HIV and to diagnose and treat affected individuals. However, behind this statistic hides a number of vulnerable groups that face a high burden of disease and who are key to the transmission of the epidemic, including sex workers and their clients and discordant couples. It has become clear that in order to consolidate the gains of the last few years, and to continue making headway in a cost-effective manner, there is a need to further focus attention on the needs of these groups.

Going forward, the NSP sets ambitious goals for its timeframe of execution, including:

- Reducing the new infections.
- Reducing the number of HIV-related deaths.
- Ensuring that people living with HIV (PLHIV) have the same opportunities as all others.

To achieve these goals, three main levers of intervention are of focus: prevention of new infections, care and treatment, and impact mitigation. It is under these three levers that this NSP develops and prioritizes specific activities that will deliver on the goals with the highest impact for a given investment.

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For the prevention of new infections, this NSP follows a two-pronged approach:

- Interventions directed at the general population that either build further behavior change (e.g. condom usage) or provide a lasting benefit of reduced disease transmission (e.g. male circumcision, screening in pregnancy). Key 2020 goals include increasing the use of condoms, increasing the coverage of voluntary medical male circumcised, and maintaining the rate of mother to child HIV new infections in children at less than 5 percent.
- Interventions directed at groups especially susceptible to high transmission such as female sex workers (FSW), men who have sex with men (MSM), and serodiscordant couples (SDC), in particular adding pre-exposure prophylaxis as prevention as a new approach along with behavioral and other supportive interventions.

For care and treatment, this NSP extension incorporates recent evidence-based changes in international guidelines, notably the "Treat All" policy recommending ARVs initiation to all identified PLHIV regardless their immunity or clinical status, "All In" to address gap in HIV and sexual reproductive health among adolescent initiative, simplified model of care to accommodate the burden of services at health facility and reduce patients visits number for those with good adherence and suppression at 6 and 3 months interval for clinical and drugs pick up respectively. An impact of this approach is that it requires more focused testing strategies to bring hard to reach populations to treatment as well as community support to avoid lost to follow up due to visit intervals.

Interventions in this area fall under two broad categories:

• Extension of coverage further into the population with a target of increasing the current level from an estimate of 82.7 percent of eligible people on anti-retroviral therapy (ART) treatment to 85 percent by 2020 and increase the viral load suppression rate for those on treatment.





• Improved quality of care with strong adherence to standards of care, nutritional support wherever needed, and psychosocial support including mental health integration, palliative care and community support to PLHIV.

For impact mitigation, this extended NSP has three overarching goals:

- Ensuring economic opportunity and security of PLHIV through support and development of cooperatives and promotion of self-reliance toward food security.
- Protecting most vulnerable children (MVC) with a key target to maintain a high level of school attendance (>85 percent) in the 10–14 age group.
- Reducing stigma and discrimination as well as SGBV.

Overall national coordination of the NSP is led by the HIV Division within the Institute for HIV and Other Disease Prevention and Control of RBC, but it is an effort in which the broadest array of stakeholders participates, including other divisions of RBC (e.g. National Reference Laboratory, Health Communication Center, Medical Procurement, etc.), the social cluster of ministries in the Government of Rwanda, civil society organizations, and many international and local partners. At the population level, the national health system is the main focus of implementation, and many of the interventions included in this NSP either leverage the health system of Rwanda or further strengthen it to enable an adequate volume and quality of services be available to the population.

Supporting the NSP is a robust and detailed monitoring and evaluation (M&E) plan tied to a complete set of key performance indicators that will ensure that progress is well understood, that winning approaches are exploited to the fullest, and that challenges are diagnosed and corrected early.

Ultimately, a strategy is about choosing what to do and not to do with the resources at hand to achieve the desired result. In creating this NSP, there has been a significant effort to quantify the relative impact and costs of various interventions to guide the selection of approaches that would be the most cost effective. But these analyses often rely on best estimates and triangulations between a heterogeneous set of available data points. At the same time, the science and knowledge base of HIV continues to progress and expand.

Therefore, while this NSP is meant to provide guidance, clarity of purpose, and national alignment as we tackle the scourge of HIV, it does not imply that the strategy is frozen for the next three years. As a result, we expect that this NSP will evolve during its three-year lifespan as new facts and evidence come to light and new contexts emerge.





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ABBREVIATIONS AND ACRONYMS

ABASIRWA: Abanyamakuru Barwanya Sida mu Rwanda baharanira n'ubuzima (Rwanda Media network against HIV and AIDS and for health promotion)

AIDS: Acquired Immune Deficiency Syndrome

AIM: AIDS Impact Module

ANC: Antenatal Services

ART: Anti-Retroviral Treatment

ARV: Anti-Retroviral (drugs)

BCC: Behavior Change Communication

BSS: Behavioral Surveillance Survey

CBS: Case-Based Surveillance

CD4: Cluster Differentiation 4

CDC: Centers for Disease Control and Prevention

CHW: Community Health Worker

CNLS: Commission Nationale de Lutte Contre le SIDA (National AIDS Control Commission)

DALYs: Disability Adjusted Life Years

DDP: District Development Plan

DHS: Demographic and Health Survey

DSDM: Differentiated Service Delivery Model

EAC: East African Community

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EDPRS 2: Economic Development and Poverty Reduction Strategy 2

EMR: Electronic Medical Recording System

EMTCT: Elimination Mother-to-child Transmission of HIV

FOSA: Formation Sanitaire (Health Facility)

FSW: Female Sex Workers

GBV: Gender-Based Violence

GF: Global Fund

HBV: Hepatitis B Virus

HCC: Health Communication Center

HCT: HIV Counseling and Testing

HCV: Hepatitis C Virus

HF: Health Facility

HIV: Human Immunodeficiency Virus

HMIS: Health Management Information System

HSSP III: Health Sector Strategic Plan III

HTS: HIV Testing Services

ICT: Information Communication Technology

IEC: Information, Education, Communication

IHDPC: Institute of HIV Disease Prevention and Control

IV: Intravenous

IYCF: Infant and Young Children Feeding





MESST: Monitoring and Evaluation Systems Strengthening Tool

MC: Male Circumcision

MDGs: Millennium Development Goals

M&E: Monitoring and Evaluation

MIFOTRA: Ministère de la Fonction Publique et du Travail (Ministry of Public Service and Labor)

MINECOFIN: Ministry of Economy and Finances

MERG: UNAIDS Monitoring and Evaluation Reference Group

MPPD: Medical Procurement and Production Division

MoH: Ministry of Health

MOT: Mode of Transmission

MSM: Men who have Sex with Men

MSW: Male Sex Workers

MTR: Mid Term Review

MVC: Most Vulnerable Children

NACS: Nutritional Assessment Counseling & Support

NCBT: National Center for Blood Transfusion

NCC: National Commission for Children

NGO: Non-Government Organization

NRL: National Reference Laboratory

NSP: National Strategic Plan





OAG: Office of Auditor General

OBBI: Other Blood Borne Infections

OI: Opportunistic Infection

OVC: Orphans and Vulnerable Children

PEP: Post-Exposure Prophylaxis

PEPFAR: President's Emergency Plan For AIDS Relief

PICT: Provider-initiated Counseling and Testing

PIT: Provider-initiated Testing

PLHIV: People Living with HIV

PME: Planning, Monitoring and Evaluation

PMTCT: Prevention of Mother-to-Child Transmission of HIV

PSF: Private Sector Federation

PWD: People With Disability

QMS: Quality Management System

RBC: Rwanda Biomedical Center

RCA: Rwanda Cooperative Agency

RCLS: Confessions Religieuses pour La Lutte Contre Les SIDA (Rwanda Interfaith Network against HIV and AIDS)

RRP+: Réseau Rwandais des Personnes Vivant avec le VIH (Rwanda Network of PLHIV)

RPPA: Rwanda Public Procurement Authority

RTQII: Rapid Testing Quality Improvement Initiative





SDC: Sero-Discordant Couples

SGBV: Sexual and Gender Based Violence

SRH: Sexual and Reproductive Health

STI: Sexual Transmitted Infection

TWG: Technical Working Group

TB: Tuberculosis

UNAIDS: Joint United Nations Program on AIDS

UN: United Nations

UPHLS: Umbrella des Personnes Handicapées dans la Lutte contre le SIDA (Umbrella of People with Disabilities in the Fight against HIV and AIDS)

USG: United States Government

USPLS: Umbrella of Public Sector against HIV and AIDS

VCT: Voluntary Counseling and Testing

VL: Viral Load

VMMC: Voluntary Medical Male Circumcision

WHO: World Health Organization

YFC: Youth Friendly Center





1. INTRODUCTION

In line with the processes set out in the national development policy documents guiding Rwanda's ambitious and positive overall development trajectory in recent years, the HIV response is seen as a long-term development objective in Rwanda, intrinsically linked to development goals around poverty reduction and economic growth. In 2007, as the Government of Rwanda began preparations for the development of its third HIV and AIDS NSP, it took the opportunity to redouble its efforts to understand the Rwandan epidemic and sharpen the national response. Working with national agencies and various development partners, it aimed to better define the problem and understand the dynamics of the changing HIV epidemic in the country. From 2007 to 2009, several empirical and analytic reviews were conducted to inform the development of an evidence-based and data-driven HIV response. This involved synthesizing and triangulating HIV information from multiple sources, conducting modeling to understand modes of transmission, and studying HIV risk among vulnerable groups such as female sex workers (FSW) and men who have sex with men (MSM).

By late 2008, through research and data analysis, the government and its partners had identified and generated new information on the important drivers of the epidemic. Combined with other emerging data, key decision makers in government translated this knowledge into a comprehensive strategy in the NSP 2009–2012 (7). The plan included a detailed situational analysis of both the HIV epidemic and response, based on the 'know your epidemic / know your response' strategic planning approach.

The NSP 2013-2018 was the result of more than a year of preparatory work, starting with the development of Rwanda's second Economic Development and Poverty Reduction Strategy 2013–2018 (EDPRS2) and the Health Sector Strategic Plan 2012-2018 (HSSP3) that confirmed the response to HIV and AIDS as a cross-cutting national development priority.



As the NSP 2013-2018 is coming to an end, it has been extended for 3 more years through December 2020. As many of the overarching goals from the NSP 2013-2018 remain for the next three years, we have decided to do an extension of the current NSP instead of developing a full, new NSP. We have focused our efforts on both updating the targets in line with the overall progress achieved in the HIV response during the last 3 years of implementation of NSP 2013-2018 and on finding efficiencies and innovations to reach these targets.

This document is shorter than the previous NSP, overviewing the current state of where Rwanda is in reversing the impact of HIV and AIDS, where we want to arrive by the end of the year 2020, and how we plan to get there. The HIV and AIDS situation analysis included in this document provides an overview of the main elements of the current epidemic and response, the policy environment, and the overarching principles which guide the implementation of the HIV response in Rwanda. The results framework indicates where we want to go, while the remainder of the document describes how we plan to get there (detailed intervention framework, governance, M&E plan, and costing and prioritization).

The NSP 2018-2020 extension has been developed with active participation, support, and input of all the main HIV stakeholders through a series of workshops that have taken place between January and March 2017. These stakeholders include GoR (MOH, RBC, and other ministries), development partners, implementing partners, civil society organizations, private sector organizations, and academia. These stakeholders agreed on the strategic framework (impact, outcomes, and outputs) to guide the NSP development, aligned on activities and costing of activities, reviewed M&E indicators and targets for the time period, and then wrote the finalized report. The content of the new NSP is the result of these meetings, and it was presented, validated, and approved by HIV stakeholders and decision makers in March 2017.

Recent epidemiological data about the HIV response coupled with global evidence on best practices in HIV prevention and treatment delivery have been used to update specific aspects of the plan based on the most rigorous and up-to-date information available. The main strategic changes and innovations included in this new NSP include a stronger focus



on HIV testing services (including self-testing), point of care for early infant diagnosis, pre-exposure prophylaxis, and treat all HIV+ regardless of CD4 count leveraging a Differentiated Service Delivery Model (DSDM) that aims to simplify the delivery of care. In addition to these new strategies, adjustments to costing estimates based on the projected decrease in external funding, including prioritization of the most cost-effective interventions, was considered.

This NSP 2018-2020 extension document is designed to present only the main strategic orientations of the national HIV response for the next three years (2018-2020). More details on operationalization and costing of activities are available in the NSP extension operational plan.

The national planning process is currently focused on the elaboration of the overarching national development documents, including Vision 2050 and EDPRS 3 (2018-2023). As these documents are not expected to be available until the end of 2017, we are planning the current three-year extension of the NSP and then the development of sector and sub-sector strategic plans once these documents are available. The next sector and sub-sector 5-year strategic plans (including HSSP IV and HIV NSP) will begin development at the start of 2018. At that time, a comprehensive HIV strategic planning exercise will be conducted, and the new strategies presented in this extension document will be explained in a more elaborate and document are not anticipated, as the next planning exercise will take place in less than a year from now. This extension can therefore be considered as a reliable document presenting the main strategic priorities for HIV interventions for the coming three years.

The progressive decrease of external funding for HIV, TB, and Malaria has recently taken a more drastic turn, and in spite of continued efforts by GOR to increase its contribution, this sharp decline in available resources will undoubtedly have a negative impact on the implementation of the priority strategies presented in this NSP extension document.





2. WHERE WE ARE: SITUATION ANALYSIS

2.1 Know your epidemic

Rwanda continues to experience a mixed HIV epidemic, generalized in the adult population, with an adult HIV prevalence rate stabilized around 3 percent (4), and particularly concentrated in the Female Sex Worker (FSW) population. The HIV prevalence in the population aged 15–49, as estimated through the Rwanda Demographic and Health Survey (DHS), remained the same in 2005, 2010 and 2014/15 at approximately 3 percent (confidence intervals [2.6–3.5 percent] in 2005 (8); [2.78–3.36 percent] in 2010 (4) and [2.8-3.4 percent] in 2014/15). HIV prevalence in 2014/15 remained higher among women (3.6 percent) than among men (2.2 percent) (Figure 1). According to RDHS 2014/15, HIV prevalence increases with age. For example, among women, HIV prevalence increases from 1 percent in the population aged 15-19 to a peak of 7.8 percent in the population aged 40-44. Similarly, among men, the prevalence increases from 0.3 percent at age 15-19 and reaches a peak of 9.3 percent at the age of 45-49. RDHS 2014/15 showed that about 3 percent of couples in unions are discordant (i.e., one partner is infected and the other is not).

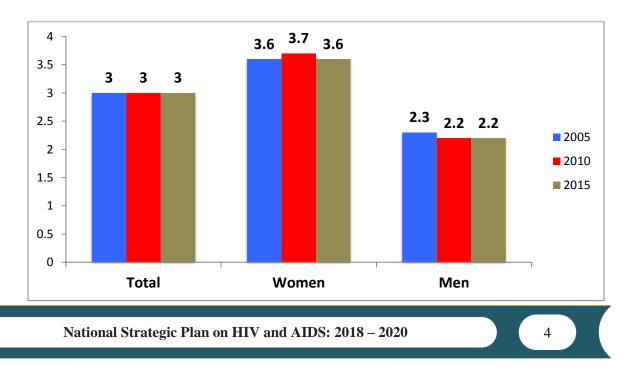


Figure 1: HIV Prevalence by Sex (DHS 2005, 2010 and 2015)

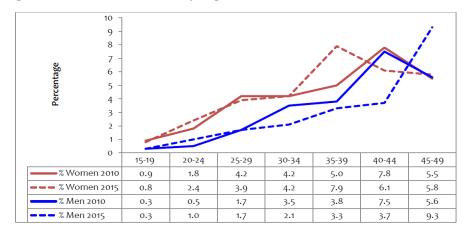


Figure 2: HIV Prevalence by Age for Men and Women (DHS 2010- 2015)

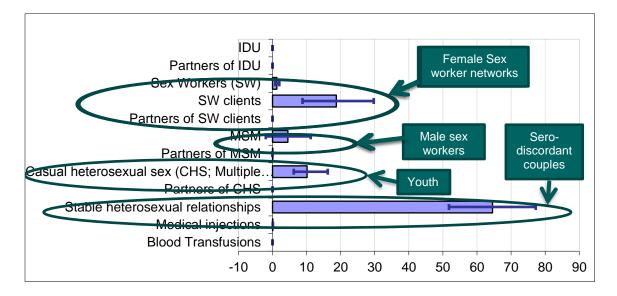
The 2015 Behaviour and Biological Surveillance Survey (BSS) has shown that HIV prevalence is higher among FSW (45.8 percent) with a high prevalence among FSW operating in Kigali (55.5 percent) The first BSS conducted across the MSM population in 2015 showed that the HIV prevalence among MSM was 4 percent

Just as HIV prevalence has remained relatively stable in the general adult population, the Mother to Child HIV transmission rate has also been stabilised at 1.8 percent since 2014.

Rwanda conducted its first population based HIV incidence survey in 2013/14. The results suggest an overall HIV incidence of 0.27 per 100 person-years.

In an effort to understand the dynamics of the HIV epidemic across risk groups, RBC commissioned an application of the UNAIDS Modes of Transmission (MOT) model to estimate the expected distribution of new HIV infections by exposure group (10). The model uses existing demographic, epidemiological, and behavioral data for each risk group from national, regional, and international sources. This exercise was led by the HIV and PME Divisions within RBC with close collaboration of partners including UNAIDS, Centers for Disease Control and Prevention (CDC), and MEASURE Evaluation. The modeling exercise is limited to sexual transmission and is applied to the adult population

aged 15–49. This data was then used to model the expected distribution of new HIV infections across risk groups (Figure 3).





The modeling results were presented and analysed in participatory workshops, first with RBC and then with key stakeholders, in order to draw key conclusions and implications for the design of this new plan. Key findings and conclusions are presented below.

- Stable heterosexual relationships constitute the risk group where the majority of new infections are projected (65 percent). In the Rwandan context, this risk group includes a large number of new infections among sero-discordant couples.
- The second group where a substantial proportion of new infections (20 percent) is projected is among FSW networks, composed of FSW, their clients, and their nonpaying partners.
- 3) The third group where a substantial proportion of new HIV infections (10 percent) is projected is among those participating in casual heterosexual sex. For the purposes of this model and in the Rwandan context, these results were interpreted as youth aged 15–24, as they compose the majority of sexually active individuals out of union according to existing data.



4) The last group where a substantial proportion of new infections (5 percent) is projected is among the MSM population. Based on the available data, however, this finding is representative of a specific subset within this population: male sex workers. The qualitative data shows that this specific subgroup is the easiest to target for both research and interventions, as MSM remain a hidden population in Rwandan society due to social stigma associated with sexual orientation.

Table 1 below summarizes the results of the MOT (5) modeling exercise and the best available data for the different risk groups identified that were used to generate the modeling results. This data was validated as the 'best estimates' of current data by risk group for Rwanda by the national technical working group (TWG) on HIV prevention in February 2013 and they are still valid today.

| | Contributions | s HIV prevalence | Key behaviors | | |
|-------------|------------------------------|------------------------|------------------------------|----------------------------------|----------------------------|
| Risk group* | to HIV incidence (MOT) | | Condom use at last sex | HIV test in last 12 months | Comprehensive knowledge |
| SDC | 65% | 3.43% ¹ | 10.71% ¹ | 45% ¹ | 57% ¹ |
| FSW | 20% | 51% ² | 83% ² | 89% ² | 22% ² |
| Youth | 10% | 1% ¹ | 54% ¹ | 57% ¹ | 50% ¹ |
| MSM/MSW | 5% | 13.7% ³ | 50% ⁴ | 51% ⁴ | 20% ⁴ |

Table 1: HIV incidence, prevalence and behavioral data for main risk groups inRwanda.

* Ordered in terms of magnitude as identified by MOT 2012(5)

¹: *Rwanda DHS 2010*(4)

²: BSS FSW, Rwanda 2010(11)

³: BSS MSM, Kampala, Uganda (12)

⁴: MSM Study, Rwanda, 2011.(13)

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On the basis of these results, and in addition to existing interventions targeting key populations (FSW, MSM, SDC, adolescents, and young adults), interventions are planned through the global "All In" initiative targeting in and out-of-school groups.

2.2 Know your response

2.2.1 Main stakeholders

During the course of the last NSP, RBC oversaw not only the HIV and AIDS program but also TB, malaria, and other diseases, including non-communicable diseases, mental disorders, and maternity and child health. This oversight has contributed to a better integration of the HIV and AIDS program in the health sector. Several MoH units are also closely involved in HIV interventions (Health Financing Unit, Human Resources, Clinical Services, Planning and M&E). Apart from health sector institutions, other sectors, coordinated by lead ministries, also contribute to the multi-sector response. The role of civil society, coordinated by umbrella organizations, has been significantly strengthened, as has the private sector.

2.2.2 Main achievements in the HIV response

During the last five years, the coverage of HIV services has continued to increase to reach levels associated with the global target. According to programmatic data reported through HMIS, as of December 2016 (9), the percentage of health facilities offering full package of HIV services rose from 93 percent in 2013 to 96 percent in 2016, with 97.8 percent offering ART, 97.4 percent offering VCT, and 97.7 percent offering PMTCT. This significant increase in geographic coverage was coupled with improvements in the quality of services being delivered. For example, high enrolment and retention rates allowed Rwanda to reach universal access for ART with coverage of 82.7 percent of all HIV infected patients receiving treatment. From 2013 to 2016, retention on treatment after twelve months was continually kept above 90 percent annually and AIDS-related deaths decreased by 10.6 percent.

HIV testing strategies were revised to increase HIV Testing and Counseling (HTC) services, to increase HIV positive case finding, and to improve outreach of HTC services



to key populations. In order to improve and integrate HTC services at as many entry points as possible, HIV testing using the self-testing and finger prick method was adopted. Resulting from these strategies, 10.5 million HIV tests were performed and sero-positivity rate has remained below 1 percent over the last three years.

Regarding the prevention of HIV transmission from mother to child (MTCT), 99 percent of HIV infected pregnant women received antiretroviral therapy to reduce the risk of mother to child transmission, and only 1.8 percent of all exposed children were infected at 18 months.

According to the 2014/15 DHS, 30 percent of Rwandan males aged 15-49 years were circumcised. The VMMC prevalence was almost doubled as compared to 13 percent in DHS 2010.

These successes of the HIV response are to a large extent due to the strengthening of the national health system. The network of health facilities is well decentralized, with almost all administrative sectors equipped with a health center. Further, health posts are now being developed or upgraded to bring primary healthcare closer to isolated areas. Mobile services and outreach activities have been implemented to reach isolated and marginalized populations, particularly hard-to-reach key populations such as FSW and MSM. Health care providers in health facilities are trained to provide adapted and respectful services to these key populations as well as to other vulnerable groups with specific needs (e.g., youth, people with disabilities). In Rwanda, 78.7 percent of households have at least one member covered by health insurance, and of these individuals, 97.1 percent are covered by community-based health insurance scheme (RDHS 2014-2015). HIV services are partly supported by external funding and partly included in the insurance package.

3. WHERE WE WANT TO GO

After reviewing the current situation of the HIV epidemic and response, the next step is to define the main orientations of the NSP. This involves identifying the main national and



international policies and strategic frameworks that are guiding the development of this NSP, describing the main principles that are followed in the proposed strategies, and introducing the interventions and overarching result framework of the NSP for the next three years.

3.1 Policy environment

3.1.1 National policies

The strategies presented in this NSP are aligned with Rwanda's development strategic documents, including Vision 2020, EDPRS2 (2013–2018) (1), and HSSP3 (2012–2018) (3), and will also be aligned with other national documents under development, including Vision 2050 and HSSP4.

The key indicator targets of Vision 2020, which gives long-term objectives for the country's development progress, were recently revised as those that had been initially set had already been achieved. Over the last decade, the national HIV prevalence has been stable at 3 percent¹. Rwanda joined the rest of world in working toward the UNAIDS 90-90-90 ambitious treatment target to help end the AIDS epidemic. According to this target, by 2020, 90 percent of all PLHIV will know their HIV status, 90 percent of all people with diagnosed HIV infection will receive sustained antiretroviral therapy, and 90 percent of all people receiving antiretroviral therapy will have viral suppression.

The current EDPRS (2013–2018) considers HIV as one of its cross-cutting issues and acknowledges the extensive gains made in preventing HIV using five integrated components: VCT, prevention of mother-to-child transmission (PMTCT), male circumcision, behaviour change communication (BCC), and HIV treatment. HIV is also identified as an important program within the health sector strategy of EDPRS2 (2), as one of the foundational issues on which emerging economic priorities can be developed. Within the EDPRS framework, the goal of the health sector in Rwanda is to improve the quality, demand, and accessibility of primary healthcare, of which HIV is an important component.



The third HSSP 2012–2018 (3) also gives a general orientation on health sector priorities in the HIV response for the coming five years, identifying the key challenges the health sector must focus on in order to achieve universal access for HIV prevention and treatment services.

3.1.2 International policies

Apart from these guiding national documents, the NSP is also aligned with international strategic documents, including the Sustainable Development Goals (SDGs) and the UNAIDS Strategy 2016–2021. Rwanda has successfully achieved its 2015 MDG targets due to its impressive progress across health, social, and economic development. Comparing the stabilization of HIV prevalence between the current national HIV prevalence and past estimates, coupled with declining rates of HIV-related mortality, plausible evidence suggests that the spread of the infection is halting. Even though we do not have consistent and comparable measurements of HIV incidence for risk groups within the country over time to allow for the analysis of temporal trends, projections of new infections obtained by statistical models (EPP/Spectrum) suggest that HIV incidence is on a downward trend. In terms of access to ART for eligible HIV patients, the current coverage is estimated at 82.7 percent of patients, well within the definition of universal access. In 2016, Rwanda fully adopted the 'test-and-treat' strategy to be implemented in all health facilities providing HIV services.

All the 8 key interventions identified by the UNAIDS Strategy 2016–2021 (see the box below) (17) are programmatic priorities within the NSP logical framework. The critical enablers and synergies with development sectors identified in this framework are also taken into account in our NSP (described in the next chapter on overarching principles).

- 1. Children, adolescents, and adults living with HIV access testing, know their status, and are immediately offered and sustained on affordable quality treatment.
- 2. Young people, especially young women and adolescent girls, access combination prevention services and are empowered to protect themselves from HIV.



- 3. New HIV infections among children are eliminated and their mother's health and well-being is sustained.
- Tailored HIV combination prevention services are accessible to key populations, including sex workers, men who have sex with men, people who inject drugs, transgender people and prisoners, as well as migrants.
- 5. Women and men practice and promote healthy gender norms and work together to end gender-based, sexual and intimate partner violence to mitigate risk and impact of HIV.
- 6. AIDS response is fully funded and efficiently implemented based on reliable strategic information.
- 7. Punitive laws, policies, practices, stigma, and discrimination that block effective responses to HIV are removed.
- 8. People-centered HIV and health services are integrated in the context of stronger systems for health.

3.2 Overarching principles

3.2.1 National mobilization and ownership

One of the main reasons behind Rwanda's success in addressing HIV and AIDS, in the health sector and more widely in the country's social and economic development, has been the strong commitment of decision makers and opinion leaders to join efforts to reach jointly set targets and to hold donors and development partners accountable for a common nationally-led vision. HIV is a cross-cutting issue for EDPRS 2, which means that all economic development sectors are accountable for contributing to the national HIV response and that all sectors of Rwandan society are aware of their responsibility in addressing the epidemic. Of course, external support has been, and continues to be, a major contributor to the national HIV response, but the strategies adopted and the relationship between national and international actors all aim to strengthen the alignment of





stakeholders to national priorities and the sustainability of interventions. This communal alignment continues to be a strong principle that will guide the implementation of this NSP.

3.2.2 Equity and human rights

Despite the strong results achieved by Rwanda over the past decades in addressing the HIV epidemic, issues of stigma and discrimination relating to the HIV epidemic are still persistent. Great strides have been taken to ensure geographic and financial accessibility to health and HIV services to all citizens, yet some marginalized groups still experience barriers to accessing appropriate and adapted services.

Regarding the involvement of PLHIV in the planning and management of the HIV program, the Rwandan network of PLHIV (RRP+) plays an important role in advocacy and representation in all the decision-making bodies for the HIV response. RRP+ is also involved in interventions for economic empowerment of PLHIV (through cooperative formation and strengthening) and in addressing stigma and discrimination related to HIV. The RRP+ will continue to play a prominent and active role at the national and decentralized levels in the implementation of this plan.

3.2.3 Gender equity

Following the findings of the 2013 gender assessment of Rwanda's national HIV response (18), the promotion of gender equity remains a priority orientation of the HIV response. The principles outlined in the gender and HIV strategy adopted in 2010 and operationalized in the National Accelerated Plan for Women, Girls, Gender Equality and HIV 2010–2014 (19) are integrated in this NSP.

3.2.4 HIV integration

The integration of HIV services is achieved at various levels:

• <u>Complementarity of HIV services.</u> The HIV response employs combinations of, and achieves synergies between, different HIV strategies and services in order to offer a comprehensive package of services adapted to different target groups. This





includes linkages between preventive and curative services and between community-based and facility-based interventions.

- Integration of HIV services within broader health programs. As HIV progressively becomes a chronic disease, it needs to be better integrated into the general system of healthcare provision, particularly health programs with strong linkages to HIV interventions, including sexual and reproductive health, nutrition, and mental healthcare. Integration of HIV services into the health system has always been a strong characteristic of the Rwandan HIV response, and this has benefited both the HIV program and the health system in general. In this NSP, a large component of the overall planning of resources is linked to health infrastructure and equipment and human resources for health. Infrastructure and equipment and human resources for health cannot be managed separately for the HIV program, but must be analysed through a systemic approach, where HIV is contributing to, and benefiting from, the general health system's resources.
- <u>HIV mainstreaming</u>. The multi-sector integration of HIV in the wider national development agenda is ensured by the identification of HIV as a cross-cutting issue within EDPRS 2. Each sector within EDPRS has specific HIV mainstreaming strategies and targets.
- <u>Regional integration of the HIV response</u>. As the East African Community (EAC) member countries have continued to be strengthened, there has been established under EAC a unit of HIV & AIDS working hand in hand with the National AIDS Control programmes and the Ministries of Health of the EAC member countries for the EAC's regional response to HIV & AIDS. Through this collaboration, the citizens of each EAC member country have access to more socio-economic opportunities across countries, leading to higher regional mobility. As such, it is becoming increasingly relevant and important to establish harmonized protocols and guidelines for HIV prevention and care interventions in all countries of the region. Regular regional coordination meetings take place between the health sector and HIV decision makers to develop regional reference documents that will be uniformly applied.





3.2.5 Cost-effective and evidence-based planning and response

The planning process of this NSP has been based on existing evidence, both at national and international levels, to assess progress made to date in the national HIV response and to select the best strategies for achieving national and global targets.

The national M&E system has been central to obtaining up-to-date data through routine monitoring, surveillance and surveys, and research and evaluation. One area of improvement in our M&E system during the coming period will be to strengthen the evaluation component of the system in order to gather data that will allow us to better assess the degree to which impact results are being achieved in terms of reducing new HIV infections and HIV-related deaths.

Special emphasis will be placed on improving the quality of services. This will be achieved through the strengthening of the integrated supervision system that will identify areas of weakness within our interventions and the associated mentoring designed to address and correct these weaknesses.

Finally, one of the most important trends that is taken into account in the strategic planning process is the declining trend of external funding for the HIV response. This new NSP maintains ambitious national targets for the reduction of new HIV infections and of HIV-related deaths while taking into account prioritization of the most cost-effective interventions.

Another strategy adopted to maximize cost efficiency of HIV interventions is to increasingly call upon civil society and private actors for activities where they have expertise and an advantage for efficient implementation.

3.2.6 Capacity building

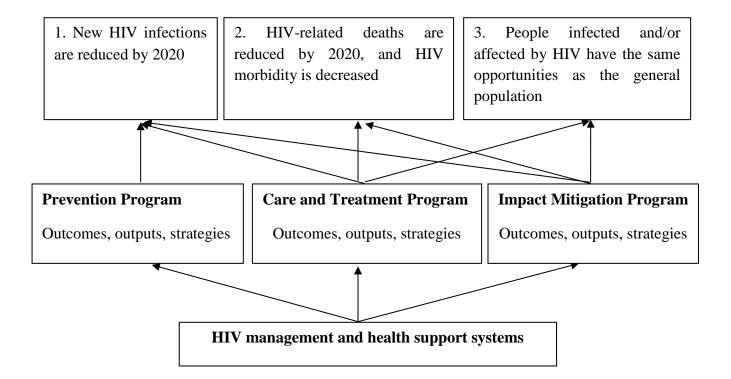
Strengthening the capacities of healthcare providers is a priority to improve quality of services and ensure optimal efficiency of interventions. Increased resources are being allocated for the short and long term trainings, in addition to the recruitment of specialized medical doctors to meet increasing demand for high quality care. Task shifting, with



appropriate training of nurses to fulfil responsibilities previously reserved to physicians, allows for better coverage of services to the increasing number of patients receiving ART and freeing physicians for management of more complex medical problems. Apart from improving knowledge and skills of healthcare providers and other health workforce members, capacity building activities also aim at organizational and institutional strengthening to ensure continuity of quality service provision in spite of the frequent problem of human resource instability and rapid turnover.

3.3 Overarching result framework

Figure 4: Overarching result framework



The NSP has three impact level results toward which all interventions are oriented. When possible, quantitative targets have been set to indicate the magnitude of the changes expected to take place during the period in response to the HIV epidemic. Because of the complexity in measurement of observed trends at the national level in HIV incidence and mortality, these targets are based on estimates generated by EPP/Spectrum for HIV new



infection and related deaths. Although each of the three main programs (Prevention, Care and Treatment, and Impact Mitigation) can be more closely associated with one of these three overarching results, the diagram above illustrates the fact that each individual program contributes to more than one impact result. For example, it is now well documented that ART and associated care and treatment interventions not only reduce HIV-related mortality and morbidity but also contribute also to preventing new HIV infections.

Similarly, although quantification of impact is not possible, different components of the Impact Mitigation program contribute not only to the improvement of livelihoods of people infected and affected by HIV, but also to preventing new infections and supporting adherence to treatment, thereby reducing deaths and morbidity. The detailed result framework for each of the three programs is presented in the following sections.

Two other components are supporting the three programs in a transversal manner: (1) HIV management, including coordination and monitoring and evaluation of HIV interventions (mostly related to the role of RBC) and (2) health support systems, where resources that support the general health system but are not specifically identified as HIV services are captured (health infrastructures and equipment, human resources for health, integrated supervision program).

4. HOW WE WANT TO DO IT

In order to achieve the overall results presented above, a detailed logical framework has been developed for each of the three main programmatic areas of the HIV response. These logical frameworks are structured according to the different levels of results targeted by each program (impacts, outcomes and outputs) and identify the main strategies and the detailed interventions to be implemented to achieve these results.

4.1 Prevention result framework

Best practices and lesson learned in the last decade

National Strategic Plan on HIV and AIDS: 2018 - 2020



- Importance of political engagement to the HIV response.
- Availability of financial support from both the Government of Rwanda as well as different partners.
- Regular revision of guidelines regarding integration of HIV testing services, key populations, elimination of EMTCT, male circumcision using the medical device, discordant couple follow-up program, etc.
- Elaboration of EMTCT strategic and implementation plans.
- Improved quality of services through clinical mentorship in HIV prevention.
- Consideration of HIV prevention activities completed in the community.

Challenges in HIV prevention program

- New HIV infections despite availability of prevention interventions.
- Decreased funding in the HIV response.
- Limited financial accessibility of VMMC services.
- Emergence of tetanus cases in VMMC beneficiaries.
- Limited accessibility of condoms at community level.
- Repeat testers in HCT settings.
- Loss to follow-up of people in HIV prevention services.
- Low national rate of male circumcision.
- Late consultation of pregnant women.
- Low coverage of PMTCT services in private clinics.
- High prevalence of pregnancies in known HIV-positive women.
- High HIV prevalence in FSW.
- High staff turnover.
- Low coverage of adolescents and youth-friendly prevention services.
- Challenging monitoring and evaluation of HIV prevention activities within communities.
- High prevalence of Hepatitis among pregnant women.



Innovations to address challenges and sustain best practices

- Strengthen the component of counseling and emphasizing risk assessment and risk reduction to contribute to the reduction of HIV re-testers.
- Scale-up of fingerpick method for HIV testing.
- Initiate HIV self-testing strategy to reach those not currently reached.
- Initiate case based surveillance and partner notification.
- Implement and monitor the referral system to improve linkage between HIV testing and treatment services.
- Integrate trainings by increasing onsite training.
- Initiate e-based training.
- Reinforce monitoring and evaluation of HIV services in communities by leveraging specific tools.
- Revise and update the distribution plan of condom and set M&E strategies.
- Initiate free condom kiosks distribution points in selected hot spots.
- Revise and update HIV guidelines.
- Elaborate tools for specific groups (IEC tools adapted to all types of disability, M&E tools for FSW, tools for discordant couples).
- Initiate Pre-exposure prophylaxis.
- Promote weekend voluntary medical male circumcision through campaigns to meet demand.
- Introduction of Tetanus vaccines in the package of VMMC services.
- Introduce large scale safe and quick adult non-surgical methods for male circumcision.
- Scale-up of voluntary medical early infant male circumcision.
- EMTCT strategies that focus on all four prongs.
- Initiate point of care Early Infant Diagnosis.
- Public-private partnership to scale PMTCT services in private and new public health facilities.





- Integrate Viral Hepatitis prevention in HIV prevention programs by vaccinating and screening high risk groups.
- Integrate youth-friendly services into existing services provided at health facilities and reinforce linkage between youth-friendly centers and health facilities.
- Implementation of "All In" national operational plan to address gaps in HIV prevention adolescents programming.
- Strong involvement of CHWs in HIV prevention awareness.

Strategies for reaching out and providing HIV services to key populations

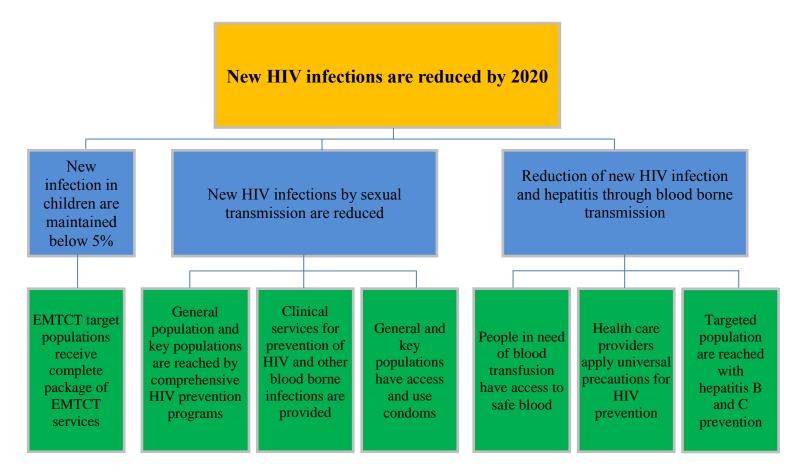
A combination of strategies will be used to ensure that key populations have access to a comprehensive package of services as defined by the national program.

- Provision of facility-based services package, including regular screening and testing for STI and HIV, systematic initiation of ARV treatment for those who tested HIV positive, condom and lubricants provision, and family planning services provision.
- Provision of community-based services such as HTS, STI screening, and condom distribution through outreach strategies.
- Linkage of community and health facility level interventions to ensure continuum of care.
- Establish support group of different categories of key populations through peer education approach.
- Establish enhanced follow-up (HIV testing and linkage to care and treatment) of children born to FSWs.
- Organize mass campaigns targeting key population groups to increase their awareness and service utilization.





Figure 5: Prevention result framework



IMPACT 1: New HIV infections are reduced by 2020

The goal of the HIV prevention program is to reduce new HIV infections by 2020. To achieve this target, prevention interventions will focus on key drivers of new infections in Rwanda that contribute to the three outcomes below:

- 1. New infections in children are maintained below 5 percent.
- 2. New HIV infections by sexual transmission are reduced.
- 3. Reduction of new HIV infection and hepatitis through blood borne transmission.







Outcome 1.1: New infections in children are maintained below 5%

The country is aiming to continue the downtrend line of mother to child HIV transmission rate below 5 percent. This rate is in line with global EMTCT goal to eliminate new pediatric HIV infections and improve maternal, newborn, and child health and survival in the context of HIV.

The PMTCT program was initiated in the country and then was progressively scaled up to achieve 97.7 percent geographic coverage. As the PMTCT program achieved positive and significant outcomes related to service availability, the EMTCT strategy emphasizes reorientation and re-organization of existing program activities. This strategy aims to continue scale-up of PMTCT service, upgrade quality, and improve access to, and utilization of, maternal, newborn and child health services at both the national and district levels. The scale-up will mainly focus on integrating PMTCT services in new public and private health facilities.

Output 1.1.1: EMTCT target populations receive complete package of EMTCT services

The EMTCT program has been running through health facility-based interventions. More emphasis will be put on community engagement, ranging from the increased use of services to improved adherence of those enrolled in the program for follow-up visits. A sustainable linkage between facilities and the community will be established and correctly monitored. The following strategies will be used:

Sensitization of young girls and boys on the importance of PMTCT services

In order to enhance primary prevention, youth sensitization will be reinforced and provided through peers. Anti-AIDS clubs, peer educator systems, youth corners and youth friendly centres (YFCs) will be working through a more effective and monitorable system. This system will target adolescents and young adults both in and out of schools. Pre-nuptial testing and counselling will be reinforced and will cover all components of primary prevention beyond its current limitation to HTS in several facilities. Vulnerable young girls







and young FSW will be specifically targeted. Furthermore, emphasis will be put on young boys who represent around 36 percent of female sex workers' clients as per 2015 behaviour and biological surveillance survey of FSW (11).

HIV testing services for pregnant women and couple testing

HIV testing services are provided to all pregnant women at the time of their first visit, with antenatal services (ANC) as a key component of the package of care. In addition, all pregnant women who test negative during ANC will be retested during labour to identify potential cases of HIV sero-conversion and newly infected pregnant women.

In addition to HIV testing, pregnant women and their partners are systematically screened for syphilis to reduce to the risk of mother to child transmission of syphilis.

Couple testing as a strategy will continue to be prioritized as a part of HIV testing services for pregnant women and the population in general, as a good strategy for mutual support in service utilization. To encourage couples to use services, EMTCT implementation relies on strategies to reinforce male partner involvement. Local authorities, community health workers, mass media, and community sensitization campaigns will sensitize male partners on the benefits of their involvement in antenatal care.

ARV treatment for HIV-positive pregnant and breastfeeding women

ARV treatment for HIV-positive pregnant and breastfeeding women will continue to be available to all women in need, aiming to maintain good health status and prevent HIV transmission to their children. The quality of services will be improved to increase the retention of pregnant women receiving ART.

Family planning

The prevention of unintended pregnancies among women living with HIV and AIDS will continuously be supported to reduce unmet need for family planning. The availability of condoms for dual protection will be ensured and will always be coupled with counselling for consistent and correct utilization.



Mother - infant pair follow up

HIV positive pregnant women and breastfeeding follow-up

Comprehensive medical care and supportive services will continue to be emphasized for identified HIV-infected mothers. Components of comprehensive care include regular clinical follow-up and continuous adherence support to ensure women are kept in the continuum of care up to end of PMTCT follow-up period as per the national guidelines.

Exposed infant follow-up

Services meant for exposed infant follow-up include birth ARV prophylaxis, early HIV testing, treatment, and nutritional support for those in need. These services will be enhanced and will be available in public and private health facilities through systematic follow-up and care to the mother-infant pair. This will be achieved by optimizing the number of health facilities offering PMTCT services and the quality of services offered as well.

Beside PMTCT entry point, an active identification strategy for HIV positive children will be leveraged in other service delivery areas, including in vaccination programs and paediatric wards. This identification strategy will be facilitated in high volume PMTCT health facilities through the introduction of Point of Care Early Infant Diagnosis. The goal of this program is to ensure that at-risk infants have timely access to an early diagnosis and to facilitate early ART initiation for those who are HIV positive.

All identified HIV positive children will be closely monitored to document causes and risk factors associated to HIV transmission in order to guide program interventions. Furthermore, this monitoring will help to ensure that all identified HIV positive cases are linked to HIV care and treatment.



Outcome 1.2: New HIV infections by sexual transmission are reduced

To reduce new HIV infections by sexual transmission, combined prevention interventions will target the main groups associated with new infections, including FSW networks, MSM, youth, and SDC.

The outcome result will be achieved through the following outputs:

Output 1.2.1: General population and key populations are reached by comprehensive HIV prevention services

Key prevention interventions targeting the general population

To ensure that all Rwandans are informed about the major modes of HIV and STI transmission, methods for HIV and STI prevention, and the existence of key services that exist to help them remain HIV-negative, a combination of HIV prevention interventions will be provided. These interventions include community events and national sensitization campaigns using different communication channels such as mass media campaigns and sensitization campaigns at the workplace. The following activities will be conducted:

- Community sensitization involving local authorities and community health workers to promote safe sexual behavior including HIV, STI and viral hepatitis prevention, education, communication against gender-based violence (GBV) and counseling, family planning, HIV testing, and promotion of condom use.
- Small and large scale HIV prevention campaigns to reduce discrimination against key populations.

Key interventions implemented by mass media





Media networks will play a big role in information dissemination and community education through the implementation of integrated BCC broadcast programs on HIV, STI, and viral hepatitis. This will be carried out through the following proposed key priorities:

- Creation of new, and strengthening of existing, coalitions of media organizations on specific themes of HIV, STI, and viral hepatitis prevention.
- Development and initiation of broadcast programs on HIV and AIDS through radio and TV.
- Promotion of health service utilization including comprehensive HIV services.
- Strengthening the provision of specific support to media umbrella against HIV.
- Gender mainstreaming into HIV, STI, and viral hepatitis prevention through media partnership broadcasting program.

Key interventions in the workplace program

The workplace program is implemented by the private and public sectors in Rwanda. The private sector intervenes in private company workplaces, including agriculture, commerce, financial institutions, liberal professionals, tourism, arts and crafts, women entrepreneurs, young entrepreneurs, and ICT private institutions. Meanwhile, the public sector/MIFOTRA intervenes in ministries, districts offices, and other public institutions.

The main interventions in this NSP that will be coordinated by the Private Sector Federation (PSF) and the Umbrella of Public Sector against HIV and AIDS (USPLS) are the promotion and social marketing of condoms in hotspots (hotels, lodges and bars) and workplaces and the implementation of a minimum package of HIV services in the workplace (sensitization, initiation of HIV self-testing and HTS in general, referral to clinical services, reduction of stigma and discrimination).

Key interventions for adolescent and young adults

Adolescents and young adults will be reached in school through school-based sexual health and HIV, STI, and viral hepatitis education and out of school through anti-AIDS clubs for out-of-school youth. Although sensitization activities will be addressed to the general



youth population, most HIV prevention interventions will target the most vulnerable youth, including out-of-school youth. Key activities include:

- Support of sexual and reproductive health and HIV prevention in schools through small scale campaigns.
- Provide provision of a complete package of prevention education with out-ofschool youth through peer education, including information on sexual and reproductive health (SRH), HIV and STI, GBV, life skills, and referral for HIV, STI and hepatitis testing.
- Improve services for GBV survivors and PMTCT for women aged 15–24 years.
- Target young boys through HIV comprehensive package, especially VMMC services

Key interventions for people with disabilities

There is no data showing that HIV prevalence in people with disabilities is higher than in the general population in Rwanda. Instead, the main challenge for this group is to ensure access to services.

Interventions for people with disabilities will focus on:

- Development of appropriate IEC materials customized for each specific category.
- Sensitization intended to reduce stigma and discrimination in the community through peer education.
- Organization of trainings to ensure disability friendly services.

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Key interventions targeting key populations

The main focus of prevention interventions is on priority groups identified by the MOT exercise: SDC, FSW and their clients, vulnerable youth (particularly young women aged 15–24) and MSM. Each of these groups has a minimum package of services addressing their particular needs. Some interventions are common to all, while others are specific to the certain groups.

Common interventions:

- Development and distribution of guidelines for prevention and clinical follow-up.
- Development of IEC materials specific to each key population.
- Outreach programs through peer education programs, provision of information on HIV and STI, referral for HIV testing, promotion of condom use and STI diagnosis.

Specific interventions:

Provision of intensive package of services at facility level for SDC, FSW and MSM

- Peer education for FSW and MSM also addresses the problem of gender-based violence to which they are particularly vulnerable.
- Targeted STI screening and HTS of FSW and their clients in hotspots.
- Targeted SRH and PMTCT services for pregnant FSW and their children.
- Advocacy with law enforcement and local authorities to improve protection of FSW and MSM.
- Strengthen FSW and MSM participation in policy development and program implementation.
- Reduction of socio-economic vulnerability of sex workers by encouraging FSW to create associations and cooperatives.

Other groups are targeted because of their specific working or living environment, including: mobile populations (long distance truck drivers and their assistants and fishermen), people in uniform, prisoners, and refugees and internally displaced persons.

Output 1.2.2: General and key populations have access to and use condoms

Consistent and correct use of condoms dramatically reduces the risk of acquiring STIs, including HIV. To ensure that condoms are available, accessible, and used by general and key populations, the following strategies will be leveraged.

Condom availability and accessibility to general and key populations

This strategy will seek to strengthen commodity management strategies to ensure the availability of condoms in all service points within a health facility at all times. Working with the social marketing and private sectors, partnerships with the central and decentralized health sectors will be strengthened to ensure availability of condoms at the community level, particularly focusing on hot spots and high-risk zones. The national program plans to scale-up while also strengthening the newly introduced free condom distribution kiosks located in selected hotspots around Kigali City. This strategy is meant to ensure both free access to condoms at all times and educational material on HIV and safer sex practices. Furthermore, various HIV prevention outreach activities that are already planned (HTS, VMMC, PMTCT, etc.) will provide opportunities for community-wide distribution of condoms.

Implementation of these combined strategies will be coupled with regular review of the current supply chain system and specific measures to strengthen quantification, procurement, inventory management, and distribution of the condoms targeting all potential user groups, and, in particular, key populations.

Output 1.2.3: Clinical services for prevention of HIV and other blood borne infections are provided

The objective of this output is to ensure that clinical services are available, accessible and affordable. These services have to be provided at the highest quality possible without discrimination, especially to key populations. During the next three years, we will ensure that the following services reach general and key populations:



HIV counselling and testing services

The objective of this strategy is to ensure that the general population, with specific focus on key populations, has access to affordable HTS to identify HIV infected people and link them to ART, and to identify those who are negative and advise them on risk reduction.

For the general population, the strategy will aim to avoid repeat testing of people at low risk and instead reach those who have not yet been tested and do not know their status. For key populations, outreach interventions will be implemented to reach them beyond health facilities and to ensure regular HCT and medical follow-up. In this respect, innovative technologies and approaches, including the finger prick method, have been introduced to increase access to services. In addition, HIV self-testing will be introduced to reach people who have not been reached with existing strategies. Strong linkages will be built to ensure provision of prevention and care and treatment services after testing. A quality assurance system will be strengthened to ensure correct test results and to periodically review the testing algorithm.

HTS guidelines and IEC materials will be updated and disseminated. Training of service providers on specific services including HIV self-testing, testing using finger prick method, and couple counselling and testing will be scaled-up with special emphasis on trainings in private health facilities. Provider-initiated counselling and testing (PICT) services within all service units in health facilities will also continue to be strengthened.

As the country has begun its implementation of option B+ in PMTCT program and its "Treat All" strategy, it is essential to ensure that beneficiaries of HIV testing receive accurate tests results before initiation of lifelong treatment. Therefore, the national program will put more emphasis on Rapid Testing Quality Improvement Initiative (RTQII) to ensure long-term sustainability of quality HIV testing while keeping error rates as low as possible.

To ensure continuous quality improvement of HIV testing services, a number of interventions are planned, including development of guidelines for implementation of RTQII, provision of HIV confirmatory test kits, human resource development through trainings, continuous supervision, and mentorship.





HIV Self-Testing

In Rwanda, the geographic coverage of HIV testing services is around 97 percent of all public health facilities. The strategies currently used for providing HIV testing services include facility-based and outreach HIV testing services.

Despite this high coverage, the 2014/2015 DHS has shown gaps in HIV testing in some specific segments of the population, including adolescents. This health survey showed that 86 percent of women and 81 percent of men have ever been tested for HIV and almost all (97 percent) receive their results. However, a low coverage of HIV testing among adolescents and youth was found, with 52.5 percent of adolescent women (aged 15 to 19) and 41.5 percent of adolescent men (aged 15 to 19) reported having ever been tested.

Introduction of HIV self-testing is expected to increase coverage of HIV testing services to people who are not currently reached through existing HIV testing approaches. Implementation of HIV self-testing will be done in a phased approach to gain enough experience to inform a national roll-out.

Under overall coordination of the national program by RBC, the first phase will be a joint effort between RBC and its partners in HIV response. Key interventions include procurement of HIV test kits, capacity building of stakeholders who will be involved in implementation, linking people with health facilities for cases who will need HIV confirmatory testing, and elaborating communication materials around the strategy for both HIV self-testing beneficiaries and health care providers.

Male Circumcision

Currently, two main methods, traditional surgical and medical devices, are used in VMMC service delivery, and these methods will continue to be the focus for the next three years to ensure that both adults and children are covered. The use of innovative technologies, such as VMMC devices, increased the number of voluntary medical male circumcisions, including male circumcisions in non-clinical settings. Different approaches will continue to be used to reach the male population in need of VMMC services including mobilizing





the general population through organized male circumcision campaigns in health facilities targeting schools, youth friendly services, and focusing on reaching key populations.

As male circumcision alone cannot provide complete protection against HIV, other prevention methods still need to be leveraged such as condoms, delaying sexual debut, and reducing the number of sexual partners. In addition to existing VMMC comprehensive services, systematic tetanus immunization was introduced in 2016 in the national guidelines as a mitigating strategy for tetanus risk. The feasibility of including male circumcision in the package provided by medical insurance schemes will continue to be studied to ensure universal access to this service.

Prevention of STI in general and key populations

This strategy aims to increase STI systematic screening from 40 percent to 75 percent of all HIV-positive clients, improve treatment of positive cases, and improve STI indicators that are reported in HMIS. Additional strategies including the introduction of rapid testing for herpes simplex type 2, gonorrhoea, and chlamydia in all district hospitals will be implemented.

Key interventions will focus on (1) provision of drugs and consumables for STI screening and treatment, (2) development/updating of communication tools for healthcare providers on STI screening, counseling, and referral for key populations, (3) training of healthcare providers on particular STI management for key populations, and (4) development/updating and production of STI diagnosis algorithm for all health facilities.

A strong integrated clinical mentorship will be needed to support clinicians in appropriate STI systematic screening and management in PLHIV.

Pre-exposure prophylaxis

Pre-exposure prophylaxis is considered an additional prevention strategy in a comprehensive package of services. However, implementation of Prep will not replace existing effective HIV prevention interventions such as condoms for key population and other interventions. Beneficiaries of Prep will include key populations who have

substantial risk of HIV acquisition, including sero-discordant couples and female sex workers.

As Prep is a new initiative, the plan is to complete a progressive scale-up starting with a small-scale phase. The package of services includes, among others, HIV testing to ensure that those started on Prep are truly HIV negative to avoid any potential drug resistance after initiation, provision of Prep drugs, and capacity building of health care providers who will be involved in program implementation.

Post-Exposure Prophylaxis

Access to post-exposure prophylaxis (PEP) and addressing the barriers to accessing these services is important to prevent new HIV infections from GBV and accidental exposure. Key interventions will focus on (1) elaboration and multiplication of PEP policy/tools for healthcare workers, and (2) provision of drugs for PEP.

Prevention with Positives

Primarily HIV prevention efforts in Rwanda have been focused on changing risk behaviors of HIV-negative individuals. However, greater attention is now being paid to prevention among HIV-positive individuals. Changes in the risk behaviors of HIV-infected individuals are likely to have larger effects on the spread of HIV than comparable changes in the risk behaviors of HIV-negative individuals. Helping PLHIV adopt safer behaviors is an important part of a comprehensive prevention approach. Broadly, positives prevention goals have been defined as reducing sexual transmission of HIV to partners, identifying HIV-positive partners/family members for care and treatment, reducing the risk of patient acquiring new STI and new strains of HIV, reducing unintended pregnancy and mother-to-child HIV transmission, reducing alcohol use that contributes to high risk transmission behaviors and poor adherence, and reducing viral load through increasing adherence to care and treatment. Key interventions will include capacity building of health care providers on prevention with positives package of services through integrated training, and



involvement of partner of index partner to ensure that they are tested for HIV and have access to family planning services.

Clinical prevention services to key populations

Some of the key populations may have limited access to health services in general and HIV programs in particular. Beyond limited access to services, they also face discrimination and stigma from both healthcare providers and the community.

Specific attention will be paid to addressing barriers that key populations encounter when accessing health services. Health care providers will be trained on friendly services provision to key populations, in particular FSW and MSM. These friendly services will include HTS at health facility level and in the community through outreach, family planning and reproductive healthcare, STI screening, and treatment.

A special focus will be put on strong linkages to care and treatment for FSW and MSM tested positive for HIV so that they can start ART as per the "Treat All" strategy. This will go together with targeted adherence programs.

While elimination of new HIV infection in children through vertical transmission of HIV can now be considered a realistic public health goal in the general population, it is a more difficult goal to reach for some specific populations, such as female sex workers. The 2015 sex workers BSS survey revealed a high HIV prevalence of up to 45.8 percent for children born of FSW. Thus, children born to HIV positive FSW are among those most exposed to the risk of MTCT of HIV.

Special attention will be paid to FSW children and infants by providing them with PMTCT services and close follow-up as they are at high risk of being infected with HIV. Planned interventions include capacity building of health care providers and mentorship and peer education aimed at improving utilization of HIV prevention and treatment services for children born to FSW.

Outcome 1.3: Reduction of HIV infection and hepatitis through blood borne transmission

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The estimated number of new HIV infections through blood transmission in both clinical and non-clinical settings is very low. In terms of clinical settings, the blood transfusion system screens all donated blood for most common blood borne infections (HIV, HBV, HCV, syphilis) and universal precautions are generally followed in health facilities. In terms of non-clinical settings, the number of IV drug users is still believed to be very low in Rwanda, although there has not yet been any empirical research conducted to estimate the real prevalence of this problem in Rwanda. Therefore, the goal of this outcome is to reduce HIV and other blood borne infections transmitted through blood.

Output 1.3.1: People in need of blood transfusion have access to safe blood

The National Center for Blood Transfusion (RBC/NCBT) is ensuring systematic screening for HIV and other blood borne infections in all donated blood. The improvements targeted include increasing geographic accessibility of blood transfusion services by strengthening the regional blood transfusion centers and blood banks, increasing financial sustainability of the program by establishing a cost recovery system, improving the quality of services by setting up a Quality Management System (QMS), and strengthening equipment maintenance capabilities.

Output 1.3.2 Health care providers apply universal precautions for HIV

According to 2014/15 DHS (4), 99.2 percent of men and 98.8 percent of women aged 15-49 who had received an injection in the last 12 months declared that the syringe and needle used at last injection was taken from a new, unopened package. To maintain this high level of application of universal precautions, the main strategy is to provide sufficient equipment to health facilities and healthcare providers, including syringes and safety boxes. Medical waste management will continue to be a focus to ensure sustainable universal precautions. Further, health care providers will continue to provide and receive refresher trainings on safe injections and waste management.



Output 1.3.3 Targeted population are reached with Hepatitis B and C prevention

Hepatitis B and C screening and treatment of other blood borne infections

Viral Hepatitis, especially Hepatitis B Virus (HBV), can be transmitted from mother to child during pregnancy or delivery. According to National Viral Hepatitis guidelines, screening for HBV and Hepatitis C virus (HCV) by testing for HBsAg and HCVAb should be performed at the first antenatal visit or other delivery setting for every pregnancy, regardless of previous Hepatitis B vaccination or previous negative HBsAg tests.

Vaccination against Hepatitis B virus will be recommended for pregnant women who screen negative for the virus. Additionally, those women who screen positive will be counselled and referred for care and treatment.

Other specific groups at high risk of acquiring or transmitting Viral Hepatitis (HBV and HCV) inclusive healthcare providers (HCPs) due to their potential contact with infected bodily fluids, such as blood. Other high risk groups include incarcerated persons, FSWs, and MSM, as they are exposed to HBV and HBC due to their daily activities that expose them to bodily fluids, semen, and vaginal fluids. These high-risk groups will be screened for these infections to reduce transmission.

Provision of HBV Vaccine for Exposed Individuals

Vaccination against HBV has proven to be an important tool in preventing transmission of the virus. Typically given in a series of three doses, the vaccine provides protection from infection for more than 95 percent of healthy infants, children, young adults, Community Health (CHWs) Workers, and HIV positive people.

Health Providers (HCPs) and CHWs are at an increased risk of contracting HBV in the workplace due to their potential contact with infected bodily fluids, such as blood, saliva, and vaginal fluids. HIV positive people and infants born from HBV infected mothers are also at high risk of acquiring HBV. They need routine provision of HBV vaccine to protect





them from infection. It is recommended to provide 3 doses for each high-risk person, except for PLHIV, in which case 4 doses are needed to increase the efficacy of the vaccine.

4.2 Care and treatment result framework

Best practices and lesson learned in the last decade

- Political commitment to HIV response.
- Financial support from both the Government of Rwanda and partners.
- Revision of treatment guidelines by adopting "Treat All" strategy for early treatment initiation.
- Decentralization and scale-up of ART services.
- Expansive ART coverage across all PLHIV.
- Task shifting from medical doctors to nurses for ART prescription and patient follow-up (Nurses now prescribe ART to adult patients in need).
- Improved quality of services through clinical mentorship in HIV care and treatment.
- Strengthening health system (Lab capacity at health facility level).
- Availability of ART first, second, and third line drugs.
- Initiation of a Differentiated Service Delivery Model (DSDM) to support "Treat All" strategy.
- "All In" initiative operational plan to guide intervention addressing gaps in HIV services to adolescents.

Challenges in HIV care and treatment

- Decreased funding for HIV response.
- Low coverage of ART for children and adolescents.
- Low decentralization viral load and genotyping tests at the point of care.
- Low lab capacity to screen/diagnose all STI, OI, and other co-morbidities.



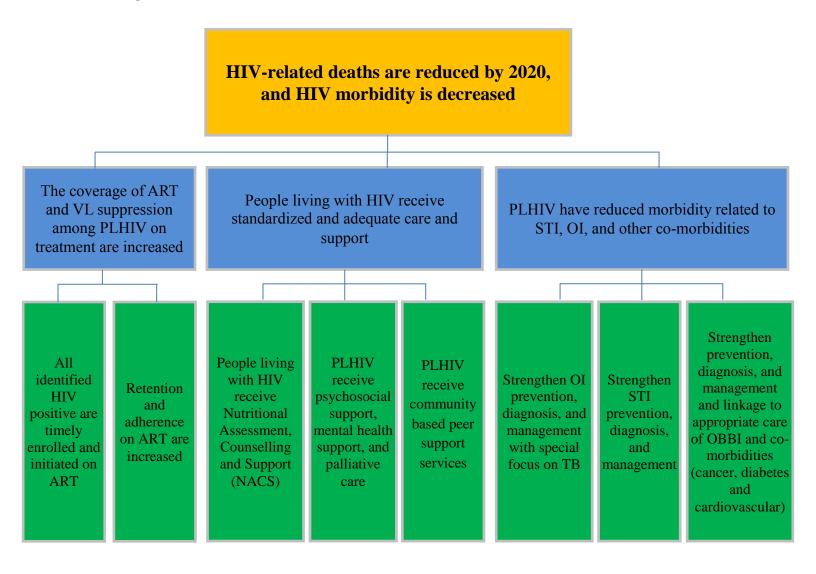


- Insufficient linkage between HIV testing and HIV care and treatment services.
- Insufficient adherence to ART, mainly for specific groups including children and adolescents.
- High staff turnover.
- Insufficient adolescent and youth friendly services.

Innovations to address challenges and sustain best practices

- Integrate services and trainings (reduce routine training and increase onsite trainings).
- Tools for patient's education on ART adherence to increase their HIV care knowledge (Leaflets, visual audio etc.).
- Revise protocol for facilitating adherence (Pill burden, frequency, side effects).
- Implement and monitor the referral system to improve linkage between HIV testing and treatment services.
- Special monitoring of key groups: children and adolescent (Viral load monitoring, support groups, friendly services).
- Implement "Treat All" strategy.
- Improve active screening of OI and other co-morbidities and increase diagnosis capacity to reduce mortality and morbidity (TB, Crypto, Hepatitis B, cancer, and other metabolic diseases).
- Increase number of nurses trained on task shifting for ART pediatric and second line prescription and scale-up of basic task shifting to address high staff turnover.
- Implement community support in the HIV management.
- Implement "All In" treatment related operational plan.
- Decentralize and improve sample transportation system for PLHIV monitoring.

Figure 6: Care and treatment result framework







IMPACT 2: HIV-related deaths are reduced by 2020, and HIV morbidity is decreased

This impact result targets the health status of PLHIV as well as their physical and mental wellbeing. It therefore encompasses not only access to treatment and care, but also adherence to treatment and quality of care. Indicators chosen for this result take into account the EDPRS indicator and are also used by all major international stakeholders:

- Percentage of PLHIV (adults and children) on ART compared to all infected PLHIV (baseline: 82.7 percent, target: 85 percent).
- Percentage of people still alive (adults and children) and on treatment 12 months after initiation of ART (baseline: 92.7 percent, target: over 90 percent in 2018).

This result will be achieved through the following three outcomes related to specific types of services required to reduce morbidity and mortality within the framework of comprehensive care and treatment for PLHIV:

- Outcome 2.1: PLHIV have reduced morbidity related to STI, OI and other comorbidities.
- Outcome 2.2: The coverage of ART and VL suppression among PLHIV on treatment are increased.
- Outcome 2.3: PLHIV receive standardized and adequate care and support.

Outcome 2.1: PLHIV have reduced morbidity related to STI, OI, and other comorbidities

This outcome is subdivided into three outputs, designed to ensure that specific important co-infections and morbidities are adequately addressed within the framework of a comprehensive care and treatment package.



Output 2.1.1: Strengthen OI prevention, diagnosis, and management with special focus on TB

Prevention, diagnosis and management of opportunistic infections (OIs) still remains an important strategy for management of PLHIV based on national recommendations. Early diagnosis to recommend appropriate treatment of OIs is key to reducing mortality and/or morbidity related to OIs. Particular attention will be paid to Cryptococcus and tuberculosis infections as mortality and morbidity of these OIs are high.

In an effort to reduce the burden of TB in PLHIV, TB case finding will be intensified through systematic screening of TB symptoms for all HIV patients at enrollment and follow-up in HIV clinics, as well as at every follow-up visit with a care provider. Screening tools will be strengthened by introducing chest x-rays for new PLHIV enrolled in care and treatment. Capacity of health facilities will be strengthened regarding Para clinical examinations for those suspected of having TB. Patients with HIV/TB co-infections will be put on ART regardless of their CD4 count. To achieve these targets, the collaboration of TB and HIV programs at the health facility level will be strengthened, and will be supported through a well-functioning M&E system.

All PLHIV with low immunity (CD4 less than 200 cells) at enrollment will be systematically screened for Cryptococcus and managed according to national protocol.

Screening for cervical cancer will become part of the systematic OI screening for PLHIV. This screening practice will be included in the regular training and refresher courses for healthcare providers.



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Output 2.1.2: Strengthen Sexual Transmission Infections (STIs) prevention, diagnosis, and management

This strategy aims to increase STIs systematic screening for treatment of positive cases and reinforce prevention of STIs. Currently, 60 percent of clients visiting a health facility are screened, and this strategy should be strengthened in order to screen more people and provide drugs for positives cases. Additional strategies, such as introduction of new STI tests approved by national guidelines for all district hospitals, will be implemented. To achieve this goal, emphasis will be put on updating STI national guidelines, training healthcare providers, and ensuring availability of STI drugs at all health facilities. Further, strong integrated clinical mentorship will be needed to support clinicians in appropriate STIs management to prevent HIV infection.

Output 2.1.3: Strengthen prevention, diagnosis, and management and linkage to appropriate care of OBBI and co-morbidities (cancer, diabetes and cardiovascular)

Hepatitis B and C

Evidence shows that HIV, Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV) are transmitted in similar ways, and it is common for an individual to be co-infected. In fact, HIV and HBV and/or HCV co-infected individuals are more likely to become chronically infected with Hepatitis compared to individuals who do not have HIV, leading to severe complications such as liver cancer and cirrhosis. Furthermore, certain specific groups are at higher risk of acquiring or transmitting certain types of Viral Hepatitis (HBV and HCV). These groups include healthcare providers, pregnant women, FSW, and MSM. These groups should be screened for both HBV and HCV infections for specific management. Among these groups, serologic markers (liver tests) will be conducted to screen for HBV and HCV. Further, viral load and genotyping tests will be performed for treatment initiation



and monitoring. Capacity building for monitoring Hepatitis co-infections through training and mentorship is critical and will be conducted for health care providers at all health facilities.

Other co-morbidities (cancer, diabetes and cardiovascular diseases)

The expanded delivery of antiretroviral therapy has increased life expectancy for PLHIV. Consequently, there has been a shifting burden of morbidity and mortality from AIDSrelated opportunistic infections to chronic conditions associated with aging, including non-communicable diseases (NCDs) such as cancers, cardiovascular diseases, and diabetes. Therefore, addressing these NCD chronic conditions has become an important public health priority.

Addressing NCDs by ensuring access to screening, diagnosis, and treatment for PLHIV, increasing diagnosis capacity, and improving HCPs capacity will be strategies for decreasing morbidity and mortality of PLHIV.

Outcome 2.2: The coverage of ART and VL suppression among PLHIV on treatment are increased

Initiating PLHIV on treatment is one of the main strategies to keep them alive. ART improved the quality of life of PLHIV by maintaining their immunity. The main objective of ART is to suppress the VL.

Output 2.2.1: All identified HIV positive are timely enrolled and initiated on ART

The 90-90-90 HIV global target identifies the following goals be met by 2020: 90 percent of all HIV infected people are diagnosed, 90 percent of all diagnosed people are initiated on ARVs, and 90 percent of those on ARVs have fully suppressed viral load.





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The Rwandan Ministry of Health (MoH) revised its national guidelines and introduced its "Treat All" strategy that is in line with the 2015 WHO consolidated guidelines recommending treating all HIV positive individuals as soon as possible. This strategy was launched in Rwanda on 1st July 2016. Since then, all HIV positive people are initiated on ART as soon as they test positive, beginning with those who were in pre-ART at the time.

The actual coverage is 82 percent and is used as the baseline value to measure progress during the period of this NSP extension. Therefore, major efforts are required to successfully implement the "Treat All" strategy, including increasing capacity to deal with larger patient loads, identifying new patients, and maintaining and further improving quality of services. Currently, the majority of people under treatment were detected only after symptoms had appeared (based on clinical and/or immunological eligibility criteria up to 2015). Therefore, one of the main challenges to implementing "Treat All" will be attracting people who are infected but still healthy to get tested and receive regular treatment. This challenge will be addressed through better targeting of HCT to high risk groups and people who have not yet been tested, and by improving counseling of HIV-positive people to ensure their enrollment and retention in the ART program.

The key strategies for this output include:

- Increase communication campaigns to encourage HIV testing, especially among groups with high risk behaviours
- Strengthen the linkage between HIV testing entry points and care and treatment leveraging home visits and monitoring meetings within health facilities and districts
- Provide short but comprehensive counselling sessions for early initiation
- Initiate pre-ARV laboratory tests

Output 2.2.2: Retention and adherence on ART are increased

As geographic access to HIV services is high, the main challenge of the program is to maintain and improve the quality of services, with an overall aim at improving the quality

of life for PLHIV. This goal will be achieved through integrated training of providers, integrated clinical mentorship, and early detection of ARV treatment failure (viral load as per national recommendation). As viral load is the back bone of monitoring patients on ARVs, its availability at point of care to decrease turnaround time is a priority. To ensure the availability of HIV and AIDS medications and commodities, the supply chain will be strengthened for timely and reliable distribution. Further, clinical mentorship and formative supervision will be strengthened to support the successful implementation of all above strategies. In estimating the human resources needed to provide quality services to an increasing number of patients, new strategies for existing staff to absorb the additional workload will be initiated, including the HIV Differentiated Service Delivery Model (DSDM) for patient follow-up to improve the quality of care.

The Differentiated Service Delivery Model (DSDM), also referred to as differentiated care model, simplifies the delivery of ARV treatment, care, and support by taking into consideration various patient needs and priorities based on clinical and immunological status. It aims to decrease patient clinical visits and pharmacy pick-up for medications (ARVs and OIs prophylaxis) depending on a patient's outcome and adherence to services and ARVs. Patients with good adherence and VL suppression (stable patients) will have longer time between both their clinic visits and pharmacy pick-up (6 months and 3 months), and unstable patients (less adherence and not suppressing) will continue with usual clinic visit and pharmacy pick-up times (3 months and monthly).

As more patients are enrolled in care and treatment, more rigorous follow-up is needed to ensure retention and adherence to treatment in order to reach viral load suppression (a main goal of ARVs treatment).

Specific groups with historical issues related to adherence and retention will of focus, including children, adolescents, key populations, and pregnant women, among others.

Global initiatives such as "All In" that focuses on adolescent and young adult interventions for HIV prevention, care and treatment, and sexual reproductive health are being initiated in Rwanda. "All In" is a platform aiming to drive better results for adolescents (aged 10-





19 years) through critical changes in programs and policy. It seeks to engage adolescents and unite actors across sectors to accelerate reductions in AIDS-related deaths and new HIV infections as well as improving the sexual and reproductive health of adolescents. The platform was created in reaction to alarming evidence showing that AIDS is the leading cause of death among adolescents in Africa and the second most common cause of death globally.

Recent evidence revealed that 68 percent of health facilities in Rwanda providing ART do not have a healthcare provider appropriately trained in adolescent friendly services. In addition, the proportion of adolescents and young adults who are biologically suppressed (viral load below 1000 copies) at 6 months after treatment initiation remains low: 74.1 percent of adolescents aged 10-14, 79.5 percent of adolescents aged 15-19, and 78.8 percent of young adults aged 20-24 are biologically suppressed. Therefore, steps need to be taken to improve retention and adherence for these age groups.

One strategy to address gaps in adolescent HIV services and outcomes is to gain a better understanding of factors associated with low linkage, treatment, and VL suppression among adolescents. Further, trainings and mentorship on adolescent friendly services are planned for HCPs to enhance retention and adherence among this specific population.

Outcome 2.3: People living with HIV receive standardized and adequate care and support

Provision of care and support services to patients on ART is essential to ensure adherence to treatment and VL suppression to reduce HIV-related mortality and morbidity. The outputs contributing to this outcome are nutritional and psychosocial support through HCPs and community support.



Output 2.3.1: People living with HIV receive Nutritional Assessment, Counselling and Support (NACS)

Proper nutrition and HIV outcomes are strongly related. Malnutrition is a common complication of HIV infection, and it is likely to play a significant and independent role in its progression, morbidity, and mortality. In order to reduce malnutrition among PLHIV, we will integrate and reinforce Nutritional Assessment, Counselling and Support (NACS) within HIV and AIDS services, particularly in care and treatment and PMTCT services in all health facilities:

- Nutritional assessment and counselling for all PLHIV to identify their status and act accordingly: At each health facility visit, patients will be screened for nutrition status according to the national guideline and counselling will be given accordingly.
- Nutritional rehabilitation for eligible PLHIV: The criteria for enrollment on nutritional support for PLHIV is defined in the National Guideline of Care and Nutritional Support for PLHIV; all identified PLHIV eligible for support receive a defined package as per the national recommendation.
- Capacity building on infant and young children feeding (IYCF) practices: We adapted UN comprehensive communications strategies to empower healthcare providers and community health workers on the benefits of breastfeeding for mothers taking ART and on safe complementary feeding from six months. This NSP will put emphasis on training and mentorship for the above-mentioned groups, as well as ensuring availability of nutrition support as recommended.
- Capacity building on good nutritional practices: Evidence shows that poor feeding practices are linked to malnutrition among PLHIV. Efforts will focus on enhancing



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knowledge and skills on good nutritional practices through education and sensitization.

Output 2.3.2 PLHIV receive psychosocial support, mental health support, and palliative care

Psychosocial counseling

The HIV care and treatment program will enhance psychosocial care and support for different categories of PLHIV such as children, adolescents, youth, and adults. The psychosocial care and support will be provided through individual psychosocial consultations, reinforcement of HIV disclosure, and support groups especially for children and adolescents. To achieve this level of care and support, capacity building of healthcare providers through training and mentorship will be an important element for managing complicated cases and ensuring improvement of quality of life for PLHIV.

Mental health-HIV integration services

Integration of mental health and HIV is an identified strategy to improve quality of care of patients with HIV and mental health problems. Through mental health screening for PLHIV, all patients identified with mental health problems will be treated and supported. Further, HIV prevention measures for people with mental disorders will be established. Provider-initiated testing (PIT) and HIV adapted prevention education will be provided to clients with mental health problems.

Palliative care services

As HIV is a chronic disease that has related chronic disease coinfections/comorbidities, a palliative care program is required for patient support through end of life when needed. Palliative care will be provided to patients at either a health facility or within the community depending on patient status and national recommendations.



Output 2.3.3. PLHIV receive community-based peer support services

The spacing of patient visits to the clinic through DSDM allows a large number of HIV positive patients to spend more time in their communities instead of at a health facility. However, for DSDM to be successful, it must be supported by a community-based approach through peer education.

Peer education will be established to provide moral and psychological support to patients, promote adherence to treatment, and refer patients to a clinic when needed. Peer education will contribute to reducing time spent at frequent clinical visits. From a health system perspective, reducing clinic contact for clinically stable ART patients and instead focusing resources toward managing sick patients with complex clinical problems is a key objective. This shift has the potential to reduce staff workload and improve quality of care. From a HIV social impact mitigation perspective, the peer education approach will play a key role in improving referrals and linkages between the community and health facilities.

Community support through peer education will contribute to the strengthening of the Rwandan healthcare system by improving efficiency and quality of services, and this strategy is a priority to deliver quality care in the context of high coverage of treatment and DSDM.



4.3 Impact mitigation result framework

Best practices and lesson learned in the last decade

- Transitioning support from OVC to MVC to ensure most effective coverage and sustainability.
- Significant progress achieved in providing socio-economic support services to PLHIV and HIV-affected people.
- Continuous progress during the implementation of the previous NSP in providing legal support services to infected and affected populations; local authorities are more involved in community-led activities to reduce stigma and discrimination and promote the human rights of PLHIV.
- Significant progress in increasing the availability of services for all victims of SGBV at the community level, functional referral systems with the police and community-based organizations for SGBV survivors. One of the biggest successes was the creation of four one-stop centers across the country that provide comprehensive services to survivors.

Challenges in HIV impact mitigation

There are a number of challenges associated with the existing impact mitigation programme. These include:

- PLHIV developed economic capacities, but challenges with cooperatives remain as there continues to be limited training opportunities and financial support to sustain these cooperatives.
- Some PLHIV are still food insecure.
- The number of partners and subsequent funding to support MVC was far lower than the need.
- MVC have difficulty accessing some services, particularly financial support services. For instance, some child-headed households cannot access credit without start-up capital.
- Stigma and discrimination remain a reality and continue to act as barriers to health service access for PLHIV and other vulnerable groups. This, in

combination with self-stigma, may prevent PLHIV from accessing these services.

- Despite the existence of a conducive legal environment for the HIV response, gaps still exist, most notably in terms of ensuring access to services and social protection for vulnerable groups.
- There are gaps in updated data on stigma and discrimination. In general, there is limited data available to accurately assess the progress that has been made and the challenges that still remaining in terms of stigma and discrimination faced by PLHIV.

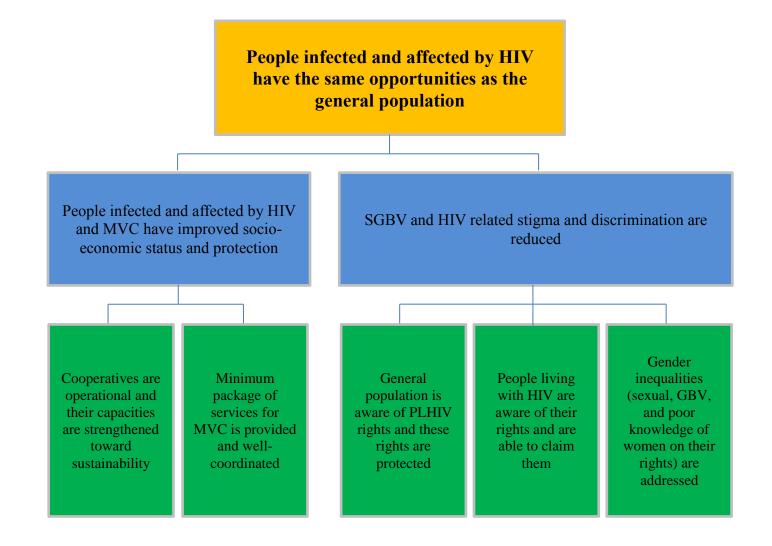
Innovations to address to challenges and sustain best practices

- National Commission for Children (NCC) will play a stronger role in MVC coordination by bringing partners together to ensure dissemination of and respect for the national minimum package of MVC services at all levels, a standard identification system for MVC support that all partners and levels can easily follow, and updated MVC database in the country to provide stakeholders with the appropriate information.
- Develop mechanisms and strategies to improve access to credit for people infected/affected by HIV by encouraging them to be in cooperatives.
- Continuous sensitization against stigma and discrimination and auto-stigmatization of people affected and infected by HIV.
- Strengthen the protection of rights of people infected and affected by HIV especially at the workplace and in schools.
- Provide gender-specific services targeted to young women and their specific vulnerabilities. Coordination and collaboration at the national and decentralized levels will also be strengthened.





Figure 7: Impact Mitigation result framework









IMPACT 3: People infected and affected by HIV have the same opportunities as the general population

This impact result will be measured by comparing the level of poverty of PLHIV to that of the general population using data from DHS. Two outcome results will contribute to this impact result: economic and social empowerment of people infected and affected by HIV and MVC and reduction of SGBV and HIV related stigma and discrimination.

Outcome 3.1: People infected and affected by HIV and MVC have improved socioeconomic status and protection

There are two main channels through which support has been provided to PLHIV to improve their economic status: (1) strengthening cooperatives for better access to credit and implementing income-generating activities and (2) agricultural technical support to improve food security of households infected and affected by HIV.

Apart from improving the quality of life of HIV infected children and children of HIV infected parents, the activities associated with this outcome also contribute to reducing new HIV infections by decreasing the vulnerability of these children.

Output 3.1.1: Cooperatives are operational and their capacities are strengthened toward sustainability

Cooperatives are supervised by the network of PLHIV (RRP+) and have been accredited by the Rwanda Cooperative Agency (RCA), and other associations are in the process to become cooperatives. The strategies projected for the next three years to promote economic empowerment of PLHIV will be through the strengthening of existing cooperatives:

- Provide management and governance training to cooperatives.
- Create links between industries and cooperatives of people infected and affected by HIV to access markets.



- Link cooperatives with finance institutions for easier access to funds.
- Provide start-up capital to cooperatives and to initiatives led by young PLHIV for business activities.
- Cooperatives will undertake income-generating activities geared toward market needs and will develop business plans to easily access credit. Emphasis is to be put on project design management and implementation and leadership skills.

Output 3.1.2: Minimum package of services for MVC is provided and wellcoordinated

The NCC is the national institution in charge of coordinating MVC interventions. The Commission has established a minimum package of services for MVC including the following elements: health services, nutrition support, education support, shelter support, and social protection by community volunteers, psychosocial support by peer educators, and socio-economic support. Among those services, educational support is the component with the largest budget. This budget includes providing scholastic material in line with the government policy of twelve years of basic education to all and school fees for children in vocational schools.

The provision of these services is implemented by a large number of civil society organizations (national and international) and will be guided by national guidelines for the MVC selection criteria and by a comprehensive national database to monitor all interventions for MVC support.

Outcome 3.2: SGBV and HIV related stigma and discrimination are reduced

Sexual Gender Based Violence (SGBV) still remains a barrier to the HIV response as it poses the risk of new infections.



Despite of all the progress made for universal access to treatment for PLHIV, stigma associated with HIV infection is still prominent, as documented by the recent Stigma Index survey (20). This stigmatization of PLHIV is the result of persistent prejudice among the general population and of self-stigma among people infected and affected by HIV. Thus, stigma represents an important barrier to accessing services for many PLHIV and must be adequately addressed to successfully achieve universal access.

Output 3.2.1: General population is aware of PLHIV rights and these rights are protected

Awareness campaigns for the general population on the rights of PLHIV will be conducted. The legal framework protecting the rights of PLHIV will be strengthened and legal counseling will be provided to PLHIV and MVC who need these services. Local authorities and peer educators working with PLHIV and MVC will receive training on laws protecting the rights of these vulnerable groups.

Output 3.2.2: People living with HIV are aware of their rights and able to claim them

PLHIV and MVC still have limited knowledge of their rights and often lack the selfconfidence and agency to act upon them. Due to their vulnerability and ignorance of their rights, PLHIV and MVC often face abuse regarding the right to have access to family property. Raising the awareness among PLHIV and MVC about the mechanisms they can appeal to for protection of their rights is an important strategy to address stigma and discrimination. This increase in awareness requires collaboration between the justice sector, health sector, police, and local authorities.

Output 3.2.3 Gender inequalities (sexual, GBV, and poor knowledge of women on their rights) are addressed



Despite many efforts undertaken to strengthen gender equality, girls and women are especially vulnerable to HIV due to multiple factors including, but not limited to: strict gender norms that promote unequal power relations, traditional attitudes towards sex and sexuality that limit access to information and services, limited educational attainment, economic vulnerability and dependence on men, and limited decision-making power in relationships. Levels of SGBV and violence in general remain high, including among sero discordant couples. Therefore, providing access to legal services for SGBV victims and integrating SGBV messages into existing communication channels are important. Effort will be put into reinforcing linkages and referral systems between the community, police authorities, and health services for comprehensive care of survivors. One-stop centers will be strengthened and SGBV services will be integrated into existing health services at each health facility. Special legal, psychological, and care packages will be provided to the most vulnerable groups, such as children, young girls, and others facing SGBV at community levels. Further, the discrimination faced by women and youth living with HIV will be given special attention in sensitization campaigns

4.4 HIV management and health support systems

Apart from the three main programs leading the national HIV response as described above, there are also cross-cutting components providing support systems and resources needed for the implementation of interventions. These systems are categorized into two types of involvement.

First, HIV-specific management mechanisms are supervised by central institutions (RBC and MoH for health sector institutions), government ministries leading the economic development sectors, and civil society umbrellas for the coordination and monitoring and evaluation of the national HIV response. HIV-specific training is also included in this component.

Second, many resources that are essential for the successful functioning of the HIV program are coming from the health sector, but not as HIV-specific resources. As has been the case in the past, the HIV program is contributing to the strengthening of the health



sector as a whole, and at the same time, general health resources are mobilized to implement HIV interventions.

- For example, most human resources providing HIV services to the population, as well as management staff, are not HIV specific and devote only part of their time to HIV. The training of nurses to provide HIV services that were previously reserved only for medical doctors (task shifting) is contributing to the capacity building of the health workforce. Integrated supervision and mentoring are also important activities to increase the competency of health staff. Performance based financing mechanisms support the provision of quality services for healthcare in general, and also more specifically for HIV services.
- Similarly, health infrastructure (health centers and hospitals, maternities, laboratory and pharmacies at central and decentralized levels) is crucial for the provision of HIV services, but also plays a larger role for health services in general.
- Community-based health insurance (Mutuelles de santé) is a major health system program that ensures accessibility to general healthcare for a large proportion of the Rwandan population (91 percent) and also benefits PLHIV.
- Cooperatives of community health workers are being rewarded for the services they give to their communities through community performance-based financing (covering HIV and many other types of services).
- Setting up an Electronic Medical Record (EMR) system whereby each patient will have an electronic record of all personal health related data will be a critical tool to monitor certain HIV indicators for which data could previously only be collected through specific (and costly) population surveys.

All of these support systems belong to the health sector as a whole, but contribute in a very significant manner to the success of the HIV program. Due to this interrelationship, this NSP is allocating an important part of its budget to strengthening these different aspects of the health system.

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5. TOOLS WE HAVE: GOVERNANCE MECHANISMS

5.1 National level coordination

The RBC-Institute of HIV Disease Prevention and Control (IHDPC) is the national coordinating agency responsible for ensuring that all HIV interventions in Rwanda are harmonized and aligned with national priorities and strategies and that the Three Ones principle (one national coordinating body, one national strategy, one national M&E framework) is followed. To achieve this, a standard format has been designed for both annual plans and for quarterly and annual reporting that is used by all partners involved in the national response to HIV and AIDS. Annual plans and annual reports are developed by all districts, economic sectors, and umbrella organizations and are consolidated into a national HIV annual plan and report.

RBC/IHDPC coordinates clinical and non-clinical aspects of the national response to HIV and other disease prevention and control. Within IHDPC, the HIV Division coordinates HIV, AIDS and STI and other blood borne infection activities. It is responsible for national planning, formulation of policies, training of trainers, and the development of the curricula for clinical programs. It provides technical assistance and gives guidelines in the organization and effective management of HIV and AIDS, STI, and other blood borne infection control programs. It is also responsible for monitoring, evaluating, and coordinating health sector activities as a whole in response to HIV. It ensures the coordination of research on STI, OI, VCT/PMTCT, TB and ART, as well as sociobehavioral research.

Apart from the HIV Division, a number of other divisions within RBC are also playing important roles in contributing to the HIV response, including: National Reference Laboratory (NRL) Division, National Center for Blood Transfusion (NCBT), Health Communication Center (HCC), Medical Procurement and Production Division (MPPD), Tuberculosis and Other Respiratory Diseases Division (TB), and Vaccine-Preventable Diseases Division (VPD).





5.2 Decentralized/district level leadership and coordination

Within the decentralization process, the local government at district level is responsible for the management of all public services. The coordination of the HIV response at district level is located within the District Health Unit, which is in charge of planning and monitoring all health interventions in the district.

5.3 EDPRS sectors

Implementation: In EDPRS 2 covering the 2013–2018 period, HIV is addressed as a crosscutting issue and priority activities have been identified in all 12 economic sectors. They include not only ministries and public institutions, but also all private and community organizations involved in the same field of activities. HIV and AIDS activities implemented by each sector at the district level are integrated into the five-year District Development Plans (DDP) and district annual work plans.

Coordination: Under the coordination of a lead ministry, each of the 12 EDPRS sectors has a strategic plan, as well as an annual work plan, within which HIV activities are integrated. Each sector has put in place an HIV focal point that has the responsibility to coordinate the implementation of its HIV priority activities at central and decentralized levels. RBC/IHDPC/HIV Division will support each lead ministry to coordinate HIV activities undertaken by the sector at the district level and will ensure that HIV interventions of different sectors are delivered in a coordinated way at the district level.

5.4 Civil society organizations

Implementation: Civil society organizations will be major contributors to the implementation of the NSP. In the field of prevention, many outreach activities for the general population will be implemented by community health workers and/or civil society organizations. Civil society organizations will be important actors for the implementation of new strategies developed in this NSP for delivery of a comprehensive package of preventive interventions for identified key populations and most vulnerable groups (FSW and their clients, MSM, mobile workers, discordant couples, PLHIV for positive prevention, people with disabilities, etc.).



There will be a concerted effort to improve collaboration and coordination mechanisms between civil society organizations and the health services to ensure complementarity and synergy of their interventions.

In the field of care and treatment, 40 percent of healthcare facilities are managed by faithbased organizations and are fully integrated into the healthcare system. Further, there is strong collaboration with MoH and public coordinating bodies to ensure quality of care and respect of national guidelines and standards.

Associations and cooperatives of PLHIV and affected people have been key players in the implementation of activities aimed at mitigating the impact of HIV and AIDS, including income-generating activities. Faith-based organizations are also strongly involved in the provision of psychosocial support to PLHIV and OVC. In all these areas of activities, civil society's role as a major implementer will be enhanced through improved mechanisms of collaboration with public services and through the established national framework for comprehensive packages of services.

Coordination: The different sectors of civil society are coordinated by five umbrella organizations: Rwanda NGO Forum on HIV and AIDS, Faith-Based Organizations Network against AIDS (RCLS), Rwanda network of PLHIV (RRP+), Umbrella of People with Disabilities in the Fight against HIV and AIDS (UPHLS) and ABASIRWA network of journalists (newspapers, radio and TV stations).

Civil society umbrella organizations have various roles in common in relation to coordination: planning, monitoring, documentation and sharing of best practices, capacitybuilding of their members, participation in national decision-making bodies and technical working groups, and advocacy for a better recognition of the role of civil society in the response to HIV.

5.5 Private sector

To coordinate the HIV response in private and para-public sector enterprises, the Rwandan Private Sector Federation has set up an HIV unit. This unit has the mandate to support and



oversee HIV committees established in private enterprises and business development committees at the district level.

5.6 Public sector

Similarly, to coordinate workplace programs in public sector institutions, MIFOTRA has established the Public Sector Umbrella in the Fight against AIDS (USPLS). USPLS mobilizes the public sector to provide a coordinated and effective response to the epidemic. One hundred and thirty public institutions are registered in its database.

5.7 Operationalizing the NSP at implementation level

This NSP document includes a general operational plan that identifies the actors involved, the general timeframe, and the budget estimation for each activity. Based on this general plan, each actor will develop its own work plan taking into account the NSP guidelines, both at central and decentralized levels. Interventions will be categorized according to the setting through which they will be implemented, either at the community or facility/institutional level.

At the national level, each EDPRS sector will develop its annual operational plan, drawing on the NSP to guide the implementation of its HIV priority activities. At the district level, all actors involved in the local HIV response will come together to determine the district annual work plan.

5.8 Partnership for greater harmonization and alignment of donors with NSP priorities

In spite of the progressive decrease in external HIV funding, the successful implementation of the NSP continues to depend to a large extent on the support of Rwanda's development partners. These development partners include official donors, local and international NGOs, civil society, and the private sector.

In line with the Paris Declaration on Aid Effectiveness, the Government of Rwanda recognizes the importance of mutual accountability in its relationships with donors, and





will take steps to strengthen these reciprocal obligations through the use of new and existing systems. During the implementation period of the last NSP (2009–2013) (7), the main external donors contributing to the national HIV response (GF, PEPFAR, and the One UN program) have all aligned their programs to the strategies and priorities set by the NSP. This accomplishment should be continued and strengthened during this new NSP.

5.9 Financial management mechanisms

Rwanda's financial management mechanisms are structured as follows:

- The national procurement system is supervised by Rwanda Public Procurement Authority (RPPA), which is an agency affiliated with the Ministry of Economy and Finances (MINECOFIN). It oversees the implementation of the existing public procurement laws and public procurement policies issued by the Cabinet. The different procuring entities (ministries, public institutions, and decentralized administrative entities) submit their annual procurement plan and monthly procurement reports to RPPA, which provides them with supervision and technical assistance for capacity building and conducts audits regularly.
- The national financial and audit systems are under the authority of MINECOFIN, which supervises and provides technical assistance to the budget entities. Each entity submits its annual budget to MINECOFIN on the basis of its negotiations with donors and requests funds from MINECOFIN after submission of monthly and quarterly financial reports.
- The Office of Auditor General (OAG) reports to the Parliament and conducts audits of all budget agencies and government projects. It verifies if the Government of Rwanda's accounting and financial data are accurate and if the government collects or spends the authorized amounts for purposes envisaged by the Parliament and donors. It also verifies if budget entities have internal control systems to safeguard the reception, custody and adequate use of public goods and if programs were implemented economically and efficiently. Its functions are guided by laws and cabinet decisions establishing the regulations of public financial management.

Other important assurance frameworks are also in place, including the Office of the



Ombudsman to ensure transparency and to deal with corruption and fraud, the Office of the General Prosecutor to monitor implementation of audit findings (OAG reports to the Parliament) and to follow-up on reports of mismanaged funds, and the Parliamentary Public Fund Committee to oversee the implementation of audit recommendations on reported mismanagement.

MoH and the public institutions under its authority (including RBC) follow the general financial management mechanisms described above.

6. ASSESSMENT OF WHAT WE ARE DOING: M&E PLAN ON HIV AND AIDS

The national M&E plan and the need for a strong evidence base for planning and programming remain crucial as the Government of Rwanda continues to implement and scale-up comprehensive HIV prevention and care and support interventions for its population. Based on the work of the previous plan, this M&E plan outlines the strategies that will be implemented from 2013 to 2020 in order to further strengthen a fully functional HIV M&E system that meets the data and information needs of all stakeholders at all levels, while also focusing on key populations.

6.1 Development of the M&E plan

This M&E Plan was developed according to the guiding principles of functional M&E systems generally accepted by the international community and followed a participatory process that engaged all HIV M&E stakeholders at both national and district levels. RBC, in collaboration with partners, organized a workshop in June 2013 to assess the functioning of the national M&E system by using the M&E Systems Strengthening Tool (MESST) and the UNAIDS Monitoring and Evaluation Reference Group's (MERG) approved assessment tool for the 12 components of a functional national HIV M&E system.

The M&E plan was developed to strengthen an overall system which is able to measure to what extent all HIV services are delivered in a high-quality manner, target the appropriate population, and ultimately contribute to the achievement of NSP output-level results in



accordance with the NSP results framework. The system prioritises strategies to promote the use of data for decision making at all levels of the HIV sectors, as is the overall objective of any well-functioning M&E system.

Based on the NSP result framework for each overarching result, indicators were assigned for each result level in the NSP, with the most recent baselines available and target results provided for each indicator. These indicators constitute the list of common national indicators (See matrix of indicators in Annex 1). The matrix of national indicators was developed with the contribution of all main stakeholders and is coherent with key national indicators, namely EDPRS 2 and the Health Sector Strategic Plan (HSSPIII). Additionally, the list refers to the most recent international guidelines (MERG Indicator Registry) and includes a key subset of indicators from SDG, GAM, PEPFAR, and Global Fund, as well as indicators for universal targets.

6.2 National and program-level indicators

National and program-level indicators (community-based and health facility-based) will be monitored regularly (depending on the indicator type) and made operational at the district level (service delivery level) to ensure adequate data collection at all levels. For each national and program-level indicator, an indicator reference sheet describes the definition, the frequency and level of measurement, the entity responsible for data collection, the source of data, and where to find additional pertinent information about the limitations and interpretation of each indicator. Indicator Protocol Reference Sheets for national and program-level indicators for both the community-based and facility-based M&E system are attached in Annex 1. The activities described in the 12 components included in this chapter will ensure that high quality data to report on these national and program-level indicators are collected, managed, quality-assured, analysed, and used, both for reporting purposes and for program improvement and strategic decision making.

6.3 M&E systems in Rwanda

The HIV M&E system is primarily divided between health facility-based and non-facilitybased, or community-based, components of monitoring and evaluating the national HIV



response, and is decentralized from national to district levels. Community-based activities are defined as all non-facility-based activities. The health facility-based components of the M&E framework are led by MoH and RBC at the national level and District Health Officers at the district level. Better M&E planning and coordination have contributed to improve overall system performance at central and decentralized levels.

However, high staff turnover is causing instability of M&E staff, and for community-based M&E systems, support is needed in the dissemination of finalized M&E tools and the continued training of local partners. The frequency and quality of supervisory visits from central to decentralized levels have to be improved, as well as follow-up after supervision visits. Research capacity and data use in the health sector are still insufficient, and the current systems for the dissemination of program data and results from studies and evaluations need to be strengthened.

In order to make sure that all essential components were included in the final M&E plan, it was decided to organize the M&E system around the twelve essential components of a functional M&E system, which outlines a comprehensive framework incorporating all M&E-related tasks.

Component 1: Organizational structures with HIV M&E functions

All organizational structures of the HIV M&E system (health facility and communitybased components, at central and decentralized levels) need to be further strengthened, with more emphasis on the community-based components of the system and at the decentralized level. In general, HIV M&E is integrated and mainstreamed within the existing M&E structures of RBC.

RBC coordinates M&E for health facility and for community-based interventions across EDPRS sectors, including public and private sector institutions and the civil society through umbrella organizations. RBC also coordinates M&E at central level through research, studies, annual reporting, etc.



RBC is also responsible for providing guidance and capacity building to the lower levels. Districts are responsible for coordinating all M&E interventions at the district level. RBC and the districts work in close collaboration with governmental and non-governmental partners to coordinate and implement M&E activities. For example, district health system infrastructure is responsible for the collection and management of facility-level HIV data. Civil society organizations and decentralized umbrella organizations are responsible for data collection and management of community-level HIV data. Central systems at MoH, RBC, and all central-level development partner organizations are responsible for managing decentralized data that is fed up to the central level and sharing this data with RBC and other key stakeholders.

Component 2: Human capacity for HIV M&E

In addition to ensuring that M&E staff are put in place at all levels, the staff also needs training to have the minimum job requirements and satisfactory skill sets to properly perform their required M&E tasks. Capacities of M&E staff will be built for facility-based and community-based HIV M&E staff at central and decentralized levels, including RBC, MoH staff, and EDPRS focal persons at both central and decentralized levels. This capacity-building support will be delivered through public institutions such as the School of Public Health where M&E modules were developed specifically for this purpose in the last M&E plan.

Component 3: Partnerships to plan, coordinate, and manage the HIV M&E system

Activities under this component will include activities to strengthen technical working groups involved in the implementation and management of the HIV M&E system by improving the linkages between the national and decentralized levels for M&E. The Planning, Monitoring and Evaluation (PME) Technical Working Group will continue to provide overall guidance and technical assistance to the implementation of the national M&E system.

The working group is primarily responsible for developing and implementing the integrated HIV M&E annual work plan each year (See Component 5). It meets quarterly



to review progress on implementation of the annual work plan and to perform additional ad-hoc tasks as required.

Component 4: National multi sectorial HIV M&E plan

In line with the results-based planning and management approach adopted for the NSP, planning and M&E activities are interlinked. Current M&E tools will be revised to align to the new NSP strategies and expected results. The NSP and the M&E plan will be jointly reviewed by all stakeholders at midterm to ensure that adequate progress is being made towards the achievements of targets for 2020. At the end of the implementation period, a similar joint commission will evaluate the overall success of the NSP.

Component 5: Annual costed national HIV M&E work plan

In order to ensure the timely implementation of all HIV M&E-related activities necessary for full functionality of the M&E system, it is critical to have a national integrated HIV M&E annual work plan describing all annual activities. For each year of implementation of the M&E Plan 2013–2020, a national integrated HIV M&E annual work plan will be jointly developed by all HIV M&E stakeholders, including activities, implementers, timelines, and activity costs for the successful implementation of all M&E activities in the country.

Component 6: Advocacy, communications and culture for HIV M&E

The HIV sector in Rwanda already has a strong positive culture for M&E, and most stakeholders across the system recognise the importance of data and making evidence-based decisions. To maintain and build on this existing culture, efforts will be made to incorporate sessions and presentations on the importance of M&E into other meetings, workshops, and conferences to further increase awareness.

Component 7: Routine HIV program monitoring

The routine monitoring of facility-based HIV services is already well established through a series of published standard operating procedures guiding the collection and management



of HIV data. However, routine monitoring can be improved to document the quality of service delivery at health facilities. The community-based monitoring system needs to be strengthened, specifically to monitor interventions targeting key populations and vulnerable groups. Health facility information is collected through various registers on a daily basis at the time of service delivery. Each facility reports on monthly aggregate data to be entered into HMIS, which uses the DHIS 2 platform. Further, Electronic Medical Records (EMR) need to be scaled to cover all health facilities across the country and linked together to improve data accuracy.

Component 8: Surveys and surveillance

Several biological and behavioral surveys (DHS, BSS for key populations, Rwanda Aids Indicator, HIV Incidence Survey and Drug resistance monitoring) will be conducted during the implementation of the NSP. Sero-surveillance in a national representative sample of sites will continue for pregnant women to assess the trend of HIV among this group. RBC will ensure that data collection on benchmarks and indicators that are to be reported as part of the national indicators are incorporated into all surveys and surveillance activities. RBC will also ensure that key indicators used to facilitate program evaluation (e.g. questions about program exposure) are included.

Component 9: National and sub-HIV databases

In order to monitor and evaluate HIV interventions, a number of health information systems were established. These systems routinely collect data on different interventions and quality of services to support decision-making. The table below describes the routine HIV data systems currently in place and related details on data area and coverage.

| System Name | Area | Geographic Coverage | Donors /Partner(s) | Brief Description |
|----------------|------------|------------------------|-----------------------|--------------------------------------|
| Electronic | Patient | 322 health | GOR- | Standalone system that captures |
| Medical | monitoring | facilities. | PEPFAR- | individual patient data for clinical |
| | systems | Expansion | | monitoring. Plans are on the way to |





| System Name | Area | Geographic Coverage | Donors /Partner(s) | Brief Description |
|----------------|---------------|------------------------|-----------------------|--------------------------------------|
| Record | | underway to | Global Fund- | implement additional primary |
| /OpenMRS | | all health | MSH-PIH | health care modules in addition to |
| | | facilities | | the deployed HIV/AIDS module. |
| Rwanda | Aggregate M&E | Nationwide | GOR- | Web-based reporting system of |
| Health | Indicator | | PEPFAR- | health-related aggregated data |
| Management | Reporting | | Global Fund | using DHIS-2 platform with |
| Information | | | | geospatial information capacity. It |
| System | | | | is used by all health facilities |
| (RHMIS) | | | | (private and public). |
| Performance- | Aggregate M&E | Nationwide | GOR- | Web-based database that collects |
| based | Indicator | | PEPFAR- | selected number of output |
| financing | Reporting | | Global Fund- | indicators used to track progress |
| (PBF) | | | MSH | and calculate performance based |
| | | | | payments for community health |
| | | | | worker cooperatives, health |
| | | | | centers, and district hospital. The |
| | | | | system also uses data from |
| | | | | quarterly quality evaluations to |
| | | | | ensure that data and service quality |
| | | | | are maintained and to reduce the |
| | | | | performance payment accordingly. |
| TRACnet | | Nationwide | GOR- | Phone and web-based reporting |
| | | | PEPFAR- | system that collects HIV/AIDS, |
| | | | Voxiva Inc. | TB, OI aggregated data. The system |
| | | | | was migrated on the RHMIS in |
| | | | | October 2014. |



| System Name | Area | Geographic Coverage | Donors /Partner(s) | Brief Description |
|----------------|--------------|------------------------|-----------------------|--------------------------------------|
| Electronic | Supply Chain | District | GOR-PEPFAR | An automated pharmaceutic |
| Logistical | Management | pharmacists, | | management system (e-LMIS) wa |
| Management | Information | MPPD | | rolled out in March 2014 |
| Information | System | | | improve quality and timely acce |
| Systems (e- | | | | of data. Captures basic data of |
| LMIS) | | | | ARV and TB commoditi |
| | | | | consumption, stock status, a |
| | | | | information on stock-outs at heal |
| | | | | facilities. |
| LIS | Laboratory | National | GOR-PEPFAR | Stores laboratory data and support |
| | Information | Reference | | laboratory management. T |
| | System | Laboratory | | system will be expanded to |
| | | | | district level laboratories to devel |
| | | | | a national electronic network |
| | | | | laboratories |
| | Blood Bank | 5 regional | | Provides blood bank commoditie |
| BBIS | Information | centres | GOR-PEPFAR | and testing data. |
| | System | centres | | and testing data. |
| | E-Integrated | Nationwide: | | Collects aggregate data of disease |
| e-IDSR | Disease | All health | GOR-PEPFAR | under surveillance outbreak |
| U ID SIK | Surveillance | facilities | | response data. |
| | System | | | |
| Integrated | Human | | | |
| Human | Resources, | | | HRIS collects and aggregates dat |
| Resource | Training | Central | GOR-PEPFAR | on health workforce and links to |
| Information | Information | database | | MOH principal personnel office. |
| Systems | Systems | | | |
| (iHRIS) | 2 | | | |



| System Name | Area | Geographic Coverage | Donors /Partner(s) | Brief Description |
|----------------|---|--|---|--|
| Rwanda HIE | Health Information Exchange Project | Operational in One (1) District (Rwamagana) | GOR- PEPFAR- Jembi Health system | Ensures exchange of patient health records across health facilities. |

Key planned innovations to the National HIV Database include:

- Interoperability of systems and implementation of Unique Patient Identifier (UPID) to promote shared medical records.
- Building of case-based surveillance (CBS) system for: (1) active case findings, (2) monitoring status of individual patients and population level HIV treatment, and (3) adverse events within their treatment regimens.
- Continued implementation of laboratory information system and linkage to EMR and implement linkage to routine data reporting systems.
- Adaption of EMR to support the "Treat All" strategy.

Component 10: Supportive supervision and data auditing

In the newly established integrated supervision system, all health services are assessed in a common supervision visit. The weaknesses identified during these visits are then addressed through targeted mentoring conducted by specialized mentors for capacity building. There are two principle levels of supervision in the facility-based system: (1) RBC conducting integrated supervision visits, employing both qualitative and quantitative data collection activities at the district level and (2) DHs conducting supervision visits to district-level HIV implementers. Other supervisory visits include visits to communitybased activities. These supervisory visits are jointly conducted on a quarterly basis by RBC central level staff and district staff in charge of health monitoring. Therefore, the findings are shared for further improvement of HIV data quality reported at community level. Thus, the district is responsible for assuring data quality of district-level HIV implementers who



directly report to them. Equally, the EDPRS sector district representatives and the civil society umbrella organization district representatives are responsible for assuring the quality of data reported to them by their respective constituencies, which they subsequently report to district.

At the national level, a bi-annual data audit is conducted by RBC to assess the completeness and accuracy of district-level reporting and the degree to which national-level tools and formats are being respected both by district-level HIV implementers and districts.

Bi-annual data quality audits ensure the soundness of data that is being reported from both the service delivery level to the district level and from the district level to the national level via HMIS. Improving the quality of collected data is essential to ensure that evidence-based decision making is informed by the most accurate information.

Component 11: HIV evaluation and research

The Research Committee on HIV and AIDS will develop a better coordination mechanism of HIV clinical research in the country to assure one national research agenda is adopted by all partners conducting research in the country and that it is linked to an overall evaluation agenda. A formal mechanism will be developed to collect and disseminate the results of research projects that have been approved by the committee.

The research agenda, defining key priority areas for research and evaluation in the country, will be based on information gaps identified in the new NSP and additional identified country information needs, including HIV risk among key populations and other vulnerable populations and information on the effectiveness of different HIV interventions, including ART adherence and resistance studies and evaluations of the effectiveness of EMTCT services. The program impact evaluations will be an important component of this research agenda.

Component 12: Data dissemination and use

The M&E system needs to develop data dissemination mechanisms at all levels to ensure that all relevant stakeholders have access to the most up-to-date information available that



can inform their program decisions. Information products include the following: HIV and AIDS Annual Report, HIV at a glance, dashboards, and a NSP indicator snapshot.

Focus will be put on district-level data dissemination to ensure that district-specific data is not only reported to the national level, but that it is disseminated locally to HIV stakeholders and used in decision making.

In addition, the international HIV research conference is organized every two years to foster the exchange of information and experiences between all HIV stakeholders.

The three main strategies that will be implemented to strengthen data use are described below:

- Review of national and program-level indicators and standardization of data collection tools so that data collected will be useful in informing the decisionmaking process.
- Institutionalization of feedback mechanisms at all levels of reporting to address data quality issues and to improve quality of care.
- 3) Building the capacity of decentralized entities in analyzing and using data.

7. FINANCIAL RESOURCES: COSTING AND PRIORITIZATION OF THE NSP

7.1 **Objective and process**

The NSP 2013-2018 and the NSP 2018-2020 extension are both driven by the overarching principle of delivering "ambitious but realistic" plans by prioritizing the most cost-effective interventions. The key objective was to find a way to achieve the best outcomes through a more focused approach.

In order to achieve this in both exercises the following iterative planning process was undertaken:



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- Development of bottom-up strategies, activities and related epidemiological impacts, carried out by programmatic working groups (Care and Treatment, Impact Mitigation, Prevention, Strategic Information, and Health Systems) that included members from the MoH, RBC, developing partners, civil society organizations, and the private sector.
- 2. Estimation of costing information and related cost effectiveness carried out by the planning team.
- 3. Forecast of funds that can be available and development of scenarios aligned with the levels of funding expected and the targeted epidemiological impact.

The section provides a summary of the common methodology for costing and impact and cost effectiveness for both the NSP 2013-2018 and the NSP 2018-2020 extension. The section will then summarize and compare the results of the costing and funding gap for the original NSP and its extension.

7.2 Costing Methodology

The NSP costing was initially carried out to help understand the amount of financing required for the 5 years NSP 2013–2018. At the beginning of 2017 a second process was undertaken to develop an extension of the NSP from July 2018 to June 2020. In order to assure alignment with the grant request for key source of funding, the costing of the NSP extension is covering the period of 3 years starting on January 2018 and ending on December 2020. The methodology of both exercises considers the costs of activities in addressing HIV at all levels of the health system and excludes any financial implication for the patients and their careers or the society as a whole.

The methodology used in both exercises was based on the strategic framework of the World Health Organization (WHO) that considers an integrated health sector approach assuming two different types of costs:

• Health System costs, including human resources, infrastructure, logistics, health financing, leadership and governance, and integrated service delivery, have been estimated using a different methodology than used in the original NSP. In the



original NSP the Health System costs were allocated to the HIV program using the costing of the HSSP 2012–2018. For the extension period 2018-2020, in absence of a new Health Sector Strategic Plan, the allocation of health system costs to HIV is based on the historical contribution of developing partners. The GoR contribution for health systems contributing to HIV has been estimated by projecting the actual Health Systems cost recorded for fiscal year 2015-2016 and applying the ratio of HIV equivalent outpatient visits out of the total health sector visits.

• HIV program specific costs for each programmatic intervention that are related to the cost of drugs and consumables, living support for beneficiaries, training and workshops, HIV management and M&E, outreach costs, and IEC material.

7.2.1 Funding estimation methodology

Four funding sources were considered in the forecast calculations: Government of Rwanda, Global Fund, PEPFAR, One UN and other sources represented by private foundations and World Bank. The methodology of estimation for the NSP extension was based on the most updated information about the target envelope for the Global Fund's funding for the period from January 2018 to December 2020 (3 years) and the target envelope communicated by PEPFAR to the senior MoH management team. It should be noted that the funds expected were also discounted by the percentage of overheads not directly reaching the HIV program. Regarding the One UN, the funding has been prudentially considered constant in line with the historical trend.

7.2.2 Impact methodology and cost effectiveness

As mentioned above, the programmatic teams defined the key strategic interventions based on estimates of epidemiological impact. The impact computations have been developed using the most up-to-date epidemiological statistical software package, EPP/Spectrum 2017, leveraging both the AIDS impact module (AIM) (22) and the combined GOAL prevention module.

Aligned with the NSP goals, two impact indicators were selected: infections averted and deaths averted.



The methodology used to estimate the epidemiological impact for the NSP was based on a mathematical model using several sources of data, including demographic data, program statistics, epidemic patterns, surveillance, and survey data. The calculation took into consideration different possible type of sexual transmission by population groups, determinants of risk of infection, interventions that affect the impact of HIV transmission, new infections, and treatment. The major impacts estimated were infections averted, deaths averted, and life years gained due to ARV and PMTCT.

Infections averted were estimated using the reduced HIV risk attributable to consistent and correct condom use and to adherence to ARV treatment as prevention strategies. For deaths averted, the impact was estimated based on reduction of deaths attributable to ARVs.

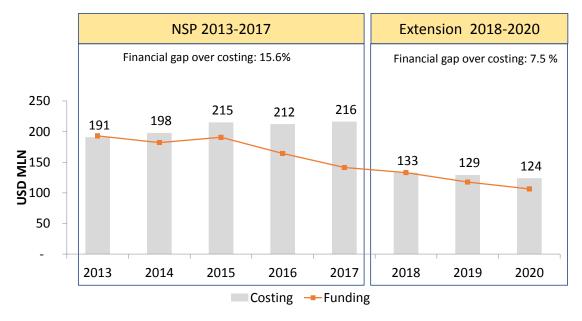
The epidemiological impact was then adjusted to consider the impact of different size estimates of the health systems (human resources, infrastructure and integrated and supportive supervision). It has been assumed that a reduction in overall health system capacity might lead to a linear decrease in the epidemiological impact.

7.3 Costing and financial gap results

The figure below shows the trend of costing and funding of the original HIV NSP 2013-2018 and the HIV NSP Extension. The 5 years NSP costing 2013-2018 costed **US\$1,032 billion** with a projected financial gap of **US\$ 161.4** million (15.6 percent of the total cost). For the NSP extension the costing of the 3 years NSP extension has been assessed in **US\$386.0** million with a financial gap of **US\$29.1** million (7.5 percent of the total).







An initial level of analysis is connected with the trend of costing and the gap analysis. As outlined in the figure above, both the trends of costing and funding are expected to decrease between 2018-2020. The development of the NSP 2018-2020 extension required an intense process of prioritization that considered the available level of funding as reference point. The process resulted in very minimal percent of unfunded plan out of the total costing (7.5 percent). Regarding year by year analysis, the first year of the NSP 2018-2020 extension is fully prioritized, while the second and third years present an increasing gap that might require additional efficiencies.

A second level of analysis is relative to the comparison of the original NSP 2013-2018 and the NSP 2018-2020 extension. The figure below shows that Care and Treatment has increased from 24 percent to 44 percent of the NSP 2018-2020 extension. This increase is primarily due to the fact that the NSP extension considers a full roll-out of the "Treat All" strategy for each of the three years costed, while the NSP 2013-2018 considered the strategy only in the final years of the plan. Simultaneously, the total cost attributed to Prevention activities decreased between the NSP 2013-2018 and the NSP 2018-2020 extension, with the strategies in the NSP 2018-2020 extension focused on reinforcing components of clinical prevention and blood transfusion and on establishing a more



efficient and targeted approach for reaching key populations. Further, the increase in Care & Treatment can be also explained by the sharp decline of the costing of the Impact Mitigation costing, which shifted from 9 percent to 3 percent of the total costing.

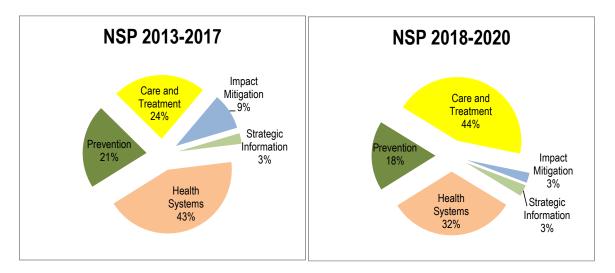


Figure 9: Comparison NSP 2013-2017 with NSP Extension breakdown by program

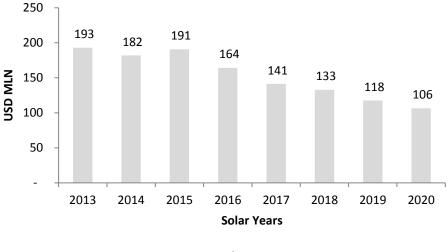
Health Systems was the predominant area of costs in the NSP 2013-2018, while the level of its costing decreased from 43 percent to 32 percent in the NSP 2018-2020 extension. This reduction in Health Systems costs can be attributed to the prioritization process conducted in response to the decreasing trend in external HIV funding. In line with the methodology defined in the NSP 2013-2018, it is reasonable to state that the expected reduction of Health Systems costs that contribute to HIV may have a negative effect on the epidemiological impact estimated through the EPP/Spectrum modeling. The quantification of this impact may be completed once the Health Sector Strategic Plan is extended beyond 2018, whereby the costing and gap analysis of the entire health sector will be completed.

7.3.1 Funding estimates and gap analysis

The figure below reports the value of domestic and external funding for the past 5 years and the expected value for the period 2018-2020.









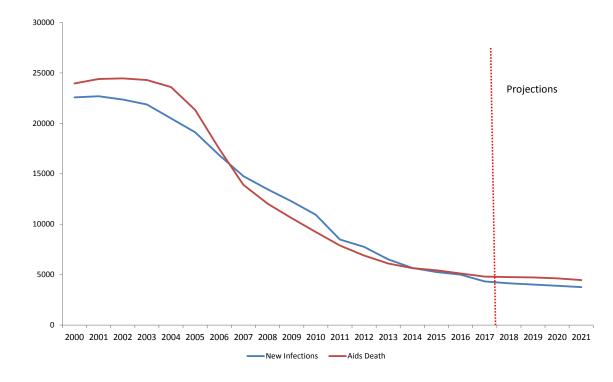
As shown, funding for HIV in Rwanda decreased sharply between 2015 and 2017, on average by approximately 13.9 percent per year. For the next three years (2018-2020), the HIV program expects to receive a total of **US\$ 356.9 million**, and expects to see a decrease in funds of approximately 9.0 percent per year.

For the NSP 2018-2020 extension, a resulting funding gap of **US\$29.1 million** is expected for the three-year period, based on the difference between the costing estimate of US\$386.0 million and the funding estimate of US\$356.9 million, representing 7.5 percent of the total costing.

7.4 Impact estimation

The graph below reports the epidemiological results based on 2 combined modules of Spectrum (AIM and GOAL) used to estimate number of AIDS deaths and new infections.







The graph shows a similar declining trend for both AIDS deaths and new infections. Since the scale up of the HIV program in Rwanda in 2004, deaths and HIV infections have decreased sharply from more than 20,000 infections and deaths per year to approximately 7,000 infections and deaths per year in 2014. However, the progress toward zero deaths and zero new infections has slowed with a less marked decrease of both infections and AIDS deaths. The goals for 2020 estimated through the model are to continue reduce AIDS related deaths and HIV new infections.

As previously described above, the effect of the reduction in Health Systems costs on the epidemiological impact should be carefully monitored during the implementation of the NSP 2018-2020 extension. Further, this effect should be estimated once the 2018-2023 Health Sector Strategic Plan is completed, taking into account the impact, costing, and funding gap analysis.

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7.5 Challenges and limitations

The estimation of the cost and the impact of the NSP was an important learning experience for all stakeholders involved in the HIV response.

First, the impact computations were based both on the final version of AIM- Spectrum 2017 and on the combined activation of a new pilot module, GOAL, which is used to estimate the impact of infections averted according to programmatic objectives. This pilot module required the review of a number of assumptions used and the definition of baseline coverage and targets that are not always in line with the existing performance framework.

Second, the Impact Mitigation program team had no quantitative data to estimate the impact of interventions on stigma, discrimination, and OVC support. The expert team based their considerations on qualitative assumptions, with input from all stakeholders. The result of this process is an Impact Mitigation strategy that fits within the overall HIV strategy.

Finally, the biggest challenge within the costing analysis was the need to determine the Health Systems contribution to HIV in absence of an updated Health Sector Strategic Plan. An intensive consultative process has been conducted across all levels, but it was not possible to compare the estimates found through this process with a holistic costing and funding gap analysis.

7.5.1 Role of government and sustainable HIV financing

The Government of Rwanda has prioritized access to health care for all to save lives of Rwandans. Tremendous investment has been made in strengthening the health system, including developing a health insurance scheme, investing in human resources, and investing in infrastructure as a strong foundation for all health programs.

Rwanda endorsed the resolutions of an international conference on health financing that was held in Rwanda in 2016 (WHO, 2016). The main strategy adopted from this conference was to mobilize domestic resources through innovative health financing strategies. Rwanda has instigated different community health interventions and prioritized an integrated health



services provision as one of the strategies to ensure sustainability of health system. The Government of Rwanda has steadily increased domestic investment in the health sector to ensure accessibility of health services for all and to remove barriers preventing people from accessing care.

Donor funding has been critical in supporting the Government of Rwanda to scale-up its HIV response, and it will continue to be needed. Historically, financing for HIV from the Government of Rwanda and funding from donors have been complementary – donors, in particular, have had an important role in funding Care & Treatment programs, including costs for ARVs and other medicines. In recent years, MoH has allocated domestic resources to key interventions aimed at strengthening the health system (for example, infrastructure, human resources, recurrent facility costs) and at building a strong, decentralized system, which has been critical in mobilizing communities to raise awareness of HIV.

The need to decrease the dependency on external funds is critical and extends beyond the HIV response. Innovative financing mechanisms and additional sources of domestic funding have been defined for the entire health system within a national health financing strategy, and HIV financing aligns to the national strategy and priorities. Equity and access to treatment for all plays an important role in defining the allocative policy of MoH. In the short and medium term, although decreasing, external funding will continue to play a significant role in supporting the country's response to HIV and other diseases.

In order for MoH to continue becoming more financially sustainable and independent, it must work to improve alignment of national priorities of all funds, domestic and external, reduce waste and inefficiencies at both the strategic and implementation levels, and improve sector-wide and unified mechanisms to monitor and evaluate fund allocation and use.

The commitment to a sustainable HIV response is a priority for Rwanda. The Government of Rwanda has committed to continually increasing the health sector budget to ensure better lives for Rwandans.



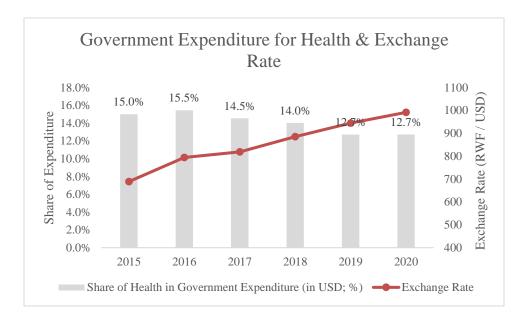


Figure 12: Percentage of Government of Rwanda budget allocated to health²

Due to the increasing exchange rate, shown in the figure above, the amount the Government is contributing appears to be decreasing over time. However, the Government has actually increased its expenditure (in RWF) within the health sector over time to ensure Rwanda continues to meet and exceed its health targets.

²Source of data: HSSP III 2012–2018

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8. CONCLUSION

The development of the NSP 2018-2020 extension was based on the recommendation of the Medium-Term review of the existing NSP that ends in 2018. The targets set for this planning period are in continuity with progress made in recent years in addressing HIV and AIDS: continue the reduction in new HIV infections and HIV-related deaths.

While working to achieve these targets through implementation of designated HIV interventions, there will also be a reduction in the Health Systems' budget that will require an increased level of integration and efficiencies with other programs within the health sector and with other socio-economic development sectors. The successful achievement of these targets will also depend on the level of funding that will be allocated to the HIV response. Rwanda has already experienced a slowing rate in the reduction of new infections and HIV-related deaths, and progress could slow even further if funding continues decreasing at the same rate as in the past or goes below current projections.

Through the implementation of innovative strategies, the NSP 2018-2020 extension aims to expand prevention, coverage, and treatment for HIV/AIDS and mitigate the impact of HIV across the population in a sustainable manner. Through collaboration across the different stakeholders, both within the health sector and across external sectors, Rwanda has the opportunity to improve the lives of those living with and affected by HIV and reduce new infections over the next three years.



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ANNEXES

Annex 1: NSP PERFORMANCE FRAMEWORK

| Indicator | Indicator | Baseline Value | Baseline Year | Target (2020) |
|-----------|---|----------------|---------------|----------------------|
| category | Indicator | Dasenne value | Dasenne Tear | 1 alget (2020) |
| Impact | Percentage of men who have sex with men with active syphilis | 8.1% | 2015 | 6% |
| Impact | Percentage of sex workers with active syphilis | 52.3% | 2015 | 50% |
| Impact | Percentage of exposed infants who are HIV-free by 24 months | 98.2% | 2016 | >95% |
| Impact | Percentage of men who have sex with men who are living with HIV | 4% | 2015 | 4% |
| Impact | HIV Prevalence among adult 15-49 | 3% | 2015 | 3% |
| Impact | Percentage of sex workers who are living with HIV | 45.8% | 2015 | 43% |
| Impact | Number of AIDS-related deaths per year | 3,229 | 2017 | 2,906 |
| Impact | Under 5 mortality rate per 1000 live births | 50 | 2015 | 42 |
| Impact | Neonatal mortality rate, per 100,000 population | 20 | 2015 | 10 |
| Impact | Maternal mortality rate, per 100,000 population | 210 | 2015 | 200 |
| Impact | Number of new HIV infections per year | 11,400 | 2017 | 10,000 |

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| Indicator category | Indicator | Baseline Value | Baseline Year | Target (2020) |
|-----------------------|---|----------------|---------------|---------------|
| Impact | Prevalence of Syphilis | 0.9% | 2013 | 0.7% |
| Outcome | Percentage of adults and children with HIV known to be on treatment 12 months after initiation of antiretroviral therapy | 92.6% | 2016 | 94% |
| Outcome | Percentage of men reporting the use of a condom the last time they had anal sex with a male partner | 71.4% | 2015 | 75% |
| Outcome | Percentage of sex workers reporting the use of a condom with their most recent client | 84.3% | 2015 | 85% |
| Outcome | Percentage of women attending at least one antenatal care | 99% | 2015 | 99% |
| Outcome | Percentage of births attended by skilled health professional | 90.7% | 2015 | >90% |
| Outcome | Percentage of women and men with non-regular partner in the past 12 months who report the use of a condom during their last intercourse | 50.8% | 2013 | 55% |
| Outcome | Percentage of people living with HIV and on ART who are virologically suppressed (among all those currently | 86.4% | 2014 | 90% |





| Indicator category | Indicator | Baseline Value | Baseline Year | Target (2020) |
|-----------------------|---|----------------|---------------|---------------|
| | on treatment who received a VL measurement regardless of when they started ART) | | | |
| Outcome | Proportion of ever-married or partnered women aged 15- 49 who experienced physical or sexual violence from a by any husband/partner in the past 12 months | 20.7% | 2015 | 18% |
| Outcome | Percentage of women and men aged 15-49 who report positive attitudes towards people living with HIV | 54.1% | 2015 | 56% |
| Outcome | Percent of eligible adults and children currently receiving antiretroviral therapy | 78% | 2016 | 85% |
| Outcome | Percent of HIV/TB coinfected patients receiving both HIV and TB treatment | 93.9% | 2016 | >90% |





Annex 2: Costing tables – Outcome-Output- Strategies

| Row Labels | 2018 | 2019 | 2020 | Grand Total \$ |
|---|------------|------------|------------|----------------|
| 1. Prevention | 23,139,185 | 22,657,499 | 22,393,699 | 68,190,383 |
| 1. Reduced HIV Incidence | 23,139,185 | 22,657,499 | 22,393,699 | 68,190,383 |
| 1.1 Reduction of new HIV infections from mother to child | 7,206,951 | 6,481,326 | 6,401,125 | 20,089,402 |
| EMTCT target populations receive complete package of EMTCT services | 7,206,951 | 6,481,326 | 6,401,125 | 20,089,402 |
| ART prophylaxis for HIV positive pregnant women | 3,697,168 | 3,510,442 | 3,439,981 | 10,647,592 |
| Couple testing and SDC follow-up | 719,139 | 712,541 | 723,097 | 2,154,777 |
| Exposed infants follow-up | 1,311,055 | 1,029,328 | 1,039,884 | 3,380,268 |
| Maternal and Child Health | 1,086,816 | 839,541 | 825,586 | 2,751,943 |
| Sensitization of young girls and boys | 44,351 | 44,351 | 22,175 | 110,877 |
| Family Planning | 348,422 | 345,123 | 350,401 | 1,043,945 |
| 1.2 Reduction of new HIV infections by sexual contact | 12,994,997 | 13,474,233 | 13,329,648 | 39,798,877 |
| Clinical service for prevention of HIV and other blood borne infections | 11,405,705 | 11,938,813 | 12,174,003 | 35,518,521 |
| Counseling and Testing | 6,412,754 | 6,829,611 | 6,839,841 | 20,082,205 |
| Male Circumcision | 4,787,541 | 4,792,397 | 4,797,675 | 14,377,614 |
| Prevention for Key population | 205,410 | 316,805 | 536,487 | 1,058,701 |
| General and key populations have access to condoms | 613,924 | 704,771 | 635,489 | 1,954,184 |
| Condom and lubricant availability | 533,414 | 533,414 | 533,414 | 1,600,243 |
| Condom supply chain | 47,963 | 138,810 | 89,056 | 275,828 |
| Condom utilization | 32,547 | 32,547 | 13,019 | 78,113 |
| General population and key populations are reached by comprehensive HIV prevention programs | 975,368 | 830,648 | 520,156 | 2,326,172 |
| Campaign, Mass media, IEC | 211,977 | 211,977 | 161,066 | 585,020 |
| Out reach People with disabilities | 100,370 | 53,576 | 26,788 | 180,734 |
| Outreach FSW, MSM and other key populations | 327,571 | 231,340 | 199,857 | 758,769 |





| Outreach Media | 4,723 | 4,723 | 4,723 | 14,170 |
|---|------------|------------|------------|-------------|
| Outreach People in Uniform | 107,063 | 107,063 | 107,063 | 321,189 |
| Outreach Workplace | 31,566 | 29,872 | 20,658 | 82,095 |
| Outreach Youth | 192,097 | 192,097 | - | 384,195 |
| 1.3 Reduction of new blood borne HIV infections | 2,937,238 | 2,701,940 | 2,662,926 | 8,302,104 |
| People in need of blood transfusion have access to safe blood | 2,937,238 | 2,701,940 | 2,662,926 | 8,302,104 |
| Blood transfusion | 2,937,238 | 2,701,940 | 2,662,926 | 8,302,104 |
| 2. Care and Treatment | 56,908,304 | 57,276,311 | 57,396,475 | 171,581,090 |
| HIV related deaths and comorbidities are reduced | 56,908,304 | 57,276,311 | 57,396,475 | 171,581,090 |
| People living with HIV receive standardized, adequate care and support | 8,482,259 | 7,775,580 | 7,860,075 | 24,117,914 |
| People living with HIV receive nutritional Assessment, Counselling and support (NACS) | 7,109,696 | 6,908,554 | 6,868,245 | 20,886,495 |
| Nutrition for eligible PLHIV | 7,091,981 | 6,908,554 | 6,832,815 | 20,833,350 |
| Nutritional tools | 17,715 | - | 35,430 | 53,145 |
| PLHIV receive community based peer support services | 1,372,563 | 867,026 | 991,830 | 3,231,419 |
| DSDM | 1,372,563 | 867,026 | 991,830 | 3,231,419 |
| PLHIV have reduced morbidity related to STI, OI and other co-morbidities | 2,843,774 | 3,048,101 | 2,880,109 | 8,771,984 |
| Strengthen OI prevention, diagnosis, and management with special focus on TB | 2,843,774 | 3,048,101 | 2,880,109 | 8,771,984 |
| OI prophylaxis | 240,383 | 197,760 | 195,555 | 633,697 |
| OI treatment | 1,554,656 | 1,279,372 | 1,074,987 | 3,909,015 |
| TB/HIV interventions | 1,048,735 | 1,570,970 | 1,609,567 | 4,229,272 |
| The coverage of ART and the VL suppression among PLHIV on treatment are increased | 45,582,272 | 46,452,630 | 46,656,291 | 138,691,192 |
| All identified HIV positive are timely enrolled and initiated on ART | 44,667,258 | 45,109,782 | 45,424,732 | 135,201,771 |
| Biochemical follow up | 10,220,470 | 11,131,519 | 11,132,342 | 32,484,331 |
| Linkage between HIV testing and care and treatment | 34,446,788 | 33,978,263 | 34,292,390 | 102,717,441 |
| Retention and adherence on ART are increased | 915,014 | 1,342,848 | 1,231,559 | 3,489,421 |
| Adherence follow up | 750,276 | 1,206,279 | 1,199,116 | 3,155,672 |
| | | | | |

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| Adolescent ART | 81,105 | 64,884 | 32,442 | 178,432 |
|---|-----------|-----------|-----------|-----------|
| Pediatric ART | 83,632 | 71,685 | - | 155,317 |
| 3. Impact Mitigation | 3,290,724 | 3,582,215 | 2,985,734 | 9,858,674 |
| 3. People infected and affected by HIV have the same opportunities as the general population | 3,290,724 | 3,582,215 | 2,985,734 | 9,858,674 |
| People infected and affected by HIV have improved socio-economic status | 3,248,338 | 3,502,619 | 2,976,021 | 9,726,979 |
| Cooperatives are operational and their capacities are strengthened towards sustainabilit | 141,173 | 618,517 | 39,686 | 799,376 |
| Start-up capital | - | 508,245 | - | 508,245 |
| Supervision | 58,907 | 58,907 | 29,453 | 147,267 |
| Training cooperatives | 61,801 | 30,900 | - | 92,701 |
| Workshops and meetings | 20,465 | 20,465 | 10,233 | 51,163 |
| Minimum package of services for MVC is provided and well-coordinated. | 3,107,165 | 2,884,102 | 2,936,335 | 8,927,60 |
| MVC minimum package of services | 3,087,467 | 2,864,404 | 2,921,504 | 8,873,37 |
| Supervision | 11,740 | 11,740 | 6,874 | 30,355 |
| Workshops and meetings | 7,957 | 7,957 | 7,957 | 23,872 |
| SGBV and HIV related Stigma and discrimination is reduced | 42,386 | 79,596 | 9,713 | 131,695 |
| Gender inequalities (sexual, GBV and poor knowledge of women on their rights) are addressed | 15,360 | 44,788 | 9,713 | 69,861 |
| Awareness | - | 29,427 | - | 29,427 |
| Legal service | 15,360 | 15,360 | 9,713 | 40,434 |
| General population is aware of PLHIV rights and these rights are protected | | 21,295 | - | 21,295 |
| Awareness on rights and responsibility | - | 21,295 | - | 21,295 |
| People living with HIV are aware of their rights and able to claim them | 27,026 | 13,513 | - | 40,539 |
| Awareness on rights and responsibility | 27,026 | 13,513 | - | 40,539 |
| . Strategic information | 3,781,389 | 5,193,814 | 2,261,947 | 11,237,1 |
| Reduced HIV incidence, Reduced HIV-related mortality and morbidity and People infected and affected by HIV have the same pportunities as the general population | 3,781,389 | 5,193,814 | 2,261,947 | 11,237,1 |
| Monitoring & Evaluation system is well functionning | 3,781,389 | 5,193,814 | 2,261,947 | 11,237,1 |
| Data dissemination and use | 145,652 | 285,012 | 145,652 | 576,316 |

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| Research | 145,652 | 285,012 | 145,652 | 576,316 |
|--|------------|------------|------------|-------------|
| National and sub-HIV databases | 778,503 | 372,119 | 216,683 | 1,367,305 |
| eLMIS | 167,475 | 69,630 | 69,630 | 306,734 |
| EMR | 323,920 | 224,652 | 80,511 | 629,083 |
| LIS | 287,107 | 77,837 | 66,543 | 431,487 |
| National multisectorial HIV M&E plan | 14,609 | 14,609 | 7,304 | 36,521 |
| Supervision of youth center | 14,609 | 14,609 | 7,304 | 36,521 |
| Routine HIV program monitoring | 1,753,121 | 1,673,271 | 1,623,538 | 5,049,930 |
| Data analisis | - | 11,864 | - | 11,864 |
| Data management | 1,661,718 | 1,570,005 | 1,532,135 | 4,763,858 |
| RBF data collection | 75,196 | 75,196 | 75,196 | 225,587 |
| Training data managers | 16,207 | 16,207 | 16,207 | 48,621 |
| Supportive supervision and data auditing | 86,710 | 74,810 | 70,622 | 232,143 |
| From central level to districts | 55,610 | 55,610 | 51,422 | 162,642 |
| From districts to health centers / community | 19,200 | 19,200 | 19,200 | 57,601 |
| From health centers to community | 11,900 | - | - | 11,900 |
| Surveys and surveillance | 1,002,794 | 2,773,993 | 198,148 | 3,974,935 |
| Surveys and surveillance | 1,002,794 | 2,773,993 | 198,148 | 3,974,935 |
| . Health systems | 45,831,519 | 40,484,093 | 38,819,503 | 125,135,115 |
| Reduced HIV incidence, Reduced HIV-related mortality and morbidity and People infected and affected by HIV have the same oportunities as the general population | 45,831,519 | 40,484,093 | 38,819,503 | 125,135,115 |
| Health Systems are strengthened | 45,831,519 | 40,484,093 | 38,819,503 | 125,135,115 |
| Health Financing | 6,216,264 | 6,149,999 | 6,308,705 | 18,674,968 |
| Insurance | 4,693,304 | 4,608,895 | 4,725,961 | 14,028,161 |
| PBF | 708,308 | 708,308 | 708,308 | 2,124,924 |
| Service subsidization | 814,652 | 832,796 | 874,436 | 2,521,883 |
| Human Resources | 18,388,038 | 15,386,648 | 13,727,810 | 47,502,496 |

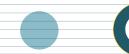
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| HRH program | 6,383,887 | 3,242,089 | 2,078,200 | 11,704,176 |
|---|------------|------------|------------|------------|
| Salaries CSOs | 870,335 | 870,335 | 870,335 | 2,611,006 |
| Salaries Health Facilities | 740,978 | 700,082 | 683,195 | 2,124,254 |
| Salaries MoH and RBC | 9,845,668 | 10,057,170 | 9,591,578 | 29,494,417 |
| Salaries Other Ministries | 547,170 | 516,971 | 504,501 | 1,568,643 |
| Infrastructure and Equipment | 11,382,831 | 10,939,994 | 11,155,188 | 33,478,013 |
| Capacity building | 27,450 | 27,450 | 27,450 | 82,350 |
| Equipment | - | - | - | - |
| Maintenance | 1,738,206 | 1,738,206 | 1,704,129 | 5,180,542 |
| Running costs DHs & HCs | 6,510,519 | 6,306,368 | 6,725,054 | 19,541,941 |
| Upgrade infrastructure | 3,106,655 | 2,867,970 | 2,698,555 | 8,673,179 |
| Integrated Service Delivery and Quality Improvement | 1,755,674 | 1,254,238 | 857,281 | 3,867,193 |
| Blood transfusion | 80,860 | 57,967 | 30,383 | 169,210 |
| Community Health | 268,331 | 487 | 487 | 269,304 |
| Epidemic Surveillance and Response | 136,815 | 133,542 | 64,183 | 334,540 |
| Laboratory | 1,269,668 | 1,062,242 | 762,228 | 3,094,138 |
| Leadership and Governance | 1,406,431 | 1,279,481 | 1,224,723 | 3,910,635 |
| Planning and Monitoring | 492,159 | 377,895 | 334,445 | 1,204,498 |
| Running costs CSOs | 237,252 | 237,252 | 237,252 | 711,755 |
| Running costs MoH | 111,477 | 111,477 | 111,477 | 334,430 |
| Running costs Other Ministries | 103,159 | 103,159 | 103,159 | 309,477 |
| Running costs RBC | 428,641 | 415,954 | 404,647 | 1,249,242 |
| Running costs RH | 33,744 | 33,744 | 33,744 | 101,233 |
| Supply Chain | 6,682,281 | 5,473,733 | 5,545,797 | 17,701,810 |
| Logistics | 6,578,861 | 5,370,313 | 5,442,377 | 17,391,551 |
| Planning and Quality control | 103,420 | 103,420 | 103,420 | 310,260 |

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| Row Labels 🔹 | 2018 | 2019 | 2020 | Grand Total \$ |
|--|-------------|-------------|-------------|----------------|
| 🗏 1. Prevention | 23,139,185 | 22,657,499 | 22,393,699 | 68,190,383 |
| I. Reduced HIV Incidence | 23,139,185 | 22,657,499 | 22,393,699 | 68,190,383 |
| I.1 Reduction of new HIV infections from mother to child | 7,206,951 | 6,481,326 | 6,401,125 | 20,089,402 |
| I.2 Reduction of new HIV infections by sexual contact | 12,994,997 | 13,474,233 | 13,329,648 | 39,798,877 |
| I.3 Reduction of new blood borne HIV infections | 2,937,238 | 2,701,940 | 2,662,926 | 8,302,104 |
| E 2. Care and Treatment | 56,908,304 | 57,276,311 | 57,396,475 | 171,581,090 |
| HIV related deaths and comorbidities are reduced | 56,908,304 | 57,276,311 | 57,396,475 | 171,581,090 |
| People living with HIV receive standardized, adequate care and support | 8,482,259 | 7,775,580 | 7,860,075 | 24,117,914 |
| PLHIV have reduced morbidity related to STI, OI and other co-morbidities | 2,843,774 | 3,048,101 | 2,880,109 | 8,771,984 |
| The coverage of ART and the VL suppression among PLHIV on treatment are increased | 45,582,272 | 46,452,630 | 46,656,291 | 138,691,192 |
| Impact Mitigation | 3,290,724 | 3,582,215 | 2,985,734 | 9,858,674 |
| 3. People infected and affected by HIV have the same opportunities as the general popula | 3,290,724 | 3,582,215 | 2,985,734 | 9,858,674 |
| People infected and affected by HIV have improved socio-economic status | 3,248,338 | 3,502,619 | 2,976,021 | 9,726,979 |
| SGBV and HIV related Stigma and discrimination is reduced | 42,386 | 79,596 | 9,713 | 131,695 |
| 4. Strategic information | 3,781,389 | 5,193,814 | 2,261,947 | 11,237,149 |
| Reduced HIV incidence, Reduced HIV-related mortality and morbidity and People infecte | 3,781,389 | 5,193,814 | 2,261,947 | 11,237,149 |
| Monitoring & Evaluation system is well functionning | 3,781,389 | 5,193,814 | 2,261,947 | 11,237,149 |
| 5. Health systems | 45,831,519 | 40,484,093 | 38,819,503 | 125,135,115 |
| Reduced HIV incidence, Reduced HIV-related mortality and morbidity and People infecte | 45,831,519 | 40,484,093 | 38,819,503 | 125,135,115 |
| Health Systems are strengthened | 45,831,519 | 40,484,093 | 38,819,503 | 125,135,115 |
| Health Financing | 6,216,264 | 6,149,999 | 6,308,705 | 18,674,968 |
| Human Resources | 18,388,038 | 15,386,648 | 13,727,810 | 47,502,496 |
| Infrastructure and Equipment | 11,382,831 | 10,939,994 | 11,155,188 | 33,478,013 |
| Integrated Service Delivery and Quality Improvement | 1,755,674 | 1,254,238 | 857,281 | 3,867,193 |
| Leadership and Governance | 1,406,431 | 1,279,481 | 1,224,723 | 3,910,635 |
| Supply Chain | 6,682,281 | 5,473,733 | 5,545,797 | 17,701,810 |
| Grand Total | 132,951,121 | 129,193,932 | 123,857,357 | 386,002,411 |



| Cost element | Methodology / Assumptions | Source of |
|---------------------------|---|----------------|
| | | information |
| Inflation and growth rate | Assumed a conservative inflation | Team |
| of unit costs | rate and unit costs growth rate equal assessmen | |
| | to zero | |
| ARV drugs | Cost per patient per year for each | Quantification |
| | ARV regimen for first, second and | report – |
| | third line adult and pediatric. | November 2012 |
| | Considered an increase of the unit | |
| | cost due to the shift of new patients | |
| | to more expensive regimens | |
| Consumables for | Cost per patient per year | Quantification |
| Biochemical follow up | comprehensive of consumables. | report – |
| | Included the cost of CD4, Viral | November 2012 |
| | load, Hematology, Biochemistry, | |
| | general lab consumables | |
| Drugs for opportunistic | Average cost per year per case. | Quantification |
| infections management | Assumed a distribution of OI as | report – |
| | Herpes zoster (27%), Cryptococcus | November 2012 |
| | meningitis prevention (27%), | |
| | Diarrhea (17%), Candidiasis (Oral | |
| | and Esophageal) 17%, Others 12% | |
| Prophylaxis for adults | Cost per adult patients per year. | Quantification |
| | Assumed use of Co-trimoxazole in | report – |
| | different dosages and Dapsone | November 2012 |
| Prophylaxis for children | Cost per pediatric patients per year. | Quantification |
| and exposed infants | Assumed use of Co-trimoxazole in | report – |
| | different dosages | November 2012 |





| | | 1 |
|---------------------------|-------------------------------------|----------------|
| Nutrition support for | Cost per case per year broken down | Nutrition sub- |
| PLHIV | for severely, moderately working g | |
| | malnourished and household at risk | |
| Drugs and testing for STI | Cost per case including testing for | STI sub - |
| management | syphilis. Assumed distribution of | working group |
| | STI as Chlamydia treatment (30%), | |
| | Gonorrhea treatment (30%), | |
| | Candidiasis (20%), Syphilis | |
| | treatment (10%), Others (10%) | |
| Drugs for mental health | Cost per case. Assumed 60% of | Mental health |
| | people in ART need psychotherapy | sub-working |
| | and 19% receive drugs. Assumed a | group |
| | distribution of case as | |
| | Antidepressant (7%), Mood | |
| | stabilizer (5%), Anxiotic (5%), | |
| | Antipsychotics (2%). | |
| Adherence follow up. | Considered transport allowance for | Adherence sub- |
| | Health care providers and | working group |
| | community health workers to 60% | |
| | of the patients receiving ARVs. | |
| Blood transfusion | Cost per unit. Assumed the cost | Strategic Plan |
| | included in the strategic plan of | Blood |
| | blood transfusion. | transfusion |
| Condoms procurement | Cost per male and female condoms | UNDP database |
| Counseling and testing | Cost per test and control tests. | Quantification |
| | Assumed 64% of the test done with | report – |
| | HIV rapid test – Elisa and 36% with | November 2012 |
| | finger prick tests. | |
| Male circumcision | Cost for both Prepex and surgical | Report "PrePex |
| consumables | circumcision. Assumed a | Cost analysis |
| | | paper Draft |
| | | |

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| | distribution of 85% Prepex and 15% | _17May13" - |
|---------------------------|--|------------------|
| | surgical MC | May 2013 |
| Family planning drugs | Cost per patient. Assumed a | HIV-family |
| and consumables | distribution of integrated cases as: | planning |
| (integrated in HIV | injectable (61%), implant (13%), | integration desk |
| services) | condoms male and female. | MoH |
| Outreach interventions to | Considered cost of peer education, | Prevention |
| key population | IEC material, training of peer | working group |
| | educators, Mobile VCT and STI | |
| | screening, lubricants, involvement | |
| | in planning and coordination, | |
| | sensitization surrounding | |
| | communities, supporting materials. | |
| PMTCT | Considered cost of transportation | Prevention |
| | IEC material, training of peer | working group |
| | education of mothers, cost of ARV | |
| | and Exposed infants prophylaxis, | Quantification |
| | training private facilities, awareness | report – |
| | campaign, facility upgrades, | November 2012 |
| | community tools for infants follow | |
| | up, testing of pregnant mothers, | |
| | EMTCT surveillance. | |
| PEP | Cost per case0 Considered treatment | Quantification |
| | for 30 days | report – |
| | | November 2012 |



