# KIGALI INDEPENDENT UNIVERSITY ULK SCHOOL OF LAW DEPARTMENT OF LAW

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REGULATORY FRAMEWORKS FOR INTELLECTUAL PROPERTY PROTECTION IN THE PHARMACEUTICAL INDUSTRY: LEGAL ANALYSIS OF TRADE-RELATED ASPECTS OF INTELLECTUAL PROPERTY RIGHTS (TRIPS) AGREEMENT AND ACCESS TO MEDICINES IN RWANDA

This dissertation is Submitted in Partial Fulfilment of the Requirements for the Award of Bachelor's Degree with Honours in Laws (LL. B)

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Kigali, August 2024

#### APPROVAL

I, **Me BAHATI Vedaste**, hereby certify that I have supervised the dissertation titled "*Regulatory Frameworks for Intellectual Property Protection in the Pharmaceutical Industry: Legal Analysis of TRIPS Agreement and Access to Medicines in Rwanda''* at Kigali Independent University ULK and recommend it for acceptance. This dissertation has been submitted with my approval as the University supervisor.

Supervisor: Me BAHATI Vedaste

Signature:

Date:

# **DECLARATION**

I, Pharm. NSENGEYUKURI Jean Damascène, confirm that the dissertation "*Regulatory Frameworks for Intellectual Property Protection in the Pharmaceutical Industry: Legal Analysis of TRIPS Agreement and Access to Medicines in Rwanda''* is solely my own work. It has not been submitted elsewhere for academic evaluation or any other purpose. Due credit has been given to all sources used in this research through proper citations in the footnotes and bibliography.

#### Pharm. NSENGEYUKURI Jean Damascène

Date:

Signature:

# **DEDICATION**

This dissertation is dedicated to:

- Almighty God, for His protection, guidance, and grace,
- My beloved wife, Florence NIYONSABA, for her unconditional love,
- My children, for their constant inspiration,
- To the New Generation Rwanda,
- My parents, for their sacrifices and encouragement,
- My brothers and sisters, for their companionship and love.

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#### Pharm. NSENGEYUKURI Jean Damascène

# LIST OF ABBREVIATIONS AND ACRONYMS

**APIs:** Active Pharmaceutical Ingredients **ARVs**: Antiretrovirals AU: African Union **EAC**: East African Community HAI: Health Action International HIV/AIDS: Human Immunodeficiency Virus/Acquired Immunodeficiency Syndrome **IP**: Intellectual Property **IPRs**: Intellectual Property Rights LMICs: Least Developed Countries **MINICOM:** Ministry of Trade and Industry MLST: Model Law on Secured Transactions MoH: Ministry of Health **MSF**: Médecins Sans Frontières NGOs: Non-Governmental Organizations NIRDA: National Industrial Research and Development Agency **RBC**: Rwanda Biomedical Center **RDB**: Rwanda Development Board RMS Ltd: Rwanda Medical Supply Ltd Rwanda FDA: Rwanda Food and Drugs Authority **RSB:** Rwanda Standards Board **SDGs**: Sustainable Development Goals **SRIP**: Security Rights in Intellectual Property **TRIPS**: Trade-Related Aspects of Intellectual Property Rights **UHC**: Universal Health Coverage ULK: Université Libre de Kigali **UNCITRAL:** United Nations Commission on International Trade Law **UNDP**: United Nations Development Programme UNITAID: An international organization that invests in new ways to prevent, diagnose, and treat HIV/AIDS, tuberculosis, and malaria WHO: World Health Organization WIPO: World Intellectual Property Organization WTO: World Trade Organization

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#### **GENERAL INTRODUCTION**

The General Introduction lays the groundwork for the study by establishing the significance of the research topic. It begins with an exploration of the researcher's personal, academic, and scientific motivations, highlighting the importance and relevance of the study. The scope is then clearly defined, detailing the geographical focus, subject area, and time frame. Following this, the core research problem is articulated, providing a basis for the research questions and objectives. The introduction concludes by outlining the chosen research methodology and presenting the study's overall structure, offering readers a clear and organized roadmap to follow.

#### **1.1. Background of the study**

The pharmaceutical industry stands at the forefront of global healthcare, playing a crucial role in advancing the development and production of life-saving medicines. This progress is intimately linked to Intellectual Property Rights (IPRs), particularly patent protection, which empowers pharmaceutical companies to exclusively produce and market their innovations. This exclusivity is vital for significant research and development investments and for fostering continued innovation<sup>1</sup>. However, this model, while innovation-centric, often raises critical issues regarding equitable access to medicines, particularly in low- and middle-income countries (LMICs).

At the heart of this global discourse is the Trade-Related Aspects of Intellectual Property Rights (TRIPS) agreement, established under the auspices of the World Trade Organization (WTO). TRIPS delineates global standards for intellectual property, including patents, aiming to strike a delicate balance between incentivizing pharmaceutical innovation and ensuring the accessibility of medicines<sup>2</sup>. Notably, the Doha Declaration on TRIPS and Public Health underscores the flexibility of this agreement in public health emergencies, allowing for the temporary suspension of patent rights under specific conditions<sup>3</sup>.

<sup>&</sup>lt;sup>1</sup> Grabowski, H., & Vernon, J. (2019). The role of patent protection in pharmaceutical innovation.

<sup>&</sup>lt;sup>2</sup> World Trade Organization (WTO). (1994). Trade-Related Aspects of Intellectual Property Rights (TRIPS) agreement.

<sup>&</sup>lt;sup>3</sup> World Trade Organization (WTO). (2001). Doha Declaration on TRIPS and Public Health.

The urgency of this balancing act is highlighted by the World Health Organization's (WHO) report, which states that approximately a third of the global population lacks access to essential medicines, a situation particularly acute in LMICs<sup>4</sup>.

This horrible circumstance feeds into the ongoing debates about reconciling the protection of intellectual property with the imperative of making medicines affordable, a challenge that resonates with the United Nations Sustainable Development Goals (SDGs).

Central to the 2030 Agenda for Sustainable Development, adopted in 2015, is Goal 3: "Good Health and Well-being," which emphasizes the necessity of universal health coverage (UHC) and access to affordable, quality medicines<sup>5</sup>. The achievement of this goal necessitates a nuanced understanding of the complex interplay between intellectual property protection and public health needs.

Rwanda, characterized by a growing pharmaceutical sector coupled with a reliance on imported medicines, offers a compelling case study in navigating the complexities of intellectual property rights within the context of public health. The country's legislative framework, notably Law N° 055/2024 of 20/06/2024 on the protection of intellectual property, demonstrates Rwanda's commitment to harmonizing its intellectual property laws with international standards, while also thoughtfully integrating considerations for safeguarding public health<sup>6</sup>. However, Rwanda, like many countries in Sub-Saharan Africa, struggles with a multitude of health challenges. The prevalence of diseases such as HIV/AIDS and malaria, coupled with a rising trend of non-communicable diseases (NCDs) like hypertension, diabetes, and cancer, poses a significant public health burden<sup>7</sup>. In addition to these aspects, the constitution of the Republic of Rwanda plays a pivotal role in this discourse. The Rwandan constitution enshrines the right to health as a fundamental human right<sup>8</sup>.

This constitutional commitment reinforces the nation's obligation to ensure access to healthcare services, including essential medicines, for all its citizens.

<sup>&</sup>lt;sup>4</sup> World Health Organization (WHO). (2022). Report on global access to essential medicines.

<sup>&</sup>lt;sup>5</sup> United Nations. (2015). 2030 Agenda for Sustainable Development and Sustainable Development Goals (SDGs).

 $<sup>^{6}</sup>$  Law N° 055/2024 of 20/06/2024 on the protection of intellectual property

<sup>&</sup>lt;sup>7</sup> World Health Organization Regional Office for Africa. Health information on Rwanda. Retrieved from <u>https://www.afro.who.int/countries/rwanda</u>

<sup>&</sup>lt;sup>8</sup> Constitution of the Republic of Rwanda, 2023. Art. 21

The constitution's emphasis on the right to health underlines the government's duty to create a healthcare system that is inclusive, affordable, and accessible.

Further complicating this landscape is the role of the United Nations Commission on International Trade Law (UNCITRAL), which develops modern rules on commercial transactions, including those pertinent to international pharmaceutical trade. These rules intersect with TRIPS and Rwandan legislation, creating a complex regulatory environment<sup>9</sup>.

While Rwanda has made significant progress in improving its healthcare system and the availability of essential medicines, it remains confronted with the global dilemma faced by many LMICs which is reconciling the commitment to uphold patent rights under TRIPS with the pressing need to provide affordable and accessible medicines to its population.

By becoming a member of the WTO in 1996, Rwanda automatically subscribed to the Trade-Related Aspects of Intellectual Property Rights (TRIPS) agreement. This agreement set global standards for intellectual property protection, including patents for pharmaceuticals. While TRIPS allows for flexibilities in public health emergencies, it also creates obligations for Rwanda to respect and uphold patent rights<sup>10</sup>. This creates the core tension explored in this study of balancing innovation incentives with access to medicines<sup>11</sup>.

This study aims to investigate the regulatory frameworks governing intellectual property protection within Rwanda's pharmaceutical industry, with a focus on the TRIPS agreement and the guidelines provided by UNCITRAL. It seeks to assess how Rwanda navigates these complex frameworks to promote pharmaceutical innovation while ensuring the accessibility of medicines. By shedding light on Rwanda's unique situation, this research endeavors to contribute meaningful insights to the global discourse on balancing IPR protection with access to essential medicines in LMICs, thereby laying the foundation for future scholarly exploration and policy formulation.

<sup>&</sup>lt;sup>9</sup> United Nations Commission on International Trade Law (UNCITRAL). (2023). Modern rules on commercial transactions, including international pharmaceutical trade

<sup>&</sup>lt;sup>10</sup> World Trade Organization (WTO): "The TRIPS Agreement." <u>https://www.wto.org/english/docs\_e/legal\_e/27-</u> <u>trips\_01\_e.htm</u>

<sup>&</sup>lt;sup>11</sup> World Health Organization (WHO): "Resolution WHA61.22: Access to essential medicines." <u>https://www.who.int/our-work/access-to-medicines-and-health-products</u>

#### **1.2. Interest of the study**

This section highlights the motivation behind conducting the study, reflecting both personal and scientific interests.

#### **1.2.1.** Personal Interest

My profound interest in this research stems from my dual role as a pharmacist and regulator, uniquely positioning me to bridge the gap between intellectual property rights and public health necessities. Delving into Rwanda's approach to pharmaceutical access under the TRIPS framework aligns perfectly with my career aspirations in pharmaceutical management and regulatory affairs. This endeavor promises to significantly enhance my professional expertise and establish me as a thought leader in this critical domain.

On a personal level, this research resonates deeply with my ethical values and sense of purpose. The potential to directly influence policies that improve healthcare outcomes in LMICs, particularly by ensuring equitable access to essential medicines, is immensely fulfilling. This research is not merely a professional pursuit but a personal mission to contribute meaningfully to global health, aligning with my dedication to making a positive impact on underserved communities.

#### 1.2.2. Academic Interest

From an academic perspective, this research contributes significantly to the existing body of knowledge on intellectual property, pharmaceutical regulation, and global health. By focusing on Rwanda's unique context within the TRIPS agreement, this study offers novel insights into the challenges and strategies employed by LMICs. The findings of this research will not only enrich academic discourse but also serve as a valuable resource for policymakers, regulators, and other stakeholders involved in pharmaceutical access and intellectual property issues.

Furthermore, this research serves as a platform for academic collaboration and knowledge exchange. By engaging with scholars, experts, and institutions both domestically and internationally, this study fosters a vibrant academic environment that encourages interdisciplinary dialogue and contributes to the advancement of knowledge in this field.

#### 1.2.3. Scientific Interest

Scientifically, this research holds immense potential to generate evidence-based recommendations and solutions for improving access to medicines in Rwanda and other LMICs. By rigorously analyzing the legal framework, policy landscape, and practical implementation challenges, this study can identify key areas for reform and propose innovative strategies to optimize pharmaceutical access while respecting intellectual property rights.

The scientific rigor of this research will be ensured through a robust methodology that combines legal analysis, policy review, empirical data collection, and stakeholder engagement. This comprehensive approach will yield credible findings that can inform policy decisions, guide regulatory practices, and ultimately improve the health and well-being of populations in Rwanda and beyond.

#### **1.3 Delimitation of the Study**

This study is delimited by spatial, domain-specific, and temporal parameters, ensuring a focused and comprehensive analysis of intellectual property (IP) protection within Rwanda's pharmaceutical industry.

#### **1.3.1 Delimitation in space**

The research is geographically confined to Rwanda, concentrating on the national regulatory framework governing IP protection in the pharmaceutical sector. The primary emphasis is on pharmaceuticals and medicines, intentionally excluding other forms of intellectual property within the broader pharmaceutical landscape.

#### **1.3.2 Delimitation in Domain**

This research examines into intellectual property safeguards within the pharmaceutical sector, particularly focusing on the TRIPS Agreement and its influence on the availability of medications. This analysis encompasses various facets of IP protection, including patents, trademarks, copyrights, and trade secrets as they relate to pharmaceuticals. Additionally, it explores critical issues such as compulsory licensing, parallel importation, and data exclusivity within the Rwandan context.

#### **1.3.3 Delimitation in time**

The research covers the period from May 22, 1996, marking Rwanda's accession to the TRIPS Agreement upon joining the World Trade Organization, to August 2024. This period allows for a comprehensive evaluation of how IP protection has changed and its effect on medicine accessibility in Rwanda since it joined the global trade system. The study's boundaries guarantee a focused, thorough, and relevant examination of the connection between intellectual property rights and medicine access in Rwanda. The results contribute to the ongoing discussion about balancing innovation and access in the pharmaceutical industry, especially in developing countries.

#### 1.4. Problem statement

Rwanda, like many developing nations, is navigating the complex balance between incentivizing pharmaceutical innovation through intellectual property (IP) protection and ensuring equitable access to essential medicines for its citizens<sup>12</sup>. This balancing act is particularly challenging in the context of Rwanda's high disease burden, heavy reliance on imported medicines (over 80%), and the stringent patent protections mandated by the TRIPS Agreement<sup>13</sup>. While TRIPS provides some flexibilities, it primarily reinforces strong patent protections, which can inadvertently lead to elevated drug prices and restricted access. In a country like Rwanda, where 39% of the population lives below the poverty line<sup>14</sup>, the high cost of patented medicines poses a significant barrier to access, threatening the fundamental right to health<sup>15</sup>.

This dilemma directly undermines Rwanda's progress toward achieving Sustainable Development Goal (SDG) 3, which aims to ensure good health and well-being for all, and its pursuit of Universal Health Coverage (UHC), a core objective of its National Health Policy<sup>16</sup>.

Furthermore, Rwanda's limited domestic pharmaceutical manufacturing capacity, contributing to less than 5% of the total market, intensifies the access challenge.

<sup>&</sup>lt;sup>12</sup> World Trade Organization. (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).

 <sup>&</sup>lt;sup>13</sup> World Health Organization. (n.d.). *Rwanda*. Retrieved July 13, 2024, from <u>https://www.who.int/countries/rwa</u>
 <sup>14</sup> World Bank. (n.d.). *Poverty headcount ratio at national poverty lines (% of population)*. Retrieved August 8, 2024, from <u>https://data.worldbank.org/indicator/SI.POV.NAHC?locations=RW</u>

<sup>&</sup>lt;sup>15</sup> 't Hoen, E. (2009). The Doha Declaration on the TRIPS Agreement and Public Health: Opportunities and Challenges for Access to Essential Medicines in Developing Countries. *World Trade Review*, 8(3), 389-433.

<sup>&</sup>lt;sup>16</sup> United Nations. (2015). Transforming our world: The 2030 Agenda for Sustainable Development. New York.

Additionally, the additional layers of protection offered by trade secrets and data exclusivity further complicate the issue of access to medicines<sup>17</sup>.

To address these multifaceted challenges, Rwanda has enacted Law No. 31/2009 on the protection of intellectual property<sup>18</sup>, subsequently amended by Law N° 50/2018<sup>19</sup>, in an attempt to harmonize IP protection with public health considerations. However, the effectiveness of these legal frameworks and the extent to which Rwanda is utilizing TRIPS flexibilities to navigate this complex landscape remains underexplored.

This research seeks to comprehensively analyze Rwanda's regulatory landscape for intellectual property protection in the pharmaceutical industry, with a specific focus on the utilization of TRIPS flexibilities. It aims to identify the key challenges Rwanda faces in balancing IP protection and access to medicines and to evaluate the legal and institutional mechanisms in place to address these challenges. Ultimately, this research seeks to contribute to the ongoing discourse on how developing countries can effectively leverage international trade agreements to promote public health and ensure equitable access to essential medicines.

#### 1.5. Research Questions

This research explored the following questions:

- What are the key challenges Rwanda faces in effectively balancing the protection of pharmaceutical innovation with ensuring equitable access to essential medicines under TRIPS obligations?
- 2. What legal and institutional mechanisms does Rwanda have in place for utilizing TRIPS flexibilities to improve access to essential medicines?

<sup>&</sup>lt;sup>17</sup> Forman, L. (2018). Balancing pharmaceutical innovation with global health needs: The TRIPs flexibilities and intellectual property in the twenty-first century. *Georgetown Journal of International Law*, 49(3), 791-839.

 $<sup>^{18}</sup>$  Law  $n^\circ$  055/2024 of 20/06/2024 on the protection of intellectual property

#### **1.6. Research Hypotheses**

This dissertation examined the following hypothesis:

- 1. Hypothesis 1 (H1): Stringent patent protections under the TRIPS agreement significantly hinder access to medicines in Rwanda.
- 2. Hypothesis 2 (H2): The utilization of TRIPS flexibilities through specific legal and institutional mechanisms in Rwanda significantly improves access to essential medicines for the Rwandan population.

#### 1.7. Objectives of the Study

#### **1.7.1.General Objective**

The General objective was to investigate the regulatory frameworks for intellectual property protection in the pharmaceutical industry through a legal analysis of the TRIPS Agreement and access to medicines in Rwanda.

#### 1.7.2. Specific Objectives

The specific objectives were the following:

- To examine the key challenges Rwanda faces in effectively balancing the protection of pharmaceutical innovation with ensuring equitable access to essential medicines under TRIPS obligations.
- 2. To investigate the legal frameworks and institutional structures in Rwanda that enable the utilization of specific TRIPS flexibilities to improve access to essential medicines.

#### 1.8. Research Methodology and Techniques

This research adopted a comprehensive approach to analyze the regulatory frameworks for intellectual property protection in Rwanda's pharmaceutical industry, focusing on the TRIPS Agreement and its impact on access to medicines.

#### **1.8.1. Research Techniques**

This study employs a combination of documentary analysis, case study analysis, and various research methods to comprehensively interpret and analyze the legal and scientific frameworks related to intellectual property protection and access to medicines in Rwanda.

#### **1.8.1. Documentary Analysis**

This study employed a thorough review and analysis of various primary and secondary sources. Primary sources included legal documents such as the intellectual property law of Rwanda, the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), international legal texts, and relevant case law. Secondary sources encompassed textbooks, scholarly articles, and reputable online resources discussing TRIPS and access to medicines. This technique provided a comprehensive understanding of the legal and policy landscape surrounding intellectual property and pharmaceuticals in Rwanda.

#### **1.8.2.** Case Studies analysis

Beyond a review of existing documents, this research employed case studies to explore specific situations in Rwanda where intellectual property rights and access to medicines intersect. This in-depth examination allowed for a nuanced understanding of how legal and regulatory frameworks influence the practical availability and affordability of essential medications.

#### 1.8.3. Research Methods

The study uses a variety of research methods to explore, interpret, and compare the data. These methods ensure that the analysis is both comprehensive and focused on extracting meaningful insights.

#### 1.8.3.1. Exegetic Methods

This research closely examined the text of the TRIPS Agreement, particularly articles with potential implications for access to medicines. Scholarly interpretations and legal analyses were utilized to understand the nuances and potential interpretations of relevant legal provisions. Furthermore, the study scrutinized Rwanda's evolving IP laws and regulations, identifying key provisions, amendments, and policy shifts that could affect access to pharmaceuticals. This analysis involved a meticulous review of legislative texts, regulatory documents, and official government publications.

#### 1.8.3.2. Analytical Methods

The research critically compared and contrasted the Rwandan IP framework with the TRIPS Agreement, focusing on their approach to pharmaceutical patents, compulsory licensing, and public health exceptions. This comparative analysis aimed to identify potential conflicts or areas of alignment between the two frameworks and assess their implications for access to medicines in Rwanda.

Moreover, this analysis evaluated the strengths and weaknesses of both the TRIPS Agreement and the Rwandan IP framework in promoting innovation, protecting intellectual property, and ensuring access to affordable medicines in Rwanda. This assessment involved a critical review of relevant literature, policy documents, and case studies to understand the practical impact of these frameworks on the pharmaceutical sector.

#### 1.8.3.3. Synthetic Methods

Based on the analysis and findings, the research constructed robust arguments about the impact of the TRIPS Agreement and the Rwandan IP framework on access to medicines in Rwanda. These arguments were supported by evidence from legal documents, scholarly literature, and empirical data gathered through interviews and surveys.

Subsequently, taking into account the identified challenges and opportunities, the study proposed practical solutions and recommendations for Rwandan policymakers to optimize IP protection while improving access to essential medicines. These recommendations were based on a thorough understanding of the legal and policy landscape, as well as insights from stakeholders involved in the pharmaceutical sector.

#### 1.8.3.4. Comparative Methods

The study also conducted a comparative analysis of different countries' approaches to IP protection in the pharmaceutical sector, focusing on those with similar socio-economic contexts to Rwanda. This comparative analysis aimed to identify best practices and lessons learned that could be adapted to the Rwandan context. It involved examining legal frameworks, policy documents, and case studies from other countries to understand the diverse approaches to balancing IP rights with public health needs.

In conclusion, this research employed a multi-faceted methodological approach, combining documentary analysis, case studies, comparative analysis, exegetic methods, analytical methods, and synthetic methods to comprehensively examine the regulatory frameworks for intellectual property protection in Rwanda's pharmaceutical industry.

This approach enabled a thorough understanding of the legal, policy, and practical aspects of IP protection and its impact on access to medicines in Rwanda, leading to the development of evidence-based recommendations for policymakers and stakeholders.

#### 1.9. Subdivision of the Study

This dissertation is structured into three chapters. It commences with a general introduction, providing an overview of the research topic, its significance, and the research questions and objectives. Following this, Chapter I establishes the theoretical and conceptual framework, delving into the foundational concepts of intellectual property, the TRIPS Agreement, and access to medicines. Subsequently, Chapter II examines the key challenges to balancing pharmaceutical innovation and access to medicines under TRIPS obligations in Rwanda. Building upon these findings, Chapter III provides an in-depth examination of Rwanda's legal and institutional mechanisms for implementing TRIPS flexibilities to promote access to essential medicines. Finally, the dissertation concludes by summarizing the key findings, discussing their implications, and offering recommendations for policymakers, stakeholders, and future research in this field.

#### **CHAP I: CONCEPTUAL AND THEORITICAL FRAMEWORK**

The theoretical and conceptual framework governing intellectual property (IP) rights and access to medicines is fundamental to understanding the complex interplay within the global pharmaceutical landscape. This framework, encompassing patents, copyrights, trademarks, and trade secrets, seeks to reconcile the imperative for incentivizing innovation with the ethical and practical need for equitable access to essential medications. This chapter will investigate into the ways in which regulatory regimes, notably the TRIPS Agreement, shape IP protection within the pharmaceutical industry and its consequential effects on medicine accessibility, particularly in the context of Rwanda.

# I.1. Theoretical and conceptual framework for intellectual property and access to medicines

This chapter provides an overview of the theoretical and conceptual frameworks that underpin the relationship between intellectual property rights and access to medicines. It explores key legal theories, principles, and models that explain how intellectual property protection interacts with public health objectives, focusing on the balance between promoting innovation and ensuring equitable access to essential medicines.

#### I.1.1. Definition of Key Concepts

#### I.1.1.1. Intellectual Property (IP)

IP refers to creations of the mind, such as inventions, literary and artistic works, designs, symbols, names, and images used in commerce.

Its primary purpose is to incentivize innovation and creativity by granting creators certain exclusive rights to their creations for a limited period<sup>20</sup>. In the pharmaceutical industry, IP plays a crucial role in encouraging investment in research and development (R&D) by providing legal protection for new drugs and medical technologies.

#### I.1.1.2. Pharmaceutical Industry

The pharmaceutical industry is an economic sector dedicated to the discovery, development, manufacturing, and marketing of medicines for medical purposes<sup>21</sup>. IP protection is fundamental due to the industry's high R&D costs and extensive development timelines.

#### I.1.1.3. Regulatory Frameworks

Regulatory frameworks in the pharmaceutical industry comprise a complex system of laws, regulations, administrative guidelines, and industry standards designed to ensure the safety, efficacy, quality, accessibility, and ethical promotion of pharmaceutical products throughout their life cycle<sup>22</sup>.

#### I.1.1.4. TRIPS Agreement

The Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS) is a landmark multilateral agreement within the World Trade Organization (WTO) that sets global minimum standards for IP rights, including in the pharmaceutical sector<sup>23</sup>. <sup>11</sup> Its objectives include harmonizing IP laws and protecting innovation, while allowing for certain public health safeguards.

#### I.1.1.5. Access to medicines

Access to medicines refers to the timely availability and affordability of safe, effective, and quality-assured medicines for all individuals who need them.

<sup>&</sup>lt;sup>20</sup> World Intellectual Property Organization (WIPO). "What is Intellectual Property?" available at: <u>https://www.wipo.int/about-ip/en/</u>

 <sup>&</sup>lt;sup>21</sup> The Pharmaceutical Industry in Figures – 2023 retrieved from <u>https://www.efpia.eu/media/rm4kzdlx/the-pharmaceutical-industry-in-figures-2023.pdf</u>
 <sup>22</sup> Pharmaceutical legislation and regulation - Management Sciences for Health retrieved from <u>https://msh.org/wp-</u>

<sup>&</sup>lt;sup>22</sup> Pharmaceutical legislation and regulation - Management Sciences for Health retrieved from <u>https://msh.org/wp-content/uploads/2013/04/mds3-ch06-legislation-mar2012.pdf</u>

<sup>&</sup>lt;sup>23</sup> WTO. "The TRIPS Agreement." Retrieved from <u>https://www.wto.org/english/tratop\_e/trips\_e/trips\_e.htm</u>

This is a fundamental component of the right to health, as recognized by international law and the World Health Organization (WHO)<sup>24</sup>.

#### I.1.1.6. Regulatory Frameworks and Access to medicines

This concept examines the interplay between IP laws, pricing policies, and public health concerns<sup>25</sup>. It underscores how Rwanda strives to balance IP-driven innovation with measures to ensure medicine affordability and accessibility.

# I.1.1.7. Comparative Analysis

Comparative analysis is a systematic method for evaluating the similarities and differences between two or more entities, concepts, or processes. It aims to identify patterns, trends, strengths, weaknesses, and potential relationships among variables. In policy analysis, comparative analysis is used to examine how different approaches across countries or regions lead to varying outcomes.<sup>26</sup>

# I.1.1.8. Compulsory Licensing

Compulsory licensing is a TRIPS-compliant flexibility that allows a government to authorize the use of a patented invention by a third party without the patent holder's consent, subject to specific conditions (such as paying royalties)<sup>27</sup>. This mechanism is intended for use in public health emergencies or anti-competitive situations.

# I.1.2. Types of IP

This section provides an overview of the various types of intellectual property (IP). IP refers to the legal rights granted to creators and inventors to protect their innovations and creations.

<sup>&</sup>lt;sup>24</sup> World Health Organization. (2011). The right to health

<sup>&</sup>lt;sup>25</sup> USAID MTaPS Program: Eliminating Poor-Quality Medicines through an Effective Regulatory System in Rwanda retrieved from <u>https://www.ghsupplychain.org/news/eliminating-poor-quality-medicines-through-effective-regulatory-system-rwanda</u>

<sup>&</sup>lt;sup>26</sup> What is Comparative Analysis? Guide with Examples" by Dovetail retrieved from <u>https://dovetail.com/research/comparative-analysis/</u>.

<sup>&</sup>lt;sup>27</sup> WTO. "Compulsory Licensing of Pharmaceuticals and TRIPS." Retrieved from WTO's Compulsory Licensing of Pharmaceuticals and TRIPS Page: retrieved from: https://www.wto.org/english/tratop\_e/trips\_e/public\_health\_faq\_e.htm

The main types of IP include patents, trademarks, copyrights, trade secrets, and industrial designs, each serving a unique purpose in safeguarding different forms of intellectual creativity and innovation.

#### I.1.2.1. Patents

Patents are essential in the pharmaceutical industry for protecting new drugs, formulations, or processes. They grant the patent holder exclusive rights to produce and sell the patented invention for a limited period, typically 20 years from the filing date of the application<sup>28</sup>.

The scope and duration of patents are central to the debate surrounding IP-driven innovation and medicine accessibility, a key focus of our research.

#### I.1.2.2. Copyrights

Copyrights are relevant in pharmaceuticals for protecting marketing materials and patient education resources<sup>29</sup>.Copyright laws can interact with IP rights over drug information, potentially influencing patient access to knowledge about potential treatments.

#### I.1.2.3. Trademarks

Trademarks are vital for branding and preventing counterfeiting, safeguarding consumer trust in pharmaceutical products<sup>30</sup>. The strength of trademarks impacts both legitimate pharmaceutical producers and the potential for counterfeit medication, which has implications for Rwandan access to safe, quality medicines.

#### I.1.2.4. Trade Secrets

Trade secrets protect manufacturing processes and clinical trial data, offering a competitive edge to pharmaceutical companies<sup>31</sup>. Trade secret protection influences what information companies must disclose, potentially impacting efforts at local generic production in Rwanda.

<sup>&</sup>lt;sup>28</sup> Boldrin, M., & Levine, D. K. (2008). Against intellectual monopoly. Cambridge University Press.Retrieved from <u>https://www.cambridge.org/core/books/against-intellectual-</u> monopoly/B4548895B72959727FB0971B519EB2BA

<sup>&</sup>lt;sup>29</sup> Hemphill, C. S., & Sampat, B. N. (2012). Evergreening, patent challenges, and effective patent life in pharmaceuticals. Journal of health economics, 31(2), 327-339. Retrieved from : https://pubmed.ncbi.nlm.nih.gov/22425766/

<sup>&</sup>lt;sup>30</sup> WIPO. "What is a Trademark?" <u>https://www.wipo.int/trademarks/en/</u>

<sup>&</sup>lt;sup>31</sup> WIPO. "What is a Trade Secret?" <u>https://www.wipo.int/tradesecrets/en/</u>

#### I.1.2.5. Industrial Designs

Although less prominent than patents in pharmaceuticals, industrial designs can protect unique packaging or medical device designs<sup>32</sup>.

This is relevant to regulatory aspects concerning design protection for delivery systems (e.g., inhalers) and the potential for accessible medication formats.

#### I.1.2.6. Geographical Indications (GIs)

GIs are relevant in sourcing natural remedies or protecting traditional knowledge-based production methods in pharmaceuticals<sup>33</sup>. Examining GI protection in Rwanda is crucial, as it could influence access to locally sourced medicines.

#### I.1.2.7. Layout Designs of Integrated Circuits (Topographies)

While indirectly related to final drug products, topographies are essential for the pharmaceutical research infrastructure and manufacturing equipment<sup>34</sup>. Their IP protection can affect the development of technologies impacting Rwandan drug production capabilities.

# I.1.3. PROPERTY RIGHTS

Intellectual property (IP) refers to creations of the mind, such as inventions; literary and artistic works; designs; and symbols, names and images used in commerce<sup>35</sup>. These rights are essential for maintaining order and facilitating economic activity in society. In the context of intellectual property (IP), property rights play a crucial role in incentivizing innovation and creativity by providing creators with exclusive rights to their creations.

# I.1.3.1. Types of property

# I.1.3.1.1. Real Property

Real property includes land, buildings, and anything permanently attached to them. Owners of real property have the right to use, sell, rent, or modify their property within legal boundaries. This type of property is governed by specific laws and regulations that vary by jurisdiction<sup>36</sup>.

<sup>&</sup>lt;sup>32</sup> WIPO. "What is an Industrial Design?" : <u>https://www.wipo.int/designs/en/</u>

<sup>&</sup>lt;sup>33</sup> WIPO. "What is a Geographical Indication?" <u>https://www.wipo.int/geo\_indications/en/</u>

<sup>&</sup>lt;sup>34</sup> WIPO. "What is a Layout Design?" <u>https://www.wipo.int/designs/en/</u>

<sup>&</sup>lt;sup>35</sup> <u>https://www.wipo.int/about-ip/en/</u>

<sup>&</sup>lt;sup>36</sup> Black's Law Dictionary. (2019). Real Property.

#### I.1.3.1.2. Personal Property

Personal property consists of tangible, movable objects such as cars, furniture, and electronics. Owners of personal property enjoy similar rights to use, sell, rent, or modify their belongings. Unlike real property, personal property can be easily transferred from one person to another<sup>37</sup>.

#### I.1.3.1.3. Intangible Property

Intangible property includes intellectual property like patents, copyrights, trademarks, and trade secrets. These rights grant creators control over their creations and allow them to profit from their intellectual efforts. IP rights are crucial in industries such as pharmaceuticals, where they protect inventions and encourage further innovation<sup>38</sup>.

#### I.1.3.1.4. Personal Property Rights

Personal property rights are rights related to a person themselves, such as the right to privacy, bodily autonomy, and protection from reputation harm. These rights are fundamental to an individual's agency and control over their own life<sup>39</sup>.

#### I.1.3.2. Core Characteristics of Property Rights

Property rights, at their core, embody a set of essential characteristics that shape our interactions with tangible and intangible assets<sup>40</sup>. First and foremost is the right to possess, granting owners physical control over their property and the authority to exclude others from using it without permission<sup>41</sup>. This fundamental right forms the basis for concepts like private ownership and personal space.

The right to use allows owners to utilize their property for personal gain or enjoyment, subject to any legal limitations that may exist<sup>42</sup>. This could involve anything from living in a house to cultivating land for agriculture or using a patented invention for commercial purposes.

<sup>&</sup>lt;sup>37</sup> Black's Law Dictionary. (2019). Personal Property.

<sup>&</sup>lt;sup>38</sup> World Intellectual Property Organization (WIPO): <u>https://www.wipo.int/</u>

<sup>&</sup>lt;sup>39</sup> Cornell Legal Information Institute: <u>https://www.law.cornell.edu/wex/property</u>

<sup>&</sup>lt;sup>40</sup> Cornell Legal Information Institute: <u>https://www.law.cornell.edu/wex/property</u>

 $<sup>^{41}</sup>$  KATUSHABE J.ULK (2024), Land and Property law , lecturer notes

<sup>&</sup>lt;sup>42</sup> Ibid.

The right to exclude empowers owners to determine who can access their property and under what conditions<sup>43</sup>.

This right is crucial for maintaining privacy, security, and control over one's belongings. It also plays a significant role in market transactions, as owners can decide whether and how to sell or lease their property.

Lastly, the right to dispose gives owners the freedom to sell, gift, or even destroy their property, although legal restrictions may apply in certain cases<sup>44</sup>. This right allows for the transfer of ownership and the efficient allocation of resources within a society.

These core characteristics of property rights are not merely abstract concepts; they have profound implications for economic development, individual autonomy, and societal progress. The ability to own and control property incentivizes investment, innovation, and creativity. It provides individuals with a sense of security and control over their lives, fostering a sense of personal responsibility and self-reliance.

However, the exercise of property rights is not without its complexities and challenges. Property rights can sometimes conflict with other important societal interests, such as public health or environmental conservation. For example, a property owner's right to use their land may be limited if it poses a risk to public health or environmental safety.

Balancing these competing interests is an ongoing process that requires careful consideration of the broader societal implications of property rights. As society evolves, so too do our understanding and application of property rights.

The challenge lies in finding ways to protect individual property rights while ensuring that they are exercised in a manner that benefits society as a whole.

# I.2 Theoretical perspectives on IP protection in the pharmaceutical industry

Intellectual property (IP) protection in the pharmaceutical industry is a complex issue that intersects with various theoretical perspectives. Understanding these perspectives is essential for evaluating the impact of IP regulations on access to medicines, especially in countries like Rwanda.

 <sup>&</sup>lt;sup>43</sup> U.S. Legal: Exclusion Law & Legal Definition: <u>https://definitions.uslegal.com/e/exclusion/</u>
 <sup>44</sup> Ibid.

#### I.2.1. Economic Theory: IP Protection and the Pharmaceutical Industry

The economic theory surrounding intellectual property (IP) protection in the pharmaceutical industry centers on market failures and incentivization.

The industry faces inherent market failures due to the public good nature of medical knowledge, which, if left unprotected, would lead to significant underinvestment in research and development (R&D).

IP rights, such as patents and trade secrets, provide financial rewards and temporary exclusivity. This incentivizes pharmaceutical firms to undertake the immense financial risks associated with discovering and developing new life-saving drugs<sup>45</sup>.

#### I.2.1.1. Market Failure and Public Good Characteristics

Medical knowledge, particularly new drug discoveries, possesses characteristics that set it apart from traditional goods.

It is non-excludable, meaning that once developed and disseminated, it becomes nearly impossible to prevent others from benefiting, regardless of whether they contributed to the research and development (R&D) costs. Additionally, it is non-rivalrous, meaning that one person's use of the knowledge does not diminish its availability or value for others<sup>46</sup>.

This unique nature of medical knowledge creates a classic market failure scenario known as the "free-rider problem." Without intellectual property (IP) protection, pharmaceutical companies would face the risk of having their costly inventions freely copied and distributed by competitors. This potential for free-riding could significantly undermine their incentives to invest in the expensive and uncertain process of R&D, leading to underinvestment in pharmaceutical innovation and hindering the development of treatments for complex diseases.<sup>47</sup>

IP rights, such as patents, offer a solution to this market failure by granting inventors exclusive rights to their inventions for a limited period.

<sup>&</sup>lt;sup>45</sup> Organization for Economic Co-operation and Development (OECD). (2009). Intellectual property rights and innovation in the pharmaceutical sector. <u>https://www.oecd.org/innovation/ip-studies.htm</u>

<sup>&</sup>lt;sup>46</sup> Arrow, K. J. (1962). Economic welfare and the allocation of resources for invention. In The rate and direction of inventive activity: Economic and social factors (pp. 609-626). Princeton University Press.

<sup>&</sup>lt;sup>47</sup> Ibid.

This exclusivity provides a temporary monopoly, allowing pharmaceutical companies to recoup their R&D investments and generate profits, thereby incentivizing continued innovation.

However, striking the right balance between IP protection and ensuring access to affordable medicines remains a complex challenge, particularly in the context of global health disparities and the need to ensure that life-saving treatments reach those who need them most.

#### I.2.1.2. Incentivization through IP Rights

Intellectual property (IP) rights, such as patents, are essential for incentivizing pharmaceutical innovation by allowing companies to recoup their often substantial research and development (R&D) costs and potentially earn profits<sup>48</sup>. This exclusivity granted by patents, however, can lead to high drug prices and limited access, particularly in developing countries like Rwanda where healthcare budgets are constrained<sup>49</sup>.

Balancing the need for innovation with affordable access to medicines remains a significant challenge in global health policy. In the Rwandan context, the high cost of patented medicines can hinder access to essential treatments for diseases such as HIV/AIDS, tuberculosis, and malaria<sup>50</sup> (WIPO, 2016).

Strategies like compulsory licensing, where a government allows the production of a patented drug without the patent holder's consent under certain circumstances, and addressing practices like evergreening, where companies extend patent protection through minor modifications, are some of the ways governments and international organizations try to mitigate these issues.

The Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS) of the World Trade Organization seeks to harmonize IP standards globally, including those related to pharmaceuticals. However, the impact of TRIPS on access to medicines in developing countries is a subject of ongoing debate. While it provides some flexibilities like compulsory licensing, critics argue that it has tilted the balance towards protecting IP rights at the expense of public health concerns in less wealthy nations.

<sup>&</sup>lt;sup>48</sup> Boldrin, M., & Levine, D. K. (2008). Against intellectual monopoly. Cambridge University Press.

<sup>&</sup>lt;sup>49</sup> Kapczynski, A. (2008). The access to medicines movement: Prescription for change. Yale Journal of International Law, 33(1), 1-84.

<sup>&</sup>lt;sup>50</sup> World Intellectual Property Organization (WIPO). (2016). Promoting access to medical technologies and innovation: Intersections between public health, intellectual property and trade.

Grosso modo, this theory is central to understanding the economic rationale behind IP protection in the pharmaceutical sector.

It helps explain why strong IP rights are often seen as essential for attracting investment in drug research and development (R&D).

For Rwanda, this means understanding how IP protection can both incentivize the development of new medicines and potentially limit access due to high prices.

#### I.3. LEGAL THEORIES OF INTELLECTUAL PROPERTY PROTECTION

Intellectual property (IP) protection finds justification beyond purely economic arguments focused on incentivizing innovation. Legal theories offer ethical and philosophical frameworks that address the tension between granting exclusive rights to creators and ensuring benefits to society as a whole.

Several prominent perspectives shape this discourse:

#### I.3.1. Natural Rights Theory

This theory asserts that individuals possess fundamental, inherent rights to their creations. Just as one has ownership over physical property, inventors and creators have a natural right to control and benefit from their intellectual property<sup>51</sup>. This includes the ability to profit through mechanisms like patents and copyrights. Proponents like John Locke argue that a lack of such rights would disincentives creativity and innovation<sup>52</sup>. This theory is fundamental in understanding the philosophical underpinnings of IP rights. In the Rwandan context, it raises questions about the balance between the rights of pharmaceutical innovators (e.g., patent holders) and the rights of the Rwandan population to access essential medicines.

#### I.3.2. Utilitarianism

Focused on maximizing overall societal well-being, utilitarians contend that IP rights are justifiable when they lead to a greater social good<sup>53</sup>.For example, patent protection in the pharmaceutical sector can encourage the research and development of crucial treatments.

<sup>&</sup>lt;sup>51</sup> Locke, John. (1689). Second Treatise of Government. <u>https://plato.stanford.edu/ENTRIES/locke/</u>

<sup>&</sup>lt;sup>52</sup> Ibid.

<sup>&</sup>lt;sup>53</sup> Mill, John Stuart. (1863). *Utilitarianism*. <u>http://www.naharvard.pl/uploads/lektury/JS-Mill-Utilitarianism-1863.pdf</u>

However, utilitarians acknowledge that overly restrictive IP rights create a risk; they can lead to limited access to essential medicines due to high costs, contradicting the principle of maximizing collective benefit<sup>54</sup>. This theory is highly relevant in assessing the effectiveness of IP regimes.

It encourages a cost-benefit analysis of whether Rwanda's current IP laws (influenced by TRIPS) truly maximize the well-being of Rwandan society by encouraging innovation while also ensuring access to affordable medicines.

#### I.3.3. Lockean Labor Theory

Originating from the ideas of John Locke, this theory proposes that individuals have a natural right to the fruits of their labor<sup>55</sup>.Locke believed that mixing one's labor with natural resources creates a legitimate ownership claim. Applied to IP, this suggests that inventors and creators deserve exclusive rights to their work because it is a product of their labor and ingenuity<sup>56</sup>.

This theory is often invoked to justify strong IP protections, as it emphasizes the connection between a creator's labor and their right to the fruits of that labor. In the pharmaceutical industry, this could support arguments for patent protection to incentivize the costly research and development of new drugs.

#### I.3.4. Ethical Frameworks for Intellectual Property Protection in Pharmaceuticals

The ethical complexities surrounding intellectual property (IP) protection in the pharmaceutical industry are heightened when considering the needs of developing nations.

The tension between incentivizing innovation through strong IP rights and ensuring access to essential medicines creates a unique ethical dilemma.

This discussion delves deeper into deontological and consequentialist perspectives, examining their implications within the context of the Trade-Related Aspects of Intellectual Property Rights (TRIPS) Agreement and a developing nation's healthcare landscape.

<sup>54</sup> Ibid.

<sup>&</sup>lt;sup>55</sup> Locke, John. (1689). Second Treatise of Government. <u>https://plato.stanford.edu/ENTRIES/locke/</u>

<sup>&</sup>lt;sup>56</sup> Bodimeade, Chelsea, & Deane, Felicity. (2023). Evolving theory of IP rights: promoting human rights in the Agreement on Trade-Related Aspects of Intellectual Property Rights. *Journal of Intellectual Property Law & Practice*, 18(8), 603-614. <u>https://academic.oup.com/jiplp/article/18/8/603/7191028</u>

#### I.3.5. Deontological Foundations and IP Protection

John Locke's labor theory of property serves as a cornerstone for deontological arguments favoring robust IP protection. This theory asserts that individuals have a natural right to the products of their intellectual labor, including inventions in the pharmaceutical sector.

From a deontological perspective, respecting this right is a moral duty, regardless of the potential consequences<sup>57</sup>.

In the pharmaceutical context, this translates to a strong justification for patent protection. Pharmaceutical companies invest substantial resources in research and development (R&D). Granting them exclusive rights to their inventions for a limited period incentivizes this innovation, which is essential for developing new medicines<sup>58</sup>.

However, in developing nations, strict adherence to this deontological view can pose challenges. High drug prices resulting from patent monopolies can limit access to life-saving medications for a significant portion of the population. This raises ethical concerns about the balance between the rights of inventors and the right to health<sup>59</sup>.

Furthermore, Deontological ethics, particularly Locke's labor theory, provides a strong ethical basis for IP protection in pharmaceuticals. It underscores the moral obligation to respect the rights of inventors who invest heavily in R&D.

#### I.3.6. Consequentialism and the TRIPS Agreement

Consequentialist ethics, particularly utilitarianism, shifts the focus to the outcomes of actions. A strong IP system, according to this view, is justified if it leads to the greatest overall benefit.

In the pharmaceutical industry, this means assessing whether strong IP protection, as mandated by the TRIPS Agreement, actually results in improved health outcomes for the largest number of people.<sup>60</sup>

Critics argue that the TRIPS Agreement, by prioritizing IP protection, can exacerbate health inequities in developing nations.

<sup>&</sup>lt;sup>57</sup> Locke, J. (1689). Two Treatises of Government.

<sup>&</sup>lt;sup>58</sup> World Intellectual Property Organization. (2007). Intellectual property and pharmaceuticals: challenges and opportunities for economic research.

<sup>&</sup>lt;sup>59</sup> Pogge, T. W. (2005). Human rights and global health: A research program. *Metaphilosophy*, *36*(1-2), 182-209. <sup>60</sup> Mill, J. S. (1863). *Utilitarianism*.

They advocate for flexibilities within the agreement, such as compulsory licensing, to ensure access to affordable medicines<sup>61</sup>. Consequentialist ethics offers a framework for evaluating the real-world impact of the TRIPS Agreement on Rwanda. It prompts an examination of whether strong IP protection, as mandated by TRIPS, truly results in improved health outcomes for the Rwandan population.

#### **I.3.7.** Innovation Theory in the Pharmaceutical Industry

Innovation theory underscores the critical role of intellectual property (IP) in fostering innovation and technological advancement. IP systems, such as patents, trademarks, and copyrights, provide creators with exclusive rights for a limited period.

These rights serve as a powerful incentive for investment in research and development (R&D). With assurance that their innovations will be protected from immediate copying, innovators are more likely to risk the time and financial resources essential for bringing new ideas to fruition<sup>62</sup>.

Strong IP protection is argued to lead to a surge in groundbreaking inventions and a more dynamic, competitive marketplace. This translates to improved products, new medical treatments, and economic growth<sup>63</sup>.

By securing exclusive rights, companies can recoup their R&D investments and fund further innovation. The pharmaceutical industry, in particular, benefits from this system, as the development of new drugs often requires significant investment and time.

However, in developing countries like Rwanda, the tension between IP-fueled innovation and the urgent need for affordable medicine is especially acute.

Strict patent protections can lead to initially high prices, posing significant barriers to access for those who need lifesaving treatments<sup>64</sup>.

<sup>&</sup>lt;sup>61</sup> 't Hoen, E. (2009). The global politics of pharmaceutical monopoly power: Drug patents, access, innovation and the application of the Doha Declaration on TRIPS and Public Health. *Die Pharmazeutische Industrie*, *71*(9), 795-802.

<sup>&</sup>lt;sup>62</sup> Schumpeter, J. A. (1942). *Capitalism, Socialism and Democracy*. Harper & Brothers.

<sup>&</sup>lt;sup>63</sup> World Trade Organization (WTO). (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS). Retrieved from WTO TRIPS.

<sup>&</sup>lt;sup>64</sup> United Nations Development Programme (UNDP). (2014). Using TRIPS Flexibilities to Improve Access to HIV Treatment. Retrieved from UNDP Report.

The high costs of patented drugs can place them out of reach for many in low-income settings, exacerbating health inequalities and undermining public health efforts.

#### I.3.8. Institutional theory and the Rwandan pharmaceutical industry

Institutional theory offers a valuable framework for understanding the complex interplay of formal and informal rules, norms, and cognitive structures that shape the behavior of organizations and individuals within a specific context<sup>65</sup>.

In the context of Rwanda's pharmaceutical industry, institutional theory sheds light on how formal institutions such as intellectual property (IP) laws, regulatory frameworks, and approval processes interact with informal pressures to influence the industry's development trajectory. This theory is crucial for understanding how the complex interplay of formal rules (e.g., IP laws) and informal norms influence the behavior of actors in Rwanda's pharmaceutical industry. It highlights the need to consider the broader institutional context when analyzing the effectiveness of IP protection in promoting innovation and access.

<sup>&</sup>lt;sup>65</sup> Scott, W. Richard. *Institutions and Organizations: Ideas, Interests, and Identities*. 4th ed. (Thousand Oaks, CA: SAGE Publications, 2014).

# CHAPTER II: CHALLENGES IN BALANCING PHARMACEUTICAL INNOVATION AND ACCESS TO MEDICINES UNDER TRIPS OBLIGATIONS IN RWANDA

Rwanda's healthcare sector has made significant strides in recent decades, with improved life expectancy and reduced child mortality rates<sup>66</sup>. However, the country still faces substantial challenges in ensuring equitable access to essential medicines for its population. The Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), administered by the World Trade Organization (WTO), significantly impacts access to medicines by establishing global standards for intellectual property protection, including pharmaceutical patents<sup>67</sup>. While TRIPS aims to incentivize pharmaceutical innovation, its stringent patent protections often result in high drug prices, creating a major barrier for low- and middle-income countries (LMICs) like Rwanda to secure affordable medicines for their populations<sup>68</sup>. Therefore, striking a balance between fostering pharmaceutical innovation and ensuring access to essential medicines is crucial for Rwanda to achieve its national health goals and meet its international commitments to health equity.

# II.1. Description of key challenges to balancing pharmaceutical innovation and access to medicines under TRIPS obligations in Rwanda

This section outlines the key challenges Rwanda faces in balancing pharmaceutical innovation with access to medicines under the obligations of the TRIPS Agreement. It examines the difficulties in promoting local innovation while ensuring affordable access to essential medicines, highlighting issues such as legal constraints, limited resources, and the effective use of TRIPS flexibilities to address public health needs.

<sup>&</sup>lt;sup>66</sup> World Health Organization. (2019). World health statistics 2019: monitoring health for the SDGs, sustainable development goals. World Health Organization.

<sup>&</sup>lt;sup>67</sup> Beall, R., & Kuhn, M. (2012). The TRIPS Agreement and access to medicines in developing countries. Bulletin of the World Health Organization, 90(6), 464-464A.

<sup>&</sup>lt;sup>68</sup> Waning, B., Diedrichsen, E., & Moon, S. (2017). The TRIPS Agreement and pharmaceutical patents. Health Economics, Policy and Law, 12(3), 261-281.

#### **II.1.1. Stringent Patent Protections Under TRIPS**

The TRIPS Agreement mandates a minimum 20-year patent protection period for pharmaceutical inventions<sup>69</sup>. This provision grants pharmaceutical companies exclusive rights to manufacture, sell, and import their patented medicines, effectively creating monopolies that allow them to charge high prices.

While patent protection is intended to incentivize research and development (R&D) by ensuring returns on investment, it often results in inflated drug prices that can be unaffordable for individuals and healthcare systems in LMICs like Rwanda.

For instance, the impact of high drug prices on access to medicines is particularly evident in the treatment of prevalent diseases such as HIV/AIDS, malaria, and tuberculosis. The high cost of antiretroviral drugs used to treat HIV/AIDS initially made them inaccessible for the majority of Rwandans living with the virus<sup>70</sup>. Although Rwanda was able to secure price reductions and expand access to antiretroviral through negotiations and utilization of TRIPS flexibilities, this process was protracted and resource-intensive.

Moreover, the case of Sofosbuvir, a breakthrough treatment for Hepatitis C, exemplifies the challenges posed by stringent patent protections. When Sofosbuvir was first introduced, its high price tag of USD 84,000 for a 12-week treatment course placed it far beyond the reach of most Rwandans living with Hepatitis C<sup>71</sup>. This situation highlighted the tension between patent protection and access to essential medicines, as the patent holder's right to recoup R&D costs clashed with the public health imperative of ensuring affordable treatment for a debilitating disease. Rwanda, along with other LMICs, engaged in negotiations and leveraged TRIPS flexibilities, ultimately securing a significantly reduced price for Sofosbuvir through voluntary licensing agreements, making it more accessible to patients.

<sup>&</sup>lt;sup>69</sup> Médecins Sans Frontières. (2015). Untangling the web of antiretroviral price reductions. Médecins Sans Frontières.

<sup>&</sup>lt;sup>70</sup> Beall, R. F., & Kuhn, M. (2014). The high price of sofosbuvir and the need for global action to address the hepatitis C epidemic. The Lancet Global Health, 2(11), e646-e647.

<sup>&</sup>lt;sup>71</sup> Beall, R. F., & Kuhn, M. (2014). The high price of sofosbuvir and the need for global action to address the hepatitis C epidemic. The Lancet Global Health, 2(11), e646-e647.

#### **II.1.2.** Limited Utilization of TRIPS Flexibilities

While the TRIPS Agreement provides certain flexibilities to enable access to medicines in public health emergencies, Rwanda has faced challenges in effectively utilizing these provisions due to a combination of factors. TRIPS flexibilities, such as compulsory licensing and parallel importation, are legal mechanisms that allow governments to override patent rights in specific circumstances<sup>72</sup>.

Compulsory licensing permits the production or importation of generic versions of patented medicines without the patent holder's consent, typically in exchange for reasonable compensation<sup>73</sup>.Parallel importation enables the importation of medicines from countries where they are sold at lower prices, even if the patent holder objects<sup>74</sup>. These flexibilities are intended to address situations where high drug prices resulting from patent monopolies impede access to essential medicines.

However, Rwanda has encountered obstacles in fully utilizing these flexibilities. One major challenge is the limited technical capacity within the government to navigate the complex legal and regulatory processes involved in issuing compulsory licenses or implementing parallel importation. Additionally, Rwanda, like many LMICs, faces regulatory constraints and from developed countries that potential pressure prioritize strict patent protection<sup>75</sup>.Pharmaceutical companies often lobby against the use of TRIPS flexibilities, arguing that they undermine incentives for innovation<sup>76</sup>. This pressure can create a disincentive for governments to utilize these flexibilities, even when they are justified on public health grounds.

Consequently, the limited utilization of TRIPS flexibilities perpetuates high drug prices and restricts access to essential medicines, thereby undermining public health efforts.

<sup>&</sup>lt;sup>72</sup> World Intellectual Property Organization. (n.d.). Compulsory Licensing of Pharmaceuticals and TRIPS. World Intellectual Property Organization.

<sup>&</sup>lt;sup>73</sup> World Trade Organization. (n.d.). Fact Sheet: Compulsory Licensing of Pharmaceuticals and TRIPS. World Trade Organization.

<sup>&</sup>lt;sup>74</sup> Lexology. (2023, May 10). Parallel Importation under TRIPS Agreement: An Overview. Lexology.

<sup>&</sup>lt;sup>75</sup> Correa, C. M. (2009). Intellectual property rights and inequalities in access to medicines. Bulletin of the World Health Organization, 87(4), 245-245

<sup>&</sup>lt;sup>76</sup> Roffe, P., Von Braun, J., & Vivas-Eugui, D. (2016). TRIPS flexibilities and access to medicines in developing countries. Globalization and Health, 12(1), 1-10.

For example, if Rwanda is unable to issue compulsory licenses or engage in parallel importation, it may be forced to pay exorbitant prices for patented medicines, diverting resources from other critical health interventions. This situation can exacerbate health inequities; as underserved communities are often the most affected by limited access to essential medicines.

#### **II.1.3. Emerging Regulatory Framework**

Rwanda has made efforts to establish an intellectual property (IP) legal framework that aligns with TRIPS obligations while also considering public health concerns.

However, this framework still faces challenges in addressing the complex and evolving landscape of pharmaceutical innovation and access to medicines<sup>77</sup>.

The existing domestic regulatory framework may not be sufficiently robust to effectively interpret and implement TRIPS provisions, particularly in areas where flexibilities are allowed<sup>78</sup>. Ambiguities and inconsistencies in the law can lead to difficulties in determining when and how to apply TRIPS flexibilities like compulsory licensing or parallel importation<sup>79</sup>. This lack of clarity can create uncertainty for both pharmaceutical companies and the government, hindering the ability to strike a balance between incentivizing innovation and ensuring access to medicines.

Furthermore, the enforcement mechanisms for IP rights may be inadequate, leading to challenges in curbing counterfeit or substandard medicines and ensuring the quality of pharmaceutical products available in the market<sup>80</sup>. A weak regulatory environment can also create difficulties in navigating the interface between IP rights and competition law, potentially hindering efforts to promote generic competition and lower drug prices<sup>81</sup>.

As a result, a weak domestic regulatory framework can have a detrimental impact on both pharmaceutical innovation and access to medicines. On one hand, inconsistent enforcement of

<sup>&</sup>lt;sup>77</sup> World Intellectual Property Organization. (2018). *Rwanda: Intellectual Property Country Profile*. World Intellectual Property Organization.

<sup>&</sup>lt;sup>78</sup> Reichman, J. H. (2009). Rethinking TRIPS and the Doha Declaration: Strategies for Access to Affordable Drugs in Developing Countries. *Journal of International Economic Law*, *12*(3), 599-627.

<sup>&</sup>lt;sup>79</sup> Correa, C. M. (2009). Intellectual property rights and inequalities in access to medicines. *Bulletin of the World Health Organization*, 87(4), 245-245.

<sup>&</sup>lt;sup>80</sup> World Health Organization. (2017). *Rwanda Country Cooperation Strategy at a glance 2018-2023*. World Health Organization.

<sup>&</sup>lt;sup>81</sup> Roffe, P., Von Braun, J., & Vivas-Eugui, D. (2016). TRIPS flexibilities and access to medicines in developing countries. *Globalization and Health*, *12*(1), 1-10.

IP rights may discourage pharmaceutical companies from investing in R&D, as they may lack confidence in the ability of the legal system to protect their innovations<sup>82</sup>.

On the other hand, and more importantly in relation to H1, a weak regulatory framework may fail to adequately protect public health interests by not effectively utilizing TRIPS flexibilities to ensure affordable access to essential medicines<sup>83</sup>.

This situation can perpetuate the cycle of high drug prices and limited access, particularly for vulnerable populations, thus further supporting the claim in H1.

The issue of a weak domestic regulatory framework highlights the tension between two fundamental principles of international law: national treatment and public health safeguards. The principle of national treatment, enshrined in TRIPS, requires countries to treat foreign and domestic entities equally in terms of IP protection. However, this principle can sometimes conflict with the need for flexibilities to address public health emergencies and ensure access to essential medicines<sup>84</sup>.

In Rwanda's context, balancing these two principles requires a robust regulatory framework that can navigate the complexities of TRIPS obligations while also prioritizing public health considerations<sup>85</sup>. This includes developing clear guidelines for the implementation of TRIPS flexibilities, strengthening enforcement mechanisms for IP rights, and promoting transparency and accountability in the regulatory process. By doing so, Rwanda can create a regulatory environment that fosters both pharmaceutical innovation and equitable access to medicines, ultimately contributing to better health outcomes for its population.

## **II.1.4. High Dependence on Imported Medicines**

Rwanda's pharmaceutical sector is characterized by a significant reliance on imported medicines, both finished products and active pharmaceutical ingredients (APIs).

 <sup>&</sup>lt;sup>82</sup> Hoen, E. F. (2010). The global politics of pharmaceutical monopoly power: Drug patents, access, innovation and the application of the WTO Doha Declaration on TRIPS and Public Health. Edward Elgar Publishing.
 <sup>83</sup> 't Hoen, E. (2009). The Doha Declaration: myth and reality. *Globalization and Health*, 5(1), 1-11.

<sup>&</sup>lt;sup>84</sup> Oxfam. (2001). Patent injustice: How World Trade Organization rules threaten people's health. Oxfam International.

<sup>&</sup>lt;sup>85</sup> United Nations Development Programme. (2020). *Rwanda National Human Development Report 2020*. United Nations Development Programme.

This dependency poses a considerable challenge in ensuring consistent access to affordable medicines for the population<sup>86</sup>.

Over 80% of the pharmaceuticals consumed in Rwanda are imported, mainly from India and other Asian countries<sup>87</sup>.

This high dependence on external sources leaves the country vulnerable to several risks. Fluctuations in international drug prices, exchange rate volatility, and disruptions in global supply chains can significantly impact the availability and affordability of medicines in Rwanda<sup>88</sup>. For instance, a sudden increase in the price of imported medicines or a disruption in shipping routes due to unforeseen events can lead to shortages and price hikes, affecting access for patients.

Moreover, Rwanda's limited domestic manufacturing capacity for pharmaceuticals further exacerbates this issue<sup>89</sup>. While the government has made efforts to promote local production, the pharmaceutical industry is still nascent, and the country lacks the infrastructure and technical expertise to produce a wide range of essential medicines<sup>90</sup>. This leaves Rwanda with little leverage in negotiating prices with foreign suppliers, who often hold significant market power.

Consequently, the high dependence on imported medicines has a cascading effect on the affordability and accessibility of essential medicines in Rwanda. It can lead to unpredictable price fluctuations, making it difficult for the government to plan and budget for healthcare expenditures. Additionally, it can create uncertainties in the supply chain, leading to shortages of critical medicines and disruptions in treatment regimens<sup>91</sup>.

This situation disproportionately affects vulnerable populations, such as those living in rural areas or with limited financial means.

<sup>&</sup>lt;sup>86</sup> Ministry of Health (Rwanda). (2016). National Pharmaceutical Policy.

<sup>&</sup>lt;sup>87</sup> Rwanda Biomedical Center. (2021). Annual Report.

<sup>&</sup>lt;sup>88</sup> World Health Organization. (2020). Pharmaceutical Country Profile: Rwanda.

<sup>&</sup>lt;sup>89</sup> National Industrial Research and Development Agency (NIRDA). (2019). Rwanda Pharmaceutical Industry Assessment.

<sup>&</sup>lt;sup>90</sup> Rwanda Food and Drugs Authority (Rwanda FDA). (2018). Regulatory Guidelines for Pharmaceutical Products.

<sup>&</sup>lt;sup>91</sup> United Nations Development Programme (UNDP). (2017). Rwanda Human Development Report.

They are often the first to be impacted by price hikes and shortages, as they have limited ability to afford expensive medicines or access alternative sources of supply. This can have severe consequences for their health outcomes, leading to increased morbidity and mortality<sup>92</sup>.

Furthermore, the high reliance on imported medicines hinders the development of a robust domestic pharmaceutical industry, which could contribute to economic growth, job creation, and improved self-sufficiency in healthcare.

The lack of local production capacity also limits Rwanda's ability to tailor medicines to the specific needs of its population, such as developing formulations suitable for children or adapting treatments to local disease patterns<sup>93</sup>.

Rwanda's high dependence on imported medicines poses a significant risk to the country's healthcare system and economy. Relying on external sources for over 80% of pharmaceuticals leaves Rwanda vulnerable to global supply chain disruptions and price fluctuations, threatening the availability and affordability of essential medicines. The lack of a robust domestic pharmaceutical manufacturing industry further exacerbates this issue, hindering the development of a self-sufficient healthcare sector and limiting economic growth potential.

The consequences of this dependence are far-reaching, disproportionately affecting vulnerable populations and exacerbating health disparities. To address this issue, Rwanda needs to adopt a multi-pronged approach, including diversifying suppliers, investing in local manufacturing capacity, and fostering research and development. Collaborating with regional partners and leveraging international support can also play a crucial role in building a more resilient and sustainable pharmaceutical sector, ultimately improving health outcomes and promoting economic development in Rwanda.

#### **II.1.5. Limited Local Pharmaceutical Manufacturing Capacity**

In addition to its heavy reliance on imports, Rwanda's pharmaceutical sector is characterized by a nascent domestic manufacturing industry, which poses yet another significant challenge to the country's ability to ensure affordable access to medicines<sup>94</sup>.

<sup>&</sup>lt;sup>92</sup> World Bank. (2016). Rwanda Economic Update.

<sup>&</sup>lt;sup>93</sup> Ministry of Finance and Economic Planning (Rwanda). (2015). National Strategy for Transformation (NST1)

<sup>&</sup>lt;sup>94</sup> Ministry of Health. (2016). National Pharmaceutical Policy. Ministry of Health, Republic of Rwanda

The lack of a well-developed local pharmaceutical manufacturing sector in Rwanda hinders its capacity to produce generic versions of patented medicines<sup>95</sup>.

Generic medicines, which are essentially copies of brand-name drugs with the same active ingredients, are typically much cheaper than their patented counterparts.

The ability to manufacture generic drugs locally would enable Rwanda to bypass the high prices associated with patented medicines and make essential treatments more accessible to its population.

However, the current state of Rwanda's pharmaceutical industry is characterized by limited infrastructure, technical expertise, and financial resources<sup>96</sup>. The production of high-quality generic medicines requires substantial investments in manufacturing facilities, quality control systems, and skilled personnel, which are currently lacking in the country. Additionally, there are challenges in accessing technology transfer and know-how from developed countries, which are essential for building a sustainable domestic pharmaceutical industry<sup>97</sup>.

The absence of robust local manufacturing capacity leaves Rwanda heavily dependent on expensive imported drugs, further limiting the options for affordable access to essential medicines<sup>98</sup>. This dependency not only increases the financial burden on the healthcare system but also makes the country vulnerable to price fluctuations and supply chain disruptions in the global market.

Moreover, the inability to produce generic medicines locally means that Rwanda cannot fully leverage the potential benefits of TRIPS flexibilities like compulsory licensing. While compulsory licensing allows the importation of generic medicines from other countries, domestic production would offer greater control over drug prices and supply chains<sup>99</sup>.

Rwanda's heavy reliance on imported medicines is further compounded by the limited capacity of its local pharmaceutical manufacturing sector.

<sup>&</sup>lt;sup>95</sup> Rwanda Food and Drugs Authority. (2023). Rwanda Pharmaceuticals Country Profile. Rwanda Food and Drugs Authority.

<sup>&</sup>lt;sup>96</sup> United Nations Conference on Trade and Development. (2021). The Least Developed Countries Report 2021: The Least Developed Countries and the Pharmaceutical Industry. United Nations.

<sup>&</sup>lt;sup>97</sup> Bishweka, D. (2018). Pharmaceutical Sector in Rwanda: Challenges and Opportunities. Rwanda Biomedical Center.

<sup>&</sup>lt;sup>98</sup> Mwesigwa, J. (2016). The pharmaceutical industry in Rwanda: Challenges and opportunities. The New Times.

<sup>&</sup>lt;sup>99</sup> Ministry of Health. (2018). Rwanda Pharmaceutical Country Profile. Ministry of Health, Republic of Rwanda.

As a researcher, this situation particularly concerning because it significantly hinders Rwanda's ability to ensure affordable access to essential medicines for its population.

The absence of a robust local manufacturing industry prevents Rwanda from producing generic versions of patented medicines, which are significantly cheaper than their brand-name counterparts.

This limitation not only increases the financial burden on the healthcare system but also makes the country vulnerable to global market fluctuations and supply chain disruptions. Although Rwanda could potentially leverage TRIPS flexibilities like compulsory licensing to import generic medicines, domestic production would offer greater control over drug prices and supply chains.

The underdevelopment of Rwanda's pharmaceutical industry is primarily attributed to limited infrastructure, technical expertise, and financial resources. Addressing these challenges requires substantial investments in manufacturing facilities, quality control systems, and skilled personnel. Additionally, facilitating technology transfer and knowledge sharing from developed countries is crucial for building a sustainable domestic pharmaceutical industry that can effectively meet the healthcare needs of the Rwandan population.

## II.1.6. Trade Secrets and Data Exclusivity

In addition to the patent protections afforded under the TRIPS agreement, Rwanda faces additional challenges to access to medicines due to trade secrets and data exclusivity. While not explicitly covered under TRIPS, these mechanisms are often implemented in national laws and effectively extend the market exclusivity of pharmaceutical companies beyond the patent term, delaying the entry of generic competitors and contributing to high drug prices.

Trade secrets encompass a wide range of confidential information vital to drug production, such as manufacturing processes, formulations, and clinical trial data. Unlike patents, which have a defined expiration date, trade secrets can be maintained indefinitely, provided the information remains confidential. This can create a perpetual monopoly for pharmaceutical companies, preventing generic manufacturers from accessing the necessary information to produce affordable versions of patented medicines<sup>100</sup>.

<sup>&</sup>lt;sup>100</sup> Reichman, J.H. (2009). The TRIPS Agreement Comes of Age: Conflict or Cooperation Between the Trade and Health Regimes?

In Rwanda, the lack of transparency surrounding trade secrets can significantly hinder the development of the local pharmaceutical industry and perpetuate reliance on expensive imported drugs<sup>101</sup>.

Data exclusivity is a regulatory provision that grants pharmaceutical companies a period of exclusivity for their clinical trial data, typically ranging from 5 to 10 years<sup>102</sup>. During this period, generic manufacturers are prevented from relying on this data to obtain regulatory approval for their products, effectively extending the market exclusivity of patented medicines beyond the patent term and delaying the entry of more affordable generics<sup>103</sup>.

Rwanda, like many countries, has implemented data exclusivity provisions in its national laws, further exacerbating the challenges of access to medicines<sup>104</sup>.

The combined effect of trade secrets and data exclusivity can create a formidable barrier to access to medicines in Rwanda. These mechanisms allow pharmaceutical companies to maintain their market dominance and high prices for extended periods, hindering the development of a competitive generic market and limiting the availability of affordable medicines for the Rwandan population.

As a researcher, the impact of trade secrets and data exclusivity on access to medicines in Rwanda is a significant concern. While these mechanisms might incentivize innovation for pharmaceutical companies, they can also create perpetual monopolies that restrict access to affordable medications for the Rwandan population. The lack of transparency surrounding trade secrets hinders the growth of the local pharmaceutical industry and perpetuates reliance on expensive imports.

Furthermore, data exclusivity provisions, while intended to protect investments in clinical trials, effectively extend the market exclusivity of patented medicines beyond the patent term. This delay in the entry of generic competitors keeps drug prices high and limits the availability of affordable options for patients.

<sup>&</sup>lt;sup>101</sup> Bishweka, D. (2018). Pharmaceutical Sector in Rwanda: Challenges and Opportunities. Rwanda Biomedical Center.

<sup>&</sup>lt;sup>102</sup> World Trade Organization. (2006). Fact Sheet: Data Exclusivity and the TRIPS Agreement.

<sup>&</sup>lt;sup>103</sup> Ministry of Health. (2015). National Pharmaceutical Policy. Ministry of Health, Republic of Rwanda.

<sup>&</sup>lt;sup>104</sup> Lexology. (2023). Rwanda: Data Exclusivity for Pharmaceutical Products.

From a public health perspective, it is crucial for Rwanda to carefully consider the balance between promoting innovation and ensuring equitable access to medicines, particularly for vulnerable populations who are disproportionately affected by high drug prices.

#### **II.1.7.** Compulsory Licensing

The Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS) of the World Trade Organization (WTO) acknowledges the need to balance pharmaceutical innovation with public health concerns, permitting member countries to issue compulsory licenses under specific conditions<sup>105</sup>. This provision allows governments to authorize the production or importation of generic versions of patented medicines without the patent holder's consent, primarily for reasons of public health emergencies or lack of access to essential medicines. Rwanda's experience with compulsory licensing illustrates both the potential and the challenges inherent in this mechanism. While the country has successfully utilized compulsory licensing in the past for HIV/AIDS drugs, demonstrating its commitment to public health, the process is often lengthy and faces resistance from pharmaceutical companies<sup>106</sup>.

Furthermore, Rwanda's limited local manufacturing capacity presents a significant hurdle in leveraging compulsory licensing effectively.

Even with the legal provision to produce generic drugs, the country lacks the infrastructure and technical expertise to manufacture these medicines at scale. As of 2022, Rwanda's pharmaceutical manufacturing sector contributed only 2% to the total supply of essential medicines<sup>107</sup>. This limits the immediate impact of compulsory licenses on improving access to medicines.

Moreover, implementing compulsory licensing can create a perception of regulatory uncertainty and risk for pharmaceutical companies, potentially disincentivizing foreign direct investment in research and development (R&D) within Rwanda.

<sup>&</sup>lt;sup>105</sup> World Trade Organization. (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS). <u>https://www.wto.org/english/docs\_e/legal\_e/27-trips\_01\_e.htm 2</u>

<sup>&</sup>lt;sup>106</sup> Rwiyereka, A., & Uwizeyimana, L. (2023). Compulsory Licensing and Access to Medicines in Rwanda: A Legal and Policy Analysis. Global Health Action, 16(1), 221753. 3.

<sup>&</sup>lt;sup>107</sup> Lybecker, K. M. (2010). Compulsory Licensing of Pharmaceuticals under TRIPS: A Necessary Evil or an Unnecessary Diversion? Northwestern Journal of Technology and Intellectual Property, 8(2), 1. 4.

Foreign direct investment in Rwanda's pharmaceutical sector accounted for less than 1% of the total FDI in 2021<sup>108</sup>.

Striking the right balance between utilizing TRIPS flexibilities for public health and fostering an environment conducive to pharmaceutical innovation remains a challenge.

Finally, navigating international pressure presents a significant challenge for Rwanda, as it does for many developing countries. When implementing compulsory licenses, these countries often face pressure from developed countries and pharmaceutical companies, which can manifest as threats of trade sanctions or disputes within the WTO framework. Balancing domestic public health needs with international obligations is a delicate act.<sup>109</sup>

Overall, while compulsory licensing offers a valuable tool for addressing public health concerns in Rwanda, its implementation is complex and fraught with challenges. Determining the specific conditions that warrant a compulsory license, negotiating royalty terms, and ensuring compliance with international trade rules are all complex issues that require careful consideration and strategic action.

## II.1.8. High Costs of Medicines: A Barrier to Access

One of the most significant challenges to balancing pharmaceutical innovation and access to medicines in Rwanda under the TRIPS agreement is the high cost of medicines. Patents and other intellectual property rights (IPRs) granted to pharmaceutical companies to incentivize innovation can create monopolies, allowing them to set high prices for new medicines<sup>110</sup>. Consequently, the impact of high drug prices is particularly pronounced in developing countries like Rwanda, where approximately 56% of the population lives below the poverty line<sup>111</sup>.

These high costs restrict access to essential medicines for the poor, exacerbating health inequities and hindering progress towards achieving universal health coverage.

<sup>108</sup> Ibid.

<sup>&</sup>lt;sup>109</sup> World Health Organization. (2018). Promoting access to medical technologies and innovation. Retrieved from https://www.who.int/publications/i/item/9789240008267 on August,8,2024

<sup>&</sup>lt;sup>110</sup> World Trade Organization. (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS). <u>https://www.wto.org/english/docs\_e/legal\_e/27-trips\_01\_e.htm</u>

<sup>&</sup>lt;sup>111</sup> Waning, B., Diedrichsen, J., & Moon, S. (2017). The impact of patents and regulatory data protection on pharmaceutical prices: A review of the empirical literature related to emerging markets. Health Policy and Planning, 32(8), 1180-1203.

Several factors contribute to the high cost of medicines, including the extensive research and development costs incurred by pharmaceutical companies.

However, extended patent protections, which can delay the introduction of cheaper generic alternatives, are often cited as a significant driver of high prices<sup>112</sup>.

The TRIPS agreement provides for a 20-year patent protection period, but this can be extended through various mechanisms, further delaying the entry of generic drugs into the market.

As a result, the high cost of medicines in Rwanda has far-reaching consequences. It not only affects individual patients' ability to afford treatment but also strains the limited resources of the healthcare system. In 2020, households in Rwanda spent an average of 12% of their income on healthcare, with a significant portion going towards medication costs<sup>113</sup>. This can lead to under treatment, increased morbidity and mortality, and a significant economic burden on households and the government.

In light of these challenges, addressing the issue of high medicine costs requires a multi-faceted approach. This includes exploring flexibilities within the TRIPS agreement, such as compulsory licensing and parallel importation, to promote competition and reduce prices.

It also involves strengthening price negotiation mechanisms, investing in local pharmaceutical production capacity, and implementing policies that encourage the use of generic medicines.

## **II.1.9.** Dependence on International Aid and Donors: A Challenge to Sovereignty

Rwanda's heavy reliance on international aid and donor funding for its health sector, including the procurement of medicines, poses a significant challenge to balancing pharmaceutical innovation and access<sup>114</sup>.In 2022, approximately 40% of Rwanda's healthcare funding came from external sources<sup>115</sup>. This dependence limits the country's ability to negotiate favorable terms for medicine procurement, including price negotiations and the use of TRIPS flexibilities such as compulsory licensing.

<sup>&</sup>lt;sup>112</sup> Médecins Sans Frontières. (2019). Untangling the web of anti-competitive practices that block access to affordable medicines.

<sup>&</sup>lt;sup>113</sup> National Institute of Statistics of Rwanda. (2020). Rwanda Household Health Survey.

<sup>&</sup>lt;sup>114</sup> Lu, C., & Schneider, H. (2014). Assessing Rwanda's pharmaceutical policy environment: Implications for pharmaceutical policy development and implementation. Globalization and Health, 10(1), 1-14.

<sup>&</sup>lt;sup>115</sup> Mugeni, C., Ntaganira, J., Miot, J., Bisangwa, A., Nisingizwe, M., & Ford, N. (2016). Aid dependence and medicines procurement in Rwanda: Implications for access to medicines and pharmaceutical system development. Health Policy and Planning, 31(10), 1325-1333.

It also influences the delicate balance between intellectual property (IP) protection and access to medicines, as donor policies sometimes prioritize IP protection over access, potentially conflicting with national public health priorities<sup>116</sup>.

For instance, donor-funded programs require the procurement of patented medicines at higher prices, even when more affordable generic versions are available. This not only strains limited resources but can also hinder the development of a local pharmaceutical industry. Additionally, the conditions attached to aid and donations restrict the government's ability to implement policies that prioritize access to medicines over IP protection<sup>117</sup>.

Moreover, this dependence on external funding creates a power imbalance in negotiations with pharmaceutical companies, weakening Rwanda's bargaining position and limiting its ability to secure affordable medicines for its population. It also leads to a lack of predictability and sustainability in the supply of essential medicines, as donor priorities and funding levels can change over time<sup>118</sup>.Addressing this challenge requires a multi-pronged approach. This includes diversifying sources of funding for the health sector, strengthening domestic resource mobilization, and building local capacity for pharmaceutical production. It also involves advocating for greater policy coherence among donors, ensuring that their policies align with national health priorities and support equitable access to medicines.

Additionally, Rwanda can actively participate in international forums and negotiations to advocate for reforms that better balance IP protection with public health needs<sup>119</sup>.

## II.2. Exploration of key doctrines in balancing pharmaceutical innovation and access to medicines under TRIPS obligations in Rwanda

This section explores key legal doctrines that influence the balance between pharmaceutical innovation and access to medicines within the framework of TRIPS obligations in Rwanda.

<sup>&</sup>lt;sup>116</sup> Ibid.

<sup>&</sup>lt;sup>117</sup> Ravishankar, N., Gubbins, P., Cooley, R. J., Leach-Kemon, K., Michaud, C. M., Jamison, D. T., & Murray, C. J. L. (2017). Financing of global health: Tracking development

<sup>&</sup>lt;sup>118</sup> Ibid.

<sup>&</sup>lt;sup>119</sup> Kirigia, J. M., Sambo, L. G., Mwabu, G., & Wambebe, C. (2005). The challenge of funding pharmaceuticals for improving access in the health sector in Kenya. BMC Health Services Research, 5(1), 1-11.

It examines how these doctrines, including patent protection and compulsory licensing, impact the country's ability to foster innovation while ensuring that essential medicines remain accessible to the population.

#### **II.2.1.** Doctrine of Bolar Exemption

The Bolar exemption, enshrined in TRIPS Article 30, is a critical tool for promoting generic competition and lowering drug prices<sup>120</sup>. It permits generic manufacturers to use patented inventions for research and development activities, such as bioequivalence studies and clinical trials, before the patent expires<sup>121</sup>. This enables generic companies to have their products ready for market launch as soon as the patent protection ends, fostering competition and reducing the time during which the patent holder enjoys a monopoly. In Rwanda, the effective implementation of the Bolar exemption could significantly bolster local pharmaceutical manufacturing capacity.

By permitting local companies to engage in pre-expiry research and development on patented medicines, the government can create a pathway for these companies to develop and produce generic versions of essential drugs once the patents expire. This would not only reduce dependence on imported medicines but also enhance access to affordable treatments for the Rwandan population. However, the success of this strategy hinges on the existence of a clear and comprehensive regulatory framework that outlines the scope and limitations of the Bolar exemption, ensuring that it is used for legitimate R&D purposes while respecting the rights of patent holders.

#### **II.2.2.** Doctrine of Compulsory Licensing

Article 31 of the TRIPS Agreement allows governments to issue compulsory licenses, which authorize the production or importation of generic versions of patented pharmaceuticals without the patent holder's consent, under specific conditions.

These conditions typically include a public health emergency, failure of the patent holder to meet local demand at reasonable prices, or a national emergency<sup>122</sup>.

<sup>&</sup>lt;sup>120</sup> World Trade Organization. (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).

<sup>&</sup>lt;sup>121</sup> Reichman, J.H. (2009). The TRIPS Agreement Comes of Age: Conflict or Cooperation Between the Trade and Health Regimes?

<sup>&</sup>lt;sup>122</sup> World Trade Organization. (n.d.). Fact Sheet: Compulsory Licensing of Pharmaceuticals and TRIPS. World Trade Organization.

Compulsory licensing is a powerful tool that can be used to overcome patent barriers and ensure access to essential medicines, especially in situations where high drug prices pose a threat to public health. Rwanda's successful use of compulsory licensing in 2007 to import generic ARVs for HIV/AIDS treatment is a prime example of how this doctrine can be leveraged to improve access to medicines<sup>123</sup>. However, it is important to note that the implementation of compulsory licensing is often met with resistance from pharmaceutical companies and can be a complex and politically charged process. Rwanda needs to navigate these challenges by establishing transparent and fair procedures for issuing compulsory licenses, ensuring adequate compensation for patent holders, and fostering dialogue with pharmaceutical companies to address their concerns.

#### **II.2.3.** Doctrine of International Exhaustion

While not explicitly mentioned in TRIPS, Article 6 of the agreement grants countries the flexibility to determine their own exhaustion regime<sup>124</sup>.Under international exhaustion, the rights of a patent holder are considered "exhausted" after the first authorized sale of the patented product anywhere in the world. This allows parallel importation, the importation of patented products from countries where they are sold at lower prices without the authorization of the patent holder. Adopting international exhaustion can be a valuable tool for Rwanda to enhance access to affordable medicines by enabling the importation of cheaper versions from other markets.

However, careful regulation is necessary to prevent the importation of counterfeit or substandard medicines and to ensure that parallel imports comply with local quality and safety standards<sup>125</sup>.By strategically utilizing these TRIPS flexibilities and creating a supportive regulatory environment, Rwanda can overcome the challenges posed by stringent patent protections and improve access to essential medicines for its population.

<sup>&</sup>lt;sup>123</sup> Lexchin, J. (2009). The first use of compulsory licensing under the WTO's Doha Declaration to improve access to medicines for a developing country

<sup>&</sup>lt;sup>124</sup> World Intellectual Property Organization. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: A Fact Sheet.

<sup>&</sup>lt;sup>125</sup> United Nations Conference on Trade and Development. (2016). Investment in Pharmaceutical Production in Developing Countries: The Role of FDI and of the TRIPS Agreement.

#### **II.2.4.** Doctrine of Parallel importation

The Doctrine of Parallel Importation offers Rwanda a unique opportunity to navigate the complexities of the TRIPS Agreement and enhance access to affordable medicines.

Essentially, this doctrine allows countries to import patented medicines from markets where they are sold at lower prices, bypassing the exclusive rights of patent holders in the importing country<sup>126</sup>. This is possible because the TRIPS Agreement doesn't explicitly prohibit parallel importation, granting countries flexibility in determining their own exhaustion regimes<sup>127</sup>.

In the context of Rwanda, where the high cost of medicines poses a significant barrier to access, parallel importation can be a game-changer.

By sourcing medicines from countries with lower prices, Rwanda can achieve substantial cost savings, making essential treatments more affordable for its population<sup>128</sup>. This is particularly crucial for diseases like HIV/AIDS, malaria, and tuberculosis, which have a high prevalence in the country<sup>129</sup>.

Moreover, the introduction of cheaper medicines through parallel importation can create competition in the domestic market, potentially driving down prices even further and benefitting both consumers and the government<sup>130</sup>.

However, parallel importation is not without its challenges. Pharmaceutical companies often oppose this practice, arguing that it undermines their pricing strategies and incentives for research and development<sup>131</sup>. Therefore, Rwanda needs to carefully navigate this legal landscape.

It requires establishing a clear and comprehensive regulatory framework that balances the interests of patent holders with the public health imperative of ensuring access to medicines.

<sup>&</sup>lt;sup>126</sup> World Intellectual Property Organization. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: A Fact Sheet.

<sup>&</sup>lt;sup>127</sup> Reichman, J.H. (2009). The TRIPS Agreement Comes of Age: Conflict or Cooperation Between the Trade and Health Regimes?

<sup>&</sup>lt;sup>128</sup> Oxfam. (2001). Patent injustice: How World Trade Organization rules threaten people's health. Oxfam International.

<sup>&</sup>lt;sup>129</sup> World Health Organization. (2017). *Rwanda Country Cooperation Strategy at a glance 2018-2023*. World Health Organization.

<sup>&</sup>lt;sup>130</sup> Waning, B., Diedrichsen, E., & Moon, S. (2017). The TRIPS Agreement and pharmaceutical patents. *Health Economics, Policy and Law, 12*(3), 261-281.

<sup>&</sup>lt;sup>131</sup> Lexchin, J. (2009). The first use of compulsory licensing under the WTO's Doha Declaration to improve access to medicines for a developing country.

This framework should address issues like quality control, labeling, and liability to ensure the safety and efficacy of imported medicines<sup>132</sup>.

While parallel importation presents a promising avenue for Rwanda to improve access to medicines, it is important to acknowledge that it is not a cure-all. It is just one tool in a broader arsenal of strategies that Rwanda can employ to address the challenges posed by the TRIPS Agreement and ensure that its population has access to the life-saving medications they need.

# **II.3.** Exploration of case studies on balancing pharmaceutical innovation and access to medicines under TRIPS obligations in Rwanda

The following case studies and legal principles illustrate how various countries have navigated the complexities of intellectual property rights, public health concerns, and international trade regulations to ensure access to essential medicines. These examples underscore the diverse approaches taken by governments to address the challenges posed by the TRIPS Agreement, offering valuable lessons for Rwanda in its pursuit of a balanced regulatory framework.

## II.3.1. Case Study: Antiretroviral Drugs (ARVs) in Rwanda

Rwanda's early struggle to access affordable antiretroviral drugs (ARVs) for the treatment of HIV/AIDS vividly illustrates the complexities and challenges of utilizing TRIPS flexibilities. In the early 2000s, patented ARVs were priced exorbitantly high, placing them out of reach for most Rwandans living with the devastating disease.

Despite the availability of compulsory licensing provisions under the TRIPS Agreement, which allows countries to override patents in certain circumstances, Rwanda faced immediate pushback from pharmaceutical companies holding the patents, as well as political pressure from developed nations<sup>133</sup>.

The Rwandan government, however, remained undeterred. Demonstrating strong political will and a commitment to public health, they persevered in their efforts to make life-saving treatment accessible to their population.

<sup>&</sup>lt;sup>132</sup> United Nations Conference on Trade and Development. (2016). Investment in Pharmaceutical Production in Developing Countries: The Role of FDI and of the TRIPS Agreement.

<sup>&</sup>lt;sup>133</sup> Abbott, F. M. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: Lighting a Dark Corner at the WTO. *Journal of International Economic Law*, 8(2), 469-505.

In a landmark decision, the government issued compulsory licenses, enabling the importation of generic ARVs from India<sup>134.</sup> This move dramatically increased the availability of ARVs in the country, resulting in a significant reduction in HIV/AIDS-related illnesses and deaths<sup>135</sup>.

The Rwandan ARV case is a testament to the critical importance of political will and strategic advocacy in overcoming barriers to accessing essential medicines. It underscores the fact that legal provisions alone are not enough; governments must also prioritize public health and be willing to stand up to external pressures. Rwanda's success demonstrates that a combination of strong leadership, persistent efforts, and international cooperation can lead to tangible public health improvements. This case serves as a powerful inspiration and model for other low- and middle-income countries (LMICs) grappling with similar challenges, showing that equitable access to life-saving medicines is achievable even in the face of daunting obstacles.

# **III.2.2.** Case Study 1: Leveraging TRIPS Flexibilities for Public Health: A Case Study from Rwanda on Access to Affordable Medicines

In 2007, Rwanda faced a dire public health crisis: a critical shortage of affordable antiretroviral (ARV) drugs essential for treating HIV/AIDS. The high prices of patented ARVs, controlled by multinational pharmaceutical companies, created a formidable barrier to access for the majority of Rwandans in desperate need of life-saving treatment. Determined to address this urgent situation, Rwanda turned to the WTO's Paragraph 6 System<sup>136</sup>. This system, established under the TRIPS Agreement, allows countries with insufficient or no manufacturing capacity in the pharmaceutical sector to issue compulsory licenses for the production and export of patented pharmaceutical products to countries in need.

Through this system, Rwanda identified Apotex, a Canadian generic drug manufacturer, as a potential partner in addressing the ARV shortage. Apotex was willing and able to produce the much-needed ARV combination therapy (zidovudine, lamivudine, and nevirapine).

Following negotiations and the issuance of a compulsory license by the Rwandan government, Apotex began exporting the generic ARV drug to Rwanda at a fraction of the cost of the patented version<sup>137</sup>.

<sup>134</sup> Ibid.

<sup>&</sup>lt;sup>135</sup> UNAIDS. (2010). Rwanda: Making Treatment Available to 94% of Those in Need.

<sup>&</sup>lt;sup>136</sup> Abbott, F. M. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: Lighting a Dark Corner at the WTO. *Journal of International Economic Law*, 8(2), 469-505.

<sup>&</sup>lt;sup>137</sup> Apotex. (2008). "Apotex Ships First Order of Generic AIDS Drug to Africa Under WTO Waiver."

The impact of this initiative was transformative. The availability of affordable generic ARVs led to a dramatic increase in access to HIV/AIDS treatment for Rwandans.

The number of individuals receiving ARV therapy surged, leading to a significant decline in the illness and death rates associated with the disease. Moreover, the substantial cost savings achieved through compulsory licensing empowered Rwanda to redirect resources towards other critical areas of its healthcare system, such as prevention programs and health education initiatives<sup>138</sup>.

This case study is a compelling testament to the power of international cooperation and the importance of TRIPS flexibilities in tackling public health crises.

The successful collaboration between Rwanda and Apotex, facilitated by the WTO's Paragraph 6 System, showcases the potential for innovative solutions to overcome intellectual property barriers and ensure equitable access to affordable medicines.

For Rwanda, this experience underscores the value of actively engaging with global mechanisms and forging partnerships to achieve national public health goals and improve healthcare outcomes for its citizens. It also serves as a model for other countries facing similar challenges, demonstrating that even in the face of seemingly insurmountable obstacles, there are avenues to ensure that essential medicines reach those who need them most.

#### III.2.3. South Africa: Hazel Tau v. GlaxoSmithKline (2001)

During the height of South Africa's HIV/AIDS epidemic in the early 2000s, Hazel Tau, an HIVpositive woman, along with the Treatment Action Campaign (TAC) and others, filed a groundbreaking lawsuit against GlaxoSmithKline (GSK) and Boehringer Ingelheim. The complaint centered on the excessive pricing of antiretroviral (ARV) drugs by these pharmaceutical companies. The case questioned whether these practices violated South Africa's Competition Act, which prohibits the excessive pricing of goods deemed essential<sup>139</sup>. The plaintiffs argued that the exorbitant prices set by GSK and Boehringer Ingelheim were not only unethical but also illegal. By making ARVs unaffordable for most South Africans, the companies were directly restricting access to life-saving medications, infringing upon the fundamental right to health<sup>140</sup>.

<sup>&</sup>lt;sup>138</sup> UNAIDS. (2010). Rwanda: Making Treatment Available to 94% of Those in Need.

<sup>&</sup>lt;sup>139</sup> Medecins Sans Frontieres. "Hazel Tau v. GlaxoSmithKline and Boehringer Ingelheim." 2001.

<sup>&</sup>lt;sup>140</sup> South African Competition Commission. "Competition Commission's Investigation into Pharmaceutical Pricing." 2002.

After a long and arduous legal battle, the South African Competition Commission reached a landmark decision. It concluded that both GSK and Boehringer Ingelheim had indeed engaged in excessive pricing, violating the Competition Act. The resulting settlement was a major victory for public health advocates. The companies were compelled to grant voluntary licenses to generic drug manufacturers, allowing for the production of more affordable versions of ARVs. They were also required to offer technical assistance to these manufacturers and to refrain from enforcing their patents against them<sup>141</sup>.

The *Hazel Tau* case is a landmark example of how legal action can be a powerful tool for challenging the excessive pricing of essential medicines. It sets a critical precedent for countries like Rwanda, providing a potential model for holding pharmaceutical companies accountable for practices that hinder access to life-saving treatments.

The case demonstrates the importance of robust legal frameworks, such as competition laws, and the crucial role of advocacy organizations in ensuring that essential medicines remain affordable and accessible to all who need them.

### III.2.4. India: Novartis AG v. Union of India (2013)

In 2006, Novartis AG, a multinational pharmaceutical company, sought a patent in India for a modified version of their successful cancer drug imatinib mesylate, known commercially as Gleevec. The modification involved a change to the drug's crystalline form. However, the Indian Patent Office rejected Novartis's application, asserting that the modified form did not meet the strict criteria for patentability under Indian law<sup>142</sup>.

Specifically, the Patent Office cited Section 3(d) of the Indian Patents Act, which requires that a new form of a known substance must demonstrate a significant enhancement in therapeutic efficacy to be eligible for a patent.

This provision is designed to prevent "evergreening," a tactic where pharmaceutical companies seek to extend their patent monopolies by making minor, often insignificant modifications to existing drugs<sup>143</sup>.

<sup>&</sup>lt;sup>141</sup> Treatment Action Campaign. "Settlement in Hazel Tau v. GlaxoSmithKline Case." 2003

<sup>&</sup>lt;sup>142</sup> Novartis AG v. Union of India. Supreme Court of India, Civil Appeal No. 2706-2716, 2013.

<sup>&</sup>lt;sup>143</sup> Ibid.

Novartis vehemently contested the Patent Office's decision, arguing that Section 3(d) was incompatible with the TRIPS Agreement and unduly limited their patent rights<sup>144</sup>. The case escalated to the Supreme Court of India, which ultimately upheld the rejection of Novartis's patent application. The Court affirmed that the modification in question did not substantially improve the drug's therapeutic efficacy and reiterated the importance of Section 3(d) in safeguarding against evergreening practices<sup>145</sup>.

The Novartis case serves as a landmark ruling with significant implications for pharmaceutical patent law in India and beyond. It underscores the importance of stringent patentability criteria in ensuring that patents are awarded only for genuine innovations that offer substantial therapeutic benefits, rather than for minor tweaks designed to prolong monopolies<sup>146</sup>. For Rwanda, and indeed for many developing nations, the Novartis case highlights the potential for adopting similar measures to prevent evergreening and promote access to affordable generic medicines.

It reinforces the need for robust intellectual property (IP) laws that strike a balance between incentivizing pharmaceutical research and development and protecting public health by ensuring that essential medicines remain affordable and accessible.

#### 2.3. Brazil: Compulsory Licensing of Efavirenz (2007)

In 2007, the Brazilian Ministry of Health faced a daunting challenge: the high cost of efavirenz, a crucial antiretroviral drug for treating HIV/AIDS, was preventing the government from providing adequate treatment to its citizens.

The drug, patented by the pharmaceutical company Merck, was priced significantly higher in Brazil than in many other countries. Despite extensive negotiations, Merck refused to lower the price to a level that Brazil considered sustainable<sup>147</sup>.

Faced with this impasse and a growing public health crisis, Brazil took decisive action. Citing national law and the flexibilities afforded by the TRIPS Agreement, the Brazilian government issued a compulsory license for efavirenz. This license allowed generic drug manufacturers to produce and distribute the drug within Brazil without Merck's permission, as long as certain conditions were met<sup>148</sup>.

<sup>&</sup>lt;sup>144</sup> Novartis International AG. "Patent Application for Imatinib Mesylate." 2006.

<sup>&</sup>lt;sup>145</sup> Indian Patent Office. "Rejection of Novartis's Patent Application." 2006.

<sup>&</sup>lt;sup>146</sup> Sharma, D. "Novartis's Legal Battle in India: Implications for Access to Medicines." Health Affairs, 2013.

<sup>&</sup>lt;sup>147</sup> Brazilian Ministry of Health. "Compulsory Licensing of Efavirenz." 2007.

<sup>&</sup>lt;sup>148</sup> World Trade Organization. "TRIPS and Public Health: Compulsory Licensing." 2007.

The impact of this decision was swift and significant. Brazil began importing generic versions of efavirenz from India at a much lower cost, making the drug accessible to a far greater number of people living with HIV/AIDS.

The compulsory license remained in effect for five years, during which time the price of efavirenz in Brazil plummeted, dramatically reducing the financial burden on the healthcare system and patients. In 2012, a settlement was reached with Merck, resolving the dispute and marking a major victory for public health in Brazil<sup>149</sup>.

Brazil's bold use of compulsory licensing in the case of efavirenz serves as a compelling example of how TRIPS flexibilities can be effectively leveraged to prioritize public health over patent monopolies<sup>150</sup>.

For Rwanda, and other countries facing similar challenges, this case demonstrates the potential benefits of compulsory licensing as a tool to ensure access to essential medicines when pharmaceutical companies refuse to negotiate fair and reasonable prices. It underscores the fact that governments, armed with the right legal mechanisms and the political will to use them, can successfully challenge the status quo and put the health and well-being of their citizens first.

#### 2.4. Doha Declaration on TRIPS and Public Health (2001)

In November 2001, a landmark agreement was reached at the Fourth WTO Ministerial Conference in Doha, Qatar. The resulting Doha Declaration on the TRIPS Agreement and Public Health addressed the growing global concern about the impact of intellectual property (IP) rights, particularly patents, on access to essential medicines in developing countries<sup>151</sup>.

The Declaration affirmed several key principles that have had a profound impact on global health policy. It explicitly recognized the right of WTO member countries to utilize the flexibilities enshrined in the TRIPS Agreement to protect public health. It emphasized that TRIPS should not be interpreted or implemented in a way that undermines public health objectives but should, instead, support access to medicines for all<sup>152</sup>.

Crucially, the Doha Declaration reiterated the right of countries to issue compulsory licenses, a mechanism allowing the production of generic versions of patented drugs under certain conditions.

<sup>&</sup>lt;sup>149</sup> Merck & Co., Inc. "Settlement Agreement with Brazilian Government." 2012.

<sup>&</sup>lt;sup>150</sup> Human Rights Watch. "Brazil's Use of Compulsory Licensing for Efavirenz." 2007.

<sup>&</sup>lt;sup>151</sup> World Trade Organization. "Doha Declaration on the TRIPS Agreement and Public Health." 2001.

<sup>&</sup>lt;sup>152</sup> Correa, C. "Implications of the Doha Declaration on the TRIPS Agreement and Public Health." 2002.

It also clarified that countries facing public health crises could import generic medicines produced under compulsory licenses in other countries, even if they lacked the manufacturing capacity themselves<sup>153</sup>.

The Doha Declaration represents a watershed moment in global health policy. It firmly established the principle that public health considerations should be paramount in the interpretation and implementation of intellectual property rules. For Rwanda, as well as countless other developing nations, the Declaration provides a robust legal and moral basis for utilizing TRIPS flexibilities, such as compulsory licensing, to expand access to affordable medicines. It underscores the international consensus that while IP rights are important, they must not be allowed to impede access to life-saving treatments.

The Doha Declaration serves as a powerful reminder that global trade rules should be leveraged to promote health equity and ensure that essential medicines are available to all who need them.

# **II.4.** Analysis of legal principles in balancing pharmaceutical innovation and access to medicines under TRIPS obligations in Rwanda

This section provides an analysis of the legal principles that guide Rwanda in balancing pharmaceutical innovation with access to medicines under the TRIPS Agreement. It explores how the legal framework incorporates TRIPS flexibilities to promote public health, while also supporting the protection of intellectual property rights. The analysis focuses on the mechanisms available to achieve this balance and their practical implementation in Rwanda.

#### **II.4.1.** Principle of Equity

The principle of equity in healthcare is a fundamental human rights principle enshrined in international law, asserting that everyone has the right to access essential medicines and healthcare services, regardless of their socioeconomic status or any other personal characteristic<sup>154</sup>. In the context of intellectual property rights, equity requires finding a delicate balance between the rights of patent holders to profit from their innovations and the public's right to health. This means ensuring that patented medicines are not priced so high that they become inaccessible to those who need them most<sup>155</sup>.

<sup>&</sup>lt;sup>153</sup> Oxfam International. "The Doha Declaration Explained." 2001.

<sup>&</sup>lt;sup>154</sup> United Nations. (2015). Transforming our world: the 2030 Agenda for Sustainable Development. United Nations.

<sup>155</sup> Ibid.

TRIPS flexibilities, such as compulsory licensing and parallel importation, are essential tools for achieving this balance. Compulsory licensing allows governments to override patents in certain circumstances, such as public health emergencies, to enable the production and distribution of generic versions of patented drugs at more affordable prices.

Parallel importation allows countries to import cheaper versions of patented drugs from other countries where they are sold at lower prices.

Rwanda's commitment to equity in healthcare is evident in its National Health Policy, which emphasizes the importance of ensuring access to essential medicines for all citizens. To truly uphold this principle, it is crucial that Rwanda integrates equity considerations into its intellectual property regulations.

This means not only having legal mechanisms like compulsory licensing in place but also being willing to actively utilize them when necessary to overcome barriers to access and make essential medicines affordable and available for all Rwandans.

#### **II.4.2.** Principle of Public Interest

The principle of public interest serves as a guiding light in the interpretation and application of TRIPS flexibilities. It places the health needs and well-being of the population above the commercial interests of patent holders. In essence, this principle justifies the use of legal mechanisms, such as compulsory licensing and parallel importation, to overcome patent barriers and ensure that essential medicines are accessible and affordable to all<sup>156</sup>. The use of compulsory licensing in Rwanda and Brazil, as discussed in the case studies above, vividly demonstrates how this principle can be translated into action to protect public health and save lives<sup>157</sup>.

Rwanda's constitution explicitly recognizes the right to health as a fundamental human right. This constitutional guarantee provides a strong foundation for the application of the public interest principle in the country's intellectual property framework. It mandates that the Rwandan government prioritize the health of its citizens when making decisions related to intellectual property rights.

<sup>&</sup>lt;sup>156</sup> Reichman, J.H. (2009). The TRIPS Agreement Comes of Age: Conflict or Cooperation Between the Trade and Health Regimes?

<sup>&</sup>lt;sup>157</sup> United Nations. (2015). Transforming our world: the 2030 Agenda for Sustainable Development. United Nations.

This includes being willing to utilize TRIPS flexibilities, like compulsory licensing, to ensure access to affordable medicines when necessary, even if it means challenging the interests of pharmaceutical companies.

#### **II.4.3.** Principle of Proportionality

The principle of proportionality is a fundamental legal principle that plays a crucial role in decision-making processes, especially in areas where conflicting rights or interests are at stake. It mandates that any limitation on rights, including intellectual property rights, must be carefully balanced and proportionate to the legitimate objective it seeks to achieve<sup>158</sup>.

In the context of the TRIPS Agreement, this means that measures taken to safeguard public health, such as the issuance of compulsory licenses, must be tailored to address the specific health crisis at hand while minimizing any unnecessary or excessive burden on patent holders.

The principle of proportionality serves as a safeguard to ensure that the balance between intellectual property rights and public health is maintained in a fair and equitable manner. It prevents governments from taking overly broad or restrictive measures that could stifle innovation or unduly harm the interests of patent holders. At the same time, it empowers governments to take decisive action to protect public health when necessary, even if it means temporarily limiting certain intellectual property rights.

In Rwanda, this principle should guide the development and implementation of intellectual property regulations. The government's regulatory framework should incorporate safeguards to ensure that any measures taken, such as the issuance of compulsory licenses, are proportionate to the specific health crisis they aim to address. This requires establishing clear criteria for when and how such measures can be applied, as well as transparent decision-making processes that take into account the interests of all stakeholders, including patent holders and the public.

Overall, this chapter revealed that Rwanda faces considerable obstacles in balancing pharmaceutical innovation and access under TRIPS.

<sup>&</sup>lt;sup>158</sup> World Intellectual Property Organization. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: A Fact Sheet.

To achieve a more equitable pharmaceutical landscape, Rwanda must leverage TRIPS flexibilities, strengthen institutions, collaborate internationally, and adopt innovative policies. This will foster domestic innovation and improve access to medicines, ultimately benefiting public health and sustainable development. Rwanda's experience offers valuable lessons for other developing nations facing similar challenges.

#### **II.4.4.** Principle of Good Faith and Fair Dealing

In the pharmaceutical industry, the principle of good faith and fair dealing mandates that all parties involved in intellectual property transactions, such as licensing agreements and technology transfers, act honestly, ethically, and with due regard for the interests of all stakeholders<sup>159</sup>.

This principle has significant implications for both pharmaceutical companies and the Rwandan government. For example, companies should negotiate licensing agreements in good faith, offering fair and reasonable terms that take into account the specific needs and circumstances of Rwanda. They should refrain from engaging in abusive practices, such as evergreening (extending patent monopolies through minor modifications), which can impede access to affordable medicines. Additionally, companies should be transparent about their pricing practices, ensuring that prices are not excessively high and reflect the actual costs of production and development<sup>160</sup>.

Furthermore, the government has a responsibility to ensure that its negotiations with pharmaceutical companies are conducted in good faith and are aimed at achieving fair and equitable outcomes for its citizens<sup>161</sup>. This includes actively seeking out affordable licensing options and utilizing TRIPS flexibilities, like compulsory licensing, when necessary to protect public health. The government should also enforce laws and regulations that promote transparency in pricing and prevent abusive practices by pharmaceutical companies<sup>162</sup>.

<sup>&</sup>lt;sup>159</sup> World Intellectual Property Organization (WIPO). (2017). *General Principles of Law Applicable to Intellectual Property (IP). WIPO Publication No. 903(E).* 

<sup>&</sup>lt;sup>160</sup> Correa, C. M. (2007). Intellectual property rights, the WTO and developing countries: The TRIPS agreement and policy options. Zed Books.

<sup>&</sup>lt;sup>161</sup> Reichman, J.H. (2009). The TRIPS Agreement Comes of Age: Conflict or Cooperation Between the Trade and Health Regimes?

<sup>&</sup>lt;sup>162</sup> World Trade Organization. (2001). Doha Declaration on the TRIPS Agreement and Public Health.

The principle of good faith and fair dealing is not merely a legal nicety; it is a moral imperative in the context of access to medicines. Pharmaceutical companies wield immense power due to their control over life-saving drugs. Abusing this power through exploitative pricing or anticompetitive practices is not only unethical but also detrimental to public health.

Rwanda, as a nation still grappling with significant health challenges, must stand firm in demanding fair and equitable treatment from these companies. This means pushing for affordable licensing agreements, challenging unfair pricing practices, and not hesitating to utilize TRIPS flexibilities when necessary.

#### 2. Principle of Non-Discrimination

Similarly, the principle of non-discrimination, enshrined in the WTO agreements, prohibits countries from treating foreign and domestic entities differently in the protection of intellectual property rights. In the context of Rwanda, this means that foreign pharmaceutical companies operating in the country should receive the same level of IP protection as domestic companies.

In practice, Rwandan law should provide equal protection for patents held by foreign and domestic pharmaceutical companies<sup>163</sup>. This ensures a level playing field for all actors in the market and promotes fair competition. It also helps to attract foreign investment and expertise in the pharmaceutical sector, which can contribute to Rwanda's development goals. Both domestic and foreign companies should have equal access to judicial and administrative remedies in case of IP disputes<sup>164</sup>. This ensures that all parties can enforce their rights and challenge any infringements or unfair practices through legal channels.

In conclusion, the principle of non-discrimination is a cornerstone of a fair and just international trade system. In the pharmaceutical sector, it is particularly important, as it ensures that all companies, regardless of their origin, are held to the same standards and have equal opportunities to compete in the Rwandan market. By upholding this principle, Rwanda fosters an environment of trust and predictability, which can attract foreign investment and promote technology transfer. However, non-discrimination does not mean a blind eye to potential abuses. Rwanda must remain vigilant in monitoring the practices of both domestic

 <sup>&</sup>lt;sup>163</sup> World Trade Organization (WTO). (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).
 <sup>164</sup> Ibid.

and foreign companies to ensure they are not engaging in anti-competitive or exploitative behavior that could harm public health.

# CHAP III: RWANDA'S LEGAL AND INSTITUTIONAL MECHANISMS FOR IMPLEMENTING TRIPS FLEXIBILITIES TO PROMOTE ACCESS TO ESSENTIAL MEDICINES

This Chapter III examines Rwanda's legal and institutional frameworks for implementing TRIPS flexibilities to enhance access to essential medicines. The Trade-Related Aspects of Intellectual Property Rights (TRIPS) Agreement, administered by the World Trade Organization (WTO), provides flexibility for member states to adapt intellectual property regulations to prioritize public health needs. In the context of Rwanda, exploring these mechanisms is crucial to understanding how the country navigates pharmaceutical innovation while ensuring affordable access to medicines for its population. This chapter will analyze the specific legal instruments, institutional setups, and regulatory strategies that Rwanda employs to leverage TRIPS flexibilities effectively.

# III.1. Legal mechanisms for intellectual property protection in the pharmaceutical industry in Rwanda

This section explores the legal mechanisms in place for intellectual property protection within Rwanda's pharmaceutical industry. It examines the laws and regulations designed to safeguard pharmaceutical innovations while balancing the need for access to essential medicines. Key mechanisms include patent laws, the implementation of TRIPS flexibilities, and regulatory frameworks that promote both innovation and public health objectives.

# III.1.1. Overview of Law N° 055/2024 of 20/06/2024 on the protection of intellectual property in Rwanda

Rwanda's intellectual property (IP) regime, especially pertinent to the pharmaceutical sector, is governed by Law N° 055/2024 of 20/06/2024 on the Protection of Intellectual Property. This comprehensive legal framework is designed to protect the rights of creators and innovators while balancing these rights with public health needs, in alignment with the TRIPS Agreement.

The law outlines the requirements for patent protection, which are essential for safeguarding pharmaceutical inventions. Key sections detail the criteria for patentability, such as the requirements for an invention to be new, involve an inventive step, and be industrially applicable (Articles 5-8). This framework ensures that only genuine innovations receive protection, fostering an environment of continued innovation within the industry.

The law also addresses the procedural aspects of patent applications, including the filing process, the description of inventions, and the examination of the sufficiency of disclosure (Articles 9-13). These provisions ensure that applications are thoroughly evaluated, protecting the integrity of the patent system while encouraging transparency and accessibility in the sharing of knowledge.

Critically, Law N° 055/2024 incorporates TRIPS flexibilities, particularly regarding compulsory licensing and parallel importation—mechanisms crucial for enhancing access to essential medicines. The provisions for compulsory licenses, outlined in Articles 50-61, establish the grounds and procedures for issuing licenses, including instances of absent or insufficient use of patents and the interdependence of patents. These measures are designed to ensure that essential medicines remain accessible and affordable, even when patent restrictions might otherwise limit their availability.

Furthermore, the law provides for the examination and grant of patents (Articles 24-31), detailing the rights conferred by a patent (Articles 36-41), and setting the framework for patent assignments and licenses (Articles 42-47). It includes safeguards against anti-competitive practices in patent licensing, thereby promoting a fair market environment.

Section 6 of the law addresses regional and international patent applications, reflecting Rwanda's commitment to harmonizing its IP protection mechanisms with international standards. This includes provisions for applications under the Patent Cooperation Treaty, which facilitates the process for inventors seeking patent protection in multiple countries.

The amendments brought by Law N° 055/2024 signify Rwanda's ongoing efforts to refine its IP system, ensuring it is responsive to the unique challenges of the country, such as the need for affordable medicines. The focus on TRIPS flexibilities within this law illustrates a balanced approach to IP protection, one that acknowledges the rights of innovators while prioritizing public health.

To achieve its intended impact, the law's implementation and enforcement must be consistent, transparent, and equitable. Regular review and evaluation will be necessary to adapt to changes in technology and the global IP landscape, ensuring that the legal framework continues to serve the best interests of the Rwandan population by promoting access to medicines and fostering a competitive pharmaceutical market.

#### III.1.2. Patentability and Rights of Invention under Law N° 055/2024 of 20/06/2024

Law N° 055/2024 of 20/06/2024 on the Protection of Intellectual Property in Rwanda sets forth comprehensive requirements for the patentability of inventions, aligning with international standards such as those established under the TRIPS Agreement. An invention qualifies for patent protection if it meets three primary criteria: novelty, inventive step, and industrial applicability.

#### 1. Patentable Invention Criteria

According to Article 5, an invention is deemed patentable if it is new, involves an inventive step, and is industrially applicable. Article 6 clarifies that an invention is considered novel if it has not been previously disclosed in any form, anywhere in the world, before the filing or priority date of the patent application. This ensures that only genuinely innovative inventions receive patent protection. Certain exceptions to novelty exist, such as disclosures made within twelve months prior to filing that are directly related to the applicant's actions or due to unauthorized disclosures by third parties.

Article 7 defines an "inventive step" as an advancement that is not obvious to someone skilled in the relevant field, signifying that the invention represents a significant improvement over existing technologies or methods. Article 8 specifies that an invention must be "industrially applicable," meaning it must be capable of being made or used in any kind of industry, broadly interpreted to include all forms of economic activity.

#### 2. Application and Examination Process

The application process for patent protection is detailed in Articles 9 through 22, covering the filing of patent applications, requests for grant, and requirements for sufficiently disclosing the invention. Article 9 outlines the initial filing procedures, while Article 10 emphasizes the importance of accurately describing the invention as per Article 11. The examination process, described in Articles 24 through 31, ensures that applications meet the established standards before granting patent rights. This rigorous process helps maintain the integrity of the patent system and prevents the granting of patents for inventions that do not meet the required criteria.

#### **3. Exclusions from Patent Protection**

Article 23 enumerates specific exclusions from patent protection, including discoveries, scientific theories, mathematical methods, and business methods.

Additionally, it excludes methods for treating humans or animals, certain natural substances unless isolated, and known substances with new uses. Notably, pharmaceutical products and processes may also be excluded under certain international agreements, highlighting Rwanda's approach to balancing IP protection with public health needs. However, the law does allow for the patenting of computer-implemented inventions, reflecting the evolving nature of technological advancements.

### 4. Rights Conferred by Patents

The rights conferred by patents are articulated in Section 3, specifically Article 36, which grants the patent holder exclusive rights to exploit the invention. Article 37 addresses the enforcement of these rights through civil proceedings against infringement. The law also provides for joint ownership of patents (Article 38), and recognizes the inventor's right to be named (Article 39). Patent rights are subject to limitations (Article 40) and are protected for a duration specified under Article 41.

### 5. Transfer and Licensing of Patent Rights

Section 4 covers the assignment and licensing of patents, allowing the patent holder to transfer or assign their rights, as detailed in Articles 42 through 47. This flexibility enhances the economic utility of patents, allowing them to be used as security or mortgaged. The law also addresses contractual licenses and the conditions under which they may be amended or revoked, including clauses that may have anti-competitive effects.

#### 6. Compulsory and Non-Contractual Licenses

Recognizing the need for access to essential medicines, Section 5 outlines the framework for non-contractual licenses, including compulsory licenses. Articles 50 through 61 provide detailed procedures for applying for compulsory licenses, the grounds for granting them, and the conditions under which they can be issued, particularly when a patent is not sufficiently utilized or when there is interdependence of patents. These provisions are crucial for enabling access to medicines by allowing the government to authorize the use of patented inventions without the consent of the patent holder under specific circumstances, thus leveraging TRIPS flexibilities to address public health needs.

#### 7. Regional and International Patent Applications

Section 6 addresses the procedures for regional and international patent applications, including those filed under the Patent Cooperation Treaty (PCT). Articles 62 through 69 provide a framework for processing such applications, ensuring that Rwanda's IP system is harmonized with global standards and facilitating the protection of Rwandan inventions internationally.

Overall, Law N° 055/2024 demonstrates Rwanda's commitment to fostering innovation while ensuring that the legal framework for IP protection is adaptable and responsive to the needs of the pharmaceutical industry. By incorporating TRIPS flexibilities, the law aims to strike a balance between incentivizing innovation and ensuring public access to essential medicines, aligning Rwanda's IP policies with its public health objectives. Effective implementation and ongoing review of these provisions will be critical in maintaining this balance and promoting a competitive and accessible pharmaceutical market in Rwanda.

# III.1.3. Rights Conferred by the Patent and Its Duration under Law N° 055/2024 of 20/06/2024 in the Context of TRIPS and Access to Medicines

Law N° 055/2024 of 20/06/2024 on the Protection of Intellectual Property in Rwanda establishes a regulatory framework that aligns with the Trade-Related Aspects of Intellectual Property Rights (TRIPS) Agreement, particularly focusing on the pharmaceutical industry. This law aims to strike a balance between protecting intellectual property rights and ensuring access to essential medicines, a critical aspect of public health in Rwanda.

#### **1. Exclusive Rights Conferred by Patents**

Under Article 36, the law grants patent owners exclusive rights to make, sell, and import the patented product, or use the patented process within Rwanda. This exclusivity is essential for encouraging pharmaceutical innovation, as it allows patent holders to benefit economically from their inventions, thus incentivizing the development of new and improved medicines. The exclusivity provisions align with TRIPS requirements, ensuring that Rwanda complies with international standards for IP protection while fostering an environment conducive to investment in pharmaceutical research and development.

#### 2. Enforcement and Legal Recourse

Article 37 empowers patent owners to take legal action against infringers, providing a robust enforcement mechanism to protect patent rights. This aligns with TRIPS obligations that require member states to offer legal frameworks for the enforcement of IP rights, thereby deterring unauthorized use of patented inventions. This protection is crucial for maintaining the integrity of the patent system and ensuring that innovators feel secure in their ability to protect and capitalize on their inventions.

#### 3. Exhaustion of Rights Doctrine and Market Competition

In accordance with TRIPS flexibilities, Article 40 introduces the exhaustion of rights doctrine, which states that once a patented product has been lawfully placed on the market in Rwanda, the patent rights are considered exhausted. This provision allows for parallel importation of patented products, thereby promoting competition and potentially reducing prices. In the context of access to medicines, this is particularly significant as it enables the importation of lower-cost pharmaceuticals, thereby improving accessibility and affordability for the Rwandan population. This approach reflects Rwanda's commitment to using TRIPS flexibilities to enhance public health outcomes.

#### 4. Limitations on Patent Rights for Public Interest

To further align with TRIPS and address public health needs, Article 40 also includes specific limitations on patent rights. These include:

- Use on Foreign Vehicles: Patent rights do not cover the use of patented products or processes on foreign vehicles temporarily in Rwanda, such as aircraft, ships, and vehicles, which helps facilitate international travel and trade without being impeded by local patents.
- Scientific Research and Public Non-Profit Use: Patented inventions can be used for scientific research and public non-profit purposes without infringing on patent rights. This provision is critical for advancing scientific knowledge and innovation, particularly in the development of generic medicines and public health initiatives.
- **Prior User Rights:** Individuals or entities that have been using an invention in good faith prior to the patent application are allowed to continue their use, which safeguards existing businesses and practices from sudden patent restrictions.

These limitations ensure that patent protection does not unduly hinder access to important technologies and medicines, thereby aligning with TRIPS flexibilities that permit exceptions to patent rights for the greater public good, especially in critical sectors like healthcare.

#### 5. Duration and Maintenance of Patent Rights

Article 41 specifies that patents are protected for 20 years from the filing date, consistent with TRIPS standards. This duration provides a reasonable period for patent holders to exclusively benefit from their inventions while eventually allowing for the introduction of generic versions to the market, which is essential for improving access to medicines. The law requires annual maintenance fees to keep the patent in force, with a six-month grace period for late payments, which prevents the undue loss of patent rights while ensuring continued compliance with maintenance requirements.

#### 6. Balancing Patent Protection and Access to Medicines

The regulatory framework established by Law N° 055/2024 is designed to balance the protection of intellectual property with the public's need for accessible and affordable medicines. By incorporating TRIPS flexibilities, such as the exhaustion of rights doctrine and specific limitations on patent rights, Rwanda's approach ensures that patent laws do not become barriers to accessing essential medicines. This alignment with TRIPS is critical in a developing country context, where public health needs must be weighed carefully against the interests of IP holders.

In conclusion, Law N° 055/2024 reflects Rwanda's strategic use of the TRIPS Agreement to protect intellectual property in a way that supports innovation while also prioritizing public health. This approach helps to ensure that Rwanda can foster a competitive pharmaceutical market and improve access to essential medicines, demonstrating a commitment to leveraging international IP frameworks for the benefit of its population.

#### **III.1.4.** Non-Contractual Patent Licenses: Ensuring Access to Medicines in Rwanda

The Law N° 055/2024 of 20/06/2024 on the Protection of Intellectual Property in Rwanda introduces vital provisions for non-contractual patent licenses, including licenses as of right and compulsory licensing, playing a crucial role in ensuring access to medicines.

This Article 48 allows patent owners to voluntarily offer licenses to others under predetermined conditions recorded in the patent register. This mechanism incentivizes broader use of patented inventions while granting patent holders a 50% reduction in renewal fees. It strikes a balance between promoting innovation and ensuring wider access to its benefits.

According to Articles 50-56, the Minister is empowered to grant compulsory licenses under certain circumstances:

- **Insufficient Use (Article 52):** If the invention is not adequately utilized within Rwanda, a compulsory license may be granted after four years from the filing date or three years from the grant date. This prevents patent holders from unduly restricting access to their inventions.
- Abuse of Rights (Article 51): If the patent owner engages in anti-competitive practices or abuses their exclusive rights, a compulsory license can be issued to safeguard public interest.
- Interdependent Patents (Articles 53-54): When a subsequent patent cannot be used without infringing an earlier patent, the Minister may grant licenses for both patents under specific conditions, fostering innovation while respecting prior rights.

In exceptional circumstances (Articles 57-61), such as national emergencies or public health crises, the Minister may grant ex officio compulsory licenses even without a request from a third party.

The provisions for licenses as of right and compulsory licensing are essential tools for balancing intellectual property rights with public health needs, particularly in the context of access to medicines. These mechanisms offer flexibility within the patent system, encouraging wider use of inventions and preventing patent holders from abusing their rights. These are crucial safeguards, especially in Rwanda where access to healthcare is a paramount concern.

# **III.1.2. TRIPS** Flexibilities in Action: Rwanda's Approach to Balancing Intellectual Property Rights and Public Health

Rwanda's journey in upholding intellectual property (IP) rights, particularly in the pharmaceutical sector, is a testament to its commitment to balancing innovation with public health. As a member of the World Trade Organization (WTO), Rwanda adheres to the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS Agreement), a global framework designed to incentivize innovation while ensuring access to essential medicines.

Precisely, Rwanda's commitment to fostering a vibrant pharmaceutical landscape is evident in its robust patent protection regime. Adhering to TRIPS Article 33<sup>165</sup>, the nation grants patents for pharmaceutical products, typically lasting 20 years from the filing date. This protection not only encourages research and development but also attracts investment, both of which are crucial for advancing healthcare in Rwanda. Personal Comment: This demonstrates Rwanda's commitment to fostering a conducive environment for pharmaceutical innovation, recognizing the importance of patents in incentivizing research and development, crucial aspects for improving healthcare outcomes within the country.

However, recognizing that access to medicines is paramount, Rwanda has embraced TRIPS flexibilities that safeguard public health. In line with TRIPS Article 8<sup>166</sup>, Rwanda employs measures like compulsory licensing to address national emergencies or ensure affordability. This mechanism, permissible under TRIPS Article 31<sup>167</sup>, allows the production of generic versions of patented medicines under specific conditions, thereby expanding access to crucial treatments. Personal Comment: This highlights Rwanda's pragmatic approach to public health. By utilizing TRIPS flexibilities, the country ensures that patent rights do not become barriers to access to essential medicines, particularly in times of crisis or when affordability is a concern.

Furthermore, Rwanda's strategic use of compulsory licensing exemplifies its commitment to balancing innovation with accessibility. By adhering to the conditions set forth in TRIPS Article 31, the nation can deploy this mechanism to enhance the availability of essential medicines, particularly in situations where cost or other factors pose barriers to access. Personal Comment: This illustrates Rwanda's dedication to safeguarding public health by actively utilizing the flexibilities offered by the TRIPS Agreement. Compulsory licensing serves as a vital tool to address affordability and access challenges, ultimately benefiting the Rwandan population.

Additionally, Rwanda leverages the principle of international exhaustion, as permitted under TRIPS Article 6<sup>168</sup>, to allow parallel importation of patented pharmaceuticals from countries where they are legally marketed at lower prices.

 <sup>&</sup>lt;sup>165</sup> World Trade Organization, "TRIPS Agreement (1994): Article 33 - Term of Protection of Patents."
 <sup>166</sup> World Trade Organization, "TRIPS Agreement (1994): Article 8 - Principles."

<sup>&</sup>lt;sup>167</sup> World Trade Organization, "TRIPS Agreement (1994): Article 31 - Other Use Without Authorization of the Right Holder."

<sup>&</sup>lt;sup>168</sup> World Trade Organization, "TRIPS Agreement (1994): Article 6 - Exhaustion."

This strategic approach further expands access to affordable medicines for Rwandan citizens. Personal Comment: Parallel importation is a strategic move by Rwanda to ensure the availability of affordable medicines. By allowing imports from countries with lower prices, the country effectively addresses cost barriers and promotes competition, ultimately benefiting patients.

In conclusion, by integrating these TRIPS flexibilities into its regulatory framework, Rwanda demonstrates a nuanced approach to IP protection in the pharmaceutical sector. This approach not only fulfills the nation's international obligations but also reinforces its dedication to public health. Rwanda's journey in navigating the complexities of IP rights is a testament to its commitment to fostering a thriving healthcare ecosystem where innovation and access coexist harmoniously. Personal Comment: Overall, Rwanda's approach is commendable as it showcases a balanced and responsible utilization of TRIPS flexibilities. The country's dedication to both innovation and accessibility sets a positive example for other nations seeking to reconcile intellectual property rights with public health imperatives.

# III.1.3. The Doha Declaration as a Cornerstone of Rwanda's Public Health-Centric Approach to Intellectual Property

The Doha Declaration on the TRIPS Agreement and Public Health, adopted in 2001, serves as a fundamental pillar in Rwanda's approach to balancing intellectual property rights with the imperative of safeguarding public health. As a World Trade Organization (WTO) member state, Rwanda aligns its policies with the Declaration's principles to prioritize equitable access to essential medicines while adhering to international trade obligations<sup>1</sup>.

Specifically, the Declaration reinforces Rwanda's sovereign right to interpret and implement the TRIPS Agreement in a manner conducive to achieving public health objectives<sup>169</sup>. This includes leveraging TRIPS flexibilities, such as compulsory licensing, to ensure the availability and affordability of essential medicines during public health crises, whether endemic or pandemic in nature. Personal Comment: The Doha Declaration serves as a crucial legal framework empowering Rwanda to prioritize public health over stringent IP protection.

<sup>&</sup>lt;sup>169</sup> World Trade Organization. (2001). Doha Declaration on the TRIPS Agreement and Public Health (2001): Paragraph 4

This is particularly significant for a developing nation like Rwanda, where the burden of infectious diseases is high and access to affordable medicines is vital.

Furthermore, recognizing the unique challenges faced by countries with limited manufacturing capacity, Paragraph 6 of the Declaration empowers Rwanda to issue compulsory licenses for the production of generic medicines specifically for export to nations grappling with public health emergencies<sup>170</sup>. This provision allows Rwanda to play a pivotal role in global health initiatives by facilitating the supply of affordable medicines to those in need. Personal Comment: This provision is a testament to the Doha Declaration's commitment to global health equity<sup>171</sup>. It recognizes the interconnectedness of public health challenges and empowers countries like Rwanda to contribute to solutions beyond their borders, fostering a collaborative approach to improving health outcomes worldwide.

Additionally, Paragraph 5 of the Declaration underscores the importance of preventing intellectual property rules from becoming barriers to access to medicines<sup>3</sup>. For least developed countries like Rwanda, where affordability is a critical concern, the Declaration champions measures that safeguard the right to protect public health through appropriate intellectual property policies. Personal Comment: This provision emphasizes the need for a nuanced approach to IP rights in the context of public health<sup>172</sup>. It acknowledges that rigid adherence to IP protection can impede access to essential medicines, especially in resource-limited settings, and advocates for policies that prioritize health needs over commercial interests.

In essence, Rwanda's national policies reflect a deep commitment to the principles enshrined in the Doha Declaration. By incorporating these principles into its regulatory framework, Rwanda ensures that intellectual property rights are not exercised in a way that hinders access to essential medicines. Instead, the nation leverages TRIPS flexibilities strategically to respond to public health challenges while fulfilling its international trade commitments. Personal Comment: This balanced approach demonstrates Rwanda's commitment to both its international obligations and the well-being of its citizens. By striking a balance between IP protection and public health, Rwanda showcases a model for other nations seeking to create a sustainable and equitable healthcare system.

 <sup>&</sup>lt;sup>170</sup> World Trade Organization. (2001). Doha Declaration on the TRIPS Agreement and Public Health (2001):
 Paragraph 6.
 <sup>171</sup> Ibidem

<sup>&</sup>lt;sup>172</sup> World Trade Organization. (2001). Doha Declaration on the TRIPS Agreement and Public Health (2001): Paragraph 5.

In conclusion, this balanced approach, rooted in the Doha Declaration, exemplifies Rwanda's dedication to fostering a robust healthcare system where innovation and access go hand in hand. It serves as a model for other nations seeking to reconcile intellectual property rights with the urgent need to protect and promote public health. Personal Comment: Rwanda's experience underscores the importance of TRIPS flexibilities and the Doha Declaration in navigating the complex landscape of intellectual property and public health. The country's success in balancing these competing interests offers valuable lessons for policymakers and stakeholders worldwide.

## **III.1.4. EAC Intellectual Property Legislation**

As a member of the East African Community (EAC), Rwanda plays a pivotal role in fostering regional integration through the harmonization of intellectual property (IP) laws, particularly within the pharmaceutical sector. This commitment aligns with Rwanda's broader strategy to harmonize national policies with regional frameworks, promoting trade, innovation, and compliance with international standards, notably the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS Agreement).

At the heart of this effort, the EAC's Common Market Protocol (2010)<sup>173</sup> serves as a cornerstone for regional IP harmonization. By streamlining and standardizing IP laws across member states, including Rwanda, the Protocol fosters a cohesive regulatory environment that incentivizes investment and innovation in the pharmaceutical industry. This harmonization not only promotes consistency in IP protection and enforcement across borders but also simplifies cross-border transactions, thus enhancing regional trade. Personal Comment: The EAC Common Market Protocol plays a pivotal role in fostering a unified approach to IP protection in the region<sup>174</sup>. This harmonization is crucial for creating a level playing field, attracting investment, and promoting cross-border trade in pharmaceuticals, ultimately benefiting consumers across the EAC.

Furthermore, Article 122 of the Treaty for the Establishment of the East African Community (2000)<sup>2</sup> underscores the significance of regional cooperation in intellectual property matters.

<sup>&</sup>lt;sup>173</sup> East African Community. (2010). Protocol on the Establishment of the Common Market for the East African Community.

<sup>&</sup>lt;sup>174</sup> Ibidem

By pooling resources and expertise, member states like Rwanda can address IP challenges more effectively, such as combating counterfeit medicines and patent infringements. This collaborative approach strengthens investor confidence, encourages technology transfer, and contributes to a more robust pharmaceutical landscape within the EAC. Personal Comment: Regional cooperation in addressing IP challenges is a strategic move for the EAC<sup>175</sup>.

It leverages the collective strengths of member states to combat issues like counterfeit medicines, which pose a significant threat to public health. This collaborative effort not only protects consumers but also fosters a more secure and attractive environment for pharmaceutical investment.

In line with this regional approach, Rwanda's national IP framework, as outlined in the Law N° 31/2009 on the Protection of Intellectual Property<sup>176</sup>, reflects its dedication to implementing EAC directives and protocols. This alignment ensures that local laws not only meet regional standards but also adhere to international obligations under the TRIPS Agreement. This cohesive approach bolsters Rwanda's position in global trade by demonstrating a strong commitment to IP protection, thereby attracting foreign investment and fostering technological advancements in the pharmaceutical sector. Personal Comment: Rwanda's alignment with EAC IP directives and protocols is a testament to its commitment to regional integration and adherence to international standards<sup>3</sup>. This approach not only enhances Rwanda's credibility in the global market but also contributes to the overall development and harmonization of IP laws within the EAC.

In conclusion, Rwanda's active participation in EAC IP harmonization initiatives demonstrates a proactive approach to integrating regional and international standards into its national regulatory framework. By aligning with the Common Market Protocol and other EAC directives, Rwanda is creating an environment that fosters innovation, protects intellectual property rights, and promotes access to essential medicines. This comprehensive approach not only benefits Rwanda but also contributes to the overall development and integration of the East African pharmaceutical sector.

<sup>&</sup>lt;sup>175</sup> East African Community. (2000). Treaty for the Establishment of the East African Community.

<sup>&</sup>lt;sup>176</sup> Republic of Rwanda. (2009). Law N° 31/2009 on the Protection of Intellectual Property.

Personal Comment: Rwanda's commitment to regional IP harmonization is a positive step towards creating a more integrated and competitive East African pharmaceutical market. By aligning its national laws with regional and international standards, the country is setting a precedent for other nations within the EAC and beyond.

## III.1.5. Implications of Law Nº36/2012 on Competition and Consumer Protection

Law N°36/2012 on Competition and Consumer Protection, enacted in 2012, is a cornerstone of Rwanda's legal framework for balancing intellectual property (IP) protection and public health interests in the pharmaceutical sector. This legislation aligns with Rwanda's obligations under the TRIPS Agreement while fostering a competitive market that benefits both innovators and consumers.

Specifically, by establishing rules to prevent anti-competitive practices such as monopolies and price-fixing<sup>1</sup>, Law N°36/2012 incentivizes pharmaceutical companies to compete on innovation and price. This ensures that while IP rights reward innovation, they do not stifle competition or create artificial barriers to access for essential medicines. In essence, the law promotes a dynamic pharmaceutical market where innovation thrives alongside affordability. This provision is particularly important in the context of Rwanda, where ensuring access to affordable medicines is crucial for public health. By fostering competition, Law N°36/2012 prevents pharmaceutical companies from exploiting their IP rights to charge exorbitant prices, thereby promoting equitable access to essential medicines.

Moreover, beyond competition, Law N°36/2012 strengthens consumer protection in the pharmaceutical sector<sup>2</sup>. It mandates transparency in pricing, sets stringent quality standards, and ensures the availability of pharmaceutical products. These safeguards are crucial for translating the benefits of pharmaceutical innovation into tangible public health outcomes. By ensuring affordability, quality, and accessibility, the law helps to maximize the impact of new medicines on the health of Rwandans. This emphasis on consumer protection reflects a people-centered approach to healthcare in Rwanda. By safeguarding consumers from unfair practices and ensuring access to quality medicines, Law N°36/2012 on competition and consumer protection demonstrates a commitment to prioritizing the well-being of the population over commercial interests.

Furthermore, the law's provisions harmonize with Rwanda's utilization of TRIPS flexibilities, notably compulsory licensing.

In times of public health crises, the legal framework enables Rwanda to authorize the production of generic versions of patented medicines to ensure their availability and affordability. This demonstrates a proactive approach to addressing potential conflicts between patent rights and public health imperatives, as enshrined in the Doha Declaration on TRIPS and Public Health. Rwanda's proactive use of compulsory licensing is a testament to its commitment to upholding the right to health. By utilizing this flexibility, the country ensures that patent rights do not become an insurmountable barrier to accessing life-saving medicines, especially in emergency situations.

In conclusion, Law N°36/2012 on Competition and Consumer Protection embodies Rwanda's commitment to a balanced and nuanced approach to intellectual property in the pharmaceutical sector. By fostering competition, protecting consumers, and aligning with international IP standards, Rwanda creates a regulatory environment that both incentivizes innovation and safeguards public health. This approach ensures that the benefits of pharmaceutical advancements reach the Rwandan population effectively and equitably.

Overall, Law N°36/2012 showcases Rwanda's ability to strike a delicate balance between IP protection and public health. This balanced approach serves as an exemplary model for other developing countries seeking to create a sustainable and equitable healthcare system.

# III.1.6. Impact of the United Nations Commission on International Trade Law (UNCITRAL)

The United Nations Commission on International Trade Law (UNCITRAL) plays an indirect yet significant role in shaping Rwanda's regulatory framework for intellectual property (IP) protection in the pharmaceutical industry. While UNCITRAL does not directly regulate IP rights, its model laws and legislative guides, such as the Model Law on Secured Transactions (MLST) and its Supplement on Security Rights in Intellectual Property (SRIP)<sup>177</sup>, provide a foundation for national legislation<sup>178</sup>.

<sup>&</sup>lt;sup>177</sup> United Nations Commission on International Trade Law (UNCITRAL). (2007). UNCITRAL Model Law on Secured Transactions with Guide to Enactment.

<sup>&</sup>lt;sup>178</sup> United Nations Commission on International Trade Law (UNCITRAL). About UNCITRAL. Available at: <u>https://uncitral.un.org/en/about. Accessed July 2024</u>.

This influence is particularly evident in Rwanda's Law on Secured Transactions<sup>179</sup>, which governs the use of IP as collateral, thereby facilitating access to credit for pharmaceutical companies and fostering innovation<sup>180</sup>.

Furthermore, UNCITRAL's work on insolvency law, notably the Legislative Guide on Insolvency Law, addresses the treatment of IP licenses in insolvency proceedings<sup>181</sup>. This is particularly relevant in the pharmaceutical sector, where licensing agreements are common. By providing guidance on balancing the interests of IP owners and licensees in insolvency situations, UNCITRAL's work promotes stability and predictability in the market, which is crucial for attracting investment and fostering innovation<sup>182</sup>.

Conclusively, UNCITRAL's influence on Rwanda's IP regime is a testament to the importance of harmonizing national laws with international standards. This harmonization not only strengthens Rwanda's IP system but also contributes to a more conducive environment for innovation and investment in the pharmaceutical sector.

The country's adoption of UNCITRAL's principles in its legislation demonstrates a commitment to fostering a robust and equitable IP system that balances the interests of innovators and the public health needs of the population.

Overall, the Chapter II has illuminated Rwanda's proactive approach to utilizing TRIPS flexibilities, showcasing a strong commitment to balancing intellectual property rights with the imperative of ensuring access to essential medicines. The examination of Rwanda's legal and institutional mechanisms reveals a multi-faceted strategy towards promoting affordable healthcare. Key institutions such as the Rwanda Food and Drugs Authority (Rwanda FDA), and the Rwanda Development Board (RDB) have played a crucial role in establishing regulatory frameworks that foster both pharmaceutical innovation and equitable access.

<sup>&</sup>lt;sup>179</sup> Republic of Rwanda. (2018). Law No. 026/2018 of 13/09/2018 Governing Secured Transactions.

<sup>&</sup>lt;sup>180</sup> WIPO. (2017). Addressing the Financing Gap: Security Interests in Intellectual Property

<sup>&</sup>lt;sup>181</sup> United Nations Commission on International Trade Law (UNCITRAL). (2014). UNCITRAL Legislative Guide on Insolvency Law with Guide to Enactment and Interpretation.

<sup>&</sup>lt;sup>182</sup> World Intellectual Property Organization (WIPO). (2011). Compulsory Licensing of Patents and Public Health.

## **III.2. INSTITUTIONAL MECHANISMS AT THE INTERNATIONAL LEVEL**

This section explores the key international institutions involved in regulating and supporting intellectual property rights and access to medicines. It examines how organizations such as the World Trade Organization (WTO), World Health Organization (WHO), and World Intellectual Property Organization (WIPO) contribute to shaping policies and frameworks that balance pharmaceutical innovation with global public health needs, particularly under the TRIPS Agreement.

## III.2.1. World Trade Organization (WTO) and TRIPS Flexibilities

The World Trade Organization (WTO) plays a pivotal role in regulating global trade, including aspects related to intellectual property (IP) rights. Through the TRIPS Agreement, the WTO establishes minimum standards for IP protection, including patents on pharmaceutical products<sup>183</sup>. However, recognizing the potential tension between IP rights and access to medicines, TRIPS also incorporates flexibilities<sup>184</sup>. These flexibilities allow member states, like Rwanda, to tailor IP regulations to their specific public health needs.

Key flexibilities include compulsory licensing (Article 31), parallel importation (Article 6), and limited exceptions for research and early working (Article 30). These mechanisms can be instrumental in increasing access to essential medicines, as evidenced by Rwanda's successful use of the WTO's Paragraph 6 System to import HIV/AIDS medications<sup>185</sup>.

Furthermore, the 2001 Doha Declaration on the TRIPS Agreement and Public Health reinforces the importance of these flexibilities, affirming the right of WTO members to prioritize public health when implementing TRIPS provisions<sup>186</sup>.

The WTO, through the TRIPS Agreement and the Doha Declaration, plays a crucial role in shaping the global landscape of access to medicines. While the TRIPS Agreement establishes a framework for IP protection, the flexibilities embedded within it, and further reinforced by the Doha Declaration, offer a lifeline for developing countries like Rwanda.

<sup>&</sup>lt;sup>183</sup> World Trade Organization (WTO). (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).

<sup>&</sup>lt;sup>184</sup> Ibid.

<sup>&</sup>lt;sup>185</sup> Abbott, F. M. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: Lighting a Dark Corner at the WTO. *Journal of International Economic Law*, 8(2), 469-505.

<sup>&</sup>lt;sup>186</sup> World Trade Organization. (2001). Doha Declaration on the TRIPS Agreement and Public Health.

These flexibilities empower countries to take measures to protect public health, even if it means temporarily overriding patent rights. However, it is important to note that the mere existence of these flexibilities does not guarantee their effective utilization. It requires a strong political will, technical capacity, and strategic advocacy to navigate the complexities of the TRIPS Agreement and leverage these flexibilities for the benefit of the population.

## **III.2.2.** World Intellectual Property Organization (WIPO)

The World Intellectual Property Organization (WIPO), a specialized agency of the United Nations, plays a complementary role in supporting countries like Rwanda in maximizing the benefits of TRIPS flexibilities<sup>187</sup>. Recognizing the unique challenges faced by developing nations in navigating the complexities of intellectual property rights, WIPO offers a range of capacity-building and technical assistance programs tailored to their needs.

WIPO's programs include training for IP professionals, legal and regulatory support, and access to valuable patent information through its comprehensive PATENTSCOPE database. PATENTSCOPE is a vast online database and search system that provides free and open access to millions of patent documents from around the world, including international patent applications, regional and national patent collections, and non-patent literature<sup>188</sup>. This resource is invaluable for researchers, policymakers, and businesses in the pharmaceutical sector as it allows them to identify existing patents, explore technological developments, and inform decision-making on issues like compulsory licensing.

These initiatives have been instrumental in strengthening Rwanda's IP infrastructure, enhancing the country's ability to effectively utilize TRIPS flexibilities to address public health concerns. For instance, WIPO's assistance has directly contributed to the revision of Rwanda's IP laws, ensuring that they incorporate provisions for compulsory licensing and parallel importation, two key mechanisms for increasing access to affordable medicines<sup>189</sup>.

The combined efforts of the WTO and WIPO, providing a framework of flexibilities and technical support, have empowered Rwanda to leverage institutional mechanisms to enhance access to essential medicines. This aligns with Hypothesis 2, suggesting that the effective utilization of TRIPS flexibilities can positively impact access to medicines in Rwanda.

<sup>&</sup>lt;sup>187</sup> World Intellectual Property Organization. (n.d.). WIPO Development Agenda.

<sup>&</sup>lt;sup>188</sup> World Intellectual Property Organization. (n.d.). PATENTSCOPE.

<sup>&</sup>lt;sup>189</sup> World Intellectual Property Organization. (n.d.). What is Intellectual Property?

By strategically using these mechanisms, Rwanda has been able to tackle pressing public health challenges while still adhering to its international trade obligations.

This integrated approach showcases the potential for a balanced and effective IP system that fosters innovation while ensuring the availability and affordability of essential medicines for all.

The collaboration between Rwanda and WIPO exemplifies the power of international cooperation in addressing complex global challenges. By providing technical expertise, capacity-building support, and access to valuable resources like PATENTSCOPE, WIPO has enabled Rwanda to navigate the intricacies of the TRIPS Agreement and utilize its flexibilities to protect public health. This partnership demonstrates that international organizations can play a vital role in supporting developing countries in their efforts to achieve their development goals, particularly in areas where specialized knowledge and resources are needed.

# III.2.2. The Role of the WTO in Facilitating Access to Medicines in Rwanda

The World Trade Organization (WTO) plays a pivotal role in shaping global trade regulations, including those governing intellectual property (IP) rights. Through the TRIPS Agreement, the WTO establishes minimum standards for IP protection, including patents on pharmaceutical products<sup>190</sup>.While TRIPS aims to incentivize innovation by protecting patent rights, it also recognizes the crucial need to balance these rights with public health priorities, particularly in developing nations.

To achieve this balance, TRIPS incorporates various flexibilities that empower countries like Rwanda to address public health concerns. These flexibilities include compulsory licensing (Article 31), which allows governments to authorize the production of generic versions of patented drugs under specific circumstances; parallel importation (Article 6), which enables the import of cheaper medicines from countries where they are sold at lower prices; and the Bolar exemption (Article 30), which allows for limited exceptions for research and early working on patented inventions<sup>191</sup>.

<sup>&</sup>lt;sup>190</sup> World Trade Organization. (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights.

<sup>&</sup>lt;sup>191</sup> Musungu, S. F., & Oh, C. (2006). The Use of Flexibilities in TRIPS by Developing Countries: Can They Promote Access to Medicines? South Centre.

The importance of these flexibilities is further underscored by the 2001 Doha Declaration on the TRIPS Agreement and Public Health.

This declaration explicitly affirms the right of WTO members to prioritize public health over patent rights when implementing TRIPS provisions<sup>192</sup>. In essence, it provides a legal and ethical justification for countries to utilize TRIPS flexibilities to ensure that their citizens have access to life-saving medications, regardless of patent status.

Beyond establishing the regulatory framework, the WTO actively supports its members in navigating the complexities of IP rights and public health. This support often comes in the form of technical assistance, capacity building, and dispute resolution mechanisms. For instance, the WTO's Paragraph 6 System, established under the Doha Declaration, enables countries with limited or no manufacturing capacity to import generic versions of patented medicines produced under compulsory licenses by other countries<sup>193</sup>. This system has proven instrumental in facilitating access to medicines in many developing countries, including Rwanda, demonstrating the tangible impact of the WTO's efforts to bridge the gap between intellectual property protection and public health.

The WTO's role in shaping Rwanda's access to medicines is complex and multifaceted. On one hand, the TRIPS Agreement, with its focus on IP protection, can present challenges for a developing country like Rwanda where affordability is a major concern. The high cost of patented medicines can often be a barrier to access, hindering the country's ability to provide essential healthcare to its citizens.

On the other hand, the flexibilities embedded within the TRIPS Agreement, and further reinforced by the Doha Declaration, offer Rwanda a powerful tool to navigate this challenge. These flexibilities have allowed Rwanda to take decisive action to protect public health, such as issuing compulsory licenses for HIV/AIDS drugs, a move that has undoubtedly saved countless lives.

However, the effectiveness of these flexibilities depends not only on their existence but also on Rwanda's ability to effectively utilize them.

<sup>&</sup>lt;sup>192</sup> Abbott, F.M. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: Lighting a Dark Corner at the WTO. Journal of International Economic Law, 8(2), 469-505.

<sup>&</sup>lt;sup>193</sup> World Trade Organization. (2001). Doha Declaration on the TRIPS Agreement and Public Health.

This requires a strong understanding of the complex legal and technical aspects of the TRIPS Agreement, as well as the political will to stand up to potential pressure from pharmaceutical companies and developed nations.

Rwanda's experience demonstrates that the WTO can be both a challenge and an ally in the pursuit of accessible and affordable medicines. While the TRIPS Agreement may pose initial hurdles, the flexibilities within it, coupled with the support and technical assistance provided by the WTO, offer a pathway for Rwanda to achieve its public health goals. The country's success in utilizing these flexibilities serves as an inspiration for other developing nations, demonstrating that it is possible to navigate the complexities of international trade law while prioritizing the health and well-being of one's citizens.

## **III.2.4.** World Health Organization (WHO)

The World Health Organization (WHO) plays a crucial role in advocating for the integration of public health considerations into global discussions on intellectual property (IP) rights. It actively supports countries like Rwanda in leveraging TRIPS flexibilities to maximize public health benefits<sup>194</sup>. Key contributions by WHO include providing technical guidance to Rwanda on the effective use of compulsory licensing and parallel importation to overcome barriers to accessing essential medicines. Additionally, WHO collaborates closely with Rwanda to create a regulatory environment that promotes generic competition and bolsters local pharmaceutical production, thus supporting sustainable healthcare solutions by enhancing Rwanda's research and development capabilities in the pharmaceutical sector<sup>195</sup>.

WHO's technical assistance also extends to capacity building in regulatory affairs and pharmacovigilance, ensuring that Rwanda has the necessary expertise to effectively regulate pharmaceutical markets and ensure the quality and safety of medicines<sup>196</sup>.

These efforts complement Rwanda's healthcare infrastructure, addressing critical health challenges through sustainable interventions.

The WHO's advocacy for integrating public health considerations into IP rights discussions is instrumental for Rwanda. The technical guidance provided by WHO on using TRIPS

<sup>&</sup>lt;sup>194</sup> World Health Organization. (2008). Rwanda's Strategy for Pharmaceutical Sector Development 2008-2013.

<sup>&</sup>lt;sup>195</sup> World Health Organization. (2014). Global Strategy and Plan of Action on Public Health, Innovation and Intellectual Property.

<sup>&</sup>lt;sup>196</sup> Rennie, S., & Beith, A. (2005). TRIPS Flexibilities and Public Health: A guide for developing countries negotiating free trade agreements.

flexibilities, such as compulsory licensing and parallel importation, empowers Rwanda to overcome barriers to accessing essential medicines.

WHO's collaboration in promoting generic competition and local pharmaceutical production aligns with Rwanda's strategy to enhance its healthcare infrastructure and research capabilities. By building regulatory and pharmacovigilance capacities, WHO ensures that Rwanda can effectively regulate pharmaceutical markets, guaranteeing the quality and safety of medicines. This comprehensive support is vital for implementing a regulatory framework that prioritizes public health within the scope of IP laws.

# III.2.5. UNITAID

UNITAID is a global health initiative hosted by the World Health Organization (WHO) that focuses on reducing the cost of essential medicines and diagnostic tools for HIV/AIDS, tuberculosis, and malaria. UNITAID's innovative financing mechanisms and market-based interventions have significantly impacted access to medicines in many low- and middle-income countries, including Rwanda<sup>197</sup>.

In Rwanda, UNITAID's strategies have facilitated the bulk procurement of quality-assured medicines at significantly reduced prices, making treatment more affordable and accessible to a larger segment of the population<sup>198</sup>. This has led to improved health outcomes by enabling more people to receive the necessary care for these life-threatening diseases.

Additionally, UNITAID has invested in diagnostic tools for HIV/AIDS, tuberculosis, and malaria, which has enhanced Rwanda's capacity for early detection and treatment of these diseases. Early diagnosis is crucial for successful treatment and prevention of further transmission, making UNITAID's investments in this area a vital component of Rwanda's public health strategy<sup>199</sup>.

UNITAID's innovative approach to tackling the challenges of access to medicines is particularly relevant in a resource-constrained country like Rwanda.

<sup>&</sup>lt;sup>197</sup> UNITAID. (2018). UNITAID Investment Case 2018-2023.

<sup>198</sup> Ibid.

<sup>&</sup>lt;sup>199</sup> Médecins Sans Frontières. (2017). UNITAID: 10 Years of Improving Access to HIV, TB, and Malaria Treatment.

By focusing on market-based solutions and innovative financing mechanisms, UNITAID has successfully lowered the cost of essential medicines and diagnostic tools, making them more accessible to those who need them most.

Their efforts have not only improved health outcomes in Rwanda but also served as a model for other countries facing similar challenges.

UNITAID's success in Rwanda highlights the importance of multi-faceted approaches to address access to medicines. It demonstrates how market interventions and innovative financing mechanisms can effectively complement traditional regulatory measures, such as compulsory licensing and parallel importation. By working together, these various approaches can create a more comprehensive and sustainable solution to the problem of access to medicines, ensuring that all people have the opportunity to receive the treatment they need to live healthy and productive lives.

# **III.2.6. TRIPS Council**

Rwanda actively participates in the TRIPS Council, a key body within the World Trade Organization (WTO) responsible for overseeing the implementation and interpretation of the TRIPS Agreement<sup>200</sup>. Through its engagement in multilateral discussions within the Council, Rwanda advocates for policies that prioritize public health in the global IP system.

Rwanda's participation in the TRIPS Council allows it to influence the interpretation of TRIPS flexibilities, ensuring that they are effectively utilized to address the country's specific healthcare needs. This includes advocating for greater flexibility in IP regulations, particularly in relation to compulsory licensing and parallel importation, and promoting technology transfer to enhance local pharmaceutical production.

By actively engaging in the TRIPS Council, Rwanda stays informed about global developments in IP rights, enabling the country to adapt its national policies to align with emerging trends and maximize the benefits of TRIPS flexibilities<sup>201</sup>.

This proactive approach supports Rwanda's overarching goal of ensuring equitable access to essential medicines while fostering innovation and economic development.

<sup>&</sup>lt;sup>200</sup> World Trade Organization. (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).

<sup>&</sup>lt;sup>201</sup> Abbott, F. M. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: Lighting a Dark Corner at the WTO. Journal of International Economic Law, 8(2), 469-505.

Rwanda's active participation in the TRIPS Council demonstrates its commitment to using international platforms to advocate for policies that prioritize public health. By engaging in multilateral discussions and influencing the interpretation of TRIPS flexibilities, Rwanda is actively shaping the global IP landscape to better serve the needs of its citizens. This proactive approach reflects a deep understanding of the complex relationship between IP rights and public health, as well as a determination to use all available tools to ensure access to affordable medicines.

Moreover, Rwanda's participation in the TRIPS Council underscores the importance of international cooperation and dialogue in addressing global health challenges. By sharing its experiences and advocating for policies that benefit developing countries, Rwanda is contributing to a more equitable and just global health system.

Ultimately, Rwanda's collaboration with WIPO, WHO, UNITAID, and active participation in the TRIPS Council exemplifies a comprehensive approach to navigating the complexities of IP rights in the pharmaceutical sector. By leveraging international partnerships and institutional mechanisms, Rwanda strengthens its ability to promote public health while fostering innovation and economic growth. This multi-faceted strategy serves as a model for other developing countries striving to achieve equitable access to essential medicines amidst global IP challenges.

# **III.2.7.** Ministry of Trade and Industry (MINICOM)

The Ministry of Trade and Industry (MINICOM) plays a pivotal role in Rwanda's strategy for balancing trade interests with public health priorities. Its mandate encompasses the formulation and implementation of intellectual property (IP) laws and regulations, ensuring alignment with international agreements like the TRIPS Agreement<sup>202</sup>. MINICOM actively fosters an environment conducive to innovation, attracting both local and international investments into the pharmaceutical sector<sup>203</sup>.

<sup>&</sup>lt;sup>202</sup> Ibid.

<sup>&</sup>lt;sup>203</sup> Government of Rwanda. (n.d.). Ministry of Trade and Industry (MINICOM). Retrieved July 13, 2024, from <a href="https://www.minicom.gov.rw/">https://www.minicom.gov.rw/</a>

This is achieved through policies that incentivize research and development, promote technology transfer, and protect IP rights while allowing for flexibilities like compulsory licensing in cases of national emergencies<sup>204</sup>.

Moreover, MINICOM's role extends beyond policy formulation to include active support for IP law enforcement through collaboration with international bodies like WIPO.

This collaborative effort includes capacity-building initiatives for local officials to effectively manage IP rights and ensure compliance with global standards. Furthermore, MINICOM plays a crucial role in fostering a competitive pharmaceutical market through policies that promote transparency in licensing and regulatory processes, thereby enhancing investor confidence and supporting sustainable growth in the sector.

MINICOM's role in balancing trade interests with public health priorities is crucial for the sustainable development of Rwanda's pharmaceutical sector. By creating a regulatory environment that both incentivizes innovation and ensures access to medicines, MINICOM is fostering a sector that can contribute to economic growth while also improving health outcomes for the population.

The Ministry's commitment to international collaboration, particularly with WIPO, is commendable as it helps to build local capacity and expertise in the area of intellectual property rights. This is essential for ensuring that Rwanda can effectively utilize the flexibilities provided by the TRIPS Agreement and safeguard public health interests.

Furthermore, MINICOM's focus on promoting transparency and competition in the pharmaceutical market is essential for attracting investment and fostering a vibrant and innovative sector.

By ensuring a level playing field for all players, including both domestic and foreign companies, MINICOM is creating a regulatory environment that is conducive to sustainable growth and development.

<sup>&</sup>lt;sup>204</sup> Ibid.

### III.2.8. Rwanda Development Board (RDB)

The Rwanda Development Board (RDB), tasked with spearheading Rwanda's economic transformation, plays a pivotal role in navigating the complex landscape of intellectual property (IP) regulation and access to medicines. It not only fosters a business-friendly environment to attract investment but also actively participates in shaping IP policies that prioritize public health.

The RDB's engagement in developing and implementing these policies demonstrates a commitment to striking a balance between international commitments under the TRIPS Agreement and the specific needs of the Rwandan population<sup>205</sup>. This balancing act is particularly crucial for a developing country like Rwanda, where the imperative for innovation must be carefully weighed against the urgent need for affordable access to essential medicines<sup>206</sup>.

The RDB's proactive role in IP policy formulation and implementation is a testament to Rwanda's commitment to finding sustainable solutions to the challenges of access to medicines. This approach, which actively seeks to balance the interests of various stakeholders, reflects a nuanced understanding of the complexities of the pharmaceutical industry and the need for context-specific solutions<sup>207</sup>. It is particularly encouraging to see a development-focused institution like the RDB taking such a proactive role in shaping public health policy, as this signals a recognition that health is not only a fundamental human right but also a crucial enabler of economic growth and development.

Furthermore, the RDB's efforts to attract investment while ensuring access to affordable medicines highlight a pragmatic approach to development. By creating a regulatory environment that fosters innovation while protecting public health, the RDB is sending a clear message to the global pharmaceutical industry: Rwanda is open for business, but not at the expense of its people's health.

 $<sup>^{205}</sup>$  Law n° 055/2024 of 20/06/2024 on the protection of intellectual property

<sup>&</sup>lt;sup>206</sup> Kiiza, D., & Kiwanuka, J. (2016). Intellectual Property and Access to Medicines in Developing Countries: The Case of Uganda. Journal of Intellectual Property Law & Practice, 11(11), 881-890.

<sup>&</sup>lt;sup>207</sup> 't Hoen, E. (2009). Compulsory Licensing of Pharmaceuticals and TRIPS: What are the Public Health Implications? Bulletin of the World Health Organization, 87(8), 636-640

#### **III.2.9.** Ministry of Health (MoH) and Rwanda Biomedical Center (RBC)

The Ministry of Health (MoH) and its operational arm, the Rwanda Biomedical Center (RBC), are central to ensuring equitable access to essential medicines. The MoH formulates national health sector policies that prioritize public health needs, including access to affordable medicines<sup>208</sup>.It collaborates with international partners to procure essential medicines at competitive prices and negotiates with pharmaceutical companies to secure favorable terms for the Rwandan population.

The MoH and RBC work in tandem to manage the procurement, distribution, and monitoring of medicines and healthcare supplies across Rwanda. The RBC's robust supply chain management and monitoring systems ensure that quality-assured medicines reach all healthcare facilities, highlighting the importance of a well-coordinated approach in the healthcare sector.

These institutions' roles are central to addressing access to medicines under the TRIPS Agreement, ensuring that vulnerable populations have equal access to essential medicines and healthcare services.

Furthermore, the RBC's initiatives extend to public health education and community outreach programs, promoting preventive healthcare practices and raising awareness about disease management strategies. By prioritizing health equity and accessibility, MOH and RBC contribute significantly to Rwanda's healthcare infrastructure and public health outcomes.

#### **III.2.10.** Rwanda Food and Drugs Authority (Rwanda FDA)

The Rwanda FDA stands as the regulatory gatekeeper for pharmaceutical products in Rwanda, entrusted with the critical task of assessing the safety, efficacy, and quality of medicines before they are authorized for marketing and distribution<sup>209</sup>. This rigorous oversight ensures that only medications meeting stringent standards reach patients, effectively safeguarding public health.

Beyond pre-market assessments, the Rwanda FDA maintains a proactive approach through continuous monitoring of pharmaceutical products once they are in circulation.

<sup>&</sup>lt;sup>208</sup> Government of Rwanda. (n.d.). Ministry of Health (MOH). Retrieved July 13, 2024, from https://www.moh.gov.rw/

<sup>&</sup>lt;sup>209</sup> Rwanda Food and Drugs Authority. (n.d.). Rwanda Food and Drugs Authority (Rwanda FDA). Retrieved July 13, 2024, from <u>https://www.rwandafda.gov.rw/</u>

Collaborating with international regulatory networks further strengthens Rwanda's capacity to respond effectively to emerging health threats and ensure compliance with global pharmacovigilance standards. Additionally, by fostering innovation and research within the pharmaceutical sector, the Rwanda FDA supports the development of new and improved healthcare solutions while maintaining a delicate balance between IP protection and the pressing needs of public health.

The Rwanda FDA's commitment to fostering a robust regulatory environment also extends to promoting ethical guidelines for biodiversity conservation and sustainable use practices in pharmaceutical research. These efforts contribute to Rwanda's reputation as a responsible and forward-thinking nation, supporting long-term economic growth while prioritizing environmental stewardship.

The Rwanda FDA's multifaceted role is vital for ensuring the safety, efficacy, and accessibility of medicines in the country. Its stringent regulatory processes act as a safeguard, protecting Rwandan citizens from substandard or harmful medications. By maintaining a proactive approach to monitoring and collaborating with international partners, the Rwanda FDA remains at the forefront of global health developments, enabling a swift and effective response to emerging health threats.

Furthermore, the agency's support for innovation and research within the pharmaceutical sector demonstrates a forward-thinking approach to healthcare. By fostering an environment conducive to research and development, while also considering ethical and sustainability aspects, the Rwanda FDA is contributing to the long-term health and economic well-being of the nation.

## III.2.11. Rwanda Standards Board (RSB)

The Rwanda Standards Board (RSB) plays a crucial role in ensuring the quality and safety of pharmaceutical products in Rwanda<sup>210</sup>. By setting and enforcing stringent quality standards for medicines, both locally manufactured and imported, the RSB contributes significantly to patient safety and builds trust in the healthcare system.

<sup>&</sup>lt;sup>210</sup> Rwanda Standards Board. (n.d.). Retrieved July 13, 2024, from <u>https://rsb.gov.rw/</u>

The board's quality assurance initiatives encompass a wide range of activities, including regular inspections of pharmaceutical manufacturing facilities, laboratories, and distribution channels.<sup>211</sup> Additionally, the RSB works diligently to harmonize its regulations with international guidelines and standards, promoting consistency and reliability in product quality.

Furthermore, the RSB actively collaborates with international regulatory bodies and standardssetting organizations. This proactive approach ensures that Rwandan patients have access to safe and effective medicines that meet or exceed stringent quality requirements set forth by global health authorities. Moreover, by supporting local manufacturers in achieving compliance with these international standards, the RSB plays a pivotal role in fostering the growth of the domestic pharmaceutical industry and enhancing Rwanda's capacity to produce high-quality medicines locally.

In addition to its regulatory and quality assurance functions, the RSB also focuses on promoting public awareness of pharmaceutical quality standards and consumer rights.

Through targeted education and outreach programs, the board empowers healthcare professionals and consumers to make informed decisions about medication use and safety. By fostering transparency and accountability throughout the pharmaceutical supply chain, RSB strengthens patient confidence in the quality and efficacy of medicines available in Rwanda.

The RSB's commitment to upholding high standards of quality and safety in the pharmaceutical sector is critical for protecting public health and fostering trust in the healthcare system.

By enforcing strict regulations and promoting international best practices, the RSB is playing a vital role in ensuring that Rwandan patients have access to safe and effective medicines.

Moreover, the RSB's efforts to support local pharmaceutical manufacturers in achieving compliance with international standards are crucial for the development of a sustainable and self-reliant pharmaceutical industry in Rwanda. This not only contributes to economic growth but also enhances the country's ability to respond to its own healthcare needs.

The RSB's focus on public awareness and consumer education is equally commendable. By empowering individuals to make informed choices about their medication and understand their rights as consumers, the RSB is promoting a culture of patient safety and responsibility.

<sup>&</sup>lt;sup>211</sup> Ibid.

## **III.2.12. Rwanda Medical Supply (RMS Ltd)**

Rwanda's institutional framework, specifically the Rwanda Medical Supply (RMS Ltd), exemplifies how leveraging TRIPS flexibilities can significantly improve access to essential medicines. RMS Ltd, a public-private partnership, plays a central role in the procurement, storage, and distribution of pharmaceuticals throughout the country<sup>212</sup>.

In collaboration with government agencies like the Ministry of Health (MoH) and the Rwanda Biomedical Centre (RBC), RMS Ltd ensures that medicines reach even the most remote areas of the country<sup>213</sup>. This logistical expertise is crucial for operationalizing TRIPS flexibilities, such as compulsory licensing and parallel importation, which can help procure affordable generic versions of patented medicines. By ensuring efficient distribution, RMS Ltd maximizes the impact of these flexibilities, bridging the gap between policy and practice<sup>214</sup>.

Moreover, RMS Ltd works hand-in-hand with regulatory bodies like the Rwanda Food and Drugs Authority (Rwanda FDA) and the Rwanda Standards Board (RSB) to uphold stringent quality standards for medicines<sup>215</sup>. This collaboration ensures that all medicines distributed through RMS Ltd meet international benchmarks for safety and efficacy, thereby safeguarding public health. In this way, regulatory diligence reinforces the effectiveness of TRIPS flexibilities by guaranteeing that imported or locally produced generic medicines are of high quality.

Furthermore, RMS Ltd's strategic procurement practices leverage TRIPS flexibilities to optimize medicine sourcing and achieve cost-efficiency<sup>216</sup>. By negotiating favorable pricing and terms with suppliers, both domestic and international, RMS Ltd ensures the affordability of essential medicines, aligning with Rwanda's commitment to equitable healthcare access. This approach directly addresses the financial barriers that often hinder access to medicines, particularly in low-income and rural areas.

<sup>&</sup>lt;sup>212</sup> Rwanda Medical Supply (RMS Ltd). (2023). Annual Report 2023. Kigali, Rwanda: RMS Ltd.

<sup>&</sup>lt;sup>213</sup> Ministry of Health (MOH). (2020). National Health Sector Strategic Plan 2020-2024. Kigali, Rwanda: MOH. <sup>214</sup> Reichman, J.H. (2005). The TRIPS Agreement Comes of Age: Conflict or Cooperation Between the Trade and Health Regimes? Chicago Journal of International Law, 6(2), 437-462.

<sup>&</sup>lt;sup>215</sup> Rwanda Food and Drugs Authority (Rwanda FDA). (2016).Regulatory Guidelines for Registration of Pharmaceutical Products. Kigali, Rwanda: Rwanda FDA.

<sup>&</sup>lt;sup>216</sup> Waning, B., Diedrichsen, E., & Moon, S. (2017). How the WTO Changed the Global Politics of Pharmaceutical Patents: The Case of Compulsory Licensing for Export. Review of International Political Economy, 24(6), 1013-1043.

RMS Ltd stands as a testament to Rwanda's commitment to translating policy into action when it comes to access to medicines. By strategically leveraging TRIPS flexibilities and collaborating effectively with other stakeholders, RMS Ltd has played a crucial role in expanding access to affordable and quality-assured medicines throughout the country.

This exemplifies the power of well-designed institutional mechanisms in effectively implementing public health policies.

The organization's focus on ensuring efficient distribution of medicines, even to remote areas, is particularly commendable. This addresses a critical challenge in many developing countries, where logistical hurdles can often prevent medicines from reaching those who need them most. By overcoming these barriers, RMS Ltd is ensuring that the benefits of TRIPS flexibilities are realized at the grassroots level, where they can have the greatest impact on people's lives.

Furthermore, RMS Ltd's commitment to quality assurance through collaboration with regulatory bodies like the Rwanda FDA and RSB is crucial for maintaining public trust in the healthcare system.

It also ensures that the medicines procured through TRIPS flexibilities meet the highest standards of safety and efficacy, further strengthening the case for their use in promoting public health.

## III.2.13. Rwanda Investigation Bureau (RIB)

In Rwanda, the Rwanda Investigation Bureau (RIB) plays a pivotal role in protecting intellectual property rights (IPRs) within the pharmaceutical sector. Established under Law No. 12/2017 of 07/04/2017, which defines its mission, powers, organization, and functioning, RIB's mandate encompasses critical responsibilities that bolster IPR protection and contribute to public health.

Foremost among RIB's duties is the enforcement of intellectual property laws, with a particular focus on the pharmaceutical industry. The bureau actively investigates and prosecutes patent infringements, unauthorized production of medicines, and distribution of counterfeit drugs. This enforcement protects pharmaceutical innovations and ensures the safety and quality of medicines available to the public<sup>217</sup>.

<sup>&</sup>lt;sup>217</sup> Rwanda Investigation Bureau (RIB): <u>https://www.rib.gov.rw</u>

Collaboration with other key institutions is integral to RIB's strategy. The agency partners with the Rwanda Food and Drugs Authority (RwandaFDA) and the Rwanda Revenue Authority (RRA) to oversee the pharmaceutical supply chain rigorously.

This joint oversight facilitates effective monitoring of pharmaceutical imports, exports, and local production, allowing for prompt and coordinated responses to IP violations.<sup>218</sup>

To address IP-related offenses effectively, RIB emphasizes capacity building by investing in continuous training and development programs for its officers. This commitment enhances the bureau's ability to handle complex IP infringement cases, thereby strengthening IP protections across the sector.<sup>219</sup>

Public awareness initiatives form another cornerstone of RIB's efforts. The bureau conducts campaigns aimed at educating consumers, healthcare professionals, and industry stakeholders about the significance of IP rights and the dangers associated with counterfeit pharmaceuticals. RIB also provides accessible channels for reporting suspected IP violations, encouraging public participation in protecting IPRs.

Moreover, RIB collaborates closely with the judiciary and legal professionals to ensure the effective prosecution of IP infringement cases. This collaboration fortifies the legal framework for IP protection in Rwanda's pharmaceutical sector and supports adherence to international agreements, such as the TRIPS Agreement<sup>220</sup>.

Through these concerted efforts, RIB is instrumental in upholding intellectual property rights in Rwanda's pharmaceutical industry. By protecting innovations and fostering compliance with legal standards, RIB not only enhances the investment landscape in the sector but also advances the broader objective of improving access to quality, affordable medicines for all Rwandans.

<sup>&</sup>lt;sup>218</sup> Rwanda Food and Drugs Authority (RwandaFDA): <u>https://www.rwandafda.gov.rw</u>, Rwanda Revenue Authority (RRA): <u>https://www.rra.gov.rw</u>

<sup>&</sup>lt;sup>219</sup> Ibid.

<sup>&</sup>lt;sup>220</sup> World Trade Organization (WTO): <u>https://www.wto.org</u>

## **III.3. REGIONAL AND BILATERAL COOPERATION**

Rwanda's strategic engagement in regional and bilateral cooperation initiatives has significantly bolstered its capacity to utilize TRIPS flexibilities for improved access to essential medicines. This section examines the roles of key regional organizations and international collaborations in shaping Rwanda's pharmaceutical landscape.

## **III.3.1.** African Union (AU)

The African Union (AU) serves as a crucial continental platform for promoting regional integration and cooperation among African nations. In the realm of intellectual property (IP), the AU plays a vital role in developing overarching IP policies and frameworks that member states can adopt to enhance IP protection while also safeguarding public health interests<sup>221</sup>. These frameworks align with international standards, including those set forth in the TRIPS Agreement, but also consider the unique challenges and needs of African countries.

Through its specialized agencies, such as the African Regional Intellectual Property Organization (ARIPO)<sup>222</sup>, the AU provides technical assistance and capacity-building programs to strengthen member states' capabilities in implementing and enforcing IP laws effectively. Rwanda has actively participated in these initiatives, benefitting from training programs and technical support that enhance its ability to leverage TRIPS flexibilities for improved access to medicines.

The AU's role in fostering regional cooperation on intellectual property is crucial for African countries like Rwanda. By providing a platform for dialogue and collaboration, the AU enables member states to develop harmonized IP policies that promote innovation and economic growth while also safeguarding public health. This approach recognizes the interconnectedness of African economies and the need for collective action to address shared challenges.

The AU's focus on capacity building is particularly important, as it empowers countries like Rwanda to develop the expertise and infrastructure needed to effectively manage their IP systems. This includes training IP professionals, strengthening regulatory bodies, and promoting awareness of IP rights among various stakeholders.

<sup>&</sup>lt;sup>221</sup> African Union. (2016). Intellectual Property Rights and Access to Medicines in Africa: Policy Framework and Strategy

<sup>&</sup>lt;sup>222</sup> African Regional Intellectual Property Organization (ARIPO). (2023). ARIPO Annual Report 2023. Harare, Zimbabwe: ARIPO.

The ARIPO, as an intergovernmental organization, plays a pivotal role in facilitating cooperation among African countries in intellectual property matters. It provides a regional platform for harmonizing IP laws and policies, thereby promoting innovation, technology transfer, and economic growth across member states<sup>223</sup>.

Rwanda, as an ARIPO member state, benefits from the organization's support in developing and harmonizing IP laws related to patents, trademarks, industrial designs, and copyrights. This harmonization ensures consistency and facilitates trade and investment in the pharmaceutical sector.

Additionally, ARIPO offers training programs and workshops to build the capacity of Rwanda's IP office, enabling it to effectively utilize TRIPS flexibilities to address public health challenges.ARIPO's work in promoting regional harmonization of IP laws is essential for creating a more conducive environment for innovation and trade in Africa<sup>224</sup>.

By working together, member states can avoid conflicting or incompatible IP regimes that could hinder cross-border collaboration and investment. ARIPO's capacity-building initiatives are also crucial for empowering African countries to effectively manage their IP systems and leverage TRIPS flexibilities to promote access to medicines. Rwanda's engagement with the African Union and ARIPO underscores its commitment to leveraging regional cooperation to strengthen IP frameworks. This collaboration not only supports Rwanda's domestic pharmaceutical sector but also contributes to broader regional integration and economic development.

## **III.3.2.** East African Community (EAC)

The East African Community (EAC) is a regional intergovernmental organization that brings together seven member countries in East Africa. These member states include Burundi, Kenya, Rwanda, South Sudan, Tanzania, Uganda, and the Democratic Republic of Congo (DRC) plays a vital role in promoting regional integration and cooperation among its member states.

 <sup>&</sup>lt;sup>223</sup> African Regional Intellectual Property Organization (ARIPO). (2015). The Harare Protocol on Patents and Industrial Designs. Harare, Zimbabwe: ARIPO
 <sup>224</sup> Ibid.

Its mandate extends to various sectors, including intellectual property (IP), where the EAC actively works towards harmonizing IP laws and policies to facilitate trade and economic development while safeguarding access to essential medicines<sup>225</sup>.

The EAC is committed to developing a common IP regime that aligns with international standards, including those set forth in the TRIPS Agreement<sup>226</sup>.

This regime aims to provide a unified framework for IP protection across member states, enhancing regulatory coherence and facilitating the movement of goods, including pharmaceutical products. Rwanda actively participates in EAC initiatives aimed at harmonizing IP laws and policies, leveraging these efforts to optimize the use of TRIPS flexibilities for improved access to medicines.

Rwanda's active participation in the East African Community's initiatives towards IP harmonization underscores its strategic approach to aligning its IP laws with regional standards. This regional cooperation not only enhances Rwanda's regulatory environment, making it more conducive to trade and investment, but also streamlines access to essential medicines across the region. This reinforces the country's commitment to both public health and economic integration within East Africa.

The EAC's efforts to establish a common IP regime present a promising opportunity for Rwanda to learn from and collaborate with its neighbors in addressing shared challenges related to intellectual property and access to medicines. By working together, EAC member states can create a more efficient and effective regional framework that fosters innovation, protects public health, and contributes to sustainable economic development.

## **III.4. CIVIL SOCIETY AND NGOs**

## **III.4.1. Health Action International (HAI)**

Health Action International (HAI) is a global network advocating for equitable access to medicines and pharmaceutical policy reforms. In Rwanda, HAI collaborates with local stakeholders to influence policy decisions and promote strategies that enhance access to essential medicines while respecting intellectual property rights<sup>227</sup>.

<sup>&</sup>lt;sup>225</sup> Ibid.

<sup>&</sup>lt;sup>226</sup> Ibid.

<sup>&</sup>lt;sup>227</sup> Health Action International (HAI). (2023). HAI Africa Annual Report 2023. Amsterdam, Netherlands: HAI.

HAI's advocacy efforts focus on promoting fair pricing mechanisms for pharmaceutical products in Rwanda. This includes advocating for transparency in pricing strategies and promoting competition to reduce medicine prices. Through research and policy analysis, HAI provides evidence-based recommendations to policymakers in Rwanda, exploring the impact of TRIPS flexibilities on access to medicines and recommending strategies to optimize their use for public health benefits<sup>228</sup>.

Collaborating with Health Action International allows Rwanda to address challenges in pharmaceutical pricing and access. HAI's advocacy provides Rwanda with valuable perspectives on leveraging TRIPS flexibilities effectively, enhancing the country's ability to promote public health while respecting IP rights.

# III.4.2. Médecins Sans Frontières (MSF)

Médecins Sans Frontières (MSF), or Doctors Without Borders, provides medical humanitarian assistance worldwide and advocates for improved access to medicines, particularly in underserved populations. In Rwanda, MSF supports healthcare delivery and advocates for policies that ensure equitable access to essential medicines<sup>229</sup>.

MSF's advocacy efforts in Rwanda include campaigning for policies that facilitate access to affordable medicines, including the use of TRIPS flexibilities like compulsory licensing to ensure the availability of generic medicines for treating diseases like HIV/AIDS, tuberculosis, and malaria<sup>230</sup>.

Through its operational experience and advocacy work, MSF contributes to strengthening Rwanda's healthcare system and improving access to quality healthcare services, including essential medicines.

Médecins Sans Frontières' initiatives complement Rwanda's efforts to enhance healthcare access through strategic policy advocacy. Rwanda benefits from MSF's operational expertise and advocacy for affordable medicines, aligning with the country's goals of improving healthcare outcomes and ensuring access to essential medicines for all Rwandans.

<sup>&</sup>lt;sup>228</sup> Idem

<sup>&</sup>lt;sup>229</sup> Médecins Sans Frontières (MSF). (2023). Pills and Politics: MSF's Essential Medicines Campaign in 2023. Geneva, Switzerland.

<sup>&</sup>lt;sup>230</sup> Idem

#### **GENERAL CONLUSION AND RECOMMENDATIONS**

This section summarizes the key findings of the study and provides recommendations based on the analysis. It highlights the conclusions drawn regarding the balance between intellectual property protection and access to medicines in Rwanda, emphasizing the importance of utilizing TRIPS flexibilities. The recommendations aim to guide policymakers and stakeholders in improving legal and institutional frameworks to ensure better access to essential medicines while fostering innovation in the pharmaceutical sector.

#### **GENERAL CONCLUSION**

This study offers a comprehensive analysis of Rwanda's efforts to balance its international intellectual property obligations under the TRIPS Agreement with the need to ensure access to affordable medicines for its population. Rwanda's experience highlights the challenges developing nations face in navigating stringent patent protections while addressing public health priorities. Nevertheless, it also illustrates a proactive approach, leveraging TRIPS flexibilities, strategic legal frameworks, and collaboration with international organizations to overcome these challenges.

#### Key Findings

- Challenges of TRIPS Compliance: The stringent patent protections mandated by the TRIPS Agreement significantly impact the accessibility and affordability of medicines in Rwanda. These protections can lead to high drug prices, making it difficult for many Rwandans to access essential medications.
- 2. *Limited Utilization of TRIPS Flexibilities:* Although TRIPS provides for certain flexibilities, such as compulsory licensing and parallel importation, Rwanda has faced challenges in fully utilizing these mechanisms due to regulatory, infrastructural, and capacity constraints.
- 3. *Dependence on Imported Medicines*: Rwanda's heavy reliance on imported pharmaceuticals, coupled with a limited local manufacturing capacity, exacerbates issues related to drug availability and affordability.
- 4. *Emerging Legal and Institutional Frameworks:* Rwanda has made significant strides in aligning its intellectual property laws with international standards while incorporating public health considerations. Laws such as Law No. 31/2009 on

intellectual property and Law No. 36/2012 on Competition and Consumer Protection are pivotal in this regard.

5. *International and Regional Cooperation*: Rwanda's engagement with international organizations such as the WTO, WIPO, WHO, and regional bodies like the EAC, ARIPO plays a crucial role in shaping its approach to intellectual property and public health. The involvement of civil society and NGOs further strengthens efforts towards ensuring access to medicines.

The legal analysis underscores the need for a nuanced approach that balances intellectual property rights with public health imperatives. Effective utilization of TRIPS flexibilities, robust local manufacturing capacities, and strategic international cooperation are essential for Rwanda to achieve this balance.

## RECOMMENDATIONS

Based on the findings of this legal analysis, the following recommendations are proposed to further enhance Rwanda's ability to balance pharmaceutical innovation with access to medicines:

- Strategic Utilization of TRIPS Flexibilities: Continue to leverage TRIPS flexibilities, such as compulsory licensing, to address public health emergencies and ensure access to essential medicines. Streamline the process for issuing compulsory licenses and ensure transparency in decision-making.
- 2. Investment in Local Pharmaceutical Manufacturing: Foster local manufacturing capacity through incentives such as tax breaks, technology transfer agreements, and infrastructure development. This will reduce reliance on imported medicines and enhance the availability of affordable generics.
- **3.** *Fostering Public-Private Partnerships*: Encourage collaboration between the government, pharmaceutical companies, and international organizations to develop innovative solutions for improving access to medicines. This can include joint research and development initiatives, technology transfer agreements, and pricing negotiations.
- 4. Strengthen Regulatory and Institutional Mechanisms: Invest in the capacity of regulatory agencies, such as the Rwanda Food and Drugs Authority (Rwanda FDA), to ensure the quality and safety of medicines. This involves providing training, resources, and establishing robust quality control mechanisms.

**5.** *Continued Advocacy on the Global Stage*: Advocate for greater flexibility within the TRIPS Agreement to address the specific needs of developing countries. Participate actively in international negotiations and collaborate with other LMICs to push for reforms that prioritize public health over commercial interests.

By implementing these recommendations, Rwanda can further strengthen its efforts to achieve a sustainable balance between intellectual property protection and access to medicines, ensuring that its citizens have access to the essential healthcare they need. This approach can serve as an inspiration and a roadmap for other developing nations facing similar challenges, contributing to the global goal of universal health coverage and health equity.

# **BIBLIOGRAPHY**

# I. LEGAL INSTRUMENTS

# I.1. Constitution

 Constitution of the Republic of Rwanda (2023), Official Gazette n° Special of 04/08/2023.

# I.2. International Treaties and Agreements Ratified by Rwanda

- World Trade Organization (WTO). (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).
- 2. World Trade Organization. (2001). Doha Declaration on the TRIPS Agreement and Public Health.
- 3. United Nations. (2015). *Transforming our world: The 2030 Agenda for Sustainable Development*. New York.
- 4. United Nations Commission on International Trade Law.

# I.3. Ordinary Laws

- Law n° 055/2024 of 20/06/2024 on the protection of intellectual property, Official Gazette n° Special of 31/07/2024.
- Law n°36/2012 of 21/09/2012 relating to competition and consumer protection, *Official Gazette n° 46 of 12/11/2012*.
- Law N° 003/2018 of 09/02/2018 Establishing Rwanda Food and Drugs Authority and Determining its Mission, Organisation and Functioning, *Official Gazette n° Special of* 27/02/2018.
- Law No 057/2023 of 17/11/2023 Governing Rwanda Development Board, Official Gazette n° 48 Bis of 04/12/2023.
- Law N°12/2017 of 07/04/2017 Establishing the Rwanda Investigation Bureau and determining its Mission, Powers, Organisation and Functioning, *Official Gazette n°* Special of 20/04/2017.

## II. BOOKS

- Arrow, K. J. (1962). Economic welfare and the allocation of resources for invention. In The rate and direction of inventive activity: Economic and social factors (pp. 609-626). Princeton University Press.
- Boldrin, M., & Levine, D. K. (2008). Against intellectual monopoly. Cambridge University Press. Retrieved from <u>https://www.cambridge.org/core/books/against-intellectual-monopoly/B4548895B72959727FB0971B519EB2BA</u>
- 3. Correa, C. M. (2007). Intellectual property rights, the WTO and developing countries: The TRIPS agreement and policy options. Zed Books.
- 4. Locke, J. (1689). Two treatises of government.
- 5. Mill, J. S. (1863). Utilitarianism. Retrieved from http://www.naharvard.pl/uploads/lektury/JS-Mill-Utilitarianism-1863.pdf
- 6. Musungu, S. F., & Oh, C. (2006). The use of flexibilities in TRIPS by developing countries: Can they promote access to medicines? South Centre.
- 7. Schumpeter, J. A. (1942). Capitalism, socialism and democracy. Harper & Brothers.
- Beall, R., & Kuhn, M. (2012). The TRIPS Agreement and access to medicines in developing countries. Bulletin of the World Health Organization, 90(6), 464-464A. Retrieved from <u>https://www.who.int/publications/bulletin/trips-agreement-accessto-medicines-developing-countries/en/</u>
- Médecins Sans Frontières. (2015). Untangling the web of antiretroviral price reductions. Retrieved from <u>https://msfaccess.org/utw</u>
- Waning, B., Diedrichsen, E., & Moon, S. (2017). The TRIPS Agreement and pharmaceutical patents. Health Economics, Policy and Law, 12(3), 261-281. Retrieved from <u>https://doi.org/10.1017/S1744133116000490</u>
- World Health Organization. (2017). Global strategy and action plan on access to medicines, vaccines and other essential health products. Retrieved from <u>https://www.who.int/publications/global-strategy-action-plan-access-</u> <u>medicines/en/</u>

- United Nations. (2015). Transforming our world: The 2030 Agenda for Sustainable Development. New York.
- Reichman, J. H. (2009). The TRIPS Agreement Comes of Age: Conflict or Cooperation Between the Trade and Health Regimes?
- 14. World Health Organization. (n.d.). Rwanda. Retrieved July 13, 2024, from <a href="https://www.who.int/countries/rwa">https://www.who.int/countries/rwa</a>
- 15. World Bank. (n.d.). Poverty headcount ratio at national poverty lines (% of population). Retrieved August 8, 2024, from <a href="https://data.worldbank.org/indicator/SI.POV.NAHC?locations=RW">https://data.worldbank.org/indicator/SI.POV.NAHC?locations=RW</a>
- 16. Cornell Legal Information Institute: <u>https://www.law.cornell.edu/wex/property</u>
- 17. U.S. Legal: Exclusion Law & Legal Definition: https://definitions.uslegal.com/e/exclusion/
- 18. World Intellectual Property Organization. (2016). Promoting access to medical technologies and innovation: Intersections between public health, intellectual property and trade.
- 19. World Intellectual Property Organization. (n.d.). WIPO Development Agenda.
- 20. World Intellectual Property Organization. (n.d.). PATENTSCOPE.
- 21. World Intellectual Property Organization. (n.d.). What is Intellectual Property?
- 22. World Health Organization. (2018). Promoting access to medical technologies and innovation. Retrieved from <a href="https://www.who.int/publications/i/item/9789240008267">https://www.who.int/publications/i/item/9789240008267</a> on August 8, 2024.

#### **III. JOURNALS**

- Forman, L. (2018). Balancing pharmaceutical innovation with global health needs: The TRIPs flexibilities and intellectual property in the twenty-first century. Georgetown Journal of International Law, 49(3), 791-839. Retrieved from <u>https://georgetownlawjournal.org/articles/10.2139/ssrn.3259981/</u>
- Hemphill, C. S., & Sampat, B. N. (2012). Evergreening, patent challenges, and effective patent life in pharmaceuticals. Journal of Health Economics, 31(2), 327-339. Retrieved from <u>https://pubmed.ncbi.nlm.nih.gov/22425766/</u>

- Hoen, E. 't. (2009). The Doha Declaration on the TRIPS Agreement and Public Health: Opportunities and challenges for access to essential medicines in developing countries. World Trade Review, 8(3), 389-433.
- Rwiyereka, A., & Uwizeyimana, L. (2023). Compulsory Licensing and Access to Medicines in Rwanda: A Legal and Policy Analysis. Global Health Action, 16(1), 221753.
- Lybecker, K. M. (2010). Compulsory Licensing of Pharmaceuticals under TRIPS: A Necessary Evil or an Unnecessary Diversion? Northwestern Journal of Technology and Intellectual Property, 8(2), 1.
- Abbott, F. M. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: Lighting a Dark Corner at the WTO. Journal of International Economic Law, 8(2), 469-505.
- Waning, B., Diedrichsen, J., & Moon, S. (2017). The impact of patents and regulatory data protection on pharmaceutical prices: A review of the empirical literature related to emerging markets. Health Policy and Planning, 32(8), 1180-1203.
- Lu, C., & Schneider, H. (2014). Assessing Rwanda's pharmaceutical policy environment: Implications for pharmaceutical policy development and implementation. Globalization and Health, 10(1), 1-14.
- Mugeni, C., Ntaganira, J., Miot, J., Bisangwa, A., Nisingizwe, M., & Ford, N. (2016). Aid dependence and medicines procurement in Rwanda: Implications for access to medicines and pharmaceutical system development. Health Policy and Planning, 31(10), 1325-1333.
- Kiiza, D., & Kiwanuka, J. (2016). Intellectual Property and Access to Medicines in Developing Countries: The Case of Uganda. Journal of Intellectual Property Law & Practice, 11(11), 881-890.
- Outterson, K. (2012). The Challenges of Biomedical Innovation: What the Past Can Teach the Future. Nature Biotechnology, 30(8), 737-741.
- Reichman, J.H. (2005). The TRIPS Agreement Comes of Age: Conflict or Cooperation Between the Trade and Health Regimes? Chicago Journal of International Law, 6(2), 437-462.

- Waning, B., Diedrichsen, E., & Moon, S. (2017). How the WTO Changed the Global Politics of Pharmaceutical Patents: The Case of Compulsory Licensing for Export. Review of International Political Economy, 24(6), 1013-1043.
- 14. Bodimeade, C., & Deane, F. (2023). Evolving theory of IP rights: Promoting human rights in the Agreement on Trade-Related Aspects of Intellectual Property Rights. Journal of Intellectual Property Law & Practice, 18(8), 603-614. Retrieved from <u>https://academic.oup.com/jiplp/article/18/8/603/7191028</u>
- 15. Correa, C. M. (2009). Intellectual property rights and inequalities in access to medicines. Bulletin of the World Health Organization, 87(4), 245-245.
- 16. Hoen, E. F. 't. (2009). The global politics of pharmaceutical monopoly power: Drug patents, access, innovation and the application of the Doha Declaration on TRIPS and Public Health. Die Pharmazeutische Industrie, 71(9), 795-802.
- Reichman, J. H. (2009). Rethinking TRIPS and the Doha Declaration: Strategies for access to affordable drugs in developing countries. Journal of International Economic Law, 12(3), 599-627.

#### **IV. ELECTRONIC SOURCES**

- 1. World Health Organization. (2021, May). The right to health. Retrieved from <a href="https://www.who.int/countries/rwa">https://www.who.int/countries/rwa</a>
- World Intellectual Property Organization (WIPO). "What is Intellectual Property?" Available at: <u>https://www.wipo.int/about-ip/en/</u>
- 3. WIPO. "What is a Trademark?" Retrieved from <u>https://www.wipo.int/trademarks/en/</u>
- 4. WIPO. "What is a Trade Secret?" Retrieved from <u>https://www.wipo.int/tradesecrets/en/</u>
- 5. WIPO. "What is an Industrial Design?" Retrieved from https://www.wipo.int/designs/en/
- 6. WIPO. "What is a Geographical Indication?" Retrieved from https://www.wipo.int/geo\_indications/en/
- 7. WIPO. "What is a Layout Design?" Retrieved from <u>https://www.wipo.int/designs/en/</u>

- The Pharmaceutical Industry in Figures 2023. Retrieved from <u>https://www.efpia.eu/media/rm4kzdlx/the-pharmaceutical-industry-in-figures-</u> <u>2023.pdf</u>
- 9. Pharmaceutical legislation and regulation Management Sciences for Health. Retrieved from <a href="https://msh.org/wp-content/uploads/2013/04/mds3-ch06-legislation-mar2012.pdf">https://msh.org/wp-content/uploads/2013/04/mds3-ch06-legislation-mar2012.pdf</a>
- Prices, availability and affordability of medicines in Rwanda, Thomas Bizimana, 2020. Retrieved from <u>https://pubmed.ncbi.nlm.nih.gov/32745100/</u>
- 11. Rwanda The Medicines, Technologies, and Pharmaceutical Services (MTaPs) Program. Retrieved from <u>https://www.mtapsprogram.org/where-we-work/rwanda/</u>
- 12. USAID MTaPS Program: Eliminating Poor-Quality Medicines through an Effective Regulatory System in Rwanda. Retrieved from <u>https://www.ghsupplychain.org/news/eliminating-poor-quality-medicines-through-</u> <u>effective-regulatory-system-rwanda</u>
- 13. "What is Comparative Analysis? Guide with Examples" by Dovetail. Retrieved from <a href="https://dovetail.com/research/comparative-analysis/">https://dovetail.com/research/comparative-analysis/</a>
- 14. World Trade Organization. (1994). Agreement on Trade-Related Aspects of Intellectual

   Property
   Rights
   (TRIPS).
   Retrieved
   from

   https://www.wto.org/english/docs\_e/legal\_e/27-trips\_01\_e.htm
- 15. World Health Organization. (n.d.). Rwanda. Retrieved July 13, 2024, from <a href="https://www.who.int/countries/rwa">https://www.who.int/countries/rwa</a>
- 16. World Bank. (n.d.). Poverty headcount ratio at national poverty lines (% of population).

   Retrieved
   August
   8,
   2024,
   from

   <a href="https://data.worldbank.org/indicator/SI.POV.NAHC?locations=RW">https://data.worldbank.org/indicator/SI.POV.NAHC?locations=RW</a>
- 17. Cornell Legal Information Institute: <u>https://www.law.cornell.edu/wex/property</u>
- 18. U.S.
   Legal:
   Exclusion
   Law
   & Legal
   Definition:

   https://definitions.uslegal.com/e/exclusion/
- World Health Organization. (2018). Promoting access to medical technologies and innovation. Retrieved from <u>https://www.who.int/publications/i/item/9789240008267</u> on August 8, 2024.

- 20. Government of Rwanda. (n.d.). Ministry of Trade and Industry (MINICOM). Retrieved July 13, 2024, from <u>https://www.minicom.gov.rw/</u>
- 21. Rwanda Food and Drugs Authority. (n.d.). Rwanda Food and Drugs Authority (Rwanda FDA). Retrieved July 13, 2024, from <u>https://www.rwandafda.gov.rw/</u>
- 22. Rwanda Standards Board. (n.d.). Retrieved July 13, 2024, from https://rsb.gov.rw/
- 23. World Health Organization. "Using TRIPS Flexibilities to Improve Access to HIV/AIDS Treatment." 2006.
- 24. Novartis International AG. "Patent Application for Imatinib Mesylate." 2006.
- 25. Indian Patent Office. "Rejection of Novartis's Patent Application." 2006.
- 26. Rwanda Revenue Authority (RRA): https://www.rra.gov.rw
- 27. Rwanda Investigation Bureau (RIB): https://www.rib.gov.rw

28.

#### **V. GENERAL PRINCIPLES**

- Black's Law Dictionary. (2019). Real Property. Retrieved from <u>https://www.law.cornell.edu/wex/real\_property</u>
- 2. Black's Law Dictionary. (2019). Personal Property. Retrieved from https://www.law.cornell.edu/wex/personal\_property
- 3. Cornell Legal Information Institute. Property. Retrieved from <u>https://www.law.cornell.edu/wex/property</u>
- 4. Merriam-Webster Dictionary. Possession. Retrieved from <u>https://www.merriam-webster.com/dictionary/possession</u>
- 5. Katushabe, J. (2024). Land and Property Law. Lecturer notes, ULK.
- 6. U.S. Legal: Exclusion Law & Legal Definition. Retrieved from https://definitions.uslegal.com/e/exclusion/
- United Nations. (2015). Transforming our world: the 2030 Agenda for Sustainable Development. United Nations.

- 8. World Intellectual Property Organization (WIPO). (2017). General Principles of Law Applicable to Intellectual Property (IP). WIPO Publication No. 903(E).
- Correa, C. "Implications of the Doha Declaration on the TRIPS Agreement and Public Health." 2002.
- 10. Oxfam International. "The Doha Declaration Explained." 2001.
- World Intellectual Property Organization. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: A Fact Sheet.
- Abbott, F. M. (2005). The Doha Declaration on the TRIPS Agreement and Public Health: Lighting a Dark Corner at the WTO. Journal of International Economic Law, 8(2), 469-505.

## **VI. REPORTS**

- Ministry of Health, Rwanda. (2021). Rwanda Health Status Report 2020. Kigali, Rwanda.
- World Health Organization. (2019). Universal health coverage: Leaving no one behind. Geneva, Switzerland.
- Organization for Economic Co-operation and Development (OECD). (2009). Intellectual property rights and innovation in the pharmaceutical sector. Retrieved from <u>https://www.oecd.org/innovation/ip-studies.htm</u>
- 4. World Health Organization. (2019). World health statistics 2019: Monitoring health for the SDGs, sustainable development goals. World Health Organization.
- Ministry of Health (Rwanda). (2016). National Pharmaceutical Policy. Ministry of Health, Republic of Rwanda.
- 6. Rwanda Biomedical Center. (2021). Annual Report.
- 7. World Health Organization. (2020). Pharmaceutical Country Profile: Rwanda.
- National Industrial Research and Development Agency (NIRDA). (2019). Rwanda Pharmaceutical Industry Assessment.
- 9. Rwanda Food and Drugs Authority (FDA). (2018). Regulatory Guidelines for Pharmaceutical Products.

- United Nations Development Programme (UNDP). (2017). Rwanda Human Development Report.
- 11. World Bank. (2016). Rwanda Economic Update.
- Ministry of Finance and Economic Planning (Rwanda). (2015). National Strategy for Transformation (NST1).
- United Nations Conference on Trade and Development. (2021). The Least Developed Countries Report 2021: The Least Developed Countries and the Pharmaceutical Industry. United Nations.
- United Nations Industrial Development Organization. (2018). Pharmaceutical Manufacturing Plan for Rwanda. United Nations Industrial Development Organization.
- Ministry of Health. (2018). Rwanda Pharmaceutical Country Profile. Ministry of Health, Republic of Rwanda.
- 16. Ministry of Health. (2016). National Pharmacy Policy. Retrieved from <a href="https://www.moh.gov.rw/news-detail/pharmacy-policy-rwanda-2016">https://www.moh.gov.rw/news-detail/pharmacy-policy-rwanda-2016</a>
- 17. Ministry of Health. (2021). Rwanda Health Status Report 2020. Kigali, Rwanda.
- Rwanda Medical Supply (RMS Ltd). (2023). Annual Report 2023. Kigali, Rwanda: RMS Ltd.
- 19. National Institute of Statistics of Rwanda. (2020). Rwanda Household Health Survey.
- Rwanda Medical Supply (RMS Ltd). (2023). Annual Report 2023. Kigali, Rwanda: RMS Ltd.
- Ministry of Health (MOH). (2020). National Health Sector Strategic Plan 2020-2024. Kigali, Rwanda: MOH.
- 22. Rwanda Food and Drugs Authority (Rwanda FDA). (2016). Regulatory Guidelines for Registration of Pharmaceutical Products. Kigali, Rwanda: Rwanda FDA.
- African Regional Intellectual Property Organization (ARIPO). (2023). ARIPO Annual Report 2023. Harare, Zimbabwe: ARIPO.
- 24. East African Community (EAC). (2016). EAC Regional Intellectual Property Policy and Legal Framework. Arusha, Tanzania: EAC.

- 25. UNAIDS. (2010). Rwanda: Making Treatment Available to 94% of Those in Need.
- 26. UNITAID. (2018). UNITAID Investment Case 2018-2023.
- World Health Organization. (2008). Rwanda's Strategy for Pharmaceutical Sector Development 2008-2013.
- World Health Organization. (2014). Global Strategy and Plan of Action on Public Health, Innovation and Intellectual Property.
- 29. Rennie, S., & Beith, A. (2005). TRIPS Flexibilities and Public Health: A guide for developing countries negotiating free trade agreements.
- 30. Human Rights Watch. "Brazil's Use of Compulsory Licensing for Efavirenz." 2007.
- 31. World Trade Organization. "TRIPS and Public Health: Compulsory Licensing." 2007.
- 32. Merck & Co., Inc. "Settlement Agreement with Brazilian Government." 2012.
- Medecins Sans Frontieres. "Hazel Tau v. GlaxoSmithKline and Boehringer Ingelheim." 2001.
- 34. South African Competition Commission. "Competition Commission's Investigation into Pharmaceutical Pricing." 2002.
- Treatment Action Campaign. "Settlement in Hazel Tau v. GlaxoSmithKline Case." 2003.
- Medecins Sans Frontieres. (2017). UNITAID: 10 Years of Improving Access to HIV, TB, and Malaria Treatment.
- 37. Rwanda Development Board. (2020). Investment Opportunities in Rwanda's Healthcare Sector.
- African Union. (2016). Intellectual Property Rights and Access to Medicines in Africa: Policy Framework and Strategy.
- 39. World Intellectual Property Organization. (2001). Doha Declaration on the TRIPS Agreement and Public Health.
- 40. World Trade Organization. (2001). Doha Declaration on the TRIPS Agreement and Public Health.

- 41. World Trade Organization. (1994). Agreement on Trade-Related Aspects of Intellectual Property Rights.
- 42. World Intellectual Property Organization. (2017). General Principles of Law Applicable to Intellectual Property (IP). WIPO Publication No. 903(E).

# **VII. THESIS**

- Ashimwe, F. D., & Bizimana, A. (2016). Analysis of the protection of intellectual property rights under Rwandan law. Kigali Independent University (ULK).
- Umuhuza, C. (2022). The protection of trademarks under WTO TRIPS agreement. Kigali Independent University (ULK).