

THE UNITED REPUBLIC OF TANZANIA

POPULATION DYNAMICS AND DEVELOPMENT IN TANZANIA





The United Republic of Tanzania

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National Bureau of Statistics Ministry of Finance Dodoma

and



Office of the Chief Government Statistician Presidents' Office – Finance and Planning Zanzibar

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UNITED REPUBLIC OF TANZANIA, ADMINISTRATIVE BOUNDARIES



Foreword

The 2022 Population and Housing Census (PHC) for the United Republic of Tanzania was



conducted with a reference date of midnight on 22nd/23rd August 2022. This marked both the Sixth Census since the Union of Tanganyika and Zanzibar in 1964, and the first digital census in Tanzania's history. The previous censuses took place in 1967, 1978,



1988, 2002, and 2012. The Sixth Phase Government of Tanzania, led by Her Excellency Dr. Samia Suluhu Hassan, along with the Eighth Phase Government of Zanzibar, under Dr. Hussein Ali Mwinyi, fulfilled their obligation to conduct the 2022 PHC in accordance with the United Nations Principles and Recommendations for Population and Housing Census. Their commitment and support throughout the census implementation deserve our gratitude.

The 2022 PHC was conducted in accordance with the Statistics Act Cap 351, of the Revised Edition 2022 of the Tanzania Laws, specifying the Government of the United Republic of Tanzania to conduct Population and Housing Census in every ten years. It also complied with the United Nations Principles and Recommendations for conducting the 2020 Round of Population and Housing Census, such as use of advanced Information and Communication Technology (ICT) in all stages of Census implementation. The country's decision of using a more advanced technology to capture cartographic mapping data enumeration, data transmission, and processing enabled the first digital census to be conducted in Tanzania.

The 2022 PHC results would promote use of integrated plans and sustainable development also increase awareness and transparency in allocation of resources at all levels of administration based on the actual population. The Government and stakeholders would use the results in monitoring and evaluating various national, regional and international development frameworks including: the Tanzania Development Vision 2025; Zanzibar Development Vision 2050; the Third National Five-Year Development Plan 2021/22 - 2025/26 and Zanzibar Development Plan 2021/22 - 2025/26; the East African Community Vision 2050; Southern and African Development Community Vision 2050 and the African Development Agenda 2063.

Furthermore, the results would enable the country to evaluate the progress in achievement of Sustainable Development Goals (United Nations Sustainable Development Agenda 2030); goals aiming to achieve equality and eradicate poverty of all kinds including extreme

poverty by 2030 without leaving any one behind. The census data would also provide a basis for computation of several indicators such as enrolment and literacy, infant and maternal mortality, unemployment rate among others.

The Population Dynamics and Development Monograph is the twelfth in a series of major planned publications for the 2022 PHC. The major reports that have been produced so far are Administrative Units Population Distribution Reports, Age and Sex Reports and *Ripoti ya Idadi ya Watu katika Majimbo ya Uchaguzi (Constituency Population Distribution Report)* in two volumes of United Republic of Tanzania and Tanzania Zanzibar and the National and Regional Basic Demographic and Socioeconomic Profiles. The first two major reports are in three volumes for the United Republic of Tanzania, Mainland Tanzania and Tanzania Zanzibar.

The success of 2022 PHC depended on the cooperation and contributions from our development partners and agencies, national institutions, agencies and individuals. Firstly, let us extend our special gratitude to the United Nations agencies for guidance, technical support and resources through United Nations Population Fund (UNFPA), United Nations Children's Fund (UNICEF), and UN-Women. Secondly, but not in the order of priority, we also wish to extend a special gratitude to World Bank (WB); International Organization for Migration (IOM); United States Agency for International Development (USAID); Foreign, Commonwealth and Development Office (FCDO); United States Census Bureau (USCB), The Republic of South Korea, the People's Republic of China and other Development Partners for providing equipment, expertise, training and financial support in making the 2022 Population and Housing Census a success.

A special word of thanks is due to Government leaders at all levels, particularly, Minister for Finance; Minister of State - President's Office, Finance and Planning, Zanzibar; members of parliament; members of the house of representatives; councilors /shehas; regional and district commissioners of respective areas; census coordinators (National and Zanzibar); regional and district census coordinators; supervisors; enumerators; local leaders and all respondents (heads of households, members of households and other individuals). In the same way, we thank the Census Committees from national to the lowest administrative level. These are the National Central Census Committee; National Census Advisory Committee; National Census Technical Committee; Census Committees at regional, district, wards, village/mtaa and hamlet. There were also forums from Non-States Actors including Collaborators Forum, Private Sector, various institutions and the public at large. In the same

way, special word of thanks is due to religious, traditional and political leaders, non-governmental organization leaders, the media and all citizens and non-citizens in general for their participation and contributions in the successful implementation of the Census.

The 2022 Population and Housing Census could have not been a success without the Census abled Commissars. A special word of appreciation is therefore due to Honourable Anne Semamba Makinda - Census Commissar for Mainland Tanzania and Former Speaker of the National Assembly; and Honourable Ambassador Mohamed Haji Hamza - Census Commissar for Tanzania Zanzibar, for their effective leadership, tireless work and commitment in educating and sensitizing all citizens and non-citizens to participate in the Census. Thereby, resulting into a quality, smooth and timely Census exercise.

Last but not the least, we acknowledge the extraordinary efforts and commitment of the management and staff from the National Bureau of Statistics under the leadership of Dr.Amina Msengwa, the Statistician General; and staff from the Office of the Chief Government Statistician, Zanzibar under the leadership of Mr. Salum Kassim Ali; Chief Government Statistician; Dr. Albina Chuwa, former Statistician General, staff from the Ministry of Lands, Housing and Human Settlements Development; Ministry of Information, Communication and Information Technology; as well as other Government officials who worked tirelessly in ensuring that the 2022 Population and Housing Census was a success.

Kassim Majaliwa Majaliwa (MP)
Prime Minister of
The United Republic of Tanzania

Hemed Suleiman Abdulla (MRC) Second Vice President of Zanzibar

Acknowledgement

The Government of the United Republic of Tanzania through Ministry of Finance in coordination of the National Bureau of Statistics (NBS) and Office of the Chief Government Statistician, Zanzibar (OCGS) conducted the 2022 Population and Housing Census (PHC) to provide necessary information for policy formulation, planning, monitoring and evaluation of development processes. The 2022 Census was conducted alongside other national exercises of Building Census and National Physical Addressing. The Population Census collected detailed information on demographic, social and economic data for policymaking, planning and administration. Developing sound policies and programmes aimed at fostering the welfare of a country and its population requires information on the size, distribution and characteristics is essential for describing and assessing its economic, social and demographic circumstances.

The Tanzania Building Census (TBC) collected information on building structures as a basis for planning housing and human settlement programmes as well as policy development. It is also essential in public and private sector studies in urban and other non-agricultural land use, evaluation of the adequacy of housing stock and needs assessment and market projection on new housing requirements, as well as homeless living condition or those living in temporary or substandard housing. Information on physical addresses to facilitate planning and enabling digital transformation was also collected.

This report provides a detailed analysis on Population Dynamics and Development from National to regional level. It also provides detailed statistics of different indicators that facilitate making evidence-based decisions relevant to the population localities.

This report would have not been successfully completed without the technical experts willingness, commitment, time and efforts in producing the report. In particular manner, we would like to thank Prof. Akim Mturi, Internal Technical Advisor responsible for overseeing writing of the monograph; Prof. Esther W. Dungumaro, Lead Author of the Monograph; Dr. Ruth Davison Minja, Director of Population Census and Demographic Statistics; Fahima Mohamed Issa, Director of Social Statistics Department, OCGS; Seif Ahmad Kuchengo, Manager for Population Census and Vital Statistics and the National Census Coordinator; Abdul-majid Jecha Ramadhan, Tanzania Zanzibar Census Coordinator; Steven Lwendo, IT Expert in charge of the data processing and production of tables; and the National Census Technical Team; Statisticians; Demographers; Information Technology Experts and Geographic information System officers.

Our appreciation is as well extended to all the professionals, Regional and District supervisors, enumerators and field supervisors as well as the media for their dedicated work. Certainly, without their commitment and dedication, the census would not have been successful. We would also like to thank the public for cooperating throughout the entire period of the Census.

Dr. Amina Suleiman Msengwa Statistician General National Bureau of Statistics Salum Kassim Ali
Chief Government Statistician
Office of the Chief Government
Statistician, Zanzibar

Executive Summary

Population Dynamics Monograph from the 2022 Population and Housing Census (PHC) provides a detailed analysis of fertility, mortality, and urbanization trends, highlighting their impact on Tanzania's development. Tanzania's population dynamics have been shaped by a rapid population growth, youthful age structure, and ongoing transition in fertility and mortality rates, all of which have profound implications for the country's development. The monograph provides estimates of the potential impact of population growth on key sectors; including education, health, urbanization, economy and agriculture. The Monograph has five chapters.

Chapter One presents introduction and background of the 2022 PHC including the objectives of the 2022 Census. It provides a historical overview of the Tanzania Population and Housing Census. It also introduces fertility, mortality, and migration as drivers of population change. The chapter presents relevance of the monograph and its contents.

Chapter Two presents the population size, growth, and distribution in relation to the national development. Historically, the country has experienced a robust increase which is driven by high fertility rates and declining mortality rates, with significant urbanization trends. Tanzania's population has increased significantly from 12.3 million persons in 1967 to 61.7 million in 2022. This growth presents development opportunities, it also poses challenges related to resource management and economic stability in the face of increasing population pressures.

Chapter Three discusses the age and sex structure of the population with the aim to inform the history of population and its future outlook. Results show that the Tanzania's population pyramid over the past four decades shows a broad base structure, indicating high fertility rates. A notable change in age and sex structure are observed between 1988 and 2022. particularly a consistent male deficit in the 20–29 age group.

Chapter Four sets the stage for understanding the intricate relationships between population dynamics and development. Population is both the purpose and vehicle of development. The Chapter used RAPID model to estimate the impact of rapid population increase on education, health, economy, agriculture and urbanization sectors. The results on the health sector indicate that by the year 2050, the demand for healthcare services will increase significantly, requiring 26,541 dispensaries compared to 7,734 in 2022, and 124,192 nurses compared to 47,545 in 2022, for Mainland Tanzania requiring 25,723 dispensaries compared to 7,447 in 2022, and 109,644 nurses compared to 46,161 in 2022

and Tanzania Zanzibar requiring 1,008 dispensaries compared to 291 in 2022, and 14,548 nurses compared to 1,384 in 2022. This surge would be driven by the rapid population growth during the period. The total healthcare annual recurrent expenditure for Tanzania will cost more than four-fold which is from TZS 7,223.02 billion in 2022 to TZS 36,262.61 billion in 2050, For Mainland Tanzania the increase is also about fivefold from TZS 7,029.81 billion in 2022 to TZS 33,704.69 billion in 2050, while in Tanzania Zanzibar it is a 13 times increase from TZS 193.21 billion in 2022 to TZS 2,557.92 billion in 2050.

The results from RAPID model on education indicate that the infrastructure will be increasing in both primary and secondary schools. In addition, in secondary schools teacher demand in Tanzania is expected to increase from 92,882 in 2022 to 201,041 by 2050 for Tanzania, while for Mainland Tanzania it will be from 87,087 to 189,106 and for Tanzania Zanzibar the increase will be from 5,795 to 11,935. This increase in demand reflects the estimated growth in secondary school enrolment and indicates the need investing more on the teaching workforce. Results indicate that the annual education services expenditure will increase from TZS 103.91 billion in 2022 to TZS 478.68 billion by 2050, while for Mainland Tanzania it will be from TZS 95.93 billion to TZS 433.20 and for Tanzania Zanzibar from TZS 7.98 billion to TZS 45.48 billion for primary level. Secondary levels demonstrate a similar pattern in the increase from TZS 61.84 billion in 2022 to TZS 312.62 billion in 2050, while for Mainland Tanzania it will be from TZS 54.43 billion to TZS 249.35 billion and for Tanzania Zanzibar from TZS 7.41 billion to TZS 63.27 billion in 2050. Furthermore, the proportion of young population (18-35 years) will remain higher but slightly decline from 37.4 percent in 2022 to 34.8 percent in 2050. The proportion of population living in major cities will also decline from 39.0 percent in 2022 to 32.8 percent in 2050. Moreover, the proportion of annual new urban households shall decrease from 5.2 percent in 2022 to 2.9 percent in 2050.

The results from the RAPID model on the economy show that the country's population is expanding rapidly, leading to a rising demand for employment opportunities. However, job creation has not kept pace with this growth. Results also indicate that the number of children under 15 years of age is estimated to increase from 24.5 million children in 2022 to 36.4 million in 2050. In Mainland Tanzania the increase is from 23.8 million to 32.1 million in 2050 and for Tanzania Zanzibar is from 770,000 in 2022 to 1,060,000 in 2050. Results of analysis on agriculture indicate a reduction of the arable land per capita, in 2022 was 0.70 hectares is expected to decline up to 0.37 hectares in 2050. The trend of decreasing arable land per capita is also observed in Mainland Tanzania from 0.73 hectares to 0.38 hectares and Tanzania Zanzibar – decreasing from 0.07 hectares to 0.04 hectares. Production of major

crops (Thousands MT) would increase from 18,902,000 MT in 2022 to 35,729,000 MT in 2050, with a percentage increase of 89.0. Major crop production for Mainland Tanzania is also expected to double while the production in Tanzania Zanzibar indicates about threefold increase. However, in this aspect the increase is not steady as there are noted decrease in some years.

Chapter Five presents a summary, policy implication and recommendations for government and stakeholders on the policy options to ensure service provisions. This chapter also outlines projected trends across major sectors and provides guidance for long-term planning up to 2050.

Key Indicators

Results in Brief – RAPID Modelling

Indicator	Tanz	ania	Mainland	I Tanzania	Tanzania Zanzibar	
	2022	2050	2022	2050	2022	2050
Population and Health Requirements: 2022-2050						
Health Facilities						
Dispensaries	7,734	26,541	7,447	25,723	291	1,008
Health Centers	1,016	4,004	1,016	3,880	-	-
Hospitals	429	844	418	809	11	35
Health Personnel						
Doctors	7,558	25,574	7,144	18,300	414	7,274
Nurses	47,545	124,192	46,161	109,644	1,384	14,548
AMO/CO	14,084	35,928	13,717	34,984	367	944
Hospital Beds						
Number of Beds	99,537	295,263	99,599	286,171	1,339	4,269
Health Expenditure						
Annual Recurrent Health Expenditure (TZS Billions)	7,223.02	36,262.61	7,029.81	33,704.69	193.21	2,557.92
Population and Education Requirements: 2022 - 2050 Education Requirements Primary Schools						
	11.0	10.5	44.5	10.4	2.5	F 4
Trends in the Growth of Primary School Age Population	11.9	18.5	11.5	16.4	3.5	5.1
Number of Teachers Required	175,687	341,231	168,297	328,541	7,390	12,690
Number of Schools Required	16,777	31,867	16,177	30,852	600	1,015
Secondary Schools						
Trends in the Growth of Secondary School Age Population	5.3	10.0	5.2	9.0	1.7	2.8
Number of Teachers Required	92,882	201,041	87,087	189,106	5,795	11,935
Number of Schools Required	4,774	10,052	4,498	9,455	276	597
Government Expenditure on Education for Primary and Secondary School						
Primary Expenditure (Billions TZS)	103.91	478.68	95.93	433.2	7.98	45.48
Secondary Expenditure (Billions TZS)	61.84	312.62	54.43	249.35	7.41	63.27
Population Dynamics and Urbanization: 2022-2050						
Urbanization						

Indicator	Tanz	ania	Mainlan	d Tanzania	Tanzania Zanzibar		
	2022	2050	2022	2050	2022	2050	
Population (in 000,000)	21.8	44.2	-	-	-	-	
Proportion of Population in Major Cities (in %)	39.0	32.8	-	-	-	-	
Proportion of Youth Population (18 – 35 Yrs; in %)	33.7	34.8	-	-	-	-	
Urban Households and Annual New Urban Households							
Urban Households (in '000,000)	5.7	16.7	-	-	-	-	
Annual Increase of Urban Households (in %)	-	2.9	-	-	-	-	
	Tanzania		Mainland Tanzania		Tanzania Zanzib		
	2022	2050	2022	2050	2022	2050	
Population and Agriculture: 2022-2050							
Arable Land Per Capita (Hectares)	0.70	0.37	0.73	0.38	0.07	0.04	
Production of Major Crops (Thousand MT)	18,902	35,729	18,511	37,698	391	1,217	

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Abbreviation/Acronym

AEP Alternative Education Pathways

AMO Assistant Medical Officer
BEST Basic Education Statistics

CO Clinical Officer

CPR Contraceptive Prevalence Rate

ESDP Education Sector Development Plan

FCDO Foreign, Commonwealth and Development Office

FYDP Five-Year Development Plan

GDP Gross Domestic Product

GER Gross Enrolment Rate
HPP Health Policy Project

ICT Information and Communication Technology

LGSs Local Government Authorities

MMR Maternal Mortality Ratio

MoFP Ministry of Finance and Planning

MT Metric Tonnes

NEP National Employment Policy

OCGS Office of the Chief Government Statistician, Zanzibar

OECD Organization for Economic Co-operation and Development

PO-RALG President's Office, Regional Administrative and Local Government

PTR Pupil-Teacher Ratio

PHC Population Housing Census

RAPID Resources for the Awareness of Population Impacts on Development

SDGs Sustainable Development Goals

SOEs State-Owned Entities

SSP Safe Schools Programme

TDHS Tanzania Demographic Health Survey

TDV Tanzania Development Vission

TFYD Third National Five -Year Development Plan

TULab Tanzania Urbanization Laboratory

TZS Tanzanian Shilling

UDP Urbanization and Development Policy

UNFPA United Nations Population Fund USCB United States Census Bureau

UN-Habitat United Nations Human Settlements Programme

URT United Republic of Tanzania

USAID United States Agency for International Development

ZADEP Zanzibar Development Plan

Concept and Definition

Age-Dependency Ratio is the ratio of people in the "dependent" ages (those under age 15 and age 65 or above) to the "working age population" (age 15-64 years).

Age-Sex Structure is the composition of a population as determined by the number of males and females in each age category, popularly presented as population pyramid.

Annual health expenditure refers to the total amount of money spent on healthcare services for each individual in a given population in a year. This expenditure include government spending, out-of-pocket expenses, health insurance premiums and private sector spending.

Elderly Population according to the international definition, elderly is a person aged 65 years or above. However, according to the Tanzania National Ageing Policy, elderly is a person aged 60 years or above.

Government Expenditure on Education is a vital component of any country's development strategy and proper allocation and efficient use of funds are key to ensuring that all citizens have access to quality education which in turn drives social, economic and national progress.

Master Plan refers to a comprehensive, long-term planning document that provides a strategic framework for development and growth of a project, community, or organization. It outlines goals, objectives, and the necessary steps to achieve them, ensuring that all stakeholders are aligned and informed throughout the process.

Policy refers to a deliberate system of guidelines or principles that govern decisions and actions within an organization, government, or institution. It serves as a framework for making consistent and rational choices regarding specific issues or objectives.

Population growth is the rate at which a population is increasing (or decreasing) in a given year due to natural increase and net migration.

Population per AMO/CO refers to a number of people served by a single Assistance Medical Officer or Clinical Officer in a given population or area.

Population per dispensaries refers to a number of people served by each dispensary in a specific area.

Population per doctor refers to a number of people served by a single doctor in a given area.

Population per health centre refers to a number of people served by each health centre in a specific area.

Population per hospital bed refers to number of populations served by each hospital bed in a specific area.

Population per hospital refers to a number of people served by each hospital in a specific area.

Population per nurse refers to a number of people served by a single nurse in a given population or area.

Population Pyramid is a graphically displays population's age and sex composition.

Primary Education is a seven-year for Mainland Tanzania and six- year for Tanzania Zanzibar education cycle after Pre-Primary Education. It is compulsory and free to all children aged six to twelve and seven to thirteen years old for Tanzania Zanzibar and Mainland Tanzania respectively.

Pupil/Student Teacher Ratio (PTR) Average number of pupils/students per teacher in a given level of education.

RAPID Model refers to a tool for projecting the social and economic consequences of rapid population growth, particularly in urban settings. It is a tool that helps policymakers understand the social and economic impacts of population growth on various sectors, such as health, education, labour, urbanization, and agriculture.

Recurrent expenditure is a portion of the government's budget that includes wages, salaries, interest costs, and other recurring expenses.

Roadmap refers to a strategic planning tool that provides a high-level overview of a project, initiative, or product development process. It outlines the goals, major milestones, and key steps necessary to achieve desired outcomes.

Rural area encompasses low-density populations engaged primarily in agriculture, facing significant infrastructural challenges and classified administratively as non-urban areas.

School-age Population It is the number of persons in the officially defined school agegroup, whether enrolled in school or not in a specified area.

Secondary school Education consists of two sequential cycles, the first cycle is a four-year programme of Ordinary Level (O-Level) secondary education and the second cycle is a two-year programme of Advanced Level (A-Level) secondary education.

Urban areas often encompass administrative centers, towns, and cities where the majority of the population engages in non-agricultural activities. In a broader sense, urban areas are defined as places with a minimum population threshold, often set at 50,000 inhabitants in various contexts.

Urbanization is the process through which large numbers of people move from rural areas to urban centres and urban centres to large centres, resulting in the growth of cities and the increasing concentration of populations in urban environments.

Urban Planning Act refers to a legislative framework that governs the planning, development, and management of urban areas. It establishes guidelines and procedures for the orderly and sustainable development of land in cities and towns, ensuring that urban growth is well-coordinated and meets the needs of the community.

Working Age Population is the population aged 15 - 64 years.

Chapter One

Introduction

1.1 Background on the 2022 Population and Housing Census

The 2022 Population and Housing Census (PHC) was carried out per the Statistics Act CAP 351, which mandates the National Bureau of Statistics (NBS), in collaboration with the Office of the Chief Government Statistician (OCGS) Zanzibar, to conduct population and housing censuses in the United Republic of Tanzania every ten years. This was the sixth population census conducted since the union of Tanganyika and Zanzibar in 1964. It was implemented following international standards, particularly the United Nations Principles and Recommendations for population counts. The previous population censuses were conducted in 1967, 1978, 1988, 2002 and 2012.

Like previous censuses, the 2022 PHC was conducted on a *de-facto* basis, meaning people were enumerated based on their place of residence on the census night of 22nd/23rd August, 2022. All persons within the country during the reference night, regardless of their citizenship, were enumerated. Although the enumeration was scheduled to last for seven days, it was completed in nine days. Unlike previous population censuses, the 2022 PHC introduced mobile technology in the population census enumeration and information collection, making it the first digital census in Tanzania.

Information from the censuses shows that Tanzania's population grew from 12.3 million in 1967 to 61.7 million in 2022. The average annual population growth rate increased from 2.7 percent during the 2002-2012 intercensal period to 3.2 percent during the 2012-2022 intercensal period.

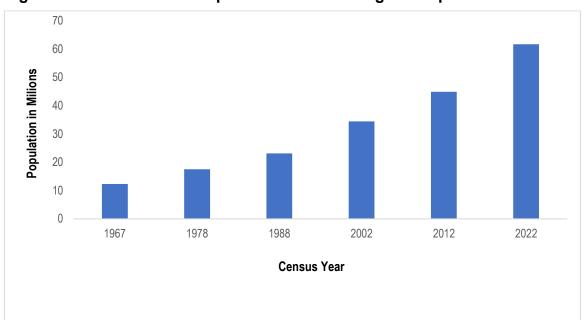


Figure 1.1: The Tanzania Population Count During the Population Censuses

1.2 Objectives of the 2022 PHC

The main objective of the 2022 PHC is to provide the Government and other stakeholders with accurate information on population size, distribution, composition, socio-economic characteristics, and housing conditions. This information supports policy formulation, development planning, evidence-based decision making and service delivery, ultimately improving the quality of life for Tanzanians. It is also facilitates monitoring and evaluation of population and socio-economic programmes in the country.

The specific objectives of the 2022 PHC were to:

- Enhance the availability and accessibility of accurate, timely, and reliable demographic, socio-economic, and environmental data;
- Promote better understanding of stakeholders on socio-economic, demographic characteristics and environment of the Tanzanian population as well as population growth patterns and trends;
- Promote the utilization of disaggregated socio-economic and demographic data at lower administrative levels;
- Strengthen the capacity of NBS and OCGS in population and housing census planning, data collecting, processing, analysing, dissemination, utilization and archival; and
- Establish a comprehensive buildings and National Physical Addresses database to facilitate evidence-based decision-making, to improve social services provision, expand the tax base, and inform development programmes in general.

1.3 Relevance of the Monograph

The overarching rationale of this monograph rests on identifying the impacts of demographic change on human development, through a transformation in the economy and social service provision. Ever since the Rio Declaration in 1992, positioned human beings at the centre of development and therefore policies and actions are expected to promote more sustainable patterns of production and consumption to improve living standards in tandem with nature (Otieno et al, 2017).

This monograph provides insights into population dynamics and development in Tanzania, focusing on;

- Population size, growth and distribution as key parameters of population change and spatial distribution, all of which are closely linked to national developmental challenges and solutions (Samways, 2022).
- Age-sex structure analysis using population pyramids and broad age groups to assess historical trends of the country population and predict future outlook.

The adverse effects of rapid population growth on social and economic development are increasing the attention of political leaders. As a result, there is growing attention to integrate population analysis and planning with the other dimensions of social and economic development to support socio-economic development initiatives. Development planners recognizing the challenge of assessing the socio-economic effects of population dynamics in isolation. Rather, effective development planning requires identifying and achieving a population growth rate that aligns with the expansion of fundamental production factors and available levels of technology. This ensures that the government retains sufficient funds to provide essential social and infrastructural services (UNESCO, 1973). Bloom and Canning (2000) note that understanding population dynamics in a country is crucial for resource allocation and socio-economic planning. This monograph will play an important role in increasing the use of census data in population and development.

This monograph employs a Spectrum software, a demographic modelling tool to analyse population trends. The RAPID model which is one of the models in the spectrum software, is employed to demonstrate how rapid population growth increases the demand for education, healthcare, labour markets, and agriculture services. Further, the model examines the population dynamics and development using information from the 2022 PHC. Data from government reports and other published documents have been used in order to meet requirements of the models. Furthermore, the monograph attempts to project future

labour, education, healthcare, urbanization, agriculture as well as economic development needs.

This monograph recognizes the necessity of considering achievements of the Sustainable Development Goals 2030, Africa Development Agenda (Agenda 2063), East Africa Vision (2050), Five-Year Development Plan (2021/22-2025/26) and various sector strategic plans against education, health, urbanization, agriculture and economic development in the country. The 2022 PHC data provides an opportunity for understanding where we are in implementing policies and strategies on population dynamics and development.

1.4 Components of Population Change

Population change refers to the dynamics of population growth and decline over time. The main components of population change are births, deaths and migration.

1.4.1 Fertility

Fertility is regarded as a positive force in population dynamics because it ensures biological replacement and the continuation of human society. Further, fertility levels determine the age structure of a population, which influences social, economic and demographic characteristics of the population.

1.4.2 Mortality

Mortality refers to deaths that occur in a population of a particular place or situation. Three indicators commonly used are crude death rate, age-specific death rates and life expectancy. Life expectancy at birth (e_0) provides the most useful summary measure of the overall level of mortality in a population at a point in time.

1.4.3 Migration

Migration is, first and foremost, a normal human activity as human beings have always moved from one country, locality and place of residence to settle in another. It is thus conceived of as the process of a person or people travelling to a new place or country, for work, residence, or other reasons. It significantly influences population dynamics.

1.5 Contents of this Monograph

In addition to this introduction chapter, this Volume has five other Chapters. Chapter two is on population size, growth and distribution, analysing situation of current status of population size, growth, distribution and implications on the development aspect. Chapter three is on age and sex structure of the population. It dwells on the trend in age-sex structure

of the population, which is the cumulative result of past trends in fertility, mortality and migration. Chapter four presents population and development, specifically on the impact of population growth on the sectors of agriculture, economy, health, education, as well as urbanization. Finally, chapter five presents summary, conclusion, policy implications and policy recommendations. The chapter presents key findings on population dynamics and selected pertinent aspects, aiming at informing the government and stakeholders on the policy options to realise socio-economic development in the country.

Chapter Two

Population Size, Growth and Distribution

2.1 Overview

Population size, growth, and distribution are key parameters of population change, whereas changes in population size, growth rates, age structures, and spatial distribution are closely linked to national developmental challenges and solutions (Samways, 2022; UNDP, 2019). Studying population dynamics is essential for understanding how populations respond to development. For instance, rapid population growth could magnify development challenges, as a rising population would increases demand for jobs, water, food, energy, clothing, housing, infrastructure, health, and education (Cilliers, 2021). Therefore, policy responses aimed at sustainable development must address challenges associated with this demographic phenomenon. Thus, the chapter presents information of Tanzania's current population size, growth, and distribution.

2.2 Population Size

Population size refers to the total number of individuals living in a specific area at a given time. It is a fundamental demographic metric used to analyze characteristics of a population at the level of a community, city, regional or national. Population size influences socioeconomic factors such as labour markets, resource allocation, and public services. It plays a critical role in policymakers to make informed decisions on infrastructure, healthcare, education, and social services delivery. Additionally, it is a critical parameter for nature and scope of ecological interactions, evolutionary processes, and conservation strategies. It helps in understanding how populations adapt to environmental changes.

Population size and growth rate are among key population indicators which reveal annual population increases. The indicators help decision makers to review socioeconomic goals and targets on time, taking into consideration the expected socio-economic pressures resulting from population increase. Population size also plays a critical role in innovation and technological advancement. Larger populations enhance market opportunities, foster collaboration and increase human capital, as well as creating challenges in management and sustainability. Thus, balancing these factors is essential for harnessing full potential of population growth in driving technological advancements.

2.2.1 The National Population

According to the 2022 Population and Housing Census, Tanzania had a total population of 61,741,120 persons, comprising 30,053,130 males and 31,687,990 females. Whereby

59,851,347 persons were residing in Mainland Tanzania (29,137,638 males and 30,713,709 females) and 1,889,773 persons were residing in Tanzania Zanzibar (915,492 males and 974,281 females). The population size has significant implications for not only development but also its survival in a country. For instance, populations are more vulnerable to extinction due to factors like inbreeding and random environmental events (e.g., natural disasters). Limited genetic diversity in small populations can also affect adaptability.

Conversely, larger populations experience challenges such as resource depletion or increased competition among individuals. Therefore, it is necessary to understand these population dynamics for effective conservation efforts and effectiveness in managing species and environments.

Since gaining independence, Tanzania's population has grown substantially, driven by high fertility rates, declining mortality rates, together with significant urbanization trends. These changes present both opportunities and challenges in a country, as it navigates economic development and resource management to cope with increasing population pressures.

2.2.2 Population Size by Regions in Tanzania

The United Republic of Tanzania is composed of Mainland Tanzania (currently with 26 regions) and Tanzania Zanzibar (with five regions). Table 2.1 presents regional population distribution based on 2002, 2012, and 2022 censuses and their respective annual average intercensal population growth rates. It is observed that, in the 2012 and 2022 censuses, Dar es Salaam region had the largest population, growing from 4.4 million in 2012 to 5.4 million in 2022, accounting for 9.7 percent and 8.7 percent of the country's total population respectively. The region with the smallest population is Kusini Unguja with a population of 195,873, equivalent to 0.3 percent of the country's total population.

Table 2.1: Population Size and Percentage Change by Regions; 2002 – 2022 PHCs

Place of Residence			Population		
	2002 Census	2012 Census	Percentage Change 2002-2012	2022 Census	Percentage Change 2012-2022
Tanzania	34,446,603	44,928,923	30.4	61,741,120	37.4
Mainland Tanzania	33,461,849	43,625,354	30.4	59,851,347	37.2
Tanzania Zanzibar	981,754	1,303,569	32.8	1,889,773	45.0
Dodoma	1,692,025	2,083,588	23.1	3,085,625	48.1
Arusha	1,288,088	1,694,310	31.5	2,356,255	39.1
Kilimanjaro	1,376,702	1,640,087	19.1	1,861,934	13.5
Tanga	1,636,280	2,045,205	25.0	2,615,597	27.9
Morogoro	1,753,362	2,218,492	26.5	3,197,104	44.1
Pwani	885,017	1,098,668	24.1	2,024,947	84.3
Dar es Salaam	2,487,288	4,364,541	75.5	5,383,728	23.4
Lindi	787,624	864,652	9.8	1,194,028	38.1
Mtwara	1,124,481	1,270,854	13.0	1,634,947	28.6
Ruvuma	1,113,715	1,376,891	23.6	1,848,794	34.3
Iringa	1,490,892	941,238	-36.9	1,192,728	26.7
Mbeya	2,063,328	1,708,548	-17.2	2,343,754	37.2
Singida	1,086,748	1,370,637	26.1	2,008,058	46.5
Tabora	1,710,465	2,291,623	34.0	3,391,679	48.0
Rukwa	1,136,354	1,004,539	-11.6	1,540,519	53.4
Kigoma	1,674,047	2,127,930	27.1	2,470,967	16.1
Shinyanga	2,796,630	1,534,808	-45.1	2,241,299	46.0
Kagera	2,028,157	2,458,023	21.2	2,989,299	21.6
Mwanza	2,929,644	2,772,509	-5.4	3,699,872	33.4
Mara	1,363,397	1,743,830	27.9	2,372,015	36.0
Manyara	1,037,665	1,425,131	37.3	1,892,502	32.8
Njombe	-	702,097	NA	889,946	26.8
Katavi	-	564,604	NA	1,152,958	104.2
Simiyu	-	1,584,157	NA	2,140,497	35.1
Geita	-	1,739,530	NA	2,977,608	71.2
Songwe	-	998,862	NA	1,344,687	34.6
Mjini Magharibi	390,074	593,678	52.2	893,169	50.4
Kaskazini Pemba	185,326	211,732	14.2	272,091	28.5
Kusini Pemba	175,471	195,116	11.2	271,350	39.1
Kaskazini Unguja	136,639	187,455	37.2	257,290	37.3
Kusini Unguja	94,244	115,588	22.6	195,873	69.5

Note: -Did not exist

2.3 Population Growth

Rapid population growth can strain resources, infrastructure and the environment, while slower or negative growth may lead to demographic imbalances, labour shortages and

economic concerns. Managing population growth effectively is crucial for sustainable development to ensure balanced resource distribution and economic stability.

During the 2012-2022 intercensal period, Tanzania's population grew at an annual average growth rate of 3.2 percent. Tanzania Zanzibar recorded the highest annual average growth rate of 3.7 percent in the same period, whereas Mainland Tanzania experienced a 2.7 percent growth rate during the 2002 – 2012 intercensal period (Figure 2.1).

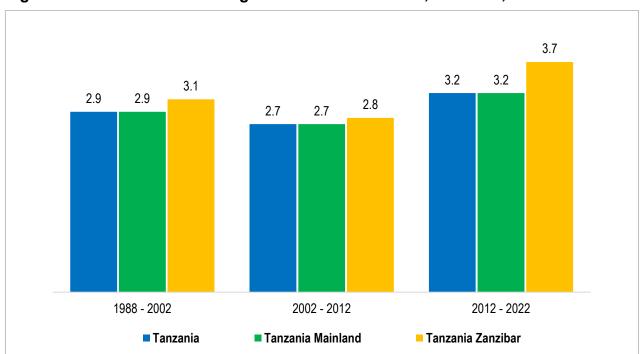


Figure 2.1: Trends in the Average Annual Growth Rates, Tanzania, 1988 - 2022 PHCs

Across Tanzania's Mainland regions, the average annual population growth rate in the recent intercensal period ranged from 1.3 percent in Kilimanjaro to 7.1 percent in Katavi (Figure 2.2). In Tanzania Zanzibar, Kaskazini Unguja recorded the lowest average annual growth rate of 3.2 percent, while Kusini Unguja had the highest, at 5.3 percent. This trend indicates that population growth rate in Tanzania Zanzibar exceeds that of Mainland Tanzania. Furthermore, the data reveals that 13 regions in the country had an average annual growth rate above the national level of 3.2 percent, while 15 regions recorded rates below the national average level.

Katavi 7.1 Pwani 6.1 Geita 5.4 Kusini Unguja 5.3 Rukwa 4.3 Mjini Magharibi 4.1 Tabora 3.9 Dodoma 3.9 Shinyanga 3.8 Singida 3.8 Morogoro 3.7 Kusini Pemba 3.3 Arusha 3.3 Kaskazini Unguja 3.2 Mbeya 3.2 Lindi 3.2 Mara 3.1 Songwe 3.0 Simiyu 3.0 2.9 Mwanza 2.9 Ruvuma Manyara 2.8 Kaskazini Pemba 2.5 2.5 Mtwara 2.5 Tanga Njombe 2.4

2.4

3.7

3.2 3.2

2.1

2.0

1.5

Figure 2.2: Average Annual Growth in Tanzania Rate by Regions 2012 - 2022 PHCs

2.4 Population Distribution

Iringa Dar es Salaam

Kagera

Kigoma

Kilimanjaro

Tanzania

Tanzania Zanzibar

Tanzania Mainland

Population distribution refers to the way people are spread across a given area, influenced by factors such as climate, natural resources, economic opportunities, and historical development. Regions with favourable weather conditions and strong economic opportunities, tend to have higher population densities, whereas regions with harsh environments and limited opportunities often experience low population densities. Understanding population distribution is essential for effective planning in infrastructure, resource allocation, and social services delivery, ensuring that communities are supported according to their specific needs.

2.4.1 Rural and Urban Population

The rural population refers to individuals living in non-urban areas, typically characterized by open spaces, agricultural activities, and lower population density. These areas often comprise smaller communities where livelihoods depend on agriculture or natural resources. Conversely, the urban population comprises individuals residing in cities and towns, where population density is high, economies are diverse, and services and amenities are widely available. Urban areas offer better education and job opportunities, and better social services making them attractive destinations for migrants for rural to urban migration. Understanding the differences between rural and urban populations is essential for effective policy-making, resource allocation, and managing challenges associated with rapid urbanization.

Table 2.2 shows the steady increase in Tanzania's urban population across census years. The urban population has risen from 5.7 percent in 1967 to 34.4 percent in 2022, though the majority of the country's population remains rural. The high rate of urbanization presents challenges for infrastructure and services provision, requiring the government to plan accordingly.

Table 2.2: Percentage Distribution of Tanzania Population by Place of Residence; 1967 – 2022 PHCs

	1007 202211100										
Census		Rural		Urban							
Year	Tanzania	Tanzania	Tanzania	Tanzania	Tanzania	Tanzania					
100.	Tunzuma	Mainland	Zanzibar	ranzama	Mainland	Zanzibar					
1967	93.6	94.3	71.4	6.4	5.7	28.6					
1978	86.2	86.7	67.4	13.8	13.3	32.6					
1988	81.6	82.0	68.2	18.4	18.0	31.8					
2002	76.9	77.4	60.4	23.1	22.6	39.6					
2012	70.4	70.9	53.7	29.6	29.1	46.3					
2022	65.1	65.6	51.0	34.9	34.4	49.0					

Moreover, the rapid urbanization in Tanzania is reshaping social interactions, economic activities, and environmental conditions in cities and towns (Gwaleba, 2018). Addressing the complex issues, urban planning and management practices continue to evolve to address direct and indirect urban growth impacts, aiming for socially responsible, economically sound and environmentally friendly development in the long run.

2.4.2 The Most Populous Regions in Tanzania

Tanzania's population distribution across its administrative regions is influenced by geographic features, economic activities, and historical development. In the 1988 and 2002 Population Housing Censuses, Mwanza, Shinyanga, Mbeya, Dar es Salaam, and Kagera were the most populous regions. Collectively, these regions accounted for over one-third of the total population (Table 2.3). The most populous regions in 2012 PHC were Dar es Salaam, Mwanza, Kagera, Tabora, and Morogoro. However, in the 2022 PHC, Dodoma replaced the Kagera region in the top five. Dodoma, as the capital city, experienced a significant population increase due to the relocation of the government functions and services from Dar es Salaam during the fifth Government Regime.

On the other hand, Arusha, Kigoma, Kilimanjaro, Ruvuma, and Manyara have considerably large populations, driven by tourism, agriculture, trade, and favourable climatic conditions. Katavi, Rukwa, Lindi, and Mtwara located in southern and southwestern of the country, are less populated compared to the northern and central regions. These regions often face geographic isolation and limited access to major urban centers, making them less favourable for migration and human settlements.

Table 2.3: Five Most Populous Regions in Tanzania 1988 – 2022 PHC

1988 Population Census		2002	2 Population Ce	nsus	201	2012 Population Census			2022 Population Census			
Population	Region	Rank	Population	Region	Rank	Population	Region	Rank	Population	Region	Rank	
1,876,635	Mwanza	1	2,929,644	Mwanza	1	4,364,541	Dar es Salaam	1	5,383,728	Dar es Salaam	1	
1,763,800	Shinyanga	2	2,796,630	Shinyanga	2	2,772,509	Mwanza	2	3,699,872	Mwanza	2	
1,476,278	Mbeya	3	2,487,288	Dar es Salaam	3	2,458,023	Kagera	3	3,391,679	Tabora	3	
1,360,865	Dar es Salaam	4	2,063,328	Mbeya	4	2,291,623	Tabora	4	3,197,104	Morogoro	4	
1,313,594	Kagera	5	2,028,157	Kagera	5	2,218,492	Morogoro	5	3,085,625	Dodoma	5	
Percentage	Percentage of the Total Population 34.7 Percentage of the Total Population 36.8					6.8 Percentage of the Total Population 32.3 Percentage of the Total Population 32.3			3 Percenta	ercentage of the Total Population 31.3		

2.4.3 Population Share by Regions

Population share refers to the proportion of a specific group's population relative to the total population of a larger area, such as a city, region, or country. It differs from population distribution, which describes how individuals are spread across a given area. While population share informs about the relative size of populations across different regions, population distribution explains how people occupy space. Therefore, population share can be used to compare various demographic segments, such as age groups, ethnicities, or economic classes to understand their representation within an overall population. Analyzing population share is important for resource allocation, social policies, and economic planning, as it helps to identify disparities, and trends in different groups.

Tanzania's population share by region varies significantly, reflecting differences in population density, economic activities, and geographic features. The country is divided into 31 administrative regions, each with its unique population size and characteristics. The key points on population distribution across regions are:

- i. Dar es Salaam: is the largest city and economic hub, characterized by high population density and significant share of the national population.
- ii. Dodoma: is the government administrative capital with a fast population growth due to the expansion of government functions and development projects.
- iii. Mbeya and Mwanza: Are among the most populous regions in the southern and northern parts of Tanzania with thriving agricultural and trade activities.
- iv. Arusha: Has a growing population influenced by both local and international migration, due to popular tourism industry and proximity to national parks.
- v. Rukwa and Katavi: Are less densely populated but rich in natural resources.

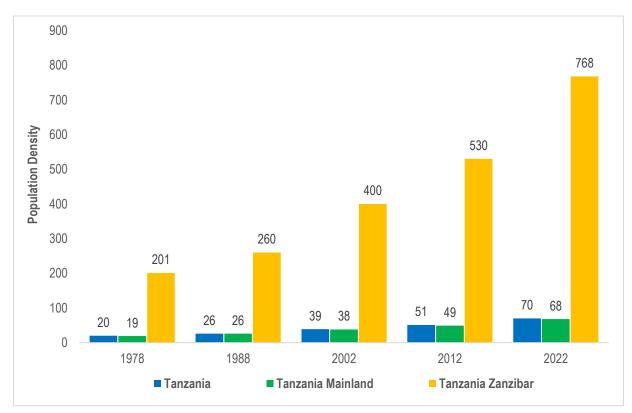
ZANZIBAR UGANDA Kaskazini Pemba Kagera KENYA 0.4 RWANDA Kusini Pemba Arusha Simiyu 0.4 BURUNDI Shinyanga Manyara Kigoma 4.0 Kaskazini Unguja Tanga 4.2 0.4 Tabora Singida 3.3 Zanzibar Mjiri Magharibi 1.4 Katavi Kusini Unguja Dares Salaam 8.7 0.3 D.R. CONGO Morogoro 5.2 Iringa Rukwa Mbeya Songwe Njombe Lindi nternational Boundary Percentage Share of Population ZAMBIA 0.3 - 0.40.5 - 2.6Ruvuma 2.7 - 4.2 MALAWI 4.3 - 6.0 6.1 - 8.7 MOZAMBIQUE

Map 2.1: Tanzania Population Share by Regions; 2022 PHC

2.4.4 Population Density

Population density refers to the number of individuals residing in a specific area, usually expressed as persons per square kilometer or square mile. It shows how crowded or sparsely populated different regions are, and variations across locations. Since independence in 1961, Tanzania has experienced significant changes in population density, driven by rapid population growth and urbanization. The first post-independence census in 1967 recorded a population density of about 13 people per square kilometer with a total population of 12.3 million. Population density in 1978 PHC increased to 20 people per square kilometer when the total population grew to 17.5 million. The density in 1988 PHC increased to reach 26 people per square kilometer with a total population of 23.1 million. The country's population density in 2002 and 2012 PHCs rose to 39 and 51 people per square kilometer respectively and the total population for the two PHCs were 34.4 and 44.9 million persons respectively. The density further increased to 70 people per square kilometer with a total population of 61.7 million persons in 2022 PHC (Figure 2.3).





The increasing trend in population density in Tanzania could be attributed to natural population growth and migration patterns. In particular, rural-urban migration has significantly contributed to increased population density in Dar es Salaam, Mwanza, Dodoma, Arusha, and Mbeya. Additionally, Figure 2.3 shows that population density in Tanzania Zanzibar is notably higher than in Mainland Tanzania. This indicating that Tanzania Zanzibar is much more densely populated compared to the rest of the country.

Chapter Three

Age-Sex Structure of the Population

3.1 Introduction

This chapter presents trends in the age and sex composition of Tanzania's population, using population pyramids. The analysis is based on five-year age groups and the broad age group categories from the 1988 to 2022 PHCs. The age-sex structure of a population is the cumulative result of past trends in fertility, mortality and migration, all of which shape population pyramids in a given country. Examining the age and sex structure trends has the potential of informing about the history of population and its future outlook (Mturi, 2004). Furthermore, changes in age and sex composition over the course of demographic transition produce fundamental implications for the society as a whole.

The broad age distribution trends for male and female populations, provide information on how different groups of the population, notable young population, working-age population and elderly population have changed over time. The Tanzania PHC data from 1988, 2002, 2012 and 2022 have been used to construct population pyramids and broad age graphs.

3.2 Trend of Population Pyramids

The age and sex structure of a population is a fundamental determinant of number of demographic occurrences. Horiuchi and Preston (1988) described how demographic processes of fertility, mortality, migration, and current growth rates shape population structure, which in turn influences broader demographic processes. Over the past four decades, the population pyramid of Tanzania showed a common phenomenon of among developing and sub-Sahara African countries. The broad base structure is an indicating high fertility rates and reducing infant and child mortality rates.

3.2.1 Trend of Population Pyramids in Tanzania

Figure 3.1 shows that age and sex structure have remained largely consistent from the 1988 census to the 2022 census. The broad base and growing population show a gradual shrinking pattern over the decades, however, the shift is observed in 2022 census. A notable deficit of males is observed in the 20- 24 and 25 - 29 age categories, from 1988 census to 2022 census.

Further, the pyramids curve inwards and narrow above the base, is representing the facts that the risk of death in a specified age throughout life has been much higher in the past. In general, as age increases, the proportion of the population gradually decreases, resulting in a tapering effect at the top of the pyramid.

Despite improvements in overall life expectancy in Tanzania, the proportion of elderly individuals (65 years and above) remains relatively small across all four decades, likely due to high death rates. Males elders (65 years and above) population is lower than females elders, the larger proportion of females survival rates at every age group may have resulted in having more elderly females than males.

Figure 3.2 shows that, the Mainland Tanzania population pyramid depicts similar pattern to the national-level pyramid. Meanwhile, Tanzania Zanzibar exhibits a similar shape but with distinct trends over time, the base and elderly population age 60 years and above is smaller compared with Tanzania total, while, the proportion of the working age population (except for the 60-64 years) is higher especial for females.

A notable change was observed in 2012 and became more pronounced in 2022. In the past two decades, the increase in the population aged 15-59 years may signify the influence of regional migration to Tanzania Zanzibar for either economic opportunities, employment prospects, cultural factors, or social wellbeing (Figure 3.3).

Figure 3.1: Trend of Tanzania Pyramid 1988 - 2022 PHCs

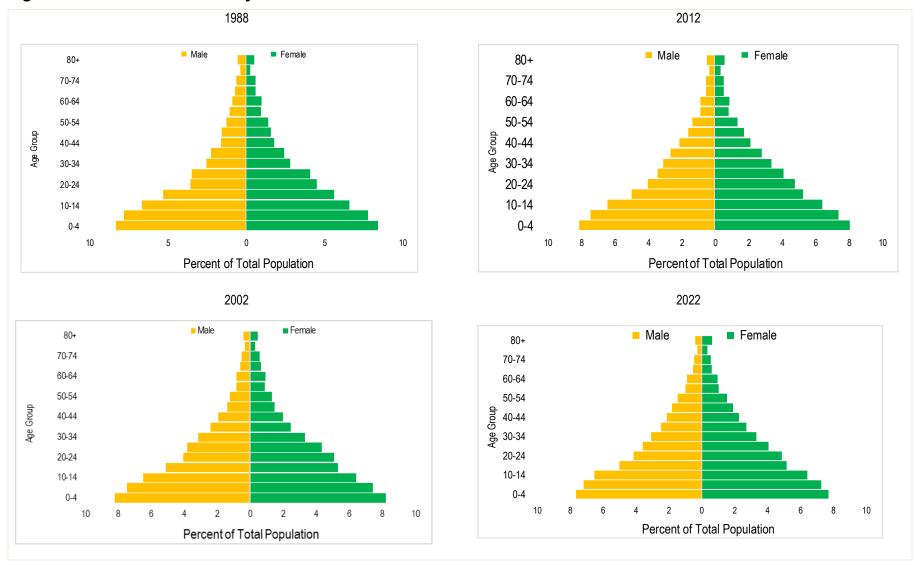


Figure 3.2: Trend of Mainland Tanzania Pyramid 1988 – 2022 PHCs

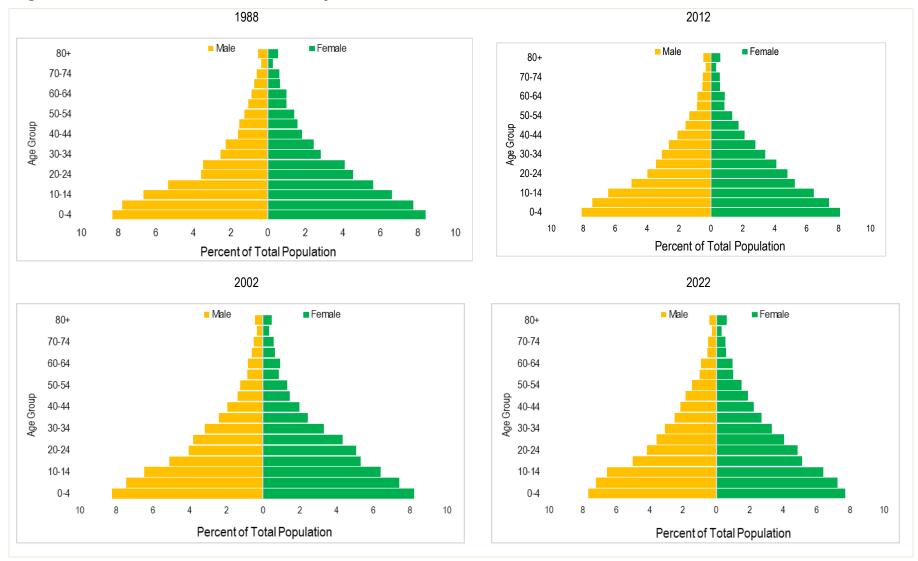
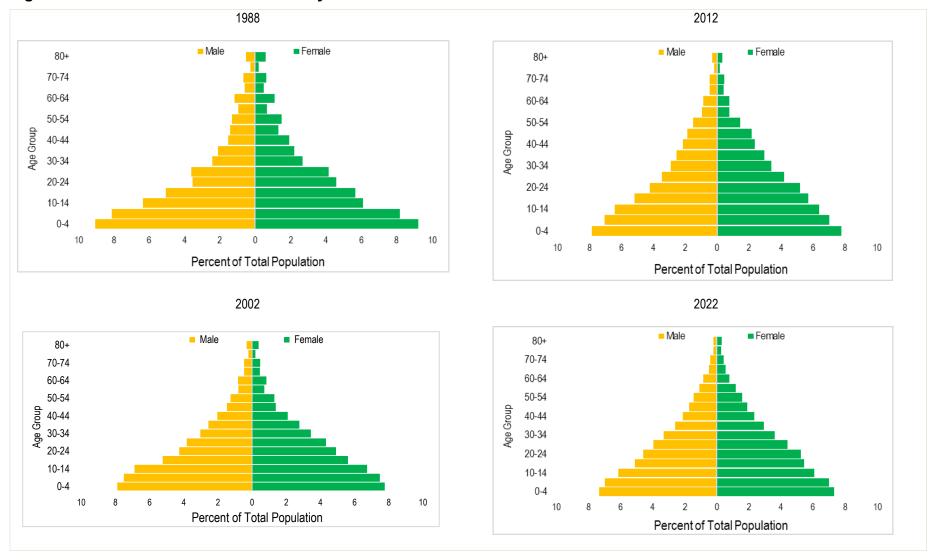


Figure 3.3: Trend of Tanzania Zanzibar Pyramid 1988 – 2022 PHCs



3.2.2 Trend of Population Pyramids by Place of Residence

Over the past three decades, age and sex population composition in Tanzania has varied significantly by area of residence. The population pyramid for rural Tanzania shows a broader base, suggesting that women in rural areas have higher fertility rates than their urban counterparts. This observation is exemplified in the Fertility and Nuptiality Monography (2025), where the TFR of women in rural areas is higher (5.3 children per woman), compared to 3.8 children per woman in urban areas. The rapid inward curving among the 15-49 age group, particularly with deficit of young adult males, signifies the role of rural-urban migration (Figure 3.4). In contrast, for decades, urban Tanzania's population pyramid has less widening at the base over time compared with that of rural areas, and slightly curving outward just above the base. This indicates an increase in the number of children but a declining proportion over time, while the working-age population increases substantially before gradually decreases (Figure 3.5).

The urban areas are also characterized by the bulge in the 20-29 age group, indication of youth in-migration especially in major cities like Dar es Salaam, which accounted for 30 percent of total national in-migration in 2012 (NBS and OCGS, 2015).

In terms of area of residence, the pattern and trend of pyramid for Mainland Tanzania closely resemble those of Tanzania's total population (Figures 3.6 and 3.7). However, there are some noticeable differences for Tanzania Zanzibar pyramid. The base population in rural Tanzania Zanzibar is gradually shrinking between 2002 and 2022, at the same time there is a gain in the population aged 50-64 years and the elderly (65 years and above). This may be caused by various reasons such as improved essential services in rural areas, better infrastructure, shifting of residency at later age, or keeping strong connection with the place of origins (Figure 3.8). On the other hand, the base population in urban Tanzania Zanzibar shrinks faster than rural areas, and there is an increase of population particularly in the 15- 49 age group, and fewer elders compared to Mainland Tanzania's urban population (Figure 3.9).

Figure 3.4: Trend of Tanzania Rural Pyramid 1988 – 2022 PHCs

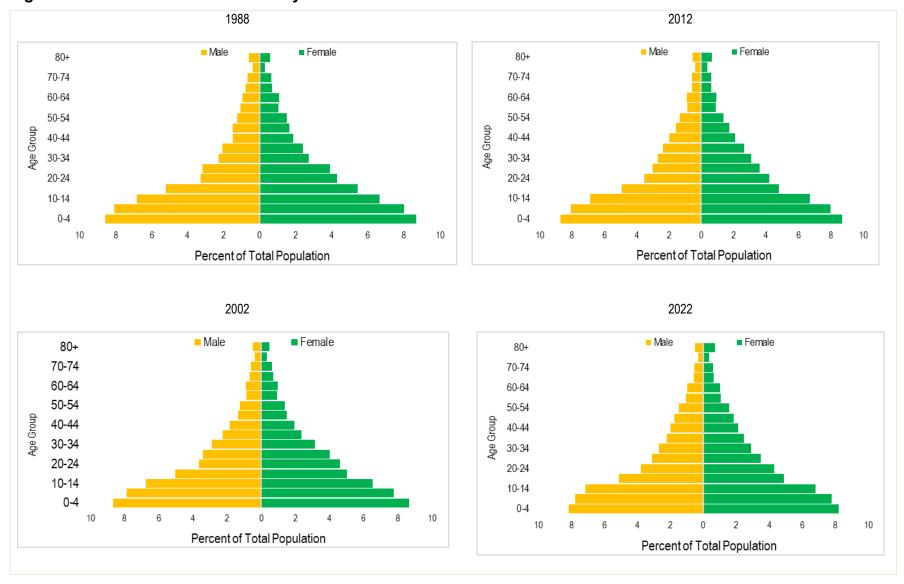


Figure 3.5: Trend of Tanzania Urban Pyramid 1988 – 2022 PHCs

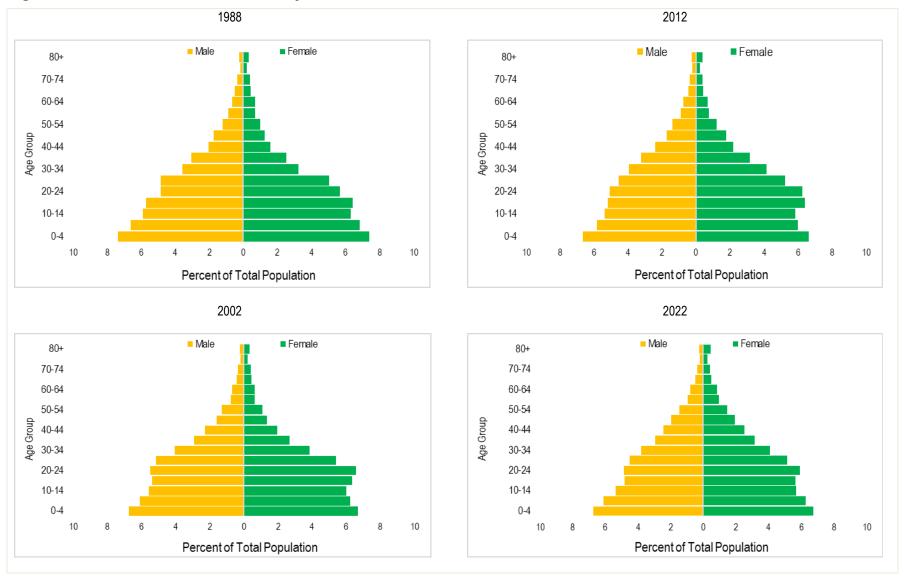


Figure 3.6: Trend of Mainland Tanzania Rural Pyramid 1988 – 2022 PHCs

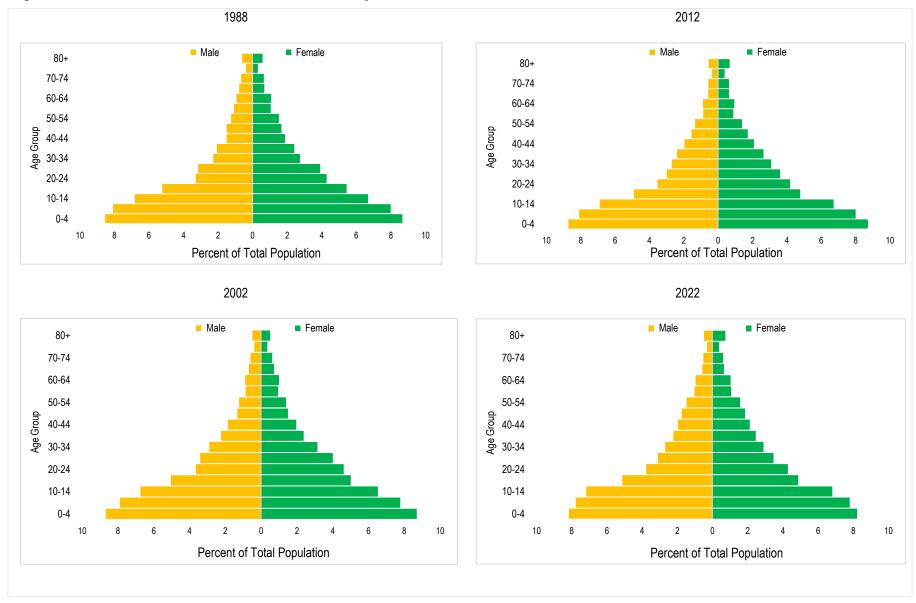


Figure 3.7: Trend of Mainland Tanzania Urban Pyramid 1988 - 2022 PHCs

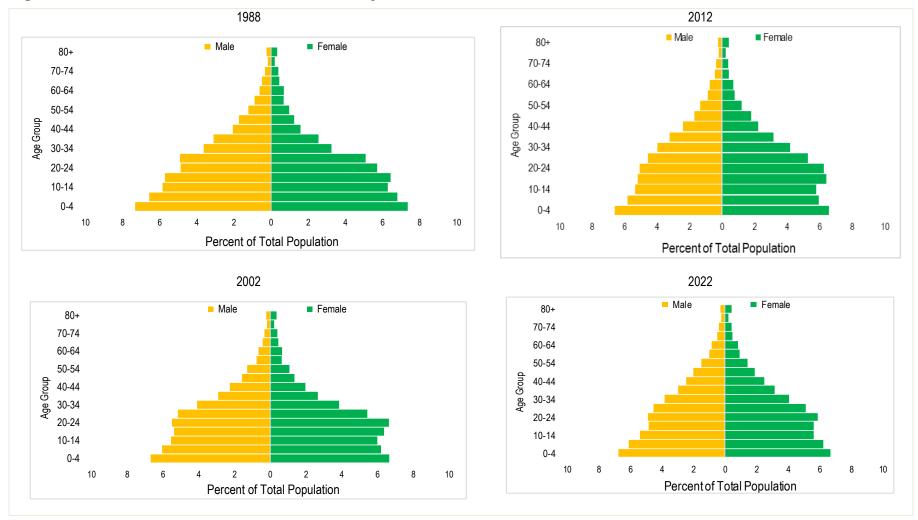


Figure 3.8: Trend of Tanzania Zanzibar Rural Pyramid 1988 – 2022 PHCs

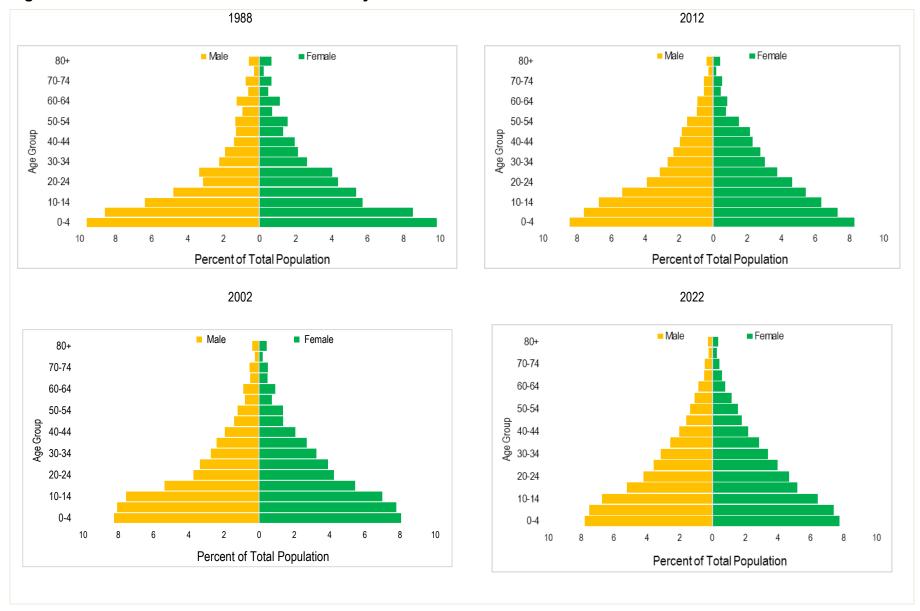
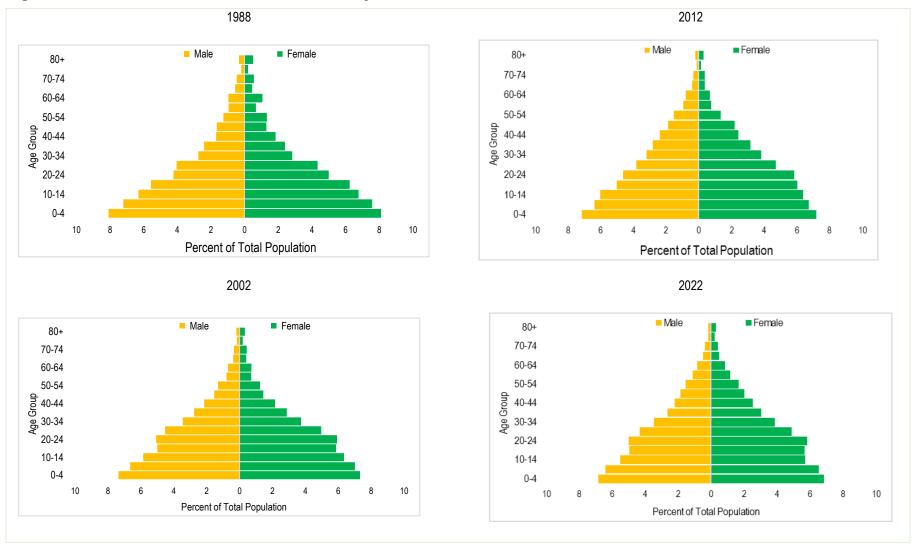


Figure 3.9: Trend of Tanzania Zanzibar Urban Pyramid 1988 – 2022 PHCs



3.3 Trend in Broad Age Groups

Tanzania continue to maintain a youthful population, with 0-14 years age group comprising 42.8 percent of the total population in 2022. However, this has shown a decline trend from 45.8 percent in 1988, the figure still indicates that a significant portion of Tanzania's population is young. The observed decline, could be attributed to a combination of factors, including changes in fertility rates, improvements in healthcare, and socio-economic transitions. This argument is exemplified by the fact that over the past few decades, the country has experienced a slow but steady decline in the total fertility rate. On the other hand, the working age group (15-64 years) has shown an increasing trend, from 49.9 percent in 1988 to 53.4 percent in 2022.

Meanwhile, a slight decrease is observed in the elderly population (65 years and above). In 2022, this age group accounted for approximately 3.8 percent of the total population, marking a decline from 4.3 percent in 1988 (Figure 3.10).

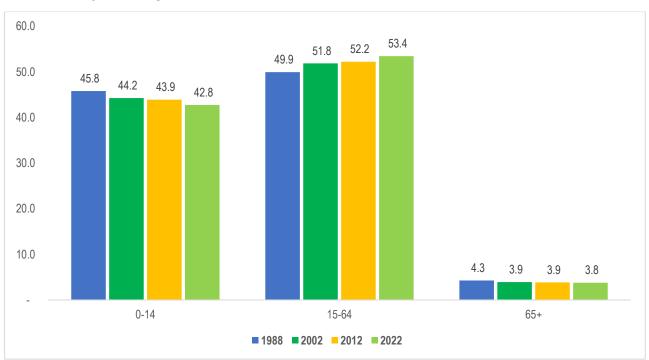
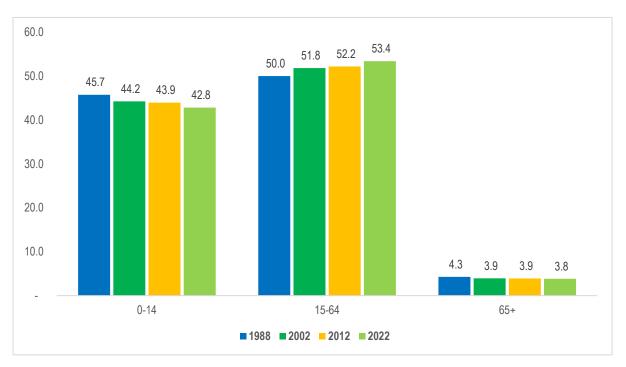


Figure 3.10: Percent Distribution of Population by Broad Age Groups; Tanzania, 1988 – 2022 PHCs

Figure 3.11 reveals that the proportion of persons aged 0-14 years in Mainland Tanzania follows a similar pattern to that of Tanzania's total population. The proportion has been decreasing by nearly one percentage point after every 10 years between 1988 and 2022.

Meanwhile, the proportion of the working-age population (15-64 years) has steadily increased, about the same percentage point as that of Tanzania.

Figure 3.11: Percentage of Population by Broad Age Groups; Mainland Tanzania, 1988 – 2022 PHCs



The proportion of the population aged 0-14 years in Tanzania Zanzibar follows a similar pattern to that of Tanzania's total population. While the working-age population (15-64 years) has been increasing at a similar rate to that of Tanzania, its growth rate every ten years is more than double that of Mainland Tanzania. The elderly population (65 years and above) in Tanzania Zanzibar has shown a declining trend for decades. However, its proportion is consistently lower compared with Mainland Tanzania (Figure 3.12).

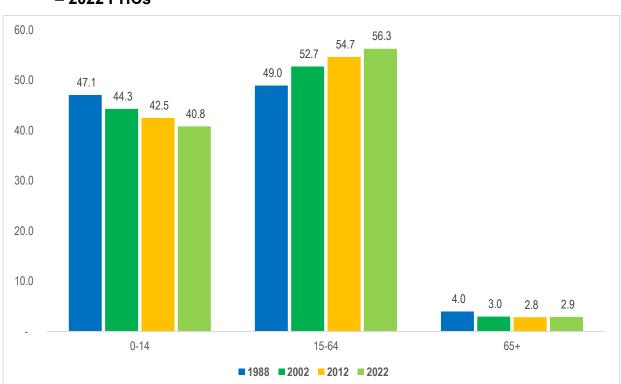


Figure 3.12: Percentage of Population by Broad Age Groups; Tanzania Zanzibar, 1988 – 2022 PHCs

3.3.1 Changes in Broad Age Groups by Sex

Figure 3.13 and Figure 3.14 reveal that male population has a similar pattern as that of Tanzania over the four decades. For the female population, a similar pattern is observed for the age groups 0-14 and 15-64. However, for female elderly (65+ years), the pattern fluctuations occurred for two decades, followed by a slight increase for the last decade. With respect to the levels, a noticeable difference is observed among young males (0-14 years), where the proportions is higher than that of females. Conversely, the working-age population (15-64 years), the proportion of females is higher than that of males. For both young and working-age groups, the gap is around 2 percentage points. This observation suggests that females have consistently outnumbered males in Tanzania's population over the decades. Furthermore, for elderly population (65 years and above), the proportion of males is higher than females in 1988, while the proportion is higher among females than males in 2012 and 2022. Across all decades, the gender gap for elders (65 years and above) has remained narrow. The gap tends to be larger at younger ages and decreases with increasing age. However, with improvements in maternal and infant mortality, the gender gap increases in favour of females than males (Newman and Branch, 2001).

Figure 3.13: Percentage Distribution of Male Population by Broad Age Groups in Tanzania (1988 – 2022)

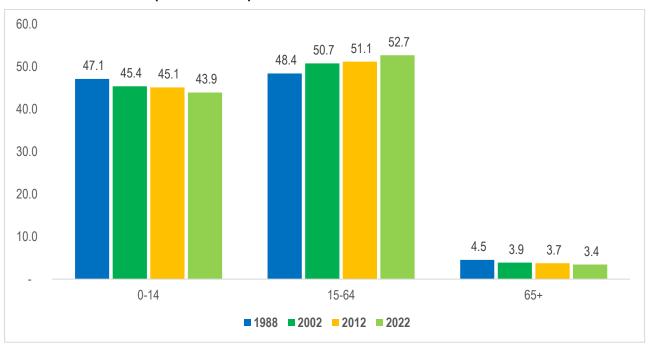
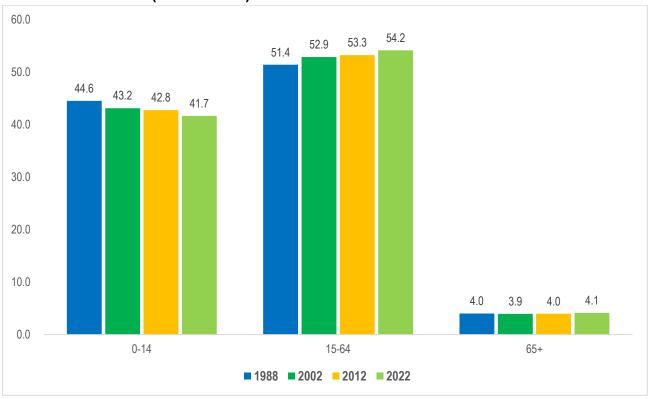


Figure 3.14: Percentage Distribution of Female Population by Broad Age Groups in Tanzania (1988 – 2022)



3.3.2 Changes in Broad Age Groups by Place of Residence

Results show that, the proportion of young population (0-14 years) is higher in rural areas than in urban areas across Tanzania. Over the past four decades, both areas show a slight decreasing trend in this age group. The proportion of young people in Tanzania rural areas decreased from 47.0 percent in 1988 to 45.9 percent in 2022, while in urban area the proportion decreased from 40.2 percent in 1988 to 36.9 percent in 2022.

The proportion of working-age population in Tanzania rural areas is less than half of the total population over all four decades. In urban areas, it is more than 50 percent over the same period. In both rural and urban areas there is an increasing trend. The figures further reveal that the percentage of the elderly people (65 years and above) is higher in Tanzania rural areas than in urban areas. The trend has been fluctuating over the four decades in Tanzania rural areas, while in Tanzania urban areas, there has been a gradual increase over four decades (Figure 3.15).

Figures 3.16 and 3.17 show trends by area of residence for the young population. A higher proportion of young people in rural areas compared to urban areas is observed for Tanzania, Mainland Tanzania and Tanzania Zanzibar. A similar pattern of higher percent of working-age population (15-64 years) is observed for Tanzania, Mainland Tanzania and Tanzania Zanzibar. A percentage of the elderly population is more in urban areas than rural areas across Tanzania, Mainland Tanzania and Tanzania Zanzibar.

Figure 3.15: Percentage of Population by Broad Age Groups and Place of Residence; Tanzania, 1988 – 2022 PHCs

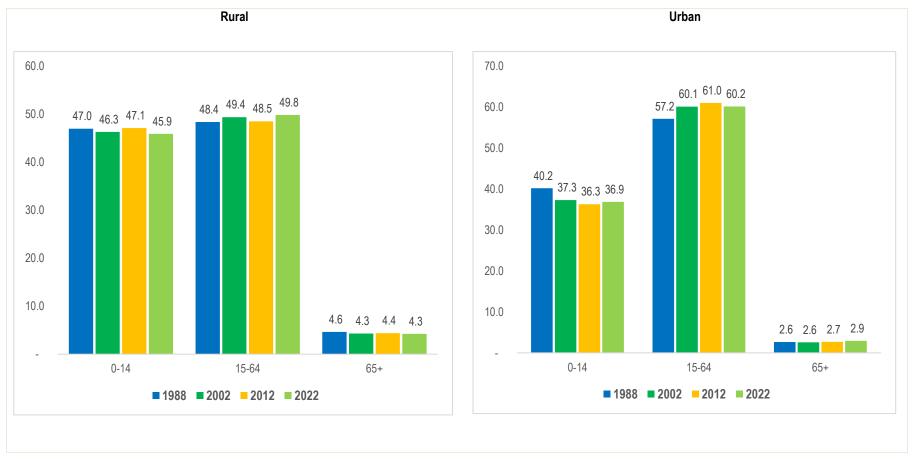


Figure 3.16: Percentage of Population by Broad Age Groups and Place of Residence; Mainland Tanzania, 1988 – 2022 PHCs

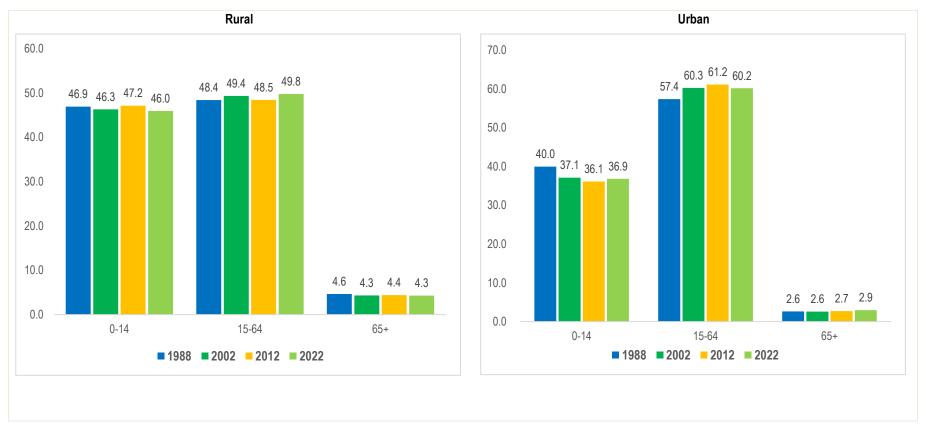
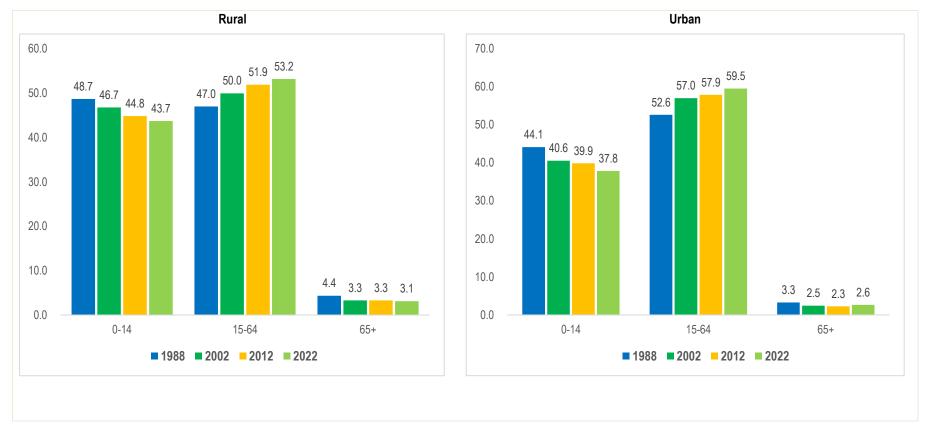


Figure 3.17: Percentage of Population by Broad Age Groups and Place of Residence; Tanzania Zanzibar 1988 – 2022 PHCs

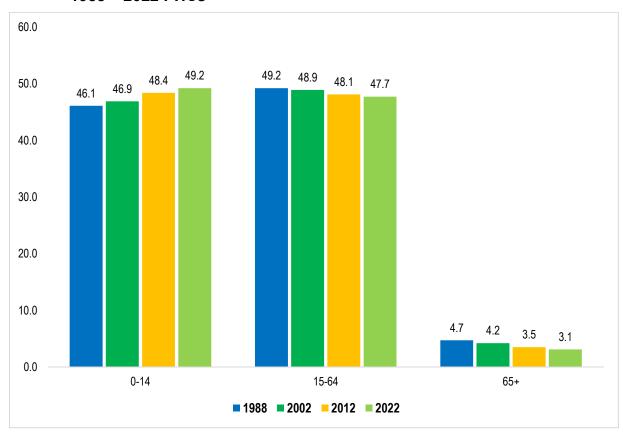


3.3.3 Changes in Broad Age Groups by Selected Regions

The broad age groups vary in each decade and across regions. Although the patterns are almost the same, across regions, variations in the performance level are observed. Four regions were selected for illustration of unique shape. Tabora is selected among the regions with high fertility rate, Dar es Salaam is a commercial city and well known as region for internal migrants inflows, Pwani Region is in proximity to Dar es Salaam and Kilimanjaro is the northern region with the highest fertility decline rate in the last decades (Agwanda and Amani, 2014).

The pattern of Tabora region for young and working-age population differs from that of other regions. The young population proportion consistently increased from 46.1 percent in 1988 to 49.2 percent in 2022. While the proportion of working-age population decreased continuously from 51.2 percent in 1978 to 47.7 in 2022. At the same time, the proportion of elders decreased from 4.7 percent in 1988 to 3.1 percent in 2022 (Figure 3.18).

Figure 3.18: Percent Distribution of Population by Broad Age Group; Tabora Region, 1988 – 2022 PHCs



Dar es Salaam region shows the lowest proportion of young population (0 - 14 years) among the regions. The trend shows that the proportion decreased consistently over the decades, working-age is more than 60.0 percent of the population, indicating that it is the region with the highest proportion of working-age population. The proportion of elderly population (65 years and above) has a slight increase, though it remains lower compared to other regions (Figure 3.19).

Figure 3.19: Percent Distribution of Population by Broad Age Groups; Dar es Salaam Region, 1988 - 2022

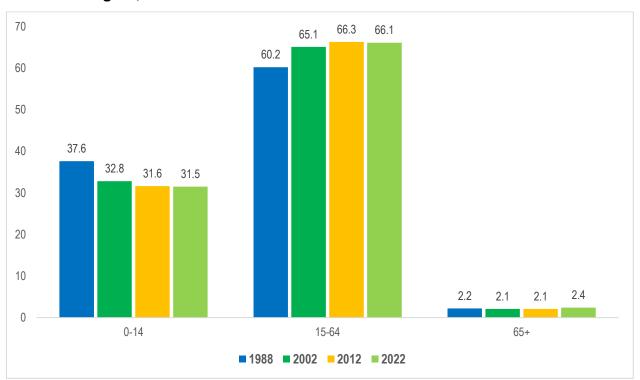
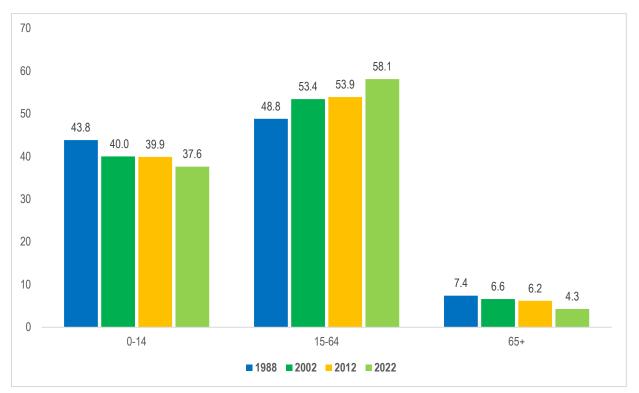


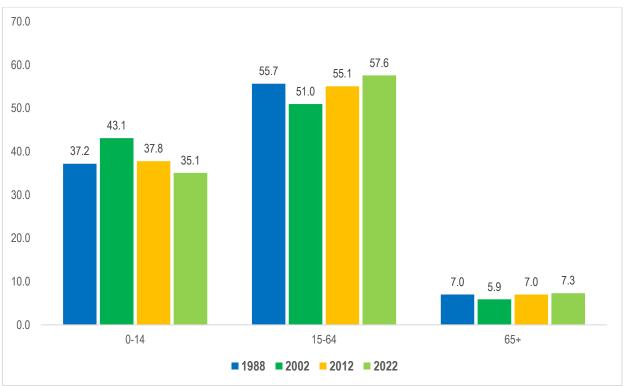
Figure 3.20 shows that the proportion young population (0.14 years) in Pwani has declined over time, while working-age population has increased over time, by nearly five percentage points from 2012 to 2022. The increase is due to improvements of infrastructure that enable people to commute between their residences and workplaces or business areas, returning home in the evening. The trend of elderly population (65 years and above) in Pwani has historically been relatively high. However, its proportion has declined from 7.4 percent in 1988 to 4.3 percent in 2022.

Figure 3.20: Percent Distribution of Population by Broad Age Groups; Pwani Region, 1988 – 2022 PHCs



The proportion of young population in Kilimanjaro region increased from 37.2 in 1988 to 43.1 in 2002 then decreased to 35.1 percent in 2022. While, the working-age population decreased from 55.7 in 1988 to 51.0 in 2002 then increased to 57.6 percent in 2022. The region has the highest proportion of elderly population (65 years and above), it increased from 7.0 percent in 1988 to 7.3 percent in 2022, with a notable exception in 2002 when it decreased to 5.9 percent (Figure 3.21).

Figure 3.21: Percent Distribution of Population by Broad Age Groups; Kilimanjaro Region, 1988 – 2022 PHCs



3.4 Trend in Age Dependence Ratio in Tanzania

The current age structure has a bearing on the age of dependents. This ratio represents the number of dependants per 100 working-age individuals and serves as a key indicator of economic pressures and responsibilities faced by this group. The age-dependency ratio, which compares the working-age population (15–64 years) to the non-working-age population, are illustrated in Figure 3.22. A dependency ratio of above 100 is generally considered unfavourable. The dependency ratio for Tanzania was 87.1, meaning that there were 87 dependants per 100 working-age individuals, which is about the same for Mainland Tanzania. However, the ratio was lower in Tanzania Zanzibar at 77.7. The trend shows a favourable shift in dependency ratios, as year increases the ratio decreases particularly in Tanzania Zanzibar. This indicates a lighter potential burden on worker's overtime.

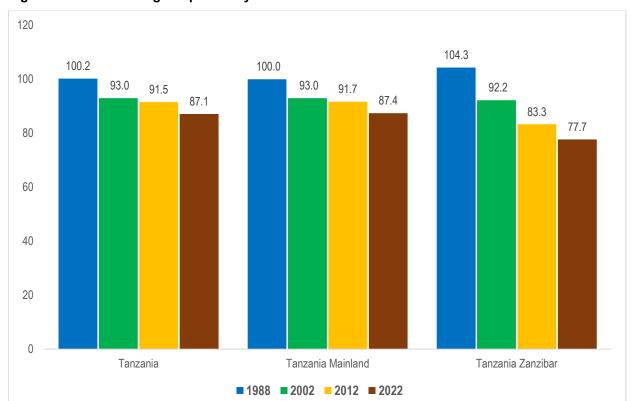


Figure 3.22: Trend in Age Dependency Ratios in Tanzania 1988 - 2022 PHCs

3.4 Conclusion

Between 1988 and 2022, Tanzania's overall age and sex structure has remained relatively stable, with the maintaining young and growing population. Over time, the base population shrinks gradually, with a more pronounced shift in Tanzania Zanzibar. As age increased, the proportion of population steadily decreased followed by narrowing toward the top, where the male proportion lower than the females population. The narrowing of the pyramid among elderly indicates increasing demand for social protection, including universal pension scheme and health insurance. Thus, the Government should review and implement existing social protection policies taking into account the needs of the elderly population.

The population pyramid in rural areas has broader base and greater deficit of males compared to urban areas, which is an indication of youth rural-urban migration. The persistence increase of working-age population in urban areas, while rural areas have experienced a decline in the young population for four decades reflects the high demand of socio-economic needs in those areas. This observation means that the Government should consider allocation of adequate resources to improve urban planning, and increase job opportunities in rural areas.

Chapter Four

Population and Development

4.1 Introduction

The relationship between population and development continues to be a subject of considerable controversy and an active area of research. Population serves as both the purpose and the driver of development. Julius Kambarage Nyerere, the Father of the Nation and first President of the United Republic of Tanzania, in his writings, frequently emphasized the importance of human development. One notable references is his work titled "Freedom and Unity", where he argued that development should focus on improving people's lives and well-being rather than focusing solely on economic growth (Nyerere, 1968). As a vehicle, development occurs through the activities of the population. Since all development efforts aim to enhance human welfare, it is therefore important to critically analyse all information about the target population and its dynamics to guide development. Development efforts that fail to integrate population consideration are unlikely to fully achieve their intended goals. In addition, population could only be integrated if its size and dynamics are known. This Chapter sets the stage for understanding the complex relationship between population and development by analyzing data from 2022 Population and Housing Census. The insights generated provide evidence-based understanding of population dynamics relation to health, education, economy, agriculture, and urbanization¹.

The Chapter utilizes the Resources for the Awareness of Population Impacts on Development (RAPID) model, a computer-based tool that projects the social and economic consequences of high fertility and rapid population growth across multiple sectors, including economy, education, health, urbanization and agriculture. The RAPID programme is used to raise policymakers awareness regarding the impact of fertility and population growth as factors in social and economic development. The model requires population input as well as inputs for each of the mentioned sectors, to provide the informed projection for effective policymaking.

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¹ It should be noted that education and economy sectors were already discussed in Chapter 4. However, the indicators of education used here were different and hence justified to be included in Chapter 5. The indicators for economy were similar to those presented in Chapter 4 and they did not add value to appear in this Chapter. It was therefore decided to remove the Section on Population and Economy from Chapter 5.

4.2 Population and Health

4.2.1 Overview

Population and health are deeply interconnected areas that influence various aspects of human development and societal well-being. Several factors related to health contribute significantly to population and development. Improved health standards contribute to higher quality of life and economic productivity, positively shaping population trends and dynamics. Tanzania is experiencing rapid population growth at the same time has continued to address the aspect of improving access to and equity of quality essential health care services. Healthcare is one of the key pillars of the Tanzania Development Vision (TDV) 2025, which aims to provide equitable, accessible and high-quality health services for all Tanzanians. The vision outlines ambitious health goals, including improving life expectancy at birth and addressing the burden of infectious diseases. By 2022, the country had made some significant strides towards achieving these goals (refer to the Mortality Monograph 2025). Despite the achievements made, challenges also remain. A critical issue in meeting TDV 2025 health goals is the shortage of healthcare workers, including doctors, nurses and midwives, especially in rural areas.

The health sector workforce distribution in Tanzania is below WHO-recommended levels:

- Doctor-to-population ratio:
 - Mainland Tanzania: 1 doctor per 8,491 people
 - Tanzania Zanzibar: 1 doctor per 4,617 people
 - National average: 1.2 doctors per 10,000 people (WHO recommends 17.2– 22.8 doctors per 10,000)
- Nurse-to-population ratio:
 - Mainland Tanzania: 1 nurse per 1,314 people
 - Tanzania Zanzibar: 1 nurse per 1,381 people
 - National average: 7.6 nurses per 10,000 people (WHO recommends 37.7 nurses per 10,000)

These statistics underscore the urgent need for healthcare workforce expansion, particularly in rural areas, to meet growing healthcare demands (Ministry of Health, Community Development, Gender, Elderly, and Children, 2023). Projections are essential tool for health system planning, that enhance healthcare services capacity to meet the growing and changing needs of the increasing population. To achieve this, the RAPID model is used to project the demands for health sector from 2022 up to 2050.

4.2.2 Input Data and Assumptions

Inputs data used in the RAPID model to estimate the health service demands from 2022 to 2050 are population per doctors, population per nurse, population per AMO/CO, population per hospital, population per health centre, population per dispensary, population per hospital bed and annual health expenditure. The data, presented in Table 4.1, was obtained from reliable sources, including:

- i. Tanzania Statistical Abstract (2019, 2020, 2021, 2022 and 2023),
- ii. Zanzibar Statistical Abstract (2022 and 2023),
- iii. National Health Account (2020-2021 and 2021-2022),
- iv. Health Sector Strategic Plan V (2021-2026),
- v. Zanzibar Health Sector Strategic Plan (HSSP, 2021),
- vi. PHC Population Projections (2012).

Table 4.1: Health Sector Inputs by Base Year, Tanzania, Mainland Tanzania and Tanzania Zanzibar; 2022

Health Input	2022		
	Tanzania	Mainland Tanzania	Tanzania Zanzibar
Population Per doctor	8,491	8,491	4,617
Population Per Nurse	1,317	1,314	1,381
Population Per Health Center	61,586	59,701	
Population Per Hospital	145,997	145,110	179,703
Population per Hospital Bed	628	609	1,427
Annual Health Expenditure Per Person (TZS)	115,444.20	115,896.79	101,081.69
Population per Dispensary	8,090	8,145	6,561
Population per AMO/CO	4,422	4,422	5,206

Number of health personnel by cadre (doctor, nurse, AMO/CO), health facilities and hospital beds were sourced from the national statistical abstracts (NBS and OCGS) for the year 2022. Annual per capita health expenditure, defined as the percentage of GDP spent on health divided by the population for the year 2022, was obtained from Tanzania National Health Accounts (2019/2020 - 2021/2022) for Mainland Tanzania. For Tanzania Zanzibar, the Health Sector Strategic Plan (HSSP) notes that about 3.4 percent of GDP is dedicated to health expenditure. The per capita health expenditure was computed using adjusted 2022 population for Tanzania Zanzibar. A weighted average of the per capita health expenditure

for Mainland Tanzania and Tanzania Zanzibar was then calculated to get a baseline value of TZS 112,239.00.

Projections for key health inputs were guided by national, regional and/or international policy guidelines, development plans and sector-specific strategies. It is worth noting that most national development plans and/or policy guidelines were guided by Tanzania Development Vision 2025, and terminating around the year 2025/2026. In such instances where a target value for an indicator beyond 2026 is unavailable in policy documents, past trends up to 2022 were used to assume changes and targets extending to 2050.

Health sector personnel trends: HSSP targets a 25 percent increase in health personnel between 2020 and 2025. Using population projections from 2012 (covering 2020 and 2021), alongside adjusted 2022 population data, and projected population was computed 2023 - 2025. A trend analysis of doctors, nurses, and AMO/COs from 2018 to 2023 (published in Statistical Abstracts from NBS & OCGS) identified an average decline of 0.9% per year in population per health personnel, which is assumed to continue through 2050.

Health Sector facilities trends: HSSP indicates a target increase of 19 percent in health facilities between 2020 and 2025, raising the ratio from 2.1 to 2.5 per 10,000 population. Based on projected and adjusted population values for the years 2020 - 2025, population per health facility (hospital, health center and dispensary) were calculated for 2023, 2024 and 2025. Tanzania Health Policy stipulates a target of a hospital in every district, a health center in every ward and a dispensary in every village/street. It is projected that the required number of health centers and dispensaries will be achieved by 2050. It is also assumed that population per hospital will remain the same as it currently is, seeing as the target for number of hospitals has more or less been achieved. This assumption implies that hospital growth will align with population growth to maintain the population per hospital value.

HSSP set a target health expenditure to reach 5 percent of GDP by the HSSP, a target that has already been achieved. Therefore, it is assumed that the per capita health expenditure will remain the same and the only adjustment applied is that of inflation (assuming the average annual inflation remains the same as that of 2023 through 2025).

4.2.3 Outputs from the RAPID Model and Policy Implications of the Health Facilities 4.2.3.1 Infrastructure Indicator

Figure 4.1 shows that demand for health facilities in Tanzania will increase from 7,734 dispensaries, 1,016 health centres and 429 hospitals in 2022 to 26,541 dispensaries, 4,004 health centres and 844 hospitals in 2050. Dispensaries and health centres will increase by

3 times to meet the target of having a dispensary in every village/shehia. The demand for hospitals will double to meet the target of having a hospital in every district by 2025.

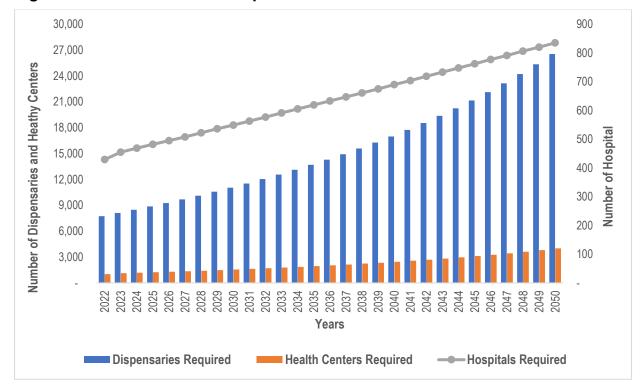


Figure 4.1: Health Facilities Requirements in Tanzania 2022-2050

Source: RAPID Modelling Results for Tanzania, 2024.

Note: The Figures in this chapter have been constructed such that both vertical axes (left and right of the figure) are used with different scales and / or indicators. Care need to be taken in order to understand the contents of the figure.

Figure 4.2 shows that demand for health facilities in Mainland Tanzania will increase from 7,447 dispensaries, 1,016 health centres and 418 hospitals to 25,723 dispensaries, 3,880 health centres and 809 hospitals from 2022 to 2050 respectively. Dispensaries and health centres will increase by three times to meet the target of having a dispensary in every village/shehia and health centre for every ward. The demand for hospital is expected to double to meet the target of having a hospital in every district by 2025.

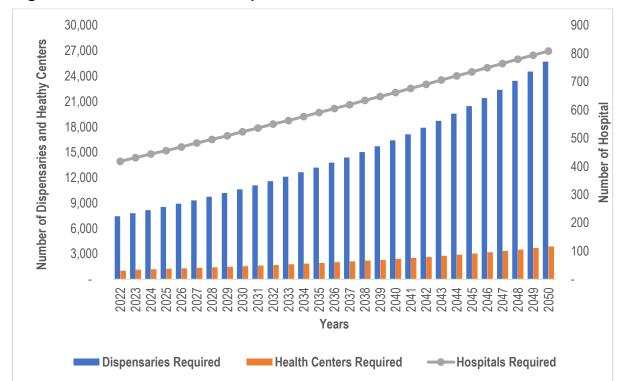


Figure 4.2: Health Facilities Requirements in Mainland Tanzania 2022-2050

Source: RAPID Modelling Results for Mainland Tanzania, 2024

Figure 4.3 show that demand for health facilities in Tanzania Zanzibar will increase from 291 dispensaries and 11 hospitals to 1,008 dispensaries and 35 hospitals from 2022 to 2050 respectively. Dispensaries and hospitals will increase by three times to meet the target of having a dispensary in every village/shehia and health centre for every ward. The demand for hospital will double to meet the target of having a hospital in every district by 2025.

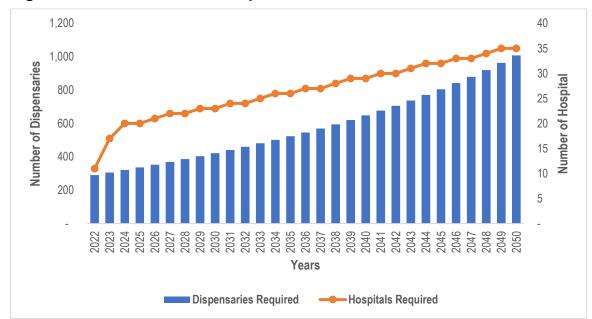


Figure 4.3: Health Facilities Requirements in Tanzania Zanzibar 2022-2050

Source: RAPID Modelling Results for Tanzania Zanzibar, 2024

4.2.3.2 Health Personnel

Figure 4.4 shows that there is an increase of health personnel in Tanzania from 47,545 nurses, 7,558 doctors and 14,084 AMO/CO in 2022 to 124,192 nurses, 25,574 doctors and 35,928 AMO/CO in 2050 respectively. This could imply that the health personnel are expected to more than double by 2050.

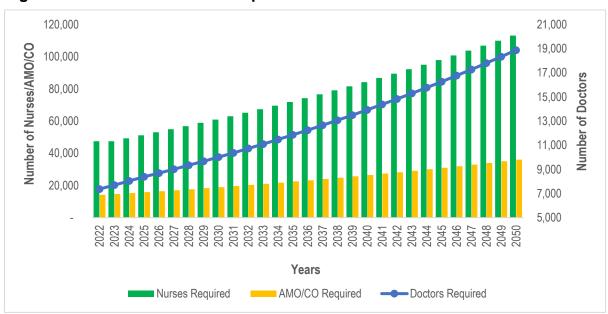


Figure 4.4: Health Personnel Requirements in Tanzania: 2022-2050

Source: RAPID Modelling Results for Tanzania, 2024

Figure 4.5 shows that there is an increase of health personnel in Mainland Tanzania from 46,161 nurses, 7,144 doctors and 13,717 AMO/CO in 2022 to 109,644 nurses, 18,300 doctors and 34,984 AMO/CO in 2050 respectively. This could imply that the health personnel are expected to be more than double by 2050.

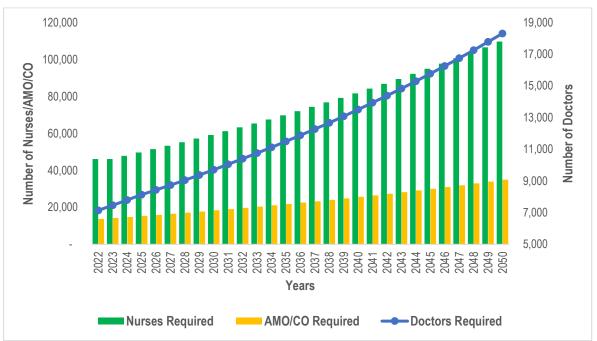


Figure 4.5: Health Personnel Requirements in Mainland Tanzania: 2022-2050

Source: RAPID Modelling Results for Mainland Tanzania, 2024

Figure 4.6 shows that there is an increase of health personnel in Tanzania Zanzibar from 1,384 nurses, 414 doctors and 367 AMO/CO in 2022 to 14,548 nurses, 7,274 doctors and 944 AMO/CO in 2050 respectively. This could imply that the health personnel are expected to increase by more than ten times by 2050.

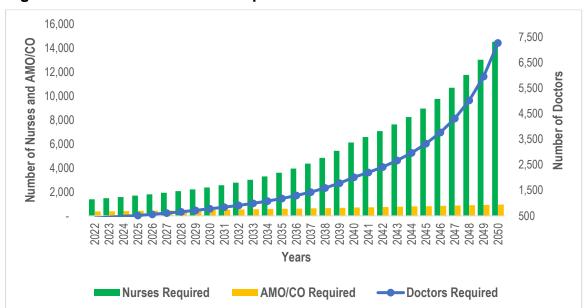


Figure 4.6: Health Personnel Requirements in Tanzania Zanzibar: 2022-2050

Source: RAPID Modelling Results for Tanzania Zanziibar, 2024

Figure 4.7 indicates about threefold increase of hospital beds in Tanzania, a need for additional 195,726 hospital beds requirement from 99,537 in the year 2022 to 295,263 in the year 2050. The increase is also about threefold in both Mainland Tanzania and Tanzania Zanzibar – from 99,599 to 286,171 and from 1,339 to 4,269 respectively.

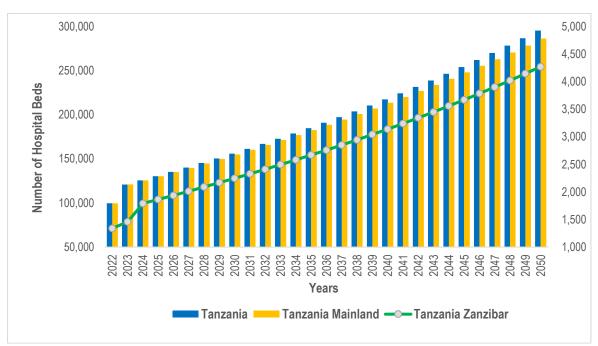


Figure 4.7: Hospital Beds Requirements in Tanzania 2022-2050

Source: RAPID Modelling Results for Tanzania, Mainland Tanzania and Tanzania

Zanzibar; 2024

4.2.3.3 Health Expenditure

The results show significant rise in annual recurrent health expenditure, increasing by TZS 29,240.13 billion, from TZS 7,223.02 billion in 2022 to TZS 36,262.61 billion in 2050 which is about fivefold increase (Figure 4.8). For Mainland Tanzania the increase is also about fivefold from TZS 7,029.81 billion in 2022 to TZS 33,704.69 billion in 2050, while in Tanzania Zanzibar it is a 13 times increase from TZS 193.21 billion in 2022 to TZS 2,557.92 billion in 2050.

40.000.00 3.000.00 35,000.00 2.500.00 30,000.00 **Expenditure TZS Billions** Expenditure TZS Billions 2,000.00 25,000.00 20,000.00 1,500.00 15,000.00 1,000.00 10,000.00 500.00 5.000.00 2022 2024 2026 2028 2030 2032 2034 2036 2038 2040 2042 2044 2046 2048 2050 Years Tanzania Mainland Tanzania Zanzibar ■ Tanzania

Figure 4.8: Annual Recurrent Health Expenditure Requirements (TZS Billions)

Tanzania, Mainland Tanzania and Tanzania Zanzibar: 2022-2050

Source: RAPID Modelling Results for Tanzania Zanziibar, 2024

4.3 Population and Education

4.3.1 Overview

Population and education development focuses on the interconnected relationship between the size, growth and composition of a population and the role which education plays in shaping and influencing future population. As the country's population continue to grow, the demand for education expands to accommodate the increasing number of children and youths. In this premise, the government needs to plan and ensure that educational opportunities keep pace with population growth and that the country produces quality human resources.

The increase in school-age populations translates into greater demand for educational facilities, teachers and other resources. An increase in this group presents both

opportunities and challenges hence the need for analysis to allow for evidence-based planning and policy development. Providing quality education for all school-age children can enhance the skills and capabilities of the country's future workforce.

4.3.2 Input Data and Assumptions for the RAPID Model

The RAPID model is utilized for analyzing education sector, using various data sources for in-depth projections. Key input data used in the RAPID model to estimate the population education services demands from 2022 to 2050, include the age of entry into primary and secondary schooling, number of years for primary and secondary schooling, primary and secondary enrolment rate, student-to-teacher ratios in primary and secondary schools, and annual education expenditure per primary and secondary students (TZS). These indicators were obtained from the following sources:

- Tanzania Statistical Abstract (2022 and 2023) and Zanzibar Statistical Abstract (2022 and 2023);
- ii. Education and Literacy Monograph (2025) for enrolment rates;
- iii. Basic Education Statistics (BEST) in Tanzania and Ministry of Education of Zanzibar (2022) for Pupils/Students teacher ratio;
- iv. Basic Education Statistics in Tanzania (BEST) in 2022 for base-year student-toschool ratio data; and
- v. Recurrent Expenditure data from Tanzania's Education and Training Policy 2014 (2023).

School going age: The education policies set by the Mainland Tanzania and The Revolutionary Government of Zanzibar prescribe the age of entry for primary school as seven for Mainland Tanzania and six for Tanzania Zanzibar, while for secondary education it is 14 for Mainland Tanzania and 12 for Tanzania Zanzibar. The duration for basic education is seven years and six years for primary education in Mainland Tanzania and Tanzania Zanzibar respectively and four years for secondary in both Tanzania Zanzibar and Mainland Tanzania. Under the 2024 revision of Tanzania's Education and Training Policy, amended the school going ages for basic education in the Mainland Tanzania. Pupils who were in standard three and below in year 2024 will pursue primary education for six years that is now ending at standard 6 instead of standard 7 seven. Entry age for primary education from 2025 will then be six years. This effectively changes the age of entry for secondary school in 2027 will change from 14 years to 13 years, while maintaining the four-year duration.

Enrolment rates: for both primary and secondary information (form I- IV) is sourced from the Education and Literacy monograph (2025). Enrolment from 2022 to 2025 are projected based on FYDP III targets of 100 percent enrolment rate for primary education and 42 percent for secondary education. It is assumed that the enrolment rates to remain constant through 2050.

Pupil teacher ratio (PTR): The 2022 and 2023 PTR were computed using BEST data from the President's Office Regional Administration and Local Government (PORALG) for the respective years. FYDP III sets the PTR targets to 50 and 20 for primary and secondary education respectively. It is assumed that PTR will be constant up to 2050.

Students per school: The ratio in 2022 was computed and for URT it was 593 and 483 for primary and secondary schools respectively and projected to reach 500 and 400 by 2050. The ratio for 2022 in Mainland Tanzania is similar to that of URT, but for Tanzania Zanzibar it was 554 per primary school.

Recurrent Expenditure: According to education policy, recurrent expenditure per student for primary education is TZS 10,000 for Mainland Tanzania and TZS 24,000 for Tanzania Zanzibar. For secondary education it is TZS 25,000 for Mainland Tanzania and TZS 71,000 for Tanzania Zanzibar. These expenditure values are assumed to remain constant up to 2050, with adjustments for 2023 average annual inflation of 3.8 percent.

Table 4.2: Education Inputs by Base Year, Tanzania; 2022

Education Inputs		2022				
	Tanzania	Mainland Tanzania	Tanzania Zanzibar			
Primary School						
Age of Entry into Primary School	7	7	6			
Number of years of Primary Schooling	7	7	7			
Primary school enrolment rate	83.3	83.3	94.4			
Students per primary school teacher	57	57	45			
Students per primary school	593	593	554			
Recurrent expenditure per primary school student (TZS)	10,000.00	10,000.00	24,000.00			
Secondary School						
Age of entry into secondary school	14	14	13			
Number of years of secondary schooling	4	4	4			
Secondary school enrolment rate (%)	42	42	61.5			
students per secondary school teacher	25	25	18			
students per secondary school	484	484	378			
Recurrent expenditure per secondary school student (TZS)	25,000.00	25,000.00	71,000.00			

These input data and the underlying assumptions have facilitated a comprehensive analysis through the RAPID model providing a realistic picture of the education sector in Tanzania. The aforementioned analysis will provide long-term strategic planning, helping to identify challenges and opportunities in a bid to ensure growth of education sector targeted to effectively address the increasing population demands and policy changes.

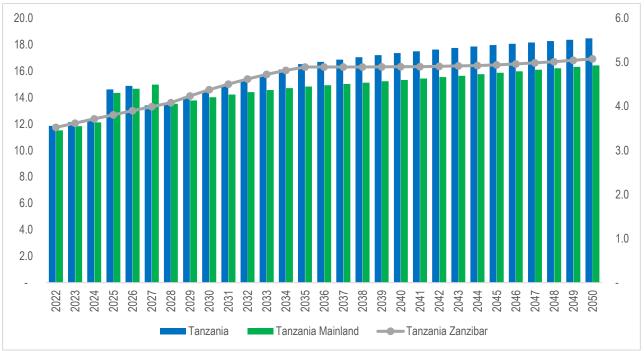
4.3.3 RAPID model Outputs and Policy Implications of the Indicator for Primary and Secondary Education

4.3.3.1 Projected Population for Education Resource Requirements in Primary schools

Trends in Primary School-Age Population

The results from the RAPID model indicate that the total number of school-aged children in primary schools in Tanzania is expected to increase from 11.9 million in 2022 to 18.5 million by 2050. Between 2024 and 2028 the increase is expected to be influenced by changes in the school-age population in both Tanzania Zanzibar and Mainland Tanzania, based on the revised Education Policy. This implies potential adjustments in the education system such as altering the duration of primary education from six years or an increase in the number of children reaching school-starting age during this period (Figure 4.9).

Figure 4.9: Projected Population of Primary School Age population (in millions – Tanzania, Mainland Tanzania and thousands – Tanzania Zanzibar), 2022–2050



Number of Teachers Required

The results from RAPID model show a significant increase in the demand for primary school teachers in Tanzania from 175,687 in 2022 to 341,231 in 2050, while the projected increase for Mainland Tanzania is from 168,297 in 2022 to 328,541 in 2050 and for Tanzania Zanzibar from 7,390 in 2022 to 12,690 in 2050 (Table 5.3). However, rapid expansion of the teaching workforce requires considerable resources for recruitment infrastructure. If effectively managed, the increase in teachers could contribute to a more equitable education system that ensures that both urban and rural area students get quality education.

On the other hand, without proper planning and resource allocation to meet demand for more teachers, this could overwhelm the existing education system potentially leading to teacher shortages in some areas and a decline in the education quality. This clearly shows the need for workforce expansion, ensuring the Pupil-Teacher Ratio remains optimal. The increasing teachers demand requires further infrastructure development in primary education in teacher recruitment, training and retention programmes to avoid shortages. The projected increase in primary school teachers reinforces the importance of a strong, well-equipped education workforce by 2050.

Number of Schools Required

The number of primary schools required for the increase in school-age children is projected to rise from 16,777 schools in 2022 to 31,867 schools in 2050 for Tanzania, while for Mainland Tanzania the increase will be from 16,177 schools in 2022 to 30,852 schools, and for Tanzania Zanzibar from 600 schools in 2022 to 1,015 schools in 2050. Performance in 2050 will largely depend on the timely construction and equipping to cope with the growing student population demand (Table 4.3). This scenario could unfold based on the following: Key Positive Outcomes with Adequate Planning

- i. *Improved Access to Education:* An increase in the number of schools ensures better geographic accessibility for students, particularly in rural and underserved regions;
- ii. Enhanced Learning Environments: With sufficient classrooms supporting better teacher-student engagement and learning outcomes, students are unlikely to experience overcrowding.
- iii. Balanced Teacher Workloads: Additional schools enable better teacher distribution, reducing the burden on existing facilities and educators.

Key Risks without Adequate Planning

- i. Severe Overcrowding: Insufficient school construction could lead to overburdened facilities, negatively impacting the quality of education and student well-being;
- ii. *Urban-Rural Disparities:* A lack of equitable distribution in school construction could widen the urban-rural education gap, leaving rural children underserved; and
- iii. *Strain on Resources:* Delays or inadequate school construction risk overextending existing resources, including teaching staff, infrastructure and learning materials.

This suggests a need for large-scale primary school construction and to meet future demands.

Table 4.3: Education Outputs from the RAPID Model Results in Primary school by Years, Tanzania 2022 – 2050

	Tanza	nnia	Mainland	Tanzania	Tanzania 2	Zanzibar
Years	Number Teachers	Number of Schools	Number Teachers	Number of Schools	Number Teachers	Number of Schools
2022	175,687	16,777	168,297	16,177	7,390	600
2023	199,921	18,414	192,317	17,794	7,604	620
2024	227,083	20,082	218,708	19,443	8,375	639
2025	295,679	25,115	286,870	24,456	8,809	659
2026	302,464	25,766	293,201	25,088	9,263	678
2027	309,093	26,427	299,489	25,721	9,604	706
2028	280,399	24,047	270,447	23,313	9,952	734
2029	286,144	24,628	275,689	23,854	10,455	774
2030	291,322	25,164	280,383	24,352	10,939	812
2031	295,811	25,646	284,550	24,807	11,261	839
2032	299,749	26,084	288,198	25,220	11,551	864
2033	303,165	26,480	291,353	25,593	11,812	887
2034	306,213	26,846	294,174	25,939	12,039	907
2035	308,748	27,171	296,520	26,246	12,228	925
2036	310,762	27,454	298,531	26,526	12,231	928
2037	312,773	27,739	300,540	26,807	12,233	932
2038	314,744	28,023	302,508	27,087	12,236	936
2039	316,760	28,313	304,521	27,374	12,239	939
2040	318,804	28,607	306,559	27,664	12,245	943
2041	320,878	28,907	308,624	27,960	12,254	947
2042	323,101	29,222	310,831	28,270	12,270	952
2043	325,211	29,530	312,920	28,573	12,291	957
2044	327,474	29,854	315,159	28,891	12,315	963
2045	329,749	30,182	317,398	29,213	12,351	969
2046	332,052	30,514	319,647	29,537	12,405	977
2047	334,501	30,864	322,038	29,878	12,463	986
2048	336,818	31,202	324,285	30,207	12,533	995
2049	339,019	31,533	326,410	30,528	12,609	1,005
2050	341,231	31,867	328,541	30,852	12,690	1,015

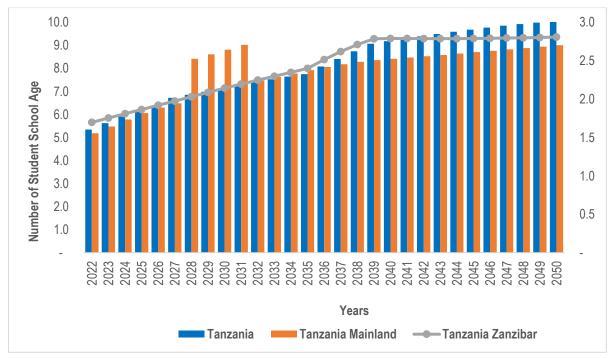
4.3.3.2 Projected Population for Education Resource Requirements in Secondary school

Trends in the Growth of Secondary School Age Population

The secondary school-age population in Tanzania is projected to increase from 5.3 million in 2022 to 10.0 million by 2050, while for Mainland Tanzania it will be from 5.2 million students to 9.0 million and for Tanzania Zanzibar from 1,700 students to 2,800 students (Figure 4.10 and Table 4.4). This projected growth indicates a significant difference

between the number of students eligible to join secondary education and those currently enrolled. Results from the RAPID Model indicate a significant expected increase in the number of children who are not enrolled at school at entry age. It is therefore evident that in the year 2022, the number was 1,874,909 students projected to rise to 3,523,886 students by 2050.

Figure 4.10: Projected Population Growth of Secondary school - Starting Age population (in millions- for Tanzania and Mainland Tanzania and thousands- for Tanzania Zanzibar), 2022–2050



Source: RAPID Modelling Results, 2024

Number of Teachers Required

Results indicate that the demand for secondary school teachers is expected to increase from 92,882 teachers in 2022 to 201,041 teachers in 2050 for Tanzania, while for Mainland Tanzania it will be from 87,087 to 189,106 and for Tanzania Zanzibar the increase will be from 5,795 to 11,935 (Table 4.4). The increase in teachers, highlights the urgent need for infrastructure developments in secondary education, particularly in teacher recruitment, training and retention programmes to avoid shortages.

Number of Secondary Schools Required

Results show a projected increase in the number of secondary schools to cater the increasing student enrolment. Specifically, the number of secondary schools is expected to increase from 4,774 in 2022 to 10,052 in 2050, while for Mainland Tanzania it will be from 4,498 to 9,455 and for Tanzania Zanzibar from 276 to 597 schools (Table 4.4). Significant expansion would be necessary to ensure adequate educational facilities are availed to cope with needs of the student population increase. Furthermore, emphasis should be placed on challenges in terms of funding availability, infrastructure development and maintaining quality of education in a larger number of schools.

This translates to increased access to education and reduction of overcrowding by ensuring that more students have the opportunity to attend school especially in urban areas. However, the rapid increase of number of schools could place a burden on existing resources, require additional funding and management or care to ensure the quality of education is maintained.

Table 4.4: Education Outputs from the RAPID Model Results in Secondary school by Years, Tanzania, Mainland Tanzania and Tanzania Zanzibar;2022 – 2050

	Tanza	nia	Mainland 1	ainland Tanzania Tanzania Zanziba		
Years	Number Teachers	Number of Schools	Number Teachers	Number of Schools	Number Teachers	Number of Schools
2022	92,882	4,774	87,087	4,498	5,795	276
2023	105,156	4,979	98,598	4,667	6,558	312
2024	118,660	5,308	112,037	4,959	6,623	349
2025	134,575	5,621	127,201	5,233	7,374	388
2026	140,271	5,902	132,116	5,474	8,155	428
2027	144,522	6,120	136,131	5,681	8,391	439
2028	185,249	7,876	176,621	7,425	8,628	451
2029	189,621	8,116	180,755	7,654	8,866	462
2030	194,073	8,364	184,971	7,890	9,102	474
2031	198,655	8,620	189,325	8,135	9,330	485
2032	166,332	7,282	156,783	6,787	9,549	495
2033	169,897	7,489	160,134	6,984	9,763	505
2034	173,241	7,690	163,265	7,175	9,976	515
2035	176,519	7,890	166,321	7,365	10,198	525
2036	179,948	8,102	169,265	7,553	10,683	549
2037	182,892	8,295	171,768	7,724	11,124	571
2038	185,410	8,470	173,899	7,881	11,511	589
2039	187,366	8,622	175,530	8,017	11,836	605
2040	188,548	8,739	176,701	8,135	11,847	604
2041	189,720	8,857	177,870	8,254	11,850	603
2042	190,861	8,976	179,016	8,374	11,845	602
2043	192,083	9,100	180,240	8,500	11,843	600
2044	193,374	9,230	181,530	8,631	11,844	599
2045	194,605	9,359	182,755	8,761	11,850	598
2046	195,880	9,493	184,020	8,895	11,860	598
2047	197,079	9,624	185,203	9,027	11,876	597
2048	198,308	9,760	186,419	9,163	11,889	597
2049	199,714	9,907	187,806	9,310	11,908	597
2050	201,041	10,052	189,106	9,455	11,935	597

4.3.3.3 Government Expenditure on Education for Primary and Secondary School

Government expenditure on education plays a crucial part in the national budget reflecting the country's commitment to improving access and quality in education sector. A substantial amount of the budget is allocated to primary and secondary education to support the provision of free education initiative introduced in 2016. The initiative aims to reduce financial barriers and ensure that more students can access schooling without constraints (Education and Training Policy 2014, 2023).

Additionally, the Government invests in higher education by funding public universities, technical institutions, and student scholarships. A portion of the education budget also is for building and upgrading school infrastructure, particularly in rural areas to ensure that learning environments are conducive. Investments in teacher training and professional development programmes support efforts to improve teaching quality and learning outcomes. Overall, the government's expenditure in education is expected to rise as part of Tanzania's long-term development agenda to foster human capital and drive economic progress and aligning with TDV 2025 and the National Five-Year Development Plan (Ministry of Finance and Planning, 2021).

The projections from the RAPID model indicate a substantial increase in annual education services expenditure for primary school between 2022 and 2050; in Tanzania education services expenditure increased from TZS 103.91 billion in 2022 to TZS 478.68 billion by 2050, while for Mainland Tanzania it will be from TZS 95.93 billion to TZS 433.20 and for Tanzania Zanzibar from TZS 7.98 billion to TZS 45.48 billion. Secondary levels demonstrates a similar pattern in the increase from TZS 61.84 billion in 2022 to TZS 312.62 billion in 2050, while for Mainland Tanzania it will be from TZS 54.43 billion to TZS 249.35 billion and for Tanzania Zanzibar from TZS 7.41 billion to TZS 63.27 billion. The increasing financial burden indicates that the Government should allocate substantial amount of financial resources in education over the next decade. Alternatively, seek external funding support or optimize resource allocation to manage this demand (Table 4.5).

Table 4.5: Projected Government Expenditure (TZS Billions) on Education by Years, Tanzania, Mainland Tanzania and Tanzania Zanzibar; 2022 – 2050

	Tanzania		Mainland	d Tanzania	Tanzania Zanzibar		
Years	Primary	Secondary	Primary	Secondary	Primary	Secondary	
2022	103.91	61.84	95.93	54.43	7.98	7.41	
2023	113.34	65.9	105.13	57.52	8.21	8.38	
2024	123.32	70.56	114.46	60.69	8.86	9.87	
2025	158.45	77.56	148.89	66.02	9.56	11.54	
2026	168.24	84.58	157.95	71.17	10.29	13.4	
2027	178.68	90.6	167.47	76.12	11.21	14.48	
2028	169.17	118.16	156.98	102.52	12.19	15.64	
2029	179.55	125.78	166.1	108.91	13.45	16.87	
2030	190.13	133.87	175.35	115.68	14.78	18.19	
2031	200.69	142.47	184.72	122.9	15.97	19.57	
2032	211.4	126.68	194.2	105.64	17.2	21.04	
2033	222.25	134.58	203.78	112	18.47	22.58	
2034	233.34	142.76	213.57	118.53	19.77	24.23	
2035	244.54	151.35	223.46	125.34	21.08	26.0	
2036	255.66	161.02	233.52	132.41	22.14	28.6	
2037	267.28	170.74	244.03	139.47	23.25	31.2	
2038	279.38	180.54	254.96	146.56	24.42	33.98	
2039	292.06	190.25	266.41	153.56	25.65	36.69	
2040	305.32	199.02	278.38	160.46	26.94	38.50	
2041	319.22	208.15	290.91	167.66	28.31	40.49	
2042	333.89	217.65	304.12	175.15	29.77	42.	
2043	349.11	227.67	317.8	183.05	31.31	44.62	
2044	365.18	238.23	332.24	191.37	32.94	46.80	
2045	381.99	249.2	347.31	199.98	34.68	49.2	
2046	399.64	260.74	363.06	209.01	36.58	51.73	
2047	418.27	272.74	379.68	218.35	38.59	54.39	
2048	437.6	285.31	396.86	228.14	40.74	57.1	
2049	457.68	298.69	414.64	238.57	43.04	60.12	
2050	478.68	312.62	433.2	249.35	45.48	63.27	

This information shows significant impacts on education sector in the coming decade, reinforcing the need for substantial investment and strategic plans to address increasing number of enrolled students in various schools in the country. Hence as the number of primary and secondary school students increases, so too will the demands for teachers, schools and financial resources.

The Government must take an all-inclusive approach including expanding educational infrastructure, increasing the teaching workforce, ensuring adequate learning resources as

well as promoting inclusive, high-quality education to meet the expected increase in number of school-aged children in both primary and secondary education. The government can ensure that the growing population of students gets a high standard of education, which in turn will drive long-term national development if it implements the recommendations.

4.4 Population Dynamics and Urbanization

4.4.1 Overview

Population dynamics and urbanization are deeply interrelated phenomena influencing social, economic, and environmental landscapes globally. This relationship could further generate empirical insights into critical areas of migration, environmental sustainability, and aging. Globally, the urban population has risen from approximately 30 percent in 1950 to about 57 percent in 2021, with projections suggesting an increase to 68 percent by 2050 (WHO, 2023). This shift is more pronounced in developing regions, where urban expansion is expected to account for nearly all future population growth (Glatzel et al., 2024).

Thus, it is necessary to understand the broader implications of population dynamics and urbanization for developing sustainable, and resilient cities at national, sub-regional, regional and global levels. Tanzania is experiencing changes in its urbanization patterns, indicating broader trends as seen in many African nations. The country's demographic changes are featured by high natural population increases and high volumes of rural – urban migration, especially in major cities. For instance, Tanzania's urban population grew from less than 15 million in 2012 to 21.8 million in 2022; with Dar es Salaam region categorized as urban with 5.4 million people. Moreover, Dar es Salaam region is projected to become a megacity with over 10 million residents by 2030 (Kibhisa, 2023). Thus, this trend informs the decision-makers on the existing interlinkage between population dynamics and urbanization process so as to effectively address associated challenges.

4.4.2 Input Data and Assumptions for RAPID Model

In this section the RAPID model is used to project urbanization from 2022 as a base year up to 2050 using the following urbanization indicators as the main inputs:

Percent of Urban Population is the proportion of individuals living in urban areas (as per the 2022 census definition) compared to the total population. This metric is crucial for understanding demographic shifts, economic development and planning for infrastructure and services. The proportion of urban population living in major cities helps policymakers

and planners to address urban growth related challenges, such as housing shortages, transportation needs and public services. The RAPID Model helps in forecasting the needs based on demographic trends and urbanization rates. The proportion of urban population used was 34.9 percent based on the 2022 PHC.

Percent of Urban Population in Major Cities is the proportion of a country's population that resides in urban areas, particularly in large cities and how this demographic shift impacts various sectors such as labour, education, health and urbanization itself. In this regard, total population for all councils reported as a hundred percent urban were treated as major cities including all Councils of Dar es Salaam region, Dodoma, Mbeya, Tanga, Arusha and Mwanza city councils as well as Mjini council in Mjini Magharibi region in Tanzania Zanzibar.

Persons per Urban Households refers to the average number of individuals living in a single urban household. This metric is important for understanding demographic dynamics, resource allocation, and planning for urban services and infrastructure. The average household size provides insights into family structures, living conditions and social dynamics within urban areas. For instance, a higher number of persons per household may indicate extended family living arrangements, while a lower number could suggest a living arrangement for nuclear family structures or single person households.

Assumptions for projections of population in major cities are as follows; -

- i. Establish growth trend between 2012 and 2022. Dodoma City council was Dodoma Municipal in 2012, as such the 2012 population is used for computing growth rate. It should be noted that Dodoma's growth rate is higher than other city councils due to government headquarters moving from Dar es Salaam to Dodoma between 2015 and 2020.
- ii. It was observed that population in major cities is growing at a slower rate compared to urban population in general. The proportion of major cities annualized growth rate to that of urban population was applied to the urban population growth rates available in population projections (2022 2050) to get population projections in major cities (2022 2050). Major cities population as a percentage of urban population from 2022 to 2050 was then computed and used as input.
- iii. Household Size: Annualized rate of decline in household size (urban) between 2012 and 2022 was computed to arrive at a value of 1.29 percent. It is assumed that the

rate of decline (annualized) will remain as such through 2050 - leading to a household size of 2.6 in 2050.

Table 4.6: Urbanization Inputs by Base Year, Tanzania; 2022

Urbanization Inputs	2022				
	Tanzania	Mainland Tanzania	Tanzania Zanzibar		
Percent Urban Population	34.9	34.4	49.2		
Percent of Urban Population in Major Cities	39.01	39.71	23.29		
Person per Urban Household	3.8	3.8	3.8		

4.4.3 RAPID Model Results on Urbanization

4.4.3.1 Status and Trends of Urbanization in Tanzania

The Tanzania Population and Housing censuses (1967, 1978, 1988, 2002, 2012, and 2022) have shown a consistent increase in urban population from 5.7 percent in 1967 to 34.9 percent in 2022 (Gwaleba, 2018; National Bureau of Statistics, 2022). Furthermore, it has been estimated that more than 50 percent of Tanzanians will reside in urban areas by 2050 (Swai and Anasel, 2019). The increasing population in urban areas is placing significant pressure on the demand for essential services in the respective areas. According to the World Bank (2021) identified that influx of people in urban areas resulted into uncontrolled changes in land and building use (land use plan), contributing to urban poverty, overcrowding and slums development. Tanzania's urbanization rate is among the fastest in sub-Saharan Africa, with cities expected to account for nearly 60 percent of the country's GDP by 2030. However, the main driver for urbanization reported in Tanzania is population growth rather than migration into cities (TULab, 2019).

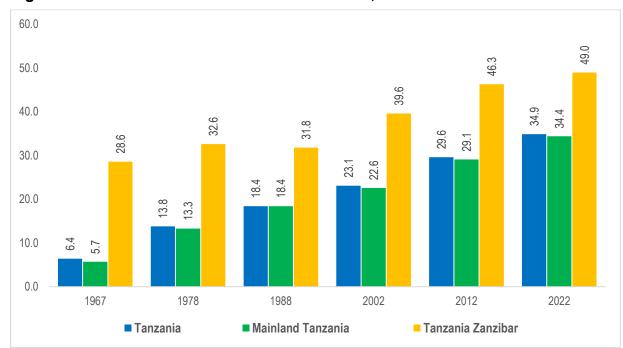


Figure 4.11: Trends of Urbanization in Tanzania; 1967 – 2022 PHCs

Urban population growth in Tanzania has had significant impact on the country's economy, creating both opportunities and challenges. For instance, urban areas in Tanzania have substantial contribution to the national economy, generating over 50% of the country's GDP (Woral et al., 2017; Rugeiyam et al., 2021). The urban areas are pivotal for economic output and hold the potentials to drive significant growth. However, urbanization can brings challenges such as inadequate infrastructure, high unemployment rates and reliance on the informal sector, need to be addressed. For instance, strategic investments and policies aimed at promoting inclusive development would be essential for ensuring that urbanization translates into sustainable economic benefits for all Tanzanians.

4.4.3.2 The RAPID Model Results on Urbanization

RAPID model results show that, about 48.5 percent of the urban population in Tanzania would be living in major cities by 2050 (Figure 4.12). Moreover, the proportion of youth population (18-35 years) will remain higher (above one third), but decreasing from 37.4 percent in 2022 to 34.8 percent in 2050. The proportion of population living in major cities will continue to be about one third, but declining from 39.0 percent in 2022 to 32.8 percent in 2050 (Figure 4.12).

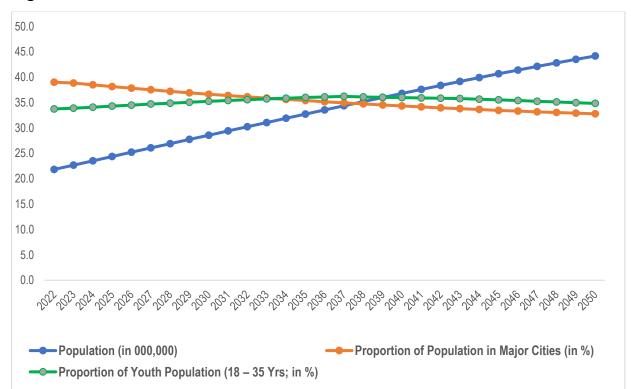


Figure 4.12: Results on Urbanization in Tanzania

Results of RAPID Model show that urban households is projected to exceed 16.7 million by 2050 (Figure 4.13), implying the significant changes in social dynamics, infrastructure needs and environmental impact. Therefore, policy makers focus on creating sustainable urban environment that enhance the quality of life for all residents while addressing the challenges posed by rapid urban expansion. The annual growth rate of new urban households is expected to decline from 5.2 percent in 2023 to 2.9 percent in 2050 (Figure 4.13). This implying a surplus in housing supply, which could stabilize or lowering housing prices in the short term. However, if this trend persists, it could indicate decreasing demand for housing, which may lead to long-term risk to the real estate market. To mitigate these potential risks, local governments should create effective urban management strategies taking into account of the diverse needs in urban households for promoting inclusive development and support sustainable urban planning.

18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
Urban Households (in '000,000)

Annual Increase of Urban Households (in %)

Figure 4.13: Rapid Model Results on Urban Households and Annual New Urban Households

4.5 Population and Agriculture

4.5.1 Introduction

The relationship between population growth and agriculture is dynamic, as population increases drive greater demanded for food, land and labour. A larger population requires more agricultural production to meet its dietary needs. This drives the expansion of land and intensification of farming practices. However, agricultural practices must continuously adapt to meet growing needs while ensuring sustainability, long-term food security and environmental health.

As Tanzania's population continues to increase, there is an increasing demand for food and other agricultural products. The population growth would need more agricultural production to meet the rising demands of a growing population. The RAPID model was employed to project the production and consumption of major crops by 2050 in Tanzania (BOT, 2023). The analysis includes cereals crops (maize, sorghum and millet, rice and wheat) and noncereals crops (pulses, banana, cassava, potatoes).

4.5.2 Input Data and Assumptions

Inputs data used in the RAPID model to estimate the production and consumption of major crops include the arable land available, production of major crops in the base year, annual

growth in production of major crops and annual per capita consumption. Tanzania has 44 million of hectares of arable land (Ministry of Lands, Housing and Human Settlements Development), assumed to remain more or less same up to 2050.

Annual growth rates in crop production were computed based on average of annual change in production of cereal and non-cereal crops from the year 2012 to 2021 (2022 excluded since the reported values in the report are provisional and subject to revision in the upcoming annual report). Over the 2012-2021 period, production showed an overall increasing trend, though yearly variations were significant due to climate and climatic changes. A 10-year average growth rate (2.3%) was applied for projections from 2022 to 2050.

The base-year total production was computed using annual growth rate of 18,902,000 MT. Crop requirements obtained from the BOT Annual Report is used as annual consumption. In the report the value is reported in tonnes, therefore the value converted to kilogrammes by multiplying by 1,000. The value is then divided by the 2022 adjusted population to arrive at a per capita consumption of 262 kilogrammes. It is assumed that this value will remain constant until 2050.

Table 4.7: Agriculture Inputs by Base Year, Tanzania, Mainland Tanzania and Tanzania Zanzibar; 2022.

Agriculture Inputs	2022					
	Tanzania	Mainland Tanzania	Tanzania Zanzibar			
Arable Land (Millions of hectares)	44	44	0.13			
Production of Major Crops (Thousands of MT)	18,902	18,511.00	391.00			
Annual Growth in Production of Major Crops	2.3	2.3	4.14			
Annual Per Capita Consumption of Major Crops (KG)	262	262	262			
Production of Maize (Thousand MT)	6,539	6,537	1.5			

4.5.3 Outputs from the RAPID Model and Policy Implications of the Indicators

Table 4.8 indicates that consumption of major crops in Tanzania is projected to rise significantly, increasing from 16,393 thousand metric tons (MT) in 2022 to 30,944 thousand MT in 2050, reflecting an 88.7 percent increase. Thus, the consumption is expected to almost double by 2050. This calls for the country to continue intensifying agricultural initiatives such as Building a Better Tomorrow.

Building a Better Tomorrow for Tanzania is a strategic agricultural initiative designed to ensure that Tanzania's agriculture sector would meet the challenges of a growing population while contributing to economic growth, food security, and environmental sustainability (Ministry of Agriculture, 2024). Tanzania could unlock the full potential of its agricultural sector by embracing modern farming techniques, improving market access, empowering women and youth, and fostering partnerships between government and private sector. With these strategic efforts, Tanzania could build a thriving and sustainable agricultural sector that serves as a foundation for broader economic development and ensures a better tomorrow for all Tanzanians.

Estimates from the RAPID model shows that as Tanzania's population continues to grow amount of arable land per capita is steadily decreasing.

- In 2022, the arable land per capita stood at 0.70 hectares, but projections show a
 decline to 0.37 hectares by 2050.
- Mainland Tanzania: is also observed a decline from 0.73 hectares in 2022, decreasing to 0.38 hectares by 2050; and
- Tanzania Zanzibar: decline from 0.07 hectares in 2022 to 0.04 hectares by 20250
 (Table 4.8 and Figure 4.14). The rise of population, increasing demand for

agricultural land and other land use practices as well as economic development, result in more pressure on available arable land.

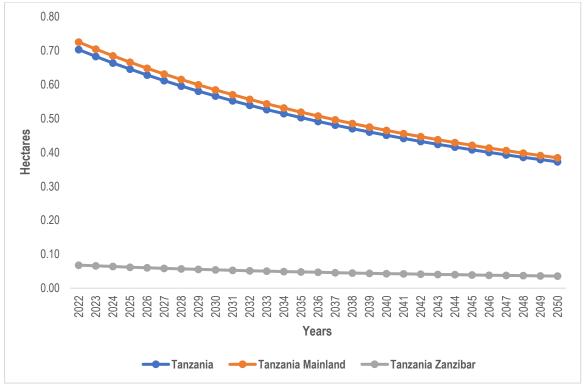
Since the arable land per capita is decreasing, Tanzania must focus on effective land management strategies to maximize productivity while ensuring sustainability. Tanzania's policies must encourage sustainable land use practices that improve soil health also maintain productivity, and implement measures to prevent further degradation and rehabilitate affected areas. As population growth drives higher food demands, crop production is expected to increase substantially. In Tanzania the production of major crops will increase from 18,902 thousand MT in 2022 to 35,729 thousand MT in 2050. For Mainland Tanzania will increase from 18,511 thousand MT in 2022 to 37,698 in 2050 and Tanzania Zanzibar from 391 thousand MT in 2022 to 1,217 thousand MT in 2050.

Table 4.8: Agriculture Outputs from the RAPID Model Results by Years, Tanzania, Mainland Tanzania and Tanzania Zanzibar 2022 – 2050

		Tanzania			Mainland Tanzan	ia		Tanzania Zanziba	ır
Years	Arable Land Per Capita (Hectares)	Consumption of Major Crops (Thousand MT)	Production of Major Crops (Thousand MT)	Arable Land Per Capita (Hectares)	Consumption of Major Crops (Thousand MT)	Production of Major Crops (Thousand MT)	Arable Land Per Capita (Hectares)	Consumption of Major Crops (Thousand MT)	Production of Major Crops (Thousand MT)
2022	0.70	16,393	18,902	0.73	15,892	18,511	0.07	501	391
2023	0.68	16,877	19,337	0.70	16,360	20,402	0.07	517	407
2024	0.66	17,365	19,781	0.68	16,831	20,871	0.06	534	424
2025	0.65	17,856	20,236	0.67	17,306	21,351	0.06	550	442
2026	0.63	18,350	20,702	0.65	17,784	21,842	0.06	566	460
2027	0.61	18,847	21,178	0.63	18,264	22,345	0.06	582	479
2028	0.60	19,347	21,665	0.61	18,748	22,859	0.06	599	499
2029	0.58	19,850	22,163	0.60	19,235	23,384	0.06	615	519
2030	0.57	20,356	22,673	0.58	19,725	23,922	0.05	631	541
2031	0.55	20,865	23,195	0.57	20,218	24,472	0.05	647	563
2032	0.54	21,377	23,728	0.56	20,714	25,035	0.05	663	587
2033	0.53	21,891	24,274	0.54	21,212	25,611	0.05	679	611
2034	0.51	22,408	24,832	0.53	21,713	26,200	0.05	695	636
2035	0.50	22,928	25,403	0.52	22,216	26,803	0.05	711	663
2036	0.49	23,451	25,988	0.51	22,724	27,419	0.05	727	690
2037	0.48	23,976	26,585	0.50	23,233	28,050	0.05	743	719
2038	0.47	24,506	27,197	0.49	23,747	28,695	0.04	759	748
2039	0.46	25,036	27,822	0.48	24,261	29,355	0.04	775	779
2040	0.45	25,569	28,462	0.47	24,778	30,030	0.04	791	812
2041	0.44	26,104	29,117	0.46	25,297	30,721	0.04	807	845
2042	0.43	26,640	29,787	0.45	25,817	31,427	0.04	823	880
2043	0.42	27,177	30,472	0.44	26,338	32,150	0.04	839	917
2044	0.42	27,715	31,173	0.43	26,859	32,890	0.04	856	954
2045	0.41	28,255	31,889	0.42	27,383	33,646	0.04	872	994
2046	0.40	28,794	32,623	0.41	27,906	34,420	0.04	888	1,035

		Tanzania			Mainland Tanzania			Tanzania Zanzibar		
Years	Arable Land Per Capita (Hectares)	Consumption of Major Crops (Thousand MT)	Production of Major Crops (Thousand MT)	Arable Land Per Capita (Hectares)	Consumption of Major Crops (Thousand MT)	Production of Major Crops (Thousand MT)	Arable Land Per Capita (Hectares)	Consumption of Major Crops (Thousand MT)	Production of Major Crops (Thousand MT)	
2047	0.39	29,333	33,373	0.41	28,429	35,212	0.04	904	1,078	
2048	0.39	29,871	34,141	0.40	28,951	36,022	0.04	921	1,123	
2049	0.38	30,408	34,926	0.39	29,471	36,850	0.04	937	1,169	
2050	0.37	30,944	35,729	0.38	29,991	37,698	0.04	953	1,217	

Figure 4.14: Projected Trend of Arable Land, Tanzania, Mainland Tanzania and Tanzania Zanzibar 2022-2050



The trend in production of major crops in Tanzania shows an increasing pattern, nearly doubling from 18,902,000 MT in 2022 to 35,729,000 MT in 2050, representing an 89.0 percent growth. Major crop production for Mainland Tanzania is also expected to double while the production in Tanzania Zanzibar indicate about threefold increase (Table 4.8 and Figure 4.15). The fluctuation in the production of major crops in Tanzania, Mainland Tanzania and Zanzibar from 2022 to 2050 may occur due to a range of internal and external factors affecting agricultural productivity over time. These factors could result in periods of higher or lower crop production, impacting food security, farmer livelihoods, and economic stability. Given these projections, the government must prioritize long-term food sufficiency planning.

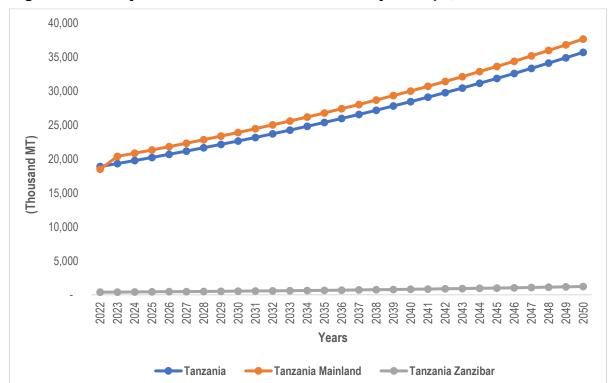


Figure 4.15: Projected Trend of Production of Major Crops, Tanzania 2022-2050

4.6 Conclusion

The population of Tanzania is growing and estimated to be 118 million in 2050, while arable land per capita is expected to decline to approximately 0.4 hectares in 2050, posing several challenges and opportunities for the agricultural sector. To sustain food production, farming must become more efficient, requiring better farming practices, advanced technologies, and increased innovations investment to maintain or increase crop yields.

Overuse of land could lead to soil erosion, loss of soil fertility, and reduced food productivity. Sustainable land management practices are essential to avoid these negative consequences and preserve long-term agricultural viability for future generations. The predicted doubling of food consumption by 2050, combined with decreasing arable land area, raises concerns about potential food shortages for the growing population's needs. If agricultural production fails to meet demand, Tanzania could face food insecurity risks, leading to hunger or malnutrition.

A shift towards more intensive farming methods is necessary to meet the increasing food demand. This could evolve using of high-yielding crop varieties, increased use of fertilizers and pesticides and possibly expanding agricultural irrigation. Therefore, the introduction of Building a Better Tomorrow for Tanzania initiative in Agriculture is important and should be implemented in a proper way to ensure it meets the planned objectives. However, implementing intensive agricultural practices has environmental consequences such as soil depletion, water scarcity, and the ecological impact of chemical inputs. In addition, as arable land availability declines, Tanzania may need to diversify its economy beyond agriculture, expanding other sectors such as manufacturing, services, and technology could be made. This diversification would help to reduce the pressure on land-use and create new economic opportunities easing constrains on the agricultural sector.

In conclusion, the combined effects of rapid population growth, decreasing per capita arable land, and increasing food demand could lead to significant challenges in food security, sustainability, and economic stability. Addressing these issues will require careful planning, strategic investment in agricultural technology and practices, effective land-use policies, and potentiality of economic diversification to ensure that future needs of the population are met.

Chapter Five

Summary of Findings, Policy Implications and Recommendations

5.1 Introduction

This chapter presents a summary of the key findings, policy implications, and policy recommendations, based on results from the 2022 Population and Housing Census (PHC). The aim is to inform the government and stakeholders on the policy options related to population dynamics and development. The 2022 PHC provides baseline information on Tanzania's population for policy formulation and review, development planning, informed decision-making, monitoring, evaluation and reporting of development programmes at national, regional and international levels.

5.2 Population and Development

5.2.1 Population and Health

5.2.1.1 Findings

- a) Projected Demand for Health Facilities (2022–2050)
- Tanzania (Total): Expected increase from 7,738 dispensaries, 1,016 health centers, and 429 hospitals in 2022 to 26,731 dispensaries, 4,004 health centers, and 844 hospitals by 2050.
- Mainland Tanzania: Growth from 7,447 dispensaries, 1,016 health centers, and 418 hospitals to 25,723 dispensaries, 3,880 health centers, and 809 hospitals between 2022 and 2050.
- Tanzania Zanzibar: Expansion from 291 dispensaries and 11 hospitals in 2022 to 1,008 dispensaries and 35 hospitals by 2050.

b) Projected Increase in Annual Health Expenditure (2022–2050)

- Total national increase: From TZS 7,223.02 billion in 2022 to TZS 36,262.61 billion in 2050.
- Mainland Tanzania: Growth from TZS 7,029.81 billion in 2022 to TZS 33,704.69 billion in 2050 (approx. fivefold increase).
- Tanzania Zanzibar: Surge from TZS 193.21 billion in 2022 to TZS 2,557.92 billion in 2050 (approx. 13-fold increase).

5.2.1.2 Policy Implications

Currently, health care access remain unequal and quality health services yet to reach every Ward/Shehia. The increase in health facility infrastructure does not match with the increase in human resources for health, leading to gaps in health personnel. While medicines availability has improved, but diagnostic and treatment equipment shortage persist in some areas. If the current population trends continue, the demands of health facilities will rise significantly in 2050.

An increase in annual health expenditure in Tanzania indicates a significant growth in health-related spending, demonstrating efforts to improve healthcare access and quality. However, this increase also poses financial and economic challenges that require careful management and policy intervention. If health spending grows rapidly, several concerns may arise;

- Government Debt If healthcare expansion is funded through borrowing, it could increase national debt and fiscal pressure.
- Higher Taxes or Out-of-Pocket Expenses Rising costs may lead to higher taxes
 or increased direct payments for healthcare, disproportionately affecting lowincome households and exacerbating poverty and inequality.
- Inflationary Effects If demand for healthcare services and infrastructure exceeds supply, inflationary pressures may emerge, reducing citizens' purchasing power and affecting their ability to afford essential goods and services.

While healthcare financing has improved, with greater access to domestic funding sources, resource allocation is not keeping pace with inflation and population growth. The health financing strategy was not fully implemented and the population covered by health insurance is below target.

5.2.1.3 Recommendations

The findings on population and health suggest the following recommendations for policy:

 Review healthcare budget and expenditure to identify cost-saving opportunity, reduce financial burden on communities, private institutions and the government by prioritizing investment more in prevention programmes, which is less costly than diseases treatment programmes;

- ii. Strategies on health infrastructure, personnel, and equipment in proportion to the growth of population, and ensure alignment with long-term development goals by implementing policies that facilitate sustainable health sector expansion; and
- iii. Strengthen health insurance systems, expand health insurance coverage by increasing enrolment in health insurance schemes particularly for informal sector workers, rural populations and vulnerable groups as well as improving public awareness to achieve Universal Health Coverage (UHC), particularly through health insurance.

5.2.2 Population and Education

5.2.2.1 Findings

- a) Primary and secondary school infrastructure is projected to expand significantly to accommodate growing student enrolment. In Tanzania, secondary school teacher demand is expected to increase from 92,882 in 2022 to 201,041 in 2050. For Mainland Tanzania it will be from 87,087 to 189,106 and for Tanzania Zanzibar the increase will be from 5,795 to 11,935. This increase in demand for teachers shows an estimated growth in secondary school enrolment and indicates the need for investing more on the teaching workforce.
- b) For primary level, the Tanzania annual education services expenditure increased from TZS 103.91 billion in 2022 to TZS 478.68 billion in 2050, while for Mainland Tanzania it will be from TZS 95.93 billion to TZS 433.20 billion and for Tanzania Zanzibar from TZS 7.98 billion in 2022 to TZS 45.48 billion in 2050.

5.2.2.2 Policy Implications

- i. A surge in enrolment might lead to challenges such as overcrowding in schools;
 requiring intervention to maintain optimal learning conditions
- ii. Increased teacher demand will call for significant investments in teacher training programmes; and
- iii. Increased demand for construction of new classrooms as well as building of new schools calls for substantial infrastructure investments to accommodate rising number of students.

5.2.2.3 Recommendations

The following recommendations are proposed based on the key findings presented from the RAPID model:

- a. President's Office, Regional Administration and Local Government in collaboration with the Ministry of Education, Science and Technology, should encourage as well as facilitate higher learning institutions to further expand enrolling in respective institution's departments of teacher training;
- b. The Government should continue to construct new primary schools so that all school-age children are accommodated and have access to quality education;
- c. The Government may need to continue promoting public-private partnership in running primary schools; and
- d. The Government should continue to construct secondary schools to ensure all children required to enter secondary schools are accommodated.

5.2.3 Population Dynamics and Urbanization

5.2.3.1 Findings

- a) The proportion of urban population in major cities in Tanzania is projected to decrease from 39.0 percent in 2022 to 32.8 percent in 2050;
- b) The proportion of young population (18-35 years) will remain significant, but slightly decline from 37.4 percent in 2022 to 34.8 percent in 2050; and
- c) The proportion of annual new urban households is expected to drop from 5.2 percent in 2022 to 2.9 percent in 2050 during the same period.

5.2.3.2 Policy Implications

The rapid urbanization in Tanzania has outpaced urban planning, leading challenges such as squatters, traffic congestion, insufficient infrastructure, and informal settlements. Without a cohesive national urban policy, cities are expanding chaotically, which can undermine economic productivity and reduce the quality of life for urban residents.

5.2.3.3 Recommendations

The analysis of population dynamics and urbanization suggests the following recommendations for policy:

- a) Enhance infrastructure Investment: Enhance and prioritize transportation networks, housing developments and basic services like water and sanitation to support economic activities and improve living conditions in urban areas.
- b) Public-private partnerships could be leveraged to mobilize resources for these initiatives; and

c) There is a need to develop Village Land Use Plans that allocate specific land uses within villages, including designated areas for small industries and support small and medium enterprises (SMEs).

5.2.4 Population and Agriculture

5.2.4.1 Findings

As Tanzania's population continues to grow, arable land per capita is decreasing and production of major crops is increasing. The key findings are as follows:

- a) In Tanzania, arable land per capita in 2022 was 0.70 hectares which projected to decrease to 0.37 hectares per capita in 2050, in Mainland Tanzania decreased from 0.73 hectares to 0.38 hectares and in Tanzania Zanzibar decreased from 0.07 hectares to 0.04 hectares;
- b) Production of major crops (Thousands MT) will increase from 18,902 in 2022 to 38,915 (Thousands MT) in 2050 with Mainland Tanzania from 18,511 to 37,698 and Tanzania Zanzibar from 391 to 1,217; and
- c) Consumption of major crops is expected to double from 16,393.0 (thousand MT) in 2022 to 30,944 (thousand MT) by 2050. For Mainland Tanzania will be from 15,892.0 to 29,991.0 while for Tanzania Zanzibar it will be from 501.0 to 953 respectively.

5.2.4.2 Policy Implications

- i. Land Use Management and Agricultural Intensification: The predicted doubling of consumption by 2050, combined with the decreasing amount of arable land, raises the possibility that food production may not cope with the growing population needs.
- ii. Land Governance and Tenure Security: Increased land scarcity may lead to conflicts, inefficiencies, and inequitable land distribution, highlighting the need for a well-defined land planning and management framework.
- iii. Infrastructure Development: As crop production rises, a robust infrastructure network is required to reduce post-harvest losses, enhance storage capabilities, and improved market access.
- iv. Export and Import Balances: Increasing crop consumption domestically may impact exportable surplus and trade balance.

Careful market analysis, trade agreements, and diversification strategies will be necessary to maintain export competitiveness while securing domestic food supply.

5.2.4.3 Recommendations

The findings discussed above suggest the following recommendations for policy purposes:

- a) Land use Management Continue to promote sustainable land use practices that improve soil health and maintain long-term productivity, the following strategies should be prioritized;
 - i. Invest in research and development to advance high-yield and droughtresistant crop varieties;
 - ii. Encourage precision agriculture and modern farming techniques for improved efficiency and resource management;
 - iii. Promote soil fertility management and conservation agriculture practices;
- iv. More efforts should be made on preventing further soil degradation and put in place interventions towards rehabilitating affected areas.

b) Tenure Security:

- i. Enforce clear land tenure laws to secure farmers' rights and reduce conflicts;
- ii. Establish land-use planning frameworks to balance agricultural, industrial, and residential development needs;
- iii. Implement policies that discourage land degradation and deforestation, preserving natural resources and biodiversity.
- c) Foster Public-Private Partnership:
 - i. Create incentives to attract private investment in agriculture and infrastructure
 - ii. Strengthen farmer cooperatives to pool resources and access markets, and economic resilience
 - iii. Introduce smart farming technologies through partnerships with tech companies.

5.3 Concluding Remarks

The population dynamics and development monograph is essential for analyzing Tanzania's demographic trends and their implications for both current and future development process. Analysis of population dynamics provides the country with a

critical tool for informed, evidence-based decision-making. It enables the country to plan strategically plan for the future growth, optimize resource allocation, address demographic challenges and build a more inclusive and sustainable society. By aligning demographic trends with international and national development goals, Tanzania can develop policies that enhance the well-being of its people, improve quality of life and achieve long term prosperity.

The Resources for Awareness of Population Impacts on Development (RAPID) model was employed to project the social and economic consequences of high fertility and rapid population growth for economy, education, health, urbanization and agriculture sectors. Results show an increasing trend in the health facilities and health personnel as well as recurrent health expenditure. The education sector also indicates the need for more teaching personnel, schools and recurrent expenditure due to increasing number of school-age going children. Projections on urbanization indicate an increasing number of people who will be living in urban areas and exert pressure on social services. As Tanzania's population continues to grow, several key challenges emerge; Declining arable land per capita, requiring efficient land management practices, on the other, it would also rise the demand for employment opportunities since job creation cannot keep pace with the growth of population.

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Appendices

Appendix 1: List of Contributors

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Appendix 2: Questionnaire



The United Republic of Tanzania

QUESTIONNAIRE FOR THE 2022 POPULATION AND HOUSING CENSUS



This census is conducted in accordance with Section 6(2)(a) of the Statistics Act Cap. 351 | All responses collected in this census are protected under this Act

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SECTION A: IDENTIFICATION Hamlet/Enumeration Area Household Region District Council Constituency Division/Wadi Ward/Shehia Village/Mtaa (EA) Number CONFIDENTIAL SECTION C: INFORMATION ON DISABILITIES/DIFFICULTIES B01 C09 CAUSE OF DISABILITY C10 ASSISTIVE DEVICES AND MATERIALS C07 COMMUNICATION C08 OTHER DISABILITIES **USING THE COMMON** Does, [NAME] have other type of disabilities/difficulties among the ASK FOR EVERY TYPE OF DISABILTY ASK IF QC01 = 1 OR ANY QUESTION FROM QC02 TO Q07 = 3 OR 4 OR QC08 LANGUAGE: Does [NAME] have FROM C02 TO C07 IF CODE 3 OR 4 OR IS CODE 1 FOR B,C,D CODE 1 IN QUESTION C08 difficulty communicating; for example understanding or being READ ALL TYPES OF DISABILITIES/ DIFFICULTIES TO understood? RESPONDENT What is the cause of disability for [NAME]? Yes = 1 | No = 2 | Don't know = 9 Does [NAME] has disability assistive devices or materials? MULTIPLE RESPONSE IS ALLOWED Yes = 1 | No = 2 A Lot of Difficulty Some Difficulty Mental Disorder Not Applicable Epilepsy or 2 3 4 В С D E G н М В С D Е G н 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8

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SECTION A: IDENTIFICATION Hamlet/Enumeration Area Village/Mtaa District Council Constituency Ward/Shehia Household Number Region (EA) CONFIDENTIAL SECTION G: INFORMATION ON ECONOMIC ACTIVITY - ALL PERSONS AGED 5 YEARS OR ABOVE G05 OCCUPATION OWNER OF THE ENTERPRISE G07 MAIN ECONOMIC ACTIVITY G08 MINING AND QUARRYING ACTIVITY G09 EMPLOYMENT STATUS ENUMERATOR: THE FOLLOWING QUESTIONS ARE In your main work, who is the owner of the enterprise? What is the main activity of the business or During the period of 12 Months that is from August 2021 to In [YOUR/NAME's] job, [do/does] place where [NAME] work[s]? ABOUT [NAME'S] MAIN JOB OR BUSINESS. YOUR the day before the census Night, Did [YOU/NAME] work on [YOU/NAME] work as....? MAIN JOB IS THE ONE ON WHICH YOU USUALLY the following mining or quarrying activities? SPEND MOST OF YOUR WORKING TIME INCLUDING THOSE WHO WERE TEMPORARY ABSENT WRITE ACTIVITY FULLY OR AT LEAST IN TWO ► IF CODE "Z" SKIP TO QN. G10 WORDS In main job, what kind of work does [NAME] usually do? READ RESPONSES WRITE OCCUPATION FULLY OR AT LEAST IN TWO WORDS Registered partnership or cooperative economic a Self Emplyed without employees Own or familily farm Workers not clasifiable by Household - Other Other 01 03 05 06 07 08 09 10 04 DESCRIPTION TASCO CODES DESCRIPTION ISIC CODES Α В С D Е F G Z 2 3 4 0 1 0 2 0 5 0 7

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SECTION A: IDENTIFICATION District Division/Wadi Ward/Shehia Village/Mtaa Region Council Constituency Hamlet/Enumeration Area (EA) **Household Number** CONFIDENTIAL SECTION H: LAND OWNERSHIP AND INFORMATION REGARDING ICT **B**01 **LAND OWNERSHIP - ALL PERSONS INFORMATION REGARDING ICT - 4 YEARS OR ABOVE** H01 OWNERSHIP OF LAND H02 TITLE DEED H03 EQUIPMENTS OWNERSHIP H04 EQUIPMENTS USED H05 EQUIPMENT USE No. Did [NAME] own the following Does [NAME] own any agricultural or Does [NAME] have title deed with Did [NAME] use the following In which of the following activities did non agricultural land either alone or [YOU/NAME] you use the equipments? his/her name on it? equipments in the past 3 equipments in the past 3 jointly with someone else? months? months? Yes = 1 | No = 2 | Don't Know = 9 ► IF THE ANSWER IS 4 OR 9 SKIP Yes = 1 | No = 2 | Don't Know = TO H03 YES = 1 | NO = 2 | Don't Know READ ALL CATEGORIES ► IF CODE 2 OR/AND 9 FOR ALL, SKIP TO QN. 101 Search/receive information Both alone and jointly Both alone and jointly Sending and receiving money Smart phone/Tablet Does not own Smart phone/Tablet Mobile phone Online buisness No title deed Communication Don't Know Don't Know Mobile phone Learning Desktop Jointly Jointly Laptop Alone Alone 2 3 4 9 2 3 9 В С D Α В С D В С D Ε F 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8

SECTION A: IDENTIFICATION Hamlet/Enumeration Ward/Shehia Region District Council Constituency Division/Wadi Village/Mtaa Household Number Area (EA) CONFIDENTIAL SECTION I:INFORMATION ON FERTILITY - FEMALES AGED 10 YEARS OR ABOVE FERTILITY IN LAST 12 MONTHS FOR WOMEN AGED 10 TO 49 B01 **CHILDREN EVER BORN - CHILDREN SURVIVING** YEARS I01 BIRTH 102 BORN ALIVE IN HOUSEHOLD 103 BORN ALIVE LIVING ELSEWHERE 104 CHILDREN DIED 105 CHILDREN BORN ALIVE No. How many male/female children were How many of the male/female children who were Have you ever given live birth? How many male/female children were born How many male/female children were alive to [NAME] and are now living with born alive to [NAME] and are now born alive to [NAME] and are now born alive to [NAME] in the last 12 months? (22 you/her in this household? living elsewhere? unfortunately dead? AGOST, 2022 BACK TO 23 AGOST, 2021) Yes = 1 | No = 2 IF SHE IS NOT LIVING WITH ANY OF HER IF SHE HAS NO CHILDREN LIVING IF THERE IS NO CHILD SURVIVING WRITE "0" CHILDREN WRITE "00" **ELSEWHERE WRITE "00"** IF NONE OF HER CHILDREN HAS DIED ► IF CODE "2" SKIP TO 104 WRITE "00" ▶ IF THERE IS NO CHILD BORN ALIVE IN THE LAST 12 MONTHS WRITE "0" THEN GO SECTION J. DON'T ASK FEMALES AGED 50 YEARS OR ABOVE ► IF QN 101 = 2 AND IO4 = 0 SKIP TO J01 MALE MALE MALE MALE FEMALE FEMALE **FEMALE** FEMALE 0 1 0 2 0 3 0 4 5 0 6 0 7 8

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		any			Government at susdize	Owned by employefr - free of	Owned by employer - with rent					Residential licence Letter of offer/Acknoledgement of			Land Registration Card (Zanzibar)	Mtaa/														9								sks							
	plod	aying		yer	nmen	yefr -	Ver - v					Knolec	rship		L Card	t from														ow ber	trine	3						ock brid			sts				
	house	thout p	vately	emplo	Gove	emplo	emplo					l licent	owne /		stration	name	jt,				"			ves	eaves	š			es	Polist	inhalf o	lks sk	900	_		allers		icks/rc	oricks	S	d Shee	mud	ninium	ainers	
	Owned by household	Lived in without paying	Rented privately	Rented by employer	Rented by (led by	of pa				Title deed	identia er of o	navments Customary ownership	Contract	d Regis	ial doc	No legal right				Iron sheets	Tiles	Ashastas	Grass/Leaves	Mud and Leaves	Plastics/Box Tent		+	Ceramic tiles	Parquet or Polished wood	Terazzo Vinyl or Asnhalf strins	Wood Planks	Palm/Bamboo	Earth/Sand	B (8	Cement bricks/rock bricks	Sundried bricks	Burnt bricks Timber	Timber and Sheets	Poles and mud	Glass/Aluminium	Tent/Containers	
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												Piped water into dwelling	Piped water in the yard/plot	dpipe	tap/standpipe	ele le	d well	, 5	ring		cle/Ca								ESCO		le soul			Electr					1.0	<u>a</u>					
												ter into	ter in 1	Public tap/standpipe	rs tap/	boreh	ted du	sprin	ted sp	بة م	otorcy	m trick	John (r	stream, charco, ion channels)					TAN		/prival			erated				siduals	siduals	prique	aple				
												ed wa	ed wa	olic ta	Neighbours t	I ubewell/borenole	Unprotected dua well	Protected spring	Unprotected spring	Rain water	Bicycle/Motorcycle/Cart with	tank/drum	Curface water (river	pond, stream,charc irrigation channels)					Electricity (TANESCO/ZECO)	ar	Generator/private	6	Biogas	Wind generated Electricity	Paraffin	Charcoal	Firewood	Wood/ residuals	Animal residuals	Charcoal briquette	Not Applicable				
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SECTION K: HOUSING OWNERSHIP, CONDITIONS, CHARACTERISTICS AND ASSETS at is the main source of energy used by this household for lings approach of paying and water and paying approach of paying and paying approach of payin																		SE	СТІС	ON A	IDE	NTIF	CAT	ION																	
SECTION K: HOUSING OWNERSHIP, CONDITIONS, CHARACTERISTICS AND ASSETS at its the main source of energy used (foreign) Case (Brogas) Care (B	Re	gion			D	istric	t			Coun	cil	Coi	onstituency	,	Divisio	n/Wa	di			Ward/	Shehia			v	'illage/M	taa	н	amlet/			Area		н	ousel	hold N	lumbe	r				
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										$\overline{+}$																				▶ 1	RES	PONS	SE IS (CODI	E 3-9	SKIP	ток	13			Τ
		Solar Generator (private	Gas (Industrial)	_	_		_	_			_			Flush/pour flush to piped sewer	Flush/pour flush to septic	_		Flush/pour flush to somewhere	_	Pit latrine with washable slab and with	Pit latrine with washable slab without	Pit latrine with not-washable/ soil	_										Burnt	Roadside				_			
ich authorities K13 Does your household usually sort kitchen K14 What is the main method that is used K15 OWNERSHIP OF EQUIPMENTS/ASSETS	aste	from	your										netal			useh	old to	o disp	oose E	-					d have	own th	ne follow	ving a	ssets	?											
waste, plastic waste, glass waste, metal waste and electronic waste? by your household to dispose E-Waste? Does your household have/own the following assets? Yes = 1 No = 2																					FOF	R COD	E 1, A	SSET	гѕ ѕно	ULD B	E IN WO	RKIN	s co	NDITIO	N. SE	LECT	THE	APP	ROPI	RIATE	E ANS	WER	FOR E	АСН	m
waste, plastic waste, glass waste, metal waste and electronic waste? by your household to dispose E-Waste? Waste? Does your household have/own the following assets?																																									
waste, plastic waste, glass waste, metal waste from your usehold? Waste and electronic waste? by your household to dispose E-Waste?		groups	(s)len	, (c)	YE	:S =	1 1	10 =	2					th other Refused	d by Private Company	in the compound/street	d in the Latrine	n open/pit	8	ted by individual (s)		hone (Land Line)	Phone -	Φ	vehicle cycle/Vesna	of carried page.	otorcycle (Bajaj)	sion	c Iron	oal Iron	erator/Freezer	uter /Laptop	st Facility		tiller	10e	arrow	- - -	nimals (Donkey/Camel)	arm	
waste, plastic waste, glass waste, metal waste and electronic waste? Does your household have/own the following assets? Yes = 1 No = 2 FOR CODE 1, ASSETS SHOULD BE IN WORKING CONDITION. SELECT THE APPROPRIATE ANSWER FOR EACH I' YES = 1 No = 2 Sdhold (s) Balay (a) Bal	Contractor	vaste collecting	ouncil rivate Individ	Nate and										lixed wif	ollected	numbec	edwn	TE	uriec old/o) le		adio		icycl	lotor	ricy	Ĕ	elevi	lectri	harco	efrige	ndwo	terne	lough	ower	and h	/heelk	yen ,	raft ar	and/F	
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	SECTION A	: IDENTIFICATION			
Region District Council Constitue	ency Division/Wadi V	/ard/Shehia Vilage/Mtaa	Hamlet/Enumeration Area (EA)	Household Number	CONFIDENTIA
					<u> </u>
	INFORMATION O	N PHYSICAL ADDRES	6 S		
Does this household have a physical address?	Yes = 1 No = 2	► IF CODE 2 SKIF	P TO SECTION Z		
1B Please, state the Physical Address Number					
IC Name of the Road/Hamlet					
SEC	TION Z: TOTAL NUME	BER OF HOUSEHOLD	MEMBERS		
Male					
Female					
Total					
te of Interview	y y				

Appendix 3: Target from Various Global, Regional and National Plans for Health and Education

Indicator	Sustainable Development Goal (SDG) 2030	Africa Development Agenda (Agenda 2063)	East Afric	a Vision	TFYDP 2025/26	ZADEP 2025/26	Sector Strategic Plans
Education							
			2030	2050			
Pre-primary - Net Enrolment Rate	100	100 for boys and girls by 2035	60	85	80	-	
Pupil/Teacher Ratio (PTR)	-	-	-	-	50:1	-	
Primary - Net Enrolment Rate	100	100 for boys and girls by 2030	98	100	100	90	
Pupil/Teacher Ratio (PTR)	-	-	-	-	50:1	-	
Lower secondary - Net Enrolment Rate	100	100 for boys and girls by 2030	65	95	42	-	
GER	-	-	-	-	48	-	
Vocational education	-	All secondary school graduates without access to tertiary education to have access to TVET education by 2030	-	-	-	Increase by 70 percent in lower secondary school graduates enrolled in VET centres by 2025/26	
Higher secondary - Net Enrolment Rate	-	-	-	-	8	-	
GER	-	-	-	-	10	-	
Literacy rate	-	100 by 2025	-	-	-	93	
Health	I.	<u> </u>			1		
TFR							
Life Expectancy	NIL	To be 75 years	To be 76.4 years	3	To be 68 years	To be 68 years	NIL

Indicator	Sustainable Development Goal (SDG) 2030	Africa Development Agenda (Agenda 2063)	East Africa Vision	TFYDP 2025/26	ZADEP 2025/26	Sector Strategic Plans
Population per doctor	NIL	Aspiration 1: A prosper and Africa based on inclusive growth and sustainable development	Pillar 2: Human Capital Development	Objective No. 2: Human Capital Development; Improving Education and Health services, enhancing skills training, and promoting technological advancement to meet the demands of an industrialized economy.	Strategic Area 4: Human Capital and Social Development; Priority Area No. 3; Health	Elements No 3: Maternal, newborn and child health
		Aspiration 3: An Africa of good governance, democracy, respect for human rights, justice and the rule of law	Aspiration 2: Health and wellbeing, the vision also promotes strengthening healthcare system to ensure accessible, affordable, and high-quality health services across the region.			
Population per nurse	NIL	Aspiration 6: An Africa where development is people driven				
Population per health center	NIL					
Population per hospital	NIL					
Population per hospital bed	NIL					

Indicator	Sustainable Development Goal (SDG) 2030	Africa Development Agenda (Agenda 2063)	East Africa Vision	TFYDP 2025/26	ZADEP 2025/26	Sector Strategic Plans
Annual health expenditure per person (TZS)	Substantially increase health financing and the recruitment, development, training and retention of the health workforce in developing countries, especially in least developed countries and small island developing States.			Health expenditure, public 12.2 % 0f govt. expenditure		
Maternal Mortality Ratio	By 2030, reduce the global maternal mortality ratio to less than 70 per 100,000 live births	Ensure universal access to sexual and reproductive health rights, including to reduce maternal mortality rates and end preventable maternal	To be reduced up to 69 per 100,000 live birth	to reduce Maternal Mortality ratio to 180 per 100,000 live birth	To be reduced up to 99 per 100,000 live birth	NIL

Indicator	Sustainable Development Goal (SDG) 2030	Africa Development Agenda (Agenda 2063)	East Africa Vision	TFYDP 2025/26	ZADEP 2025/26	Sector Strategic Plans
End preventable deaths of newborns and children under 5 years of age	reduce neonatal mortality to at least as low as 12 per 1,000 live births and under-5 mortality to at least as low as 25 per 1,000 live births.			to reduce infant Mortality to 30 per 1,000 birth and under 5 mortality to 40 per 1,000 birth	to reduce infant Mortality to 15 per 1,000 birth and under 5 mortality to 19 per 1,000 birth	

