



The Impact of Primary Education Investments on Rural Livelihood in Tanzania. A Case of Kilombero District

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Authors' contributions

This work was carried out in collaboration between both authors. Both authors read and approved the final manuscript.

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ABSTRACT

Aims: This study explores the impact of primary education investments on rural livelihood in Kilombero district in Tanzania. The role that education initiated in the development of the rural community.

Place and Duration of Study: This study was conducted in the Kilombero district which is one of the districts in the Morogoro Region; the study was conducted in Miwangani village in the Ifakara ward.

Methodology: This study was involved 100 respondents as a sample size whereby 50 respondents were drawn from each village that is miwangani and Mpotu villages.

Results: The main findings indicate that the majority (69%) of the respondents claimed that primary education was free this was justified by the number of items that they used to pay for before the implementation of the free education policy. The outcomes also showed that the free education policy had a major impact on the livelihood of the people as (88%) of the respondents agreed that free education helped to reduce social crimes for the children who were supposed to be at school before the abolition of the fees. The study showed that 77% agreed that free education policy helps rural households to invest in other economic production and about 68% approved those rural households to the access to land for agricultural activities.

Conclusion: This study indicated the contribution of the education primary education programs initiated by the government. Therefore, the contribution can be drawn from various training

programs which have been gradually started to build the capacity of the local people to engage in the education process. In the studied population, it has been observed through interviews and observation that it has improved their standard of living through better houses, diversifying their incomes with shops and glossaries around Ifakara. The sustainability of Tanzania's education policies and programs is also debatable because the community has been raised more dependably.

Keywords: Investment; kilombero; primary education; rural livelihood.

1. INTRODUCTION

Education is regarded as a development agent, is cherished by all countries of the world because it has taken entire freedom to man. It has changed man from lack of knowledge and misery to knowledge and happiness. According to [1] education supports the individual to mature physically, intellectually, morally, spiritually, and emotionally by providing the appropriate environment, teaching them new knowledge, attitudes, and skills that will empower them to be beneficial to themselves and their society. Primary education is generally recognized as the foundation laying level of education in all nations of the world [2]. The United Republic of Tanzania [3], states that primary education is the education given to children aged 7 to 13 and above in primary schools and is considered the key to the success or failure of the entire education system since the rest of the education system is made upon it. The importance of education has helped National Human Resource Development (NHRD) policies to develop transition economies, through human capital theory, which says that, investments in human capital promote growth, and economic growth fuels education which enables economic growth [4] hence there is always a connection between education and economic growth, these two factors are intertwined and any country needs both to take a step towards a certain level in the world. Moreover, Mclean states that in the 2004 issue of advances in developing human resources was that India was the first country to change their minister of education to the ministry of human resource development in 1985 emphasizing the importance of connecting human resource development with education policy.

NHRD is a planned and coordinated process of enhancing human resources in one or more political states or geographical regions for economic and social purposes. NHRD has been recognized as a policy priority and has been active by various divisions of the United Nations,

national country governments, and international organizations.

In 2013 United Nation recognized the importance of education and hence put it in United Nations Development Program's Millennium Development Goal to achieve Universal Primary Education. This shows or indicates that United Nation (UN) do recognize education is also a key to development.

UNESCO's "Education For All" movement focuses on six goals which are Expanding and improving comprehensive early childhood care and education, especially for those are vulnerable children, The second one is Ensuring that by 2015 all children especially girls, children in difficulties, those in ethnic minorities have more access to primary education, Third is Ensuring learning needs of young people but also adults are met in time through good learning skill seminars and programs, Also Eliminating gender inequality in primary level education by 2005 and equal access of education to both girls and boys, This show United Nation (UN) aims to improve education, especially for girls and minority groups, as these types of students are often disadvantaged in rural or developing areas [5].

Primary rural education is a huge topic and hence it covers social, political as well as economically, initially, primary education in rural areas is much different compared to urban Education, Primary Education is not taken seriously in rural areas, and hence in one way, it affects economic growth.

Many people living in Rural Areas precisely those who are living in Kilombero and Oldinka Legeru village do believe that primary education is enough and there is no need in continuing with the next level of education, therefore leading to the whole generation having one level of education or they are not educated at all after a certain period, and this is because the majority of people living in rural areas are Conservative,

they are afraid of changes, they do not realize that the world is changing and this leads to stagnant in economic growth. While developing economically a country needs an equal level in development both rural and urban development and hence development in educational wise is one among the aspect, Citizens needs to be well informed on how the world is working and hence improve their living standards that lead to economic growth.

Education plays an indirect role in poverty reduction as it affects societal wellbeing. The health of educated individuals and their children as a result of awareness brought by education are the main drivers for economic development in those families. Education can impart knowledge and skills required for a person and their respective families to live healthy lifestyles [6]. Being physically fit is capital for human beings to be productive in their daily activities. Education and health are positively correlated as each affects the other. The educated individual is expected to live a healthier lifestyle because of having basic knowledge about good health. Likewise, good health affects education as the healthier individual is capable of studying effectively at school and being productive [7].

Education does not only contribute to the health status of an individual but also fertility decisions and child mortality rate. A study done in Tanzania shows that women aged 15-40 years with primary education had a fertility rate of 6.0 compared to those with no primary education whose fertility rate stood at 6.5. More educated men and women tend to invest more in their health and the health of their children. Indeed, education may be the single most important personal determinant of a person's health and life expectancy [8].

Milliken et al. [9] identified the benefits of education as inculcating civic and democratic values, either through the explicit design of education systems (especially in democratic countries) or indirectly by improving analytical skills and an awareness of history and a diversity of opinions. Education may also indirectly affect political participation by altering social networks and peers. Education is the key to life as it affects an individual socially, politically, and economically [10]. The early views of Aristotle emphasized the role of education in informing citizens and increasing their capacity to make "good" electoral decisions. There are many benefits of education. Countries with higher average years of primary schooling have greater

electoral rights and civil liberties Arrow and Intriligator (2011:p. 264) identify a strong correlation between educational attainment and political participation, voting, and civic awareness at the individual level. This means that by educating its citizen, the country is likely to have citizens who are aware of their rights, and hence it may reduce the incidence of crimes (Arrow and Intriligator (2011p. 269). Tanzania is one of the most pertinent examples of a country where earlier efforts to get all children into primary schools yielded little apparent benefit in the long run. Tanzania came very close to achieving Universal Primary Education in the early 80s but by the end of the 20th century, less than 60% of primary school-aged children were in schools [11]. Although a relatively high percentage of the adult population has passed through primary school, Tanzania remains one of the poorest countries in the world. Reasons, why primary education did not lead to poverty reduction in the Tanzanian case, can be found both within the education system and in the environment into which primary graduates entered [13].

Livelihood is referred to as a set of activities accomplished to live for a given time, relating to safeguarding water, food, fodder, medicine, shelter, clothing, and the capability to get above requirements working either individually or as a group by using endowments for meeting the requirements of the self and their family on a sustainable basis with self-respect [13]. Livelihood is directly connected to children's well-being and education, containing aspects of access to food, basic needs, and families. Rural parents in Kilombero area especially in poor families, participate in various economic activities to sustain their life by maximizing their income-generating activities. Primary educations in Tanzania have a great impact on rural livelihood as it lessens the burden on poor rural parents since it's provided for free by the government. As a consequence, it improved the access to human, social, financial, physical capital to enhance their livelihood. Several studies dwell on the effects of free education and the issues of academic performances and school infrastructure none of them have emphasized the effects of primary school education investment. There were limited studies have carried out to evaluate the impact of primary education investments on rural livelihood in Tanzania. Therefore, there is a need for this studying the impact of primary education investments on rural livelihood in Tanzania. the case of Kilombero district.

2. METHODOLOGY

2.1 Description of the Study Area

This study was conducted in the Kilombero district which is one of the districts in the Morogoro Region; it is situated at the floodplain between the Kilombero River in the south-east and the Udzungwa-Mountains in the north-west. On the other side of the Kilombero River, in the southeast, the temperature ranges from 26°C – to 32°C, the study was conducted in Mlwangani village in Ifakara ward.

2.2 Research Design

The research design refers to the overall strategy [14]. A cross-sectional research design was used in this study because this kind of research design involves a systematic collection of data at a specific point in time.

2.3 Study Population

The population is a complete set of individuals with common characteristics in which the researcher is interested [15]. The targeted population of the study was the people in the Ifakara ward.

2.4 Sample Size

This study was involved 100 respondents as a sample size whereby 50 respondents were

drawn from each village that is Mlwangani and Mpotu villages because the sample size of 30 and above give normal distribution, which is recommended by [16] who stated that the sample size of 30 respondents or above is enough to bring the results in normal distribution and the increase in the sample size increases the accuracy of the results.

2.5 Sampling Techniques

The sampling Technique is an identification of the specific process by which the items of the sample have been selected [17]. The study followed both probability and non-probability sampling. By using a multistage sampling procedure, Kilombero district and Ifakara ward were purposively selected. Two villages were selected by simple random sampling and in the final stage; Respondents were selected from the villages using the simple random sampling technique.

2.6 Data Collection Methods and Instruments

Data collection methods in this study were questionnaire surveys which were focused on the collection of primary data based on quantitative form. The data collection mechanisms were developed and prepared with their proper procedures.

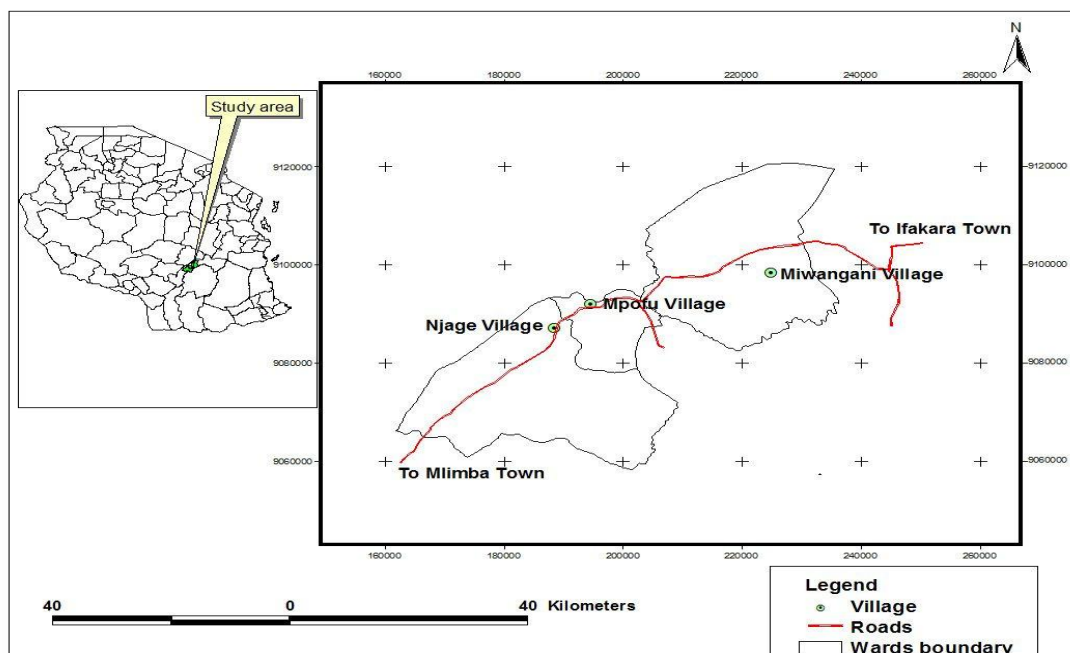


Fig. 1. The map of Tanzania shows the study area for this study

2.8 Data Analysis

(SPSS Statistics 25.0 Inc., Chicago, IL, USA) was used to analyze data to give percentages and frequencies. Cross tabulation was applied to see the relationship between objectives and demographic factors.

3. RESULTS

3.1 Demographic Characteristics of Respondents

3.1.1 Respondents' relationship to the child

Respondents were asked to state the relationship they had with children in primary school, the majority (47%) of the respondents were mothers followed by fathers 38%, and other respondents were other relatives of the children this shows that mothers are active and easily engaged in the study.

3.1.2 Marital status

The majority (78%) of the respondents who participated in this study were in marriage.

3.2 Level of Education

The majority (72%) of the respondents who participated in this study had attained primary education followed by 11% who had secondary education because most of the people with high education do not like dwelling in rural areas instead; they prefer to live in cities.

3.3 Occupation of the Respondents

The majority (71%) of the respondents who participated in this study were farmers. Previous studies have identified that more than 65% of the Tanzanians are farmers and they depend on farming as their major economic activity (Table 1).

3.4 Number of Children in Primary School

The respondents were asked if they had children studying in primary school, all respondents (100%) who participated in this study had children studying in primary school. Also, the majority (91%) of the respondents had 1-3 children studying at the primary level (Table 2).

Table 1. Demographic characteristics of the respondents

Variables	Descriptions	Frequency	Percentage
Respondents' relationship to the child	Father	38	38
	Mother	47	47
	Other relatives	15	15
Marital status	Married	78	78
	Widow	9	9
	Divorce	3	3
	Single	10	10
Educational level	Primary education	72	72
	Secondary education	11	11
	Collage education	5	5
	Vocational training	12	12
Occupation	Farmer	71	71
	Entrepreneur's	18	18
	Employees	11	11
Income per month	1000 – 49,000	4	4
	50 000 – 99 000	20	20
	100 000 – 149 000	27	27
	150 000 – 199 000	16	16
	200 000 – 249 000	14	14
	250 000 – 299 000	8	8
	300 000– 349 000	6	6
350 000+	5	5	

Table 2. Number of Kinds in Primary School

Have kids in public primary school	Frequency	Percentage
Yes	100	100
No	0	0
Number of kids in primary school		
1-3	91	91
4-6	9	9

Table 3. Ever heard of free education

Ever heard of free education	Frequency	Percentage
Yes	100	100
No	0	0

Table 4. Understanding of Free primary education Policy

Definition	Frequency	Percentage
Provision of free education to all by the government	6	6
It is the right to be educated, citizens	9	9
Abolition of school fees	20	20
Abolition of school fees and other contributions which are not included in the curriculum	65	65

Table 5. Compulsory education is free in public primary school and Tuition fee is paid in private schools

Response	Frequency	Percentage
Free	69	69
Not free	20	20
Not sure	11	11

3.5 Awareness of Free Education Policy

The respondents were asked if they have ever had of free education policy known as “Elimu Bure”, all respondents indicated that they have had this policy.

3.6 Understanding of Free Primary Education Policy

The respondents were asked to define free education policy based on their understanding, the majority (65%) of the respondents said that the abolition of school fees and other contributions which are not included in the curriculum, followed by 20% of respondents who said that it is the abolition of school fees.

3.7 Compulsory Education is free in Public Primary School and Tuition Fee is Paid in Private Schools

The respondents were asked to say if Compulsory education was free in public primary schools and the Tuition fee is paid in private

schools, the majorities (69%) of the respondents agree that compulsory education was free in public schools, while 20% said that the compulsory education in the public primary school and tuition fee is paid in private school.

3.8 Elements or Indicators of Free Education

The majority of respondents stated that free education was shown by the abolition of a fee (61%) Because there is no fee and we are not forced to pay other school contributions (49%).

3.9 Cost Implication for Free Primary Education

The respondents were asked to indicate the costs they incurred during and after the implementation of the free education policy, the mean cost which was incurred per respondent was 46100 Tanzania shillings and after the implementation, the mean cost was 2550 Tanzania shillings.

Table 6. Elements or indicators of free education

Factors for free education	Frequency	Percent
Because there is no fee	61	61
Because there is no fee and we are not forced to pay other school contributions	49	49
Because there are few contributions compared to the time before free education	43	43

Table 7. Cost implication for free primary education in Tanzania shillings

Items	Mean cost before the abolition of the fee	Mean cost after the abolition of the fee
Electricity	-	-
Building	9000	550
Exam	3 740	2000
Desks	25 000	-
Transport	-	-
Guards	500	-
School Fee	2 200	-
Registration	1 320	-
Water	-	-
Tuition fee	1200	-
Food	1 140	-
Total	46 100	2 550

Table 8. The proportion of total family Expenditure on children's Education

Response	Frequency	Percentage
1%-30%	83	83
31%-60%	17	17
60%-90%	0	0

Table 9. Sources of income to pay for your children`s fees and other contributions

Response	Frequency	Percentage
Selling agricultural product	63	63
Money from the bank/home reserves	26	26
Borrow	11	11

Table 10. Relief obtained through free Primary education policy

Relief obtained	Frequency	Percentage
No fee and contributions anymore	46	46
There is no paying any contribution by force	76	76
Able to invest in the business and expand farms	33	33
Pupils can attend school all time without being set home to get contributions and fees	48	48
Able to extend the residences and life in general	12	12
At least now can participate in social issues	10	10
Some basic needs at home are easily attained	52	52

Table 11. Respondents’ attitudes regarding the contribution of free primary education to rural livelihoods

	Statement	Responses				
		Strongly Agree%	Agree %	Nuetral %	Disagree %	Strongly Disagree%
1	Helps rural household to invest in other economic production	40	36	11	4	9
2	Help rural households to the access of land for agricultural activities	27	41	20	9	3
3	free education help to environment conservation in the rural areas	14	33	45	8	0
4	free education help rural parents access to communication facilities example telephones, cycles etc	27	24	34	13	2
5	free education help to reduce social crimes for the children who were supposed to be at school before the abolition of the fees	52	36	7	5	0
6	free education help the improvement of the shelters of the households	19	20	36	17	8

3.10 The proportion of Total Family Expenditure for Children Education

The respondents were asked to indicate the proportion of the total family expenditure on children's education, the majority (83%) spent 1%-30% of the family income.

3.11 Sources of Income to Pay for Your Children`s Fees and Other Contributions

The majority of the respondents (63%) indicated that their main source of income used for children's education expenditure was from selling agricultural products.

3.12 The Relief Obtained through Free Primary Education

The respondents were asked about the relief they obtained from the free primary education policy. The majority 76% of the respondents said that they were relieved from paying fees and other contributions by force. 52% of respondents claimed that some basic needs are easily obtained.

3.13 Respondents’ Attitude Regarding the Contribution of Free Primary Education to Rural Livelihoods

The respondent was asked about the benefits of free education and other education investment,

the majority (88%) of the respondents agreed that free education help to reduce social crimes for the children who were supposed to be at school before the abolition of the fees. Also, 77% said that free education policy helps rural households to invest in other economic production.

4. DISCUSSION

4.1 The Awareness of the Parents Regarding Education Investments

The engagement of parents gives a significant opportunity for schools to enhance current school programs by conveying parents into the educational process. Improved parental participation has been shown to consequence in increased student success, heightened parent and teacher fulfillment, and improved school climate [18]. They found out that respondents knew about the education investments specifically the free education policy and the contribution that the government of Tanzania brings to schools in the enforcement of the free education policy implemented by the former president of the United Republic of Tanzania late Dr. John P. Magufuli. The majority (65%) of the respondents identified free education policy as the Abolition of school fees and other contributions which are not included in the curriculum study conducted in Nigeria by Ezeibe et al. [19] who showed that parents had much

knowledge on free education policy which encourage them to take their children to school which in turn reduced children trafficking. It can be concluded that parent awareness is an important parameter for improving educational processes.

4.2 The Extent to which Primary Education is Free

The government of Tanzania has made an important determination to expand the educational system to the level that has been conferred and standard for the achievement of the millennium development goals before the time frame of 2015 [20]. The study found out that the majority (69%) of the respondents claimed that primary education was free this was justified by the number of items which they used to pay for before the implementation of the free education policy items such as guards, desks, tuition fees, examination fee, and other contributions, were by the mean cost for the student's expenditure before the abolition school fee and costs were 46100 Tanzania shillings and the mean cost after the abolition is 2550 Tanzania shillings. Also, the study found that there is a significant difference between the cost before the implementation of the free education policy and after the implementation of the policy ($p < 0.05$), the study conducted by [21] in Uganda found that under the Ugandan universal primary education policy tuition fee was also abolished as a result the number of students enrolled increased. The study conducted in Nigeria showed that parents had much knowledge of the free education policy which encourages them to take their children to school which in turn reduced children trafficking. Thus, providing free education has been proven to help parents to save money and value the education systems in Tanzania.

4.3 The Contribution of Free Primary Education to Rural Livelihood

Greater consistency in the returns to education for rural households may favor special treatment of students with higher capability. Rural livelihoods are necessary to be put first, and then the growing interest in sustainable livelihoods in terms of investing in education is an important step in the right direction [22]. The study found out that the free education policy had a major impact on the livelihood of the people as 88% of the respondents agreed that free education helped to reduce social crimes for the children who were supposed to be at school before the

abolition of the fees. Also, 77% said that free education policy helps rural households to invest in other economic production, 68% agreed on rural households the access to land for agricultural activities. Similarly, the study was conducted by [23] showed that the free education policy had significantly reduced violence against women in sub-Saharan Africa which improved the livelihood of the family and improved production and stability, reduction of crimes committed by children who were not enrolled to school were reduced this is supported by the study conducted in Malawi by Kadzamira and Rose [24] which found that the free education facilitated by education investment by the government increase the number of students enrolled in primary schools [25].

5. CONCLUSION

The broad analyses outlaid in the previous chapters have demonstrated that the impact of primary education investments on rural livelihood in Tanzania in the Kilombero district is discussed in this thesis. It demonstrates the potential consequences of primary education investments on the rural livelihood in Tanzania. From the above results, it shows that: A successful and sustainable education program needs to be developed mainly by engaging the local communities who make up the project team. It can be determined that education especially primary education is of paramount importance in building a strong and bright future society.

CONSENT

As per international standard or university standard, respondents' written consent has been collected and preserved by the author(s).

DISCLAIMER

The products used for this research are commonly and predominantly used products in our area of research and country. There is no conflict of interest between the authors and producers of the products because we do not intend to use these products as an avenue for any litigation but the advancement of knowledge. Also, the research was not funded by the producing company rather it was funded by the personal efforts of the authors.

COMPETING INTERESTS

Authors have declared that no competing interests exist.

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