

**TECHNOLOGICAL  
TRANSFORMATION  
IN EDUCATION  
SECTOR BY  
INTRODUCING  
E-LEARNING**



# INTRODUCTION

- SimbaNET is a leading Public Data Network Operator with cross boarder fiber presence in Tanzania.
- It operates under the umbrella of the Wananchi Group Limited headquartered in Nairobi, Kenya. The other group companies include Wananchi Telecom and Zuku.

## Our Presence

Tanzania  
Kenya  
Uganda  
Malawi  
Burundi  
Rwanda

Banks  
NGO  
Oil and Gas  
Telecommunication companies  
Broadcasting

## Our customer Portfolio



CONNECTIVITY

VSAT

Managed Services

IOT(Internet of things)

Broadcasting Service



# Deep diving to the Problem



# Situational Analysis

Primary Schools  
Students

S/N	Year	Number of Students	Number of teacher
1	2017	9,317,791	194,736
2	2021	11,196,788	197,919
Difference		1,878,997	3,183
Percentage change		20%	2%

Source: National Bureau of Statistics (NBS) 2020, Basic Education Statistics Report of Tanzania 2021



# Situational Analysis

Secondary  
Schools  
Students

S/N	Year	Number of Students	Number of Teachers
1	2017	1,908,857	110,163
2	2021	2,671,927	109,335
3	Diff	763,070	-828
4	% Change	40%	-1%

Source: National Bureau of Statistics (NBS)2021, Basic Education Statistics Report of Tanzania 2021



S/N	Year	Primary	Secondary
1	2017	17,357	4,796
2	2021	18,546	5,289
4	Diff	1,189	493
5	% Change	7%	10%

Source: National Bureau of Statistics (NBS)2020, Basic Education Statistics Report of Tanzania 2021

# Situational Analysis

## Summary

S/N	Year	Number Of Schools		Primary Schools Teacher / Student Ratio		Secondary Schools Teacher / Student Ratio	
		Primary	Secondary	Students	Teachers	Students	Teacher
1	2017	17,357	4,796	9,317,791	194,736	1,908,857	110,163
2	2021	18,546	5,289	11,196,788	197,919	2,671,927	109,335
3	Diff	1,189	493	1,878,997	3,183	763,070	-828
4	% Change	7%	10%	20%	2%	40%	-1%

Source: National Bureau of Statistics (NBS)2020, Basic Education Statistics Report of Tanzania 2021





# Findings

According to the presented data the current teacher/student ratio is 1:57 but the desired ratio by Ministry of Education, Science & Technology is 1:45. To achieve this ratio the addition of 50,898 teachers is needed. Currently the estimated budget for 109,335 existing secondary school teachers as of 2021 BEST data is 939TZS Billion Per year. And estimated budget for 197,919 primary school teachers is 995TZS Billion per year. With introduction of E-learning which will bring about technological transformation to education sector we can cover the gap by providing distance learning, which will reduce the gap between the existing number of students and teachers but also improve our education quality.



# Introducing E-Mpower



# E-MPOWER

- ❑ E-MPOWER is an E-Learning project which involves provision of skill based education contents and vocational training skills relayed through a television forum (Elimu TV).
- ❑ Programme is aired through Zuku Pay TV to students within Primary and Secondary Schools, Vocational training centers, women groups and youth groups.
- ❑ The feedback interaction is provided through provision of laptop and internet access.



# E-MPOWER- Primary and Secondary

- ❑ Supervision, assessment and marking will be done by teachers in schools.




Figure 1: Live "e-learning" transmission in a government school classroom



# E-MPOWER- University Students & Colleges

E-Mpower project also aims at providing laptops bundled with internet to Higher Learning institution students.

This will assist them in their learning and bridging the gap between learning and on going technological transformation.



**E-MPOWER**

**Get Laptop Loan  
For Your Child At  
University**

With Free Internet Access for 12 Months

- Available through La Riba loan from NBC bank
- Pay in Intallment

**45GB  
Per month**

Contact Us:  
+255 742 600 631  
sales@simbanet.co.tz

**NBC** **airtel**

**SimbaNET**   
... Keeping Africa Ahead





# Facilitation

This process will be facilitated by various financial institutions which we are still in conversations with, by providing easy low cost loans to Beneficiaries.



## Package for Schools

- Zuku Kit (Satellite Dish, Decoder and Installation).
- 58' Television Set.
- 24Months Zuku Pay TV subscription.
- Laptop.
- 45GB PER Internet access for 12months.
- Solar Power to areas with no electricity

## Package for Universities & Colleges

- Laptop
- Mi-Fi Device
- 45GB Internet access for 12months



# Project Partners

- ☐ TV and Computer Vendors
- ☐ Financial Institutions
- ☐ Zuku TV
- ☐ MNOs
- ☐ Solar Companies
- ☐ Peak Performance (T) Limited
- ☐ TIE- Tanzania Institute of Education
- ☐ Beneficiaries





# Desired Milestones

- I. To reduce teachers scarcity by introducing E- Learning as new way of learning.
- II. To improve education quality by incorporating visual as means of learning which can increase understanding and motivate learning.
- III. Cost cutting since it's a project that will be self-sustainable for two years and afterwards only subscription cost to Zuku Pay TV and internet access cost will be charged.
- IV. To set up a bridge between connectivity and offering quality education in Primary, Secondary and Higher Learning institutions.
- V. This will solve unemployment as there will be on offer practical skilled based learning trainings for vocational training institutions



# Project Status

- We got an invitation from the Ministry of Education, Science and Technology to present about the project to the Ministry and other education stake holders on 19<sup>th</sup> August 2022.
- Ministry is currently working with Regional Administration and Local Government (TAMISEMI) to provide a scope for the Pilot so as we can carry on with the pilot phase.



# Conclusion

- We acknowledge the continued support shown by the Government through the Ministry of Education, Science and Technology by facilitating implementation of the project.
- We urge the Government and other education partners to continue investing in ICT so as to provide quality education to a large number of students and reduce teachers scarcity problem in Tanzania.



## CONTACTS

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THANK YOU

