COLLABORATIVE DATA INNOVATIONS FOR SUSTAINABLE DEVELOPMENT PILOT FUNDING

GLOBAL PARTNERSHIP FOR SUSTAINABLE DEVELOPMENT DATA

EXPRESSIONS OF INTREST

A. Basic Information

Proposal Title	**Enhancing the Quality of Teaching and Learning Through ICT**
Sector theme(s)	**Education and Communication**
Country/Regions Coverage	**United Republic Of Tanzania**
SDG(s) to be supported	**4: Quality Education** **9: Industry, Innovation and Infrastructure**
Funding requested(USD)	**$ 200,000**
Team leader's name and Organization	**Nivard Kalabamu** **TzChoice Company Limited**
Team composition (Individuals& Organization)	**Mr. Nivard Kalabamu, Mr. Lucian Ngeze, TzChoice Co ltd, ICANN Tanzania Chapter, Tanzania Commission for Science and Technology, Tanzania Ministry Of Education and Vocational Training, Tanzania Ministry of Communications, works and Infrastructure.**

B. Proposal Details

Project motivation

This proposal is motivated by my personal conviction that ICT can be used as an effective tool for teaching and improving the effectiveness of teaching; It can support learning through enhancing current approaches and enabling novel strategies to learning; supporting personalization and the ability to more readily meet individual needs; and through appropriate and imaginative use of ICT in schools, students and teachers can better use computers in their future work, leisure and home life.

ICT can transform the way that education is delivered and open the way to a new pedagogy. It can make it easier for teachers to plan and find high quality materials, and it can help pupils to find out more about the subjects that they are studying. Critically, new technology can enable teachers to tailor their teaching more closely to the abilities of individual students.

In Tanzania most of schools have not gone through this technological process and very few have been equipped with an ICT infrastructure. In primary schools in Tanzania, ICT has been included in curriculum while in the secondary sector it has been started to be regarded as a different subject and geared towards a skills-based exam but for few private secondary schools.

Project Objectives

The project focuses on the ICT – equity agenda and aims at assisting Tanzania public schools to implement sustainable strategies for the application of ICT in pedagogically meaningful ways. The major objective of this initiated project is to maximize the integration and use of ICT in education in Tanzania in the light of best research and practice, and the support of implementation and enhancement of such practices. The project is also aligned with the Tanzania national ICT policy in promoting the use of ICT in education as well as One of UNESCO's overriding aims is to ensure that all countries have access to the best educational facilities necessary to prepare young people to play full roles in modern society and to contribute to a knowledge nation.

The objectives of the proposed project are not limited to the following:

1. To establish infrastructural facilities for teaching and learning through ICTs in public secondary schools
2. To provide computer literacy training to teachers & students at schools.
3. To develop the schools as the computer centers as well as communication centers especially for internet services.
4. To provide learning and teaching materials in relation to different subjects
5. To assist the schools deploy and manage the Schools information systems

Expected outcomes of the project

The project shall benefit not only the schools, but the entire community around the schools. The ICT lab will provide a hub where local residents will be able to improve their computer literacy skills and access affordable internet services, expanding the number of people the ICT centre supports.

The expected benefits thus include the following;

1. Availability of ICT infrastructure for teaching and learning together with internet accessibility.
2. Integration of ICT in pilot schools across the country
3. Trained personnel to support educational transformation among teachers associated with the pilot project.
4. Availability of learning and teaching materials for schools and community transformation.

Type of data visualization and methodology

The data model to be used is the SAMR which is a model designed to help educators infuse technology into teaching and learning. This model supports and enables teachers to design, develop, and infuse digital learning experiences that utilize technology for transforming learning experiences to result in higher levels of achievement for students.

How the proposal addresses data issues& challenges in relation to SDG

This project will play a significant role in equalizing opportunities for marginalized groups and communities that are unable to access the internet and use its resources for research and other educational materials for teaching and learning purposes there by facilitating and promoting open data initiatives.

Thus through this project schools and the community will be able to acquire computer knowledge and access the global sources of information for education as well as other social and economic development at large aligned to SDGs of Equality education and computer centered community through enhanced ICT infrastructure.

How the project innovates in data dissemination and use

This project will be a milestone to participation and engagement in modern information society. It will enable the students and community to find, develop, analyze and present information, as well as to model situations and solve problems.

It will enhance rapid access to ideas and experiences from a wide range of people, communities and cultures, and allows students to collaborate and exchange information on a wide scale.

This project will generally familiarize students with the use and workings of computers, and related social and ethical issues.

By using modern information communication technologies, students will be able to retrieve their required information within a short time. They will access and disseminate electronic information like e-books, e-journals as well as improve their learning by using different modern ICTs in form of wireless networks, internet, search engines, databases, websites and web 2.0 technologies.

Project timeline, Team Members as well as their roles and responsibilities

The proposed project will be composed of the following organizations and individuals

1. **Project manager (Team Leader)**

   i.   Facilitating the development of the project charter and any other documentation in collaboration with the project team (Steering team)

   ii.   Ensuring all the given objectives and responsibilities of the team are properly documented and approved

   iii. Facilitating the identification of project resource requirements to construct resource team

   iv.   Facilitating regular core team meetings to review issues, project risks, and monitor project progress

   v.   Creating regular status reports and distributing the project team

2. **TzChoice Co ltd**

   This is the executing company responsible for all project management with respect to technical, human resources and other project related activities.

3. **ICANN Tanzania Chapter.**

   Partner organization for technical consultancy and advice in relation to ICT technologies.

4. **Tanzania Commission for Science and Technology.**

   Partner organization for the necessary information about the situation of ICT across the country.

5. **Tanzania Ministry Of Education and Vocational Training**

   Project partner organization for allocating all the necessary information about schools, teaching methods and all other information related to education sector in the country.

6. **Tanzania Ministry of Communications, works and Infrastructure.**

   Project partner organization for facilitating and ensuring network infrastructure across the areas where the project will be carried out.

Expected collaboration between the project team as well as other national and international partners

The project team will emphasize much on collaboration with the national and international organizations such the Tanzania Ministry Of Education and Vocational Training, UNESCO and other technology organizations but not limited to potential stakeholders in the education sector.

The type of government agencies that can benefit from the project to improve data gathering and management

Different government agencies such as hospitals, local government administrative authorities, research institutions, trade unions and so much other government institutions will be able to gather and communicate information in their day to day activities.

How the proposed innovation can be scaled up to a large no of countries.

The proposed project can be scale up to East Africa and other African countries where by the pilot school shall be used as the modal technology schools for other schools to learn and adopt the technology. This can be easily facilitated by free movement of Project facilitators from one country to another which is aided by supportive ICT infrastructure across the region.

Expected outputs and outcomes

The expected outputs are thus not limited to the following;

1. Improved computer laboratories and facilities
2. Presence of ICT infrastructure for teaching and learning
3. Access to internet resources by the schools and community
4. Integration of ICT in pilot schools
5. Trained personnel to support educational transformation
6. Access to offline and online digital contents for learning and teaching
7. Bridged information divides between the community and external world

Proposed delivery timeline

The Project is expected to undertake eighteen (18) months in following six (6) phases of execution.

No	Activity	Duration
01	Converting rooms into computer laboratories	3 Months
02	Purchasing for computers and all the accessories	2 Months
03	Equipping laboratories with computers and other accessories	3 Months
04	Connecting the schools with broadband internet connections	3 Months
05	Installation of Teaching and Learning materials	2 Months
06	Training To staff and Sample Students	5 Months

Proposed budget

Components and Activity Description	Innovation Fund US$ (to be funded by this proposal):	Other Resources
Personnel:	$30,000	
Equipment	$100,000	
Travel:	$20,000	
Activities:	$50,000	
Total:	$200,000	

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