

KIWIX

4 SCHOOLS

Background

- **Right to internet access a fundamental human right** - United Nations 2016 Resolution.
- The 74th UN General Assembly proclaimed **28 September** as the **International Day for Universal Access to Information (IDUAI)** at the UN level in **October 2019**



Image by: Wilfried Huss

Problem Statement

- Africa Internet penetration rate 43%
- Expensive internet cost
- Lack of IT infrastructure
- Digital Divide
- Illiteracy



Central African Republic ranked the most expensive with 1GB of data costing the equivalent of 24.44% of average income.

Internet usage : \$428 billion investment needed to connect all of humanity to the internet by 2030 Web Foundation.

What Covid-19 Taught us!

- How has the world coped?

Online learning

E-health

Working online

Online events

- How did our education system cope?

- What did the government of Ghana do?



Covid 19 has forced us to learn and act faster and to really address our connectivity issues

offline access could help teachers and learners to access complementary form of educational resources at no cost



What is Kwix?



Kiwix is a free and open-source offline web browser that brings internet content to millions around the world who don't have access to the internet.





What does that mean?

- Meaning that it allows you to browse text or video that is normally only available on the internet.
 - Various online contents (such as Wikipedia, for example) are turned into ZIM files.
 - Zim files are small enough that they can be stored on users' mobile phones, computers or small, inexpensive Hotspot.
 - Kiwix then acts like a regular browser, except that it reads these local copies.
 - People with no or limited internet access can enjoy the same browsing experience as anyone else.



Kiwix Content

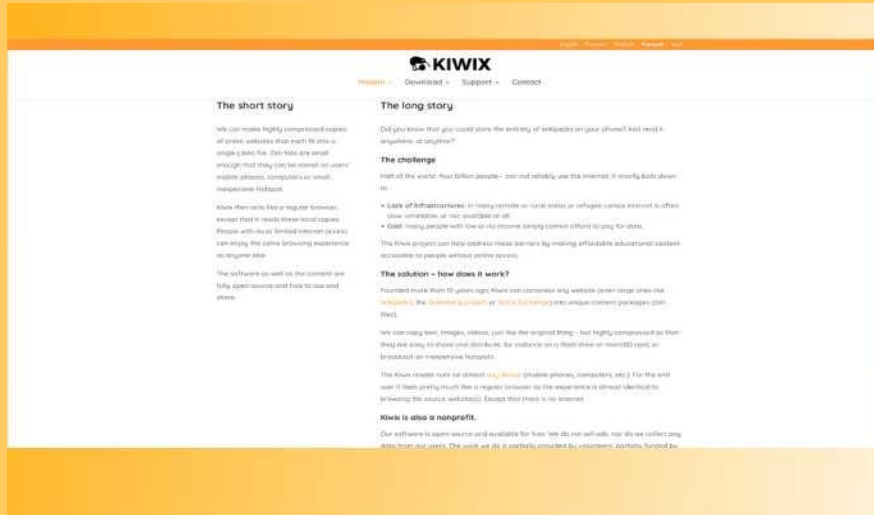
- **Ted Ed**
- **PHET**
- **Biography**
- **Chemistry**
- **Physics**
- **Earth Science**
- **English**
- **Wiktionary**





Who is responsible for KIWIX?

- The organization name is also called KIWIX.
- KIWIX is a registered not-for-profit entity which neither collects user data, nor put out ads.



How it started

**Felix Nartey in 2016 did a
Pilot project**

**Maxwell Beganim in 2019
piloted it in Kumasi**



Pilot

- **1200 students were trained**
- **95% of students never heard about Kiwix**
- **70% of teachers also reported never heard/nor used Wikipedia**
- **99% of student and teachers have never heard of Kiwix**

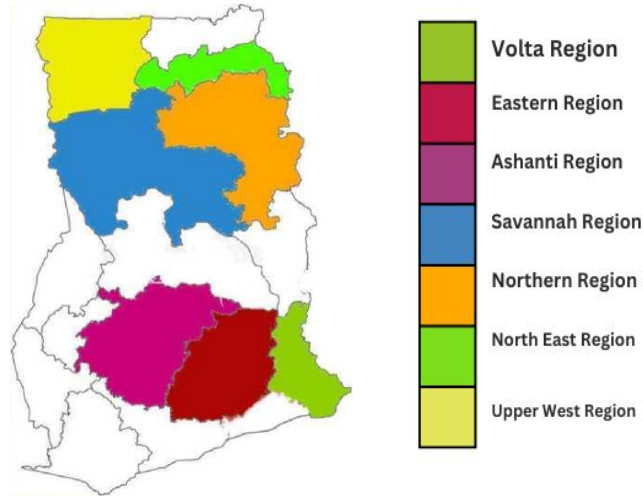


Methodology

- **Kiwix4schools mini fund**
- **Empowered volunteers:**
Training/ Capacity building
- **Provided logistics and technical**
Support



Implemented in over seven (7) regions in Ghana



Kiwix 2021 & 2022 Trends



Item	2021	2022	Total
Students Trained	415	362	777
Male	190	200	390
Female	225	162	387
<i>No. of computers</i>	193	202	395
Internet usage	282	305	587
Heard about Wikipedia	221	180	401
Heard about Kiwix	3	11 (1%)	14
Student population versus working computers	133,219/193	11,886/202	
Total schools visited	12	10	22

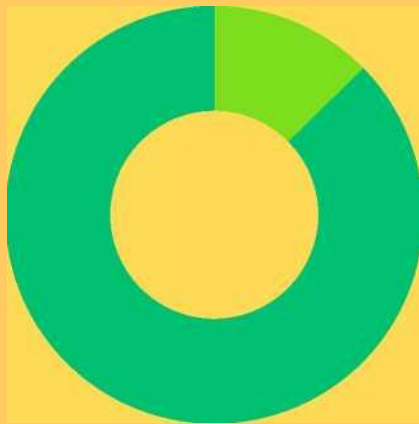
Cumulated Student Population

2021 - Eleven (11) Schools

2022 - Ten (10) Schools

193 Working Computers

12.7%

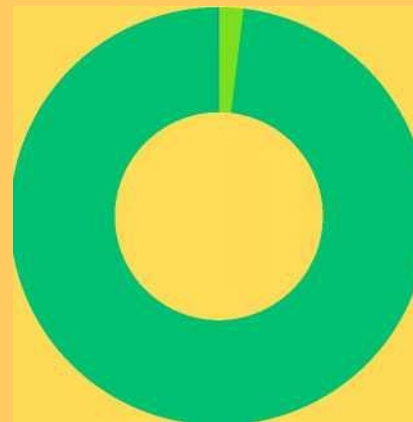


1332 Total Students Population

87.3%

193 Working Computers

1.9%



9886 Total Students Population

98%



**Downloading of music
Watch videos Social
media Games Video
calls**

**Accessing
information**

Field Implementation Challenges

- **Lack of ICT infrastructure at the schools**
- **Unmatched student to computer ratio**
- **Kiwix was installed using hard drives**
- **No Localized Content**
- **Unsupported content format**
- **Content for Technical schools**
- **Copyright**



2023 Kiwix Africa Mentorship Program

- Scaled up beyond Ghana
- Kiwix4SchoolAfrica Mentorship Program

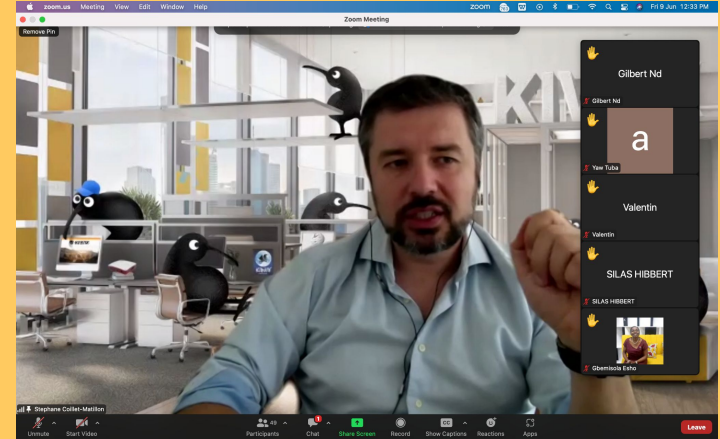
Launch

- 100 participants were enrolled
- 64 participants completed the program

meeting all requirements

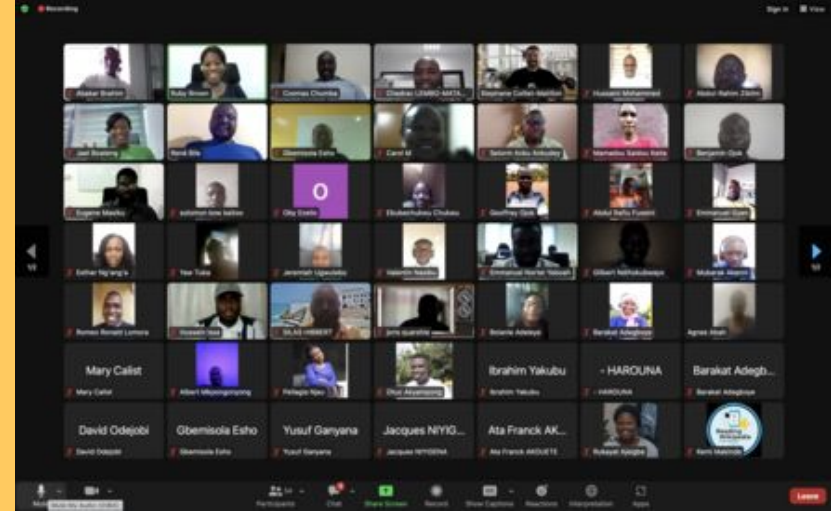
- Piloting in 5 countries

- South Sudan
- Nigeria
- DR Congo
- Burundi
- Tanzania



What did we learn

- **96% saw the selfpace learning platform as very instrumental considering the different time zones.**
- **85.7 % said the course platform allowed them to acquire the skills and 12.9% were indifferent**
- **91.4% they received the needed support from their mentors**
- **Dedicated mentor for French group**
- **Mentees were able to schedule one on one sessions with their mentors**
- **Generally mentees had positive experience with their mentors**



What did we learn- Positives

"Actually it was fitting in my own schedule and easy to allocate the time."

"It was straightforward and easy to navigate. It was concise with lessons and assignments too. When I log back in, it always took me back to the last activity I was on"



What did we learn- Areas for Improvements

- Learning platform had limited interactivity
- Course platform was entirely English needs to be modeled in other languages
- The live sessions weren't convenient for everyone as it was late for some people
- Some participants think data support would have been supportive for them
- Extension of course duration
- Incorporate peer learning in the program etc



Have Questions?

- Do you find Kiwix useful for your community?
- How best do you think this could be implemented in your region?
- What are some of the challenges you foresee in your region in implementing such a project?
- What kinds of support and mentorship will you need to get started?
- What kinds of partnership can we explore to get more localized content?
- How do we overcome the limitation of copyright in accessing local content?

Where to download Kiwix

<https://www.kiwix.org/en/downloads/>



