

ImpalaDigiLib

A solar-powered digital library for schools in rural areas

o6.2023, M. Mbaga ImpalaBridge

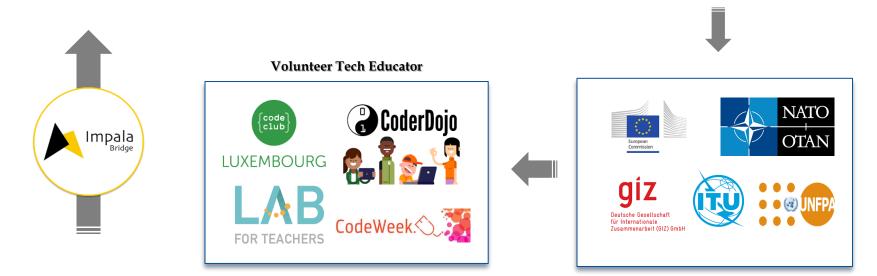
Martin Mbaga – D4D Expert / Project Manager





Young refugee

Africa



EdTech challenges in rural schools



Infrastructure and Connectivity

One of the major challenges facing EdTech in Africa is the lack of reliable infrastructure and limited internet connectivity in many regions. It's a barrier to online education, access to digital content and learning platforms !

- Internet is too expensive (mainly rural schools)
- Lack of electricity <-> Availability and Reliability
- Existing infrastructures don't provide robust and reliable connection needed for educational purposes.



Solution - ImpalaDigiLib



ImpalaDigiLib = Digital Library.



A pilot scalable solution

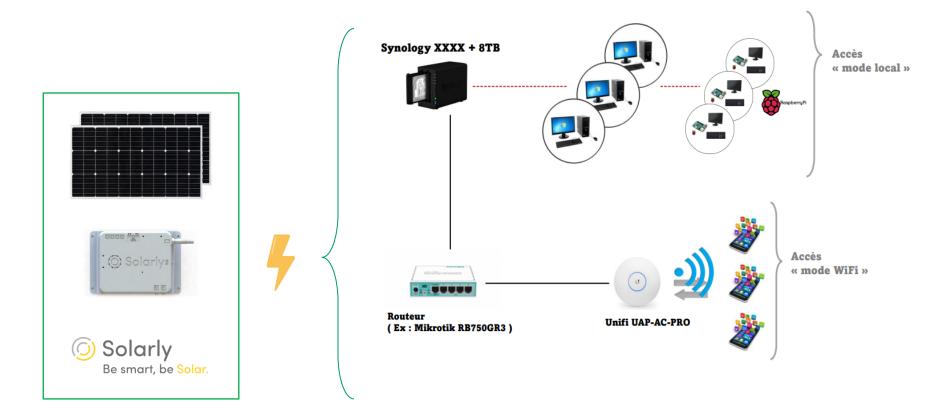
- Solar-powered
- Digital educational resource access point (Wifi / Local)
- Adaptable to other sectors : Healthcare, Administration, ...
- Made with COTS (commercial off-the-shelf) products.
- Financially affordable

- ..

ImpalaDigiLib - Architecture

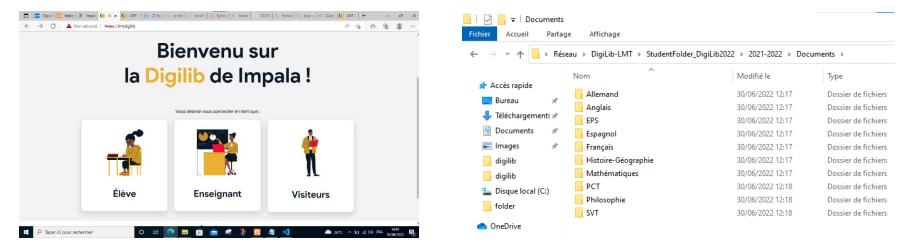


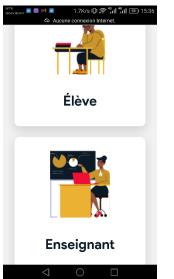
- NAS (Network Attached Storage) Synology Main Equipment "Hardware"
- User / Admin Interface "Software"/Operating System
- WIFI hotspot
- Solar energy kit



ImpalaDigiLib - Interfaces













- As part of "Paas Panga" Enabel initiative
- 3 schools equipped
- +/- 15 users / administrators trained

- ✓ **Requirement Analysis** Ideation and Design Thinking workshops
- ✓ SELFIE survey (EC tool) Understand how digital technologies are being used to support teaching and learning.
- ✓ Equipment Installation and Testing
- ✓ Educational Content upload "do.doc", Wikipedia, past exams, textbooks, EduLab Videos, etc.
- ✓ **Train the trainers** Key user facilitators Training
- ✓ Sustaining the Initiative







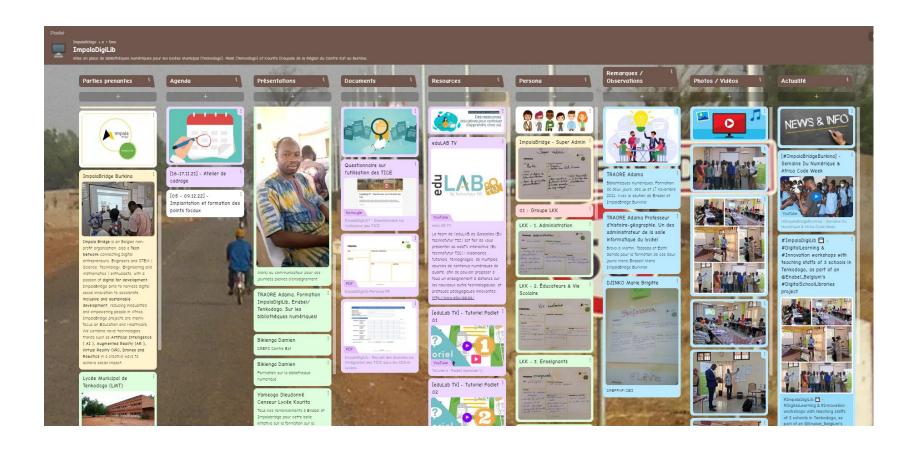




Ideation Sessions Design Thinking Workshops











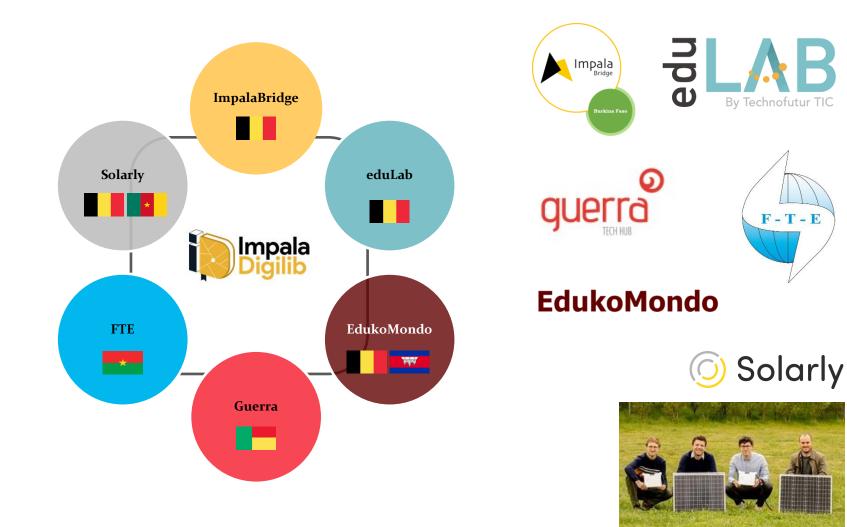




Train the trainer workshops

Use case – Co-Creation : Connecting the dots / people





Sustaining the Initiative







Bénin - Albarika



TVET Schools







EdTech Clubs Network







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