

#### Invitation to collaboration

# School Connectivity in Africa

"we help connecting the children of our world"

Josef Noll<sup>1,2</sup>, Catherine R. Kimambo<sup>2,3</sup>, Wisam A. Mansour<sup>2</sup>, Jonathan Muringani<sup>1</sup>, <sup>1</sup>University of Oslo, Department of Technology Systems

<sup>2</sup>Basic Internet Foundation, <sup>3</sup>African Child Projects

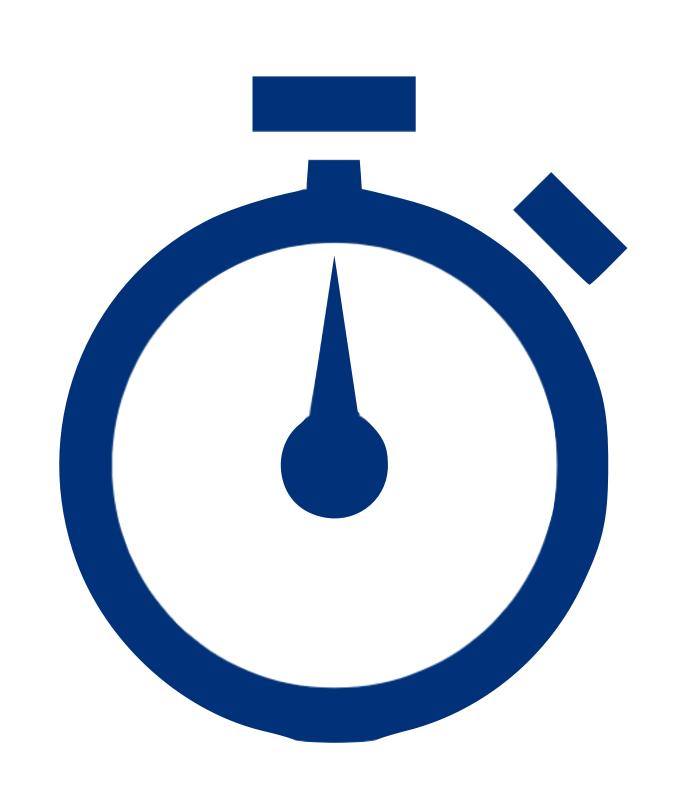
Kjeller, Norway, m: +47 9083 8066, e: info@basicinternet.org

"Connectivity is not an imperative" enabler, it is an imperative Jane Coffin, Connect Humanity

# Connecting the Unconnected







We want to get as many users connected as soon as

possible

Affordable & Meaningful Access

Access - Skills - Regulations - Inclusion

10 GB/month to Broadband - Scalability

School Connectivity - we must invest into the future

# Mission

# Framework Conditions

# Partnerships



"Our mission is to improve the life of every human through free access to information on the Internet...."

"This mission is carrying us forward every single day.

We solved the challenge of access, and are focusing now the local Knowledge Portal to empower individuals, societies and nations. Through free access to the portal we address access, skills, regulations and inclusion"



# Mission

## Framework Conditions

# Partnerships

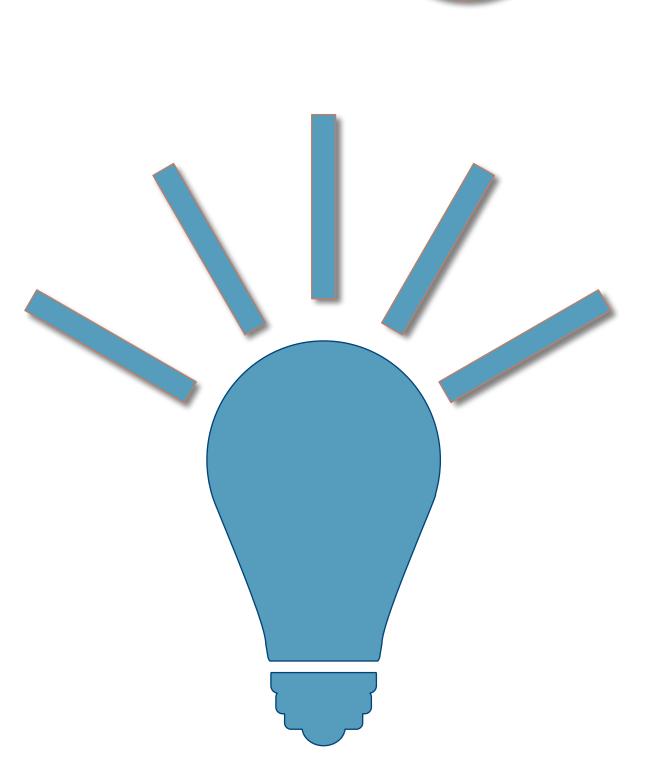


Basic Internet Foundation

55 schools (Q4.2021) 37 632 students

Participation in the Internet Society

USD 1800 per school ready installed



Changing the lives of many



- → Tanzania feasibility of affordable OPEX
- 10 schools (Mar2021)  $\rightarrow$  50 (Q1.2022)  $\rightarrow$  200 (Q1.2022)  $\rightarrow$  national framework
- UCSAF, MCIT, Mobile Operators (Vodacom, TTCL, Airtel, Halotel), Shuledirect
- → Kenya private sector collaboration
  - 45 schools Oct2021 → National Framework
  - harmonisation with UNICEF and national strategy
- **Ethiopia** support of MoE initiative
  - pilot 1 school → proposal to BMF on phase 1 of national framework 50 schools
- → **Rwanda** harmonisation with UNICEF RW
  - Focus on affordability, reduce from 225 USD/month
- → **Ghana** with GUIFI Africa & EU SESA project
  - $\bullet$  2 schools → 30 (Q4.2022)
- → South Africa social justice & digital empowerment
  - discussions with THUMA Foundation and Western Cape University







## Histories



"My mobile is more important than a weapon"



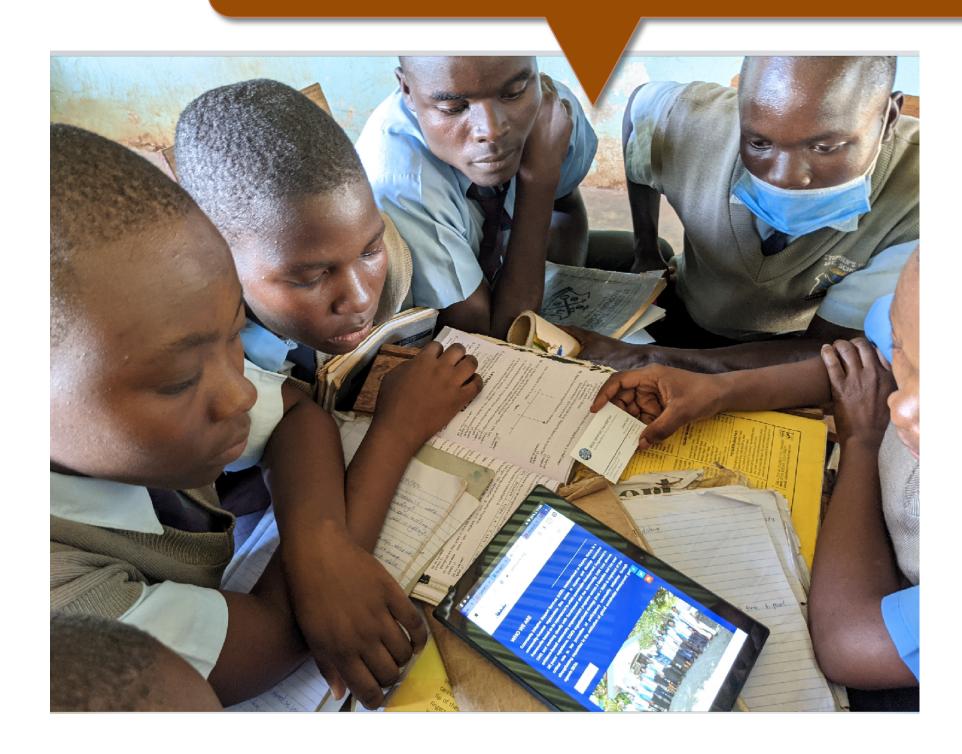


https://vimeo.com/368147538 - 2020



Mount Kenya - our cultural heritage

Usingo Secondary School, KE



#### Scalable connectivity

for meaningful access tailored towards the needs & capabilities

Value creation
Trust & confidence



InfoSpot 10 GB/month <20 USD/month Explore, Affection Opportunities



Narrowband ~5 Mbps 58 USD/month

Empowerment, Work Digital Transformation



Community network 50-100 Mbps 200-500 USD/month Self-actualisation Entertainment



Mobile Broadband 20 USD/month/person

# Our Goal

5000 schools 3 420 000 students Q4.2023

255 schools 165 240 students Q4.2022

1100 USD/installation 0.6 \$/student

10 schools 10 131 students

1800 USD/installation

2500 USD/installation 4 \$/student

55 schools

3 000 USD/installation

Q1.2021



# Basic Internet Foundation

## Testemonials

- Catherine
- Barrack
- → Robert

# Mission

### Framework Conditions

# Partnerships

#### Framework conditions

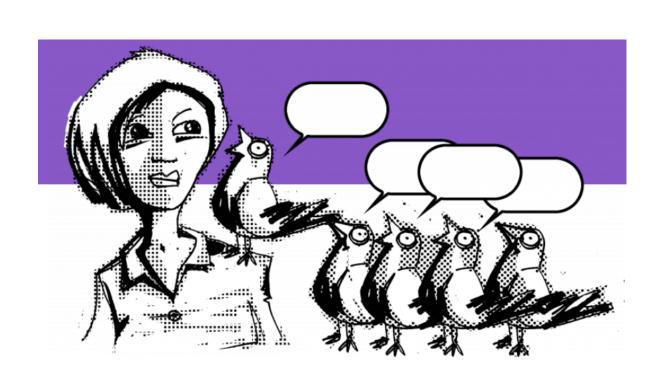
- From community engagement to school connectivity
- National framework for digital empowerment
- → Regional Competence Centres (RCC)
- → Distributed (local) Internet
- Integrated Approach



A key barrier to women and girls' digital inclusion is lesser access, compared to men and boys.

This includes access to devices, to data, and to networks.

UNICEF, what we know about the gender divide...



Basic Internet access is improving for women but a hidden digital gender divide persists according to new WWWF report

digwatch, Geneve Internet Platform, 2020

# The building blocks for Digital Empowerment

















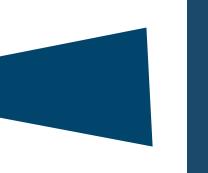


9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



16 PEACE, JUSTICE AND STRONG INSTITUTIONS





17 PARTNERSHIPS FOR THE GOALS



Energy & Internet Lite for All Target 7.1&7.2 Target 9.C Target 16.10

# Framework Conditions - the Integrated Approach

#### Access

### Skills

# Regulations Inclusion

- Wireless information spot
- Rural areas

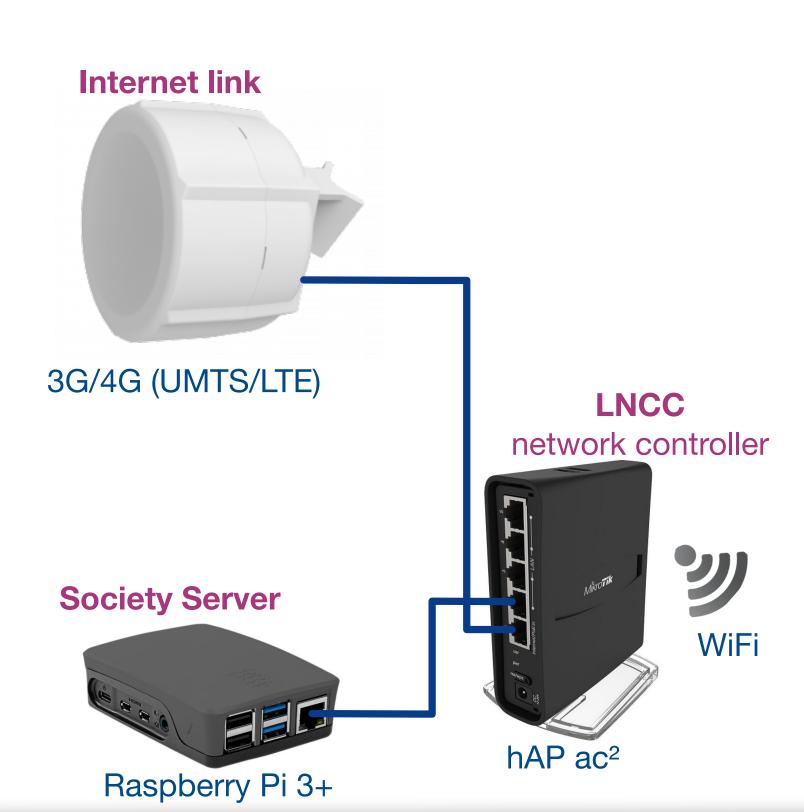
- Decentralised Internet
- Local School Server
- Trusted information

- Authority contacts
- Internet Lite
- Freemium (free + premium) model
- Girls & women
- Special Needs

# Solving the Access

Basic Internet Foundation

- wireless information spot (InfoSpot)
- → Reaching out >20 km to mobile network
- → Affordable solution: OPEX <20 USD/ month



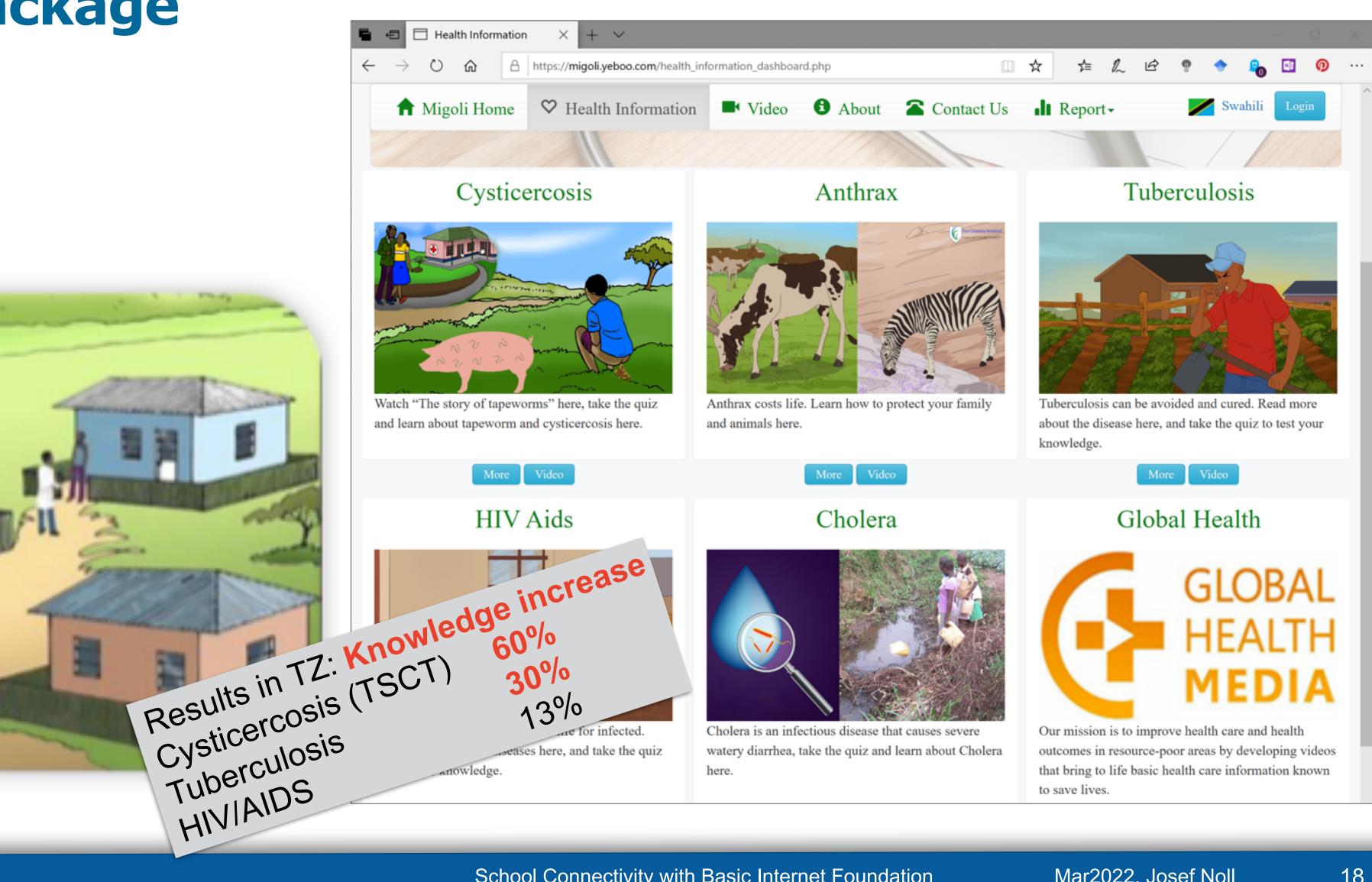


# School server: <u>yeboo.com</u>

Example: Health package







# Mission

# Framework Conditions

# Partnerships

# Partnerships for value creation and sustainability

# Companies

#### NGOS

# Authorities Academia

- Visibility
- Value creation
- Doing good
- Employee program
- Reputation

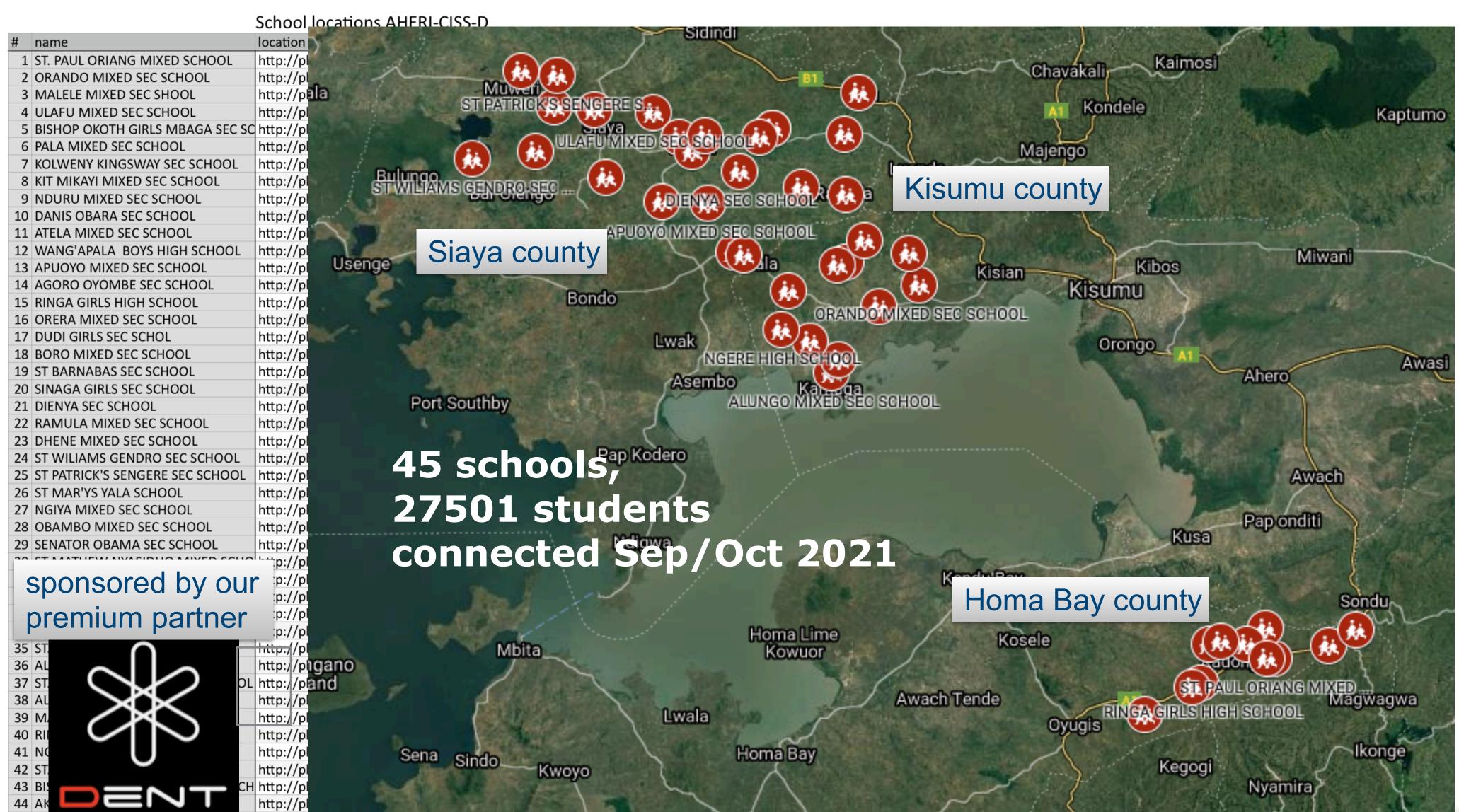
- Digital Transformation, Radio & ICT experts
- Network
- Co-funding

- Independent consulting
- Evaluations
- Digital Transformation
- Research that matters
- SDGs in praxis
- Projects



#### 45 schools connected Sep/Oct 2021



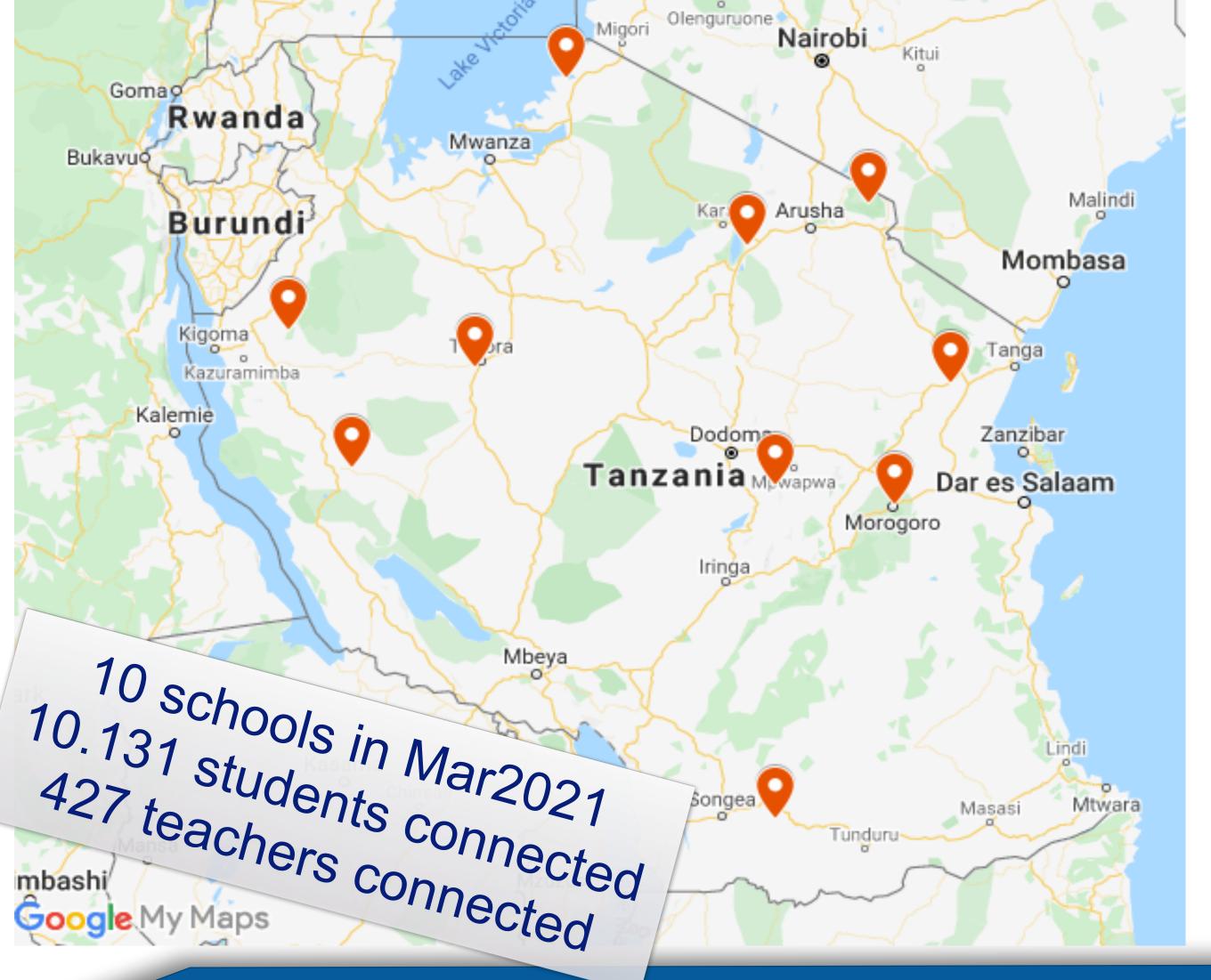


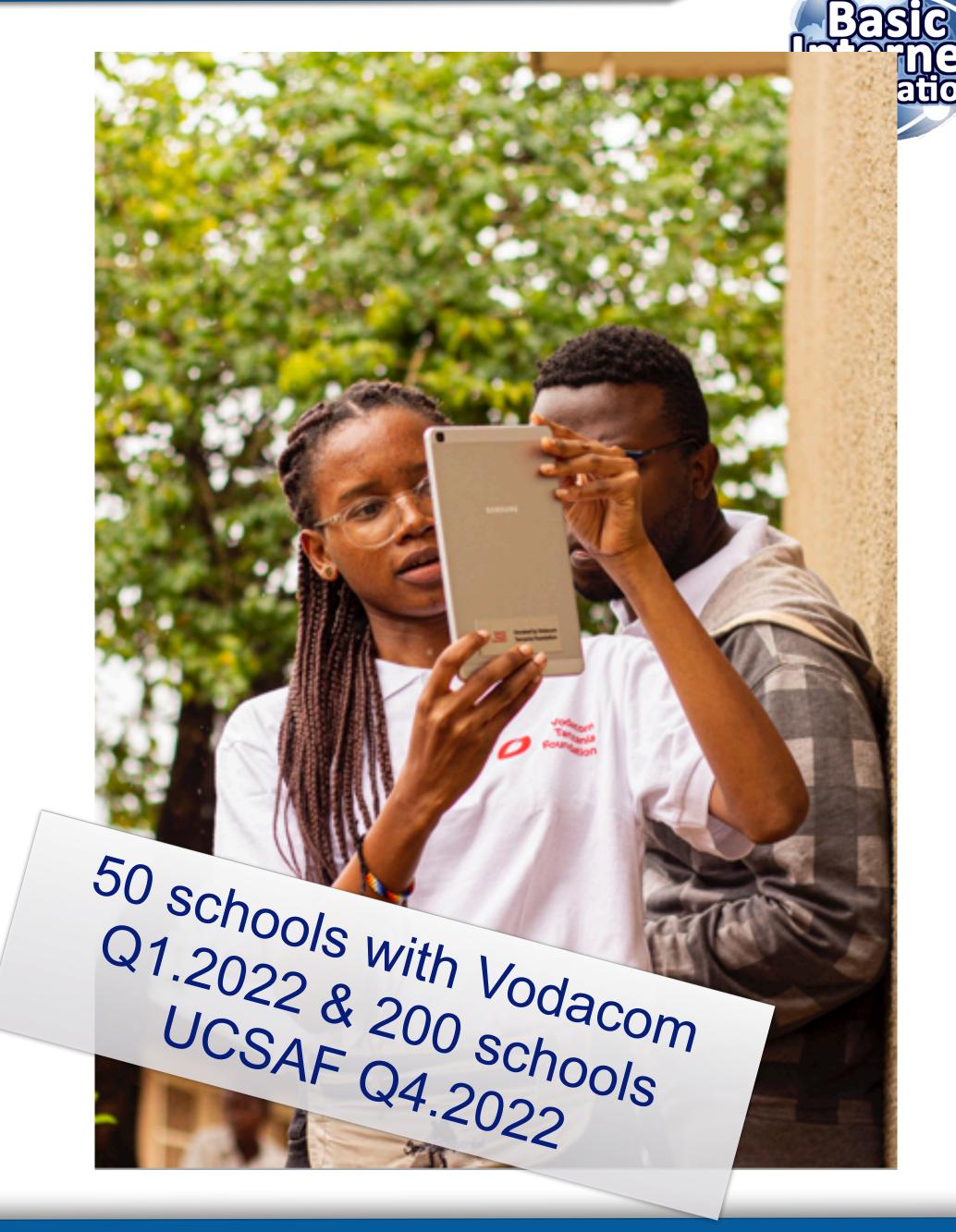


- parallel toGIGIconnect firstphase
- 5 Mbit/s overLTE (dedicated SIM cards)
- 58 USD/month

#### Scale-up Tanzania

# Catherine connects schools













# 13 countries in Africa



















**AFRICAN** 

**PROJECTS** 

CHILD





Safaricom











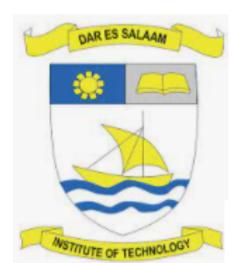


































ANDS





# Join our collaboration on School Connectivity

- Create visibility
  - → DENT Wireless: 27.501 students connected
- Acquire future customers
  - → Vodacom TZ: 3-year contract to connect 200+ schools
  - Orange: Project partner for "connecting the unconnected"
- Doing good
  - support your SDG, CSR and Value programs
- Bring value to you employee program
  - Meaningful work, contributing
  - Join us on field trips to Africa
- Lift your reputation
- Get involved, Become a Partner

























# Basic Internet Foundation

# **Contact: Josef Noll +47 9083 8066**



"You should check your e-mails more often. I fired you over three weeks ago."