



UNIVERSITY OF OSLO

Joint Meeting luG & UiO, 10Nov2025

Digital Health Promotion for Digital Public Infrastructure (DHP4DPI)

Josef Noll

Professor, Department of Technology Systems (ITS)
Lead Digital Global Health at the Centre for Global Health (CGH)

UNIVERSITY
OF OSLO



Usingo Secondary School, Kenya



1. Is access to digital health information a universal human right?

2. How can we enable access, especially for people and groups left behind by traditional business models?



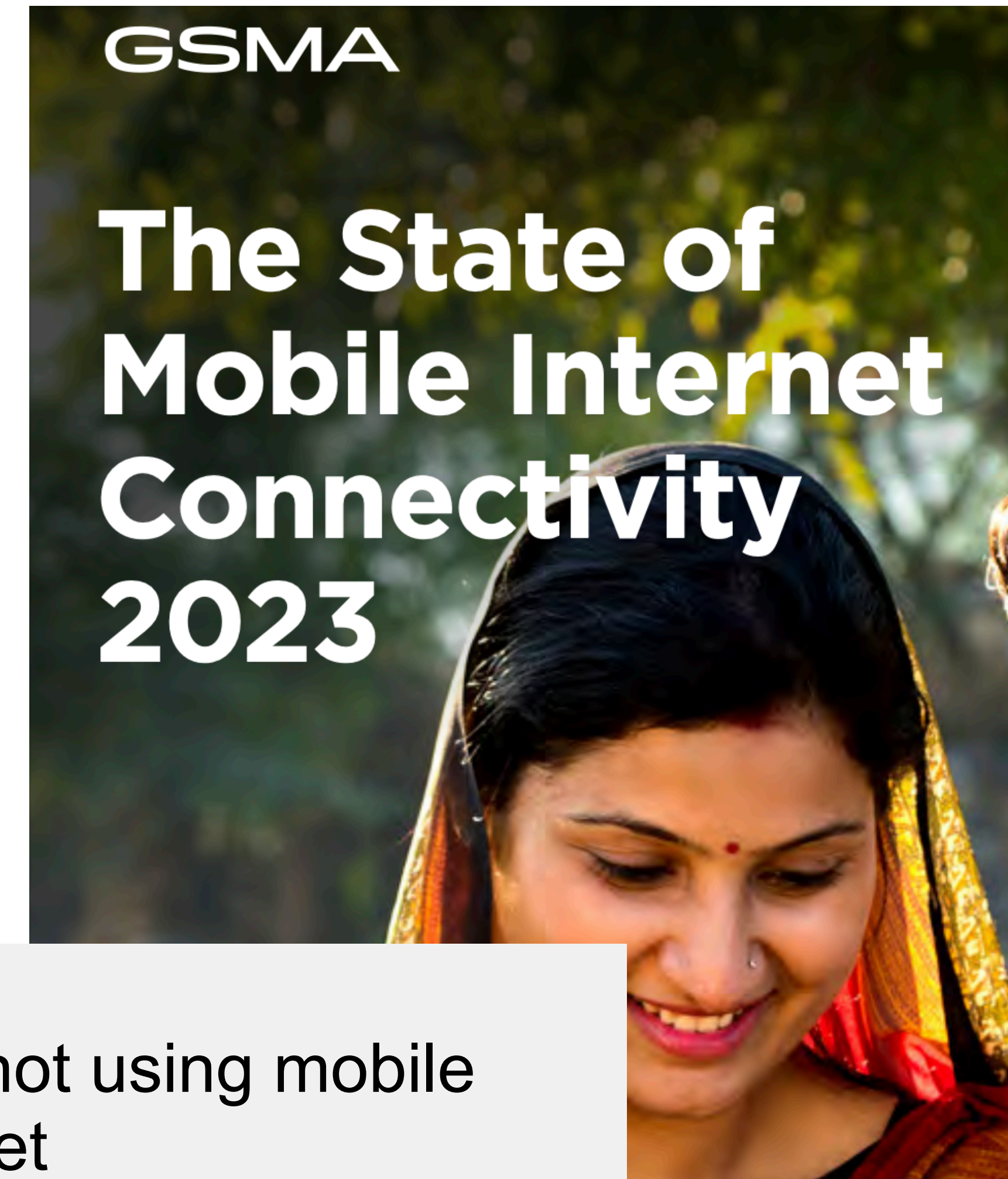


9.c

Significantly **increase access to information** and communications technology and strive to **provide universal and affordable access** to the **Internet** in least developed countries **by 2020**



- **57%** of the global population (4.6 billion people) using mobile internet
 - 30% decline in new mobile broadband (200 million new users in 2023)
 - **95% of unconnected** people in LDCs
- Adults in **rural 29% less likely** to use mobile Internet (compared to urban)
- Gender Gap: **Women 19%** less likely
- 41% South Asia, 36% in SSA



SSA:
75% not using mobile internet

Sustainable Empowerment - catalysts for the SDGs and health empowerment



SDG 1.4 Equal access to basic services

SDG 4.A Education facilities for effective learning for all

SDG 5.B Use of enabling technologies

SDG 9.C universal and affordable access

SDG 16.10 ensure public access to information

SDG 17 Partnerships for the Goals

Establish Digital Public Infrastructure (DPI) *and apply the model of the road*

Step 1:



Step 2:

0 1 0 1
1 0 0 1
0 1 0 0



**Free access to information
for all**

[Source: <https://www.gatesfoundation.org/ideas/digital-public-infrastructure>]

Health Information as part of the DPI



[Source: Christine Holst, UiO]

UiO : Global Health
DigitalGlobalHealth.no



Health information through animations

Snapshots from platform, HIV and Cysticercosis animations

[Mwanzo](#)
[Afya](#)
[Kuhusu](#)
[Wasiliana nasi](#)
[Repoti](#)
[Videos](#)

 English
 [Login](#)



Epuka Tegu

Kisababishi ya Tegu



Mnyoo bapa aitwae *Taenia solium*, husababisha binadamu kuugua vibaya sana. Binadamu hupata minyoo hao kwa kula nyama ya nguruwe mbichi au isiyoiva vizuri, yenye malengenge ya minyoo (cysts). Ndani ya utumbo wa binadamu, malengenge hayo hutoka katika nyama na kujishikiza kwenye ukuta wa utumbo na kufanyika minyoo ambao hukua na kutaga mayai.

Dodoso ya Tegu

Tafadhali jaza utafiti kuhusu Tegu

Jinsia yako ni ipi?

☐ A) Me

☐ B) Ke

Je, umewahi kusikia kuhusu minyoo aina ya tegu?

☐ A) Ndio

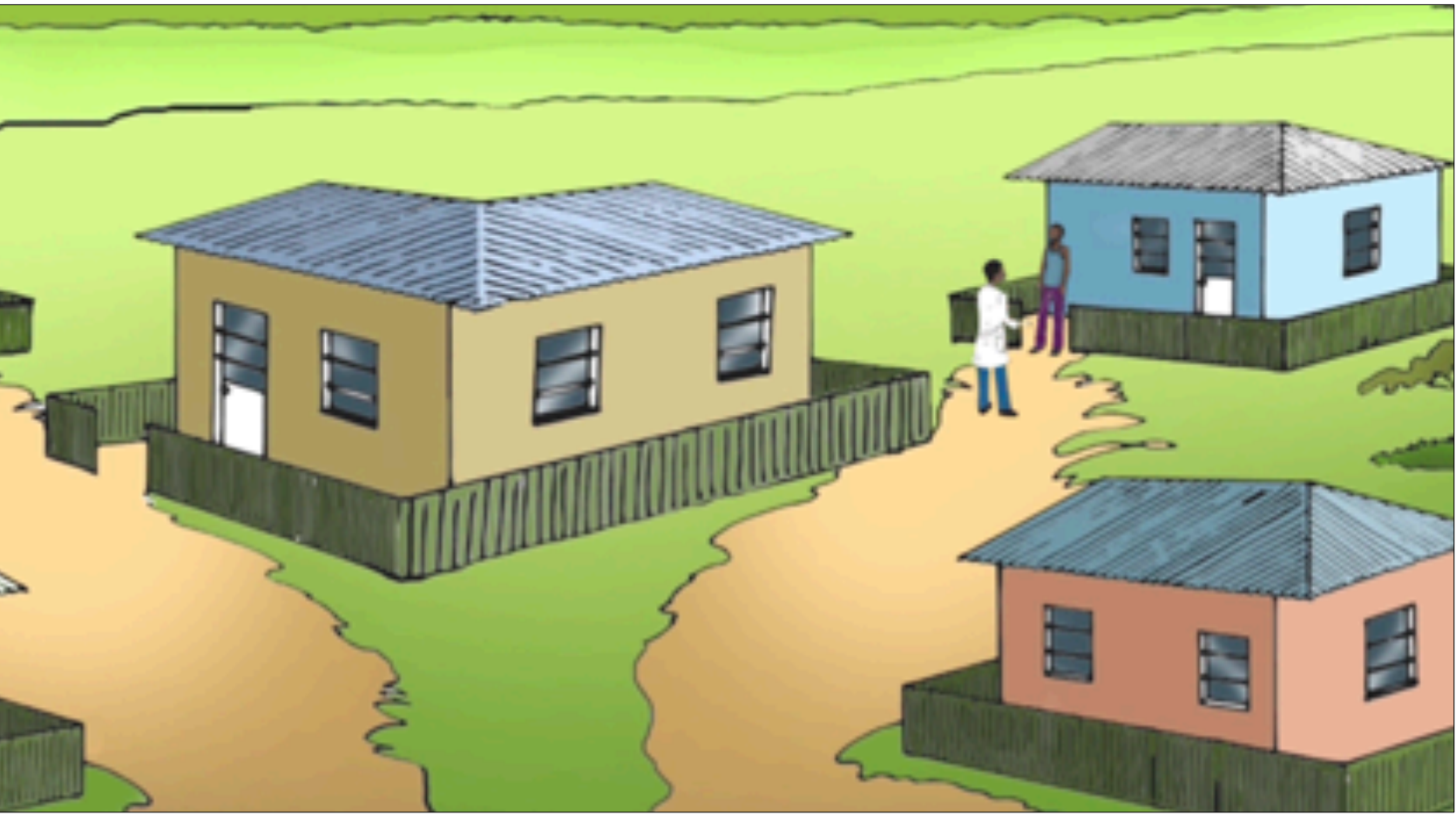
☐ B) Hapana

☐ C) Sijui

Je! Umewahi kusikia kuhusu minyoo ya tegu kwenye wanyama aina ya nguruwe?

☐ A) Ndiyo

☐ B) Hapana



Results: **Knowledge increase** in

Cysticercosis (TSCT) 60%

Tuberculosis 30%

HIV/AIDS 13%

[Source: Christine Holst, UiO (Nov2019)]



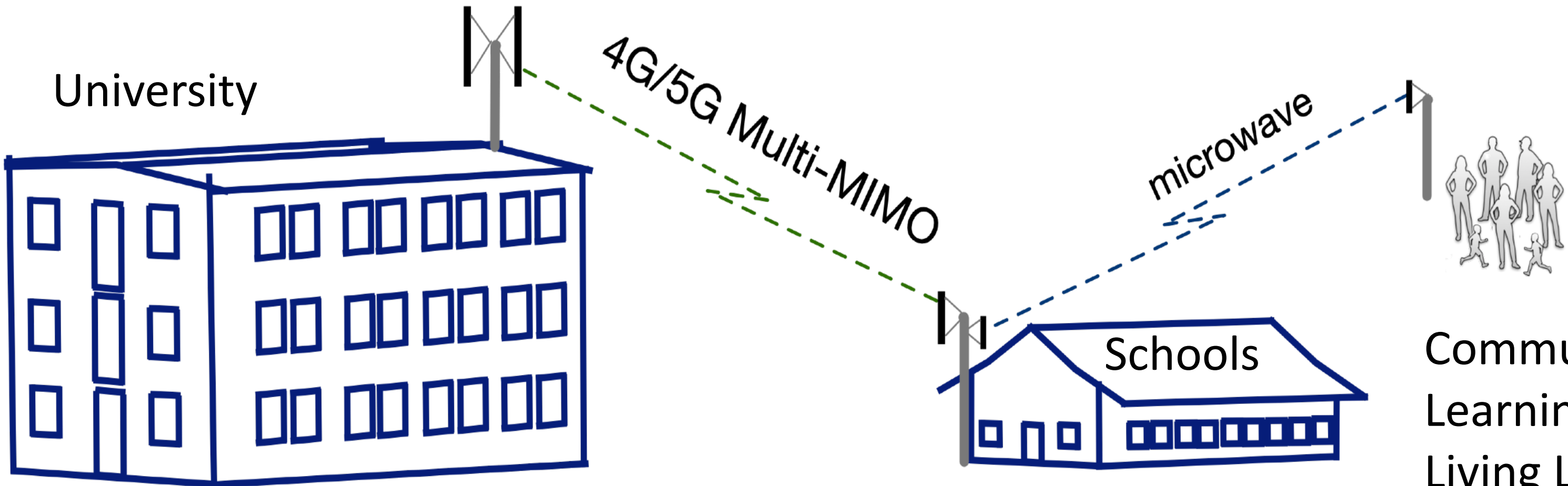
Uptake of Mobile Internet

Recommendations for Policy Makers

Policy makers

- Targeted policies and regulations to address the **cost of access** and the negative consequences, e.g. digital divide
- Instantiate the Digital Public Infrastructure (DPI) to ensure an inclusive access to mobile Internet
- Support efforts to increase digital literacy and the use of mobile internet for **women's empowerment**.

National Research & Education Network (NREN)



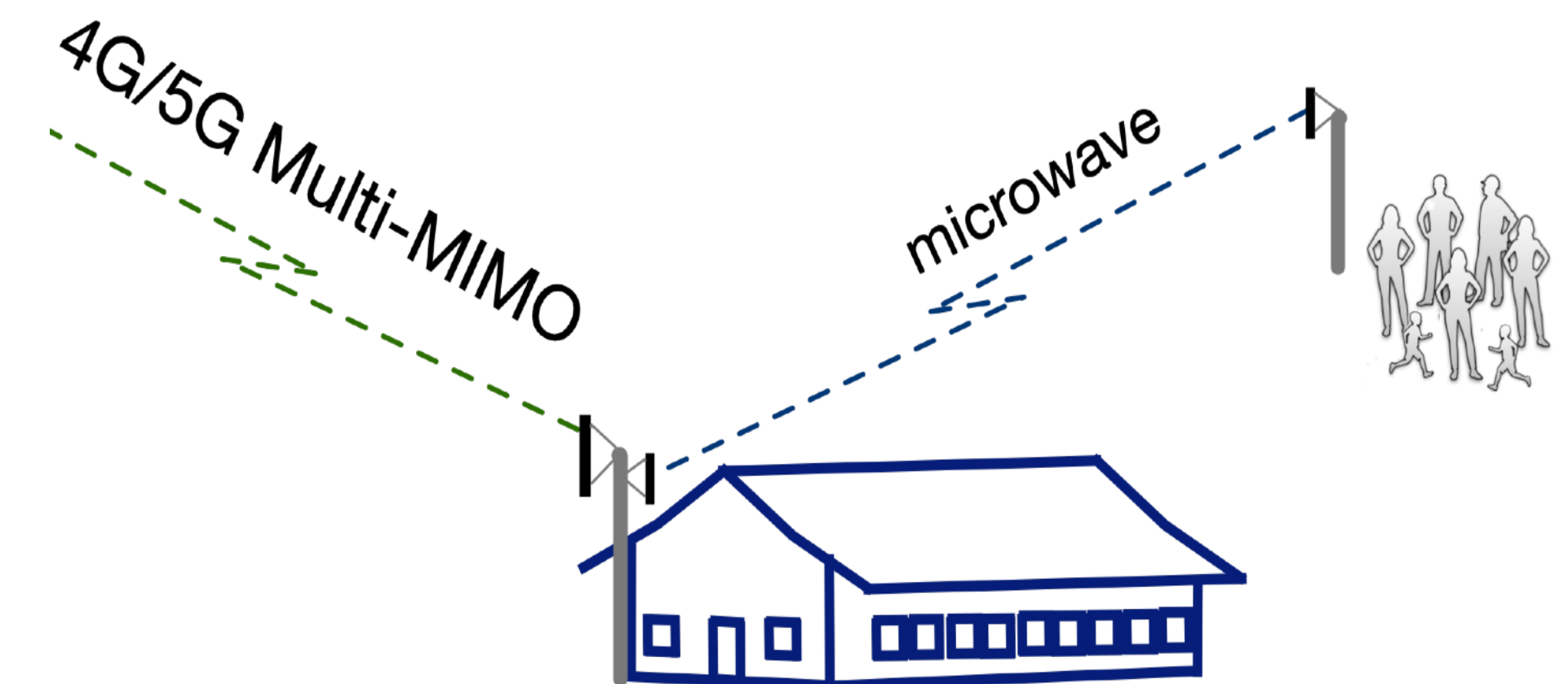
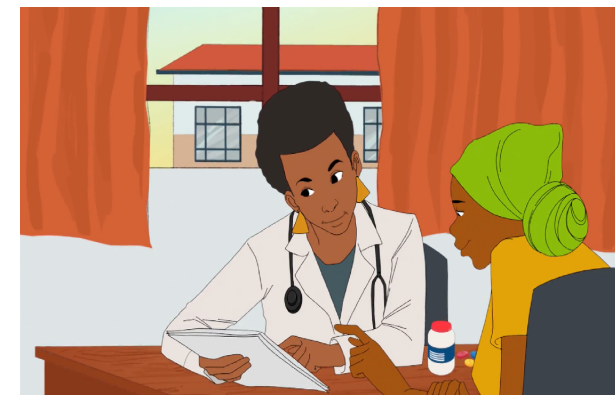
Community Learning & Living Labs (CL3)

[Source: Final Report, EGM Mobile Internet, https://its-wiki.no/images/b/be/D4-D5-EGM-ExecSum_FinalReports.pdf]

“Digital Health Promotion for Digital Public Infrastructure” DHP4DPI project



- NFR funded collaboration
 - Jimma University, NIPH (FHI), UiO
 - 2026-2029, 6.25 MNOK
- Focus: 229 weeks of exchange Norway - Ethiopia
 - 32 exchanges ET to NO, 1 week to 5 months
 - 15 exchanges NO to ET, 1-4 weeks
 - 2 summer schools
- Focus areas
 - DHP, DPI, local AI for community health



Schools, Health Stations, and Community Learning & Living Labs (CL3)



Invitation - let's cooperate for Health Information for All



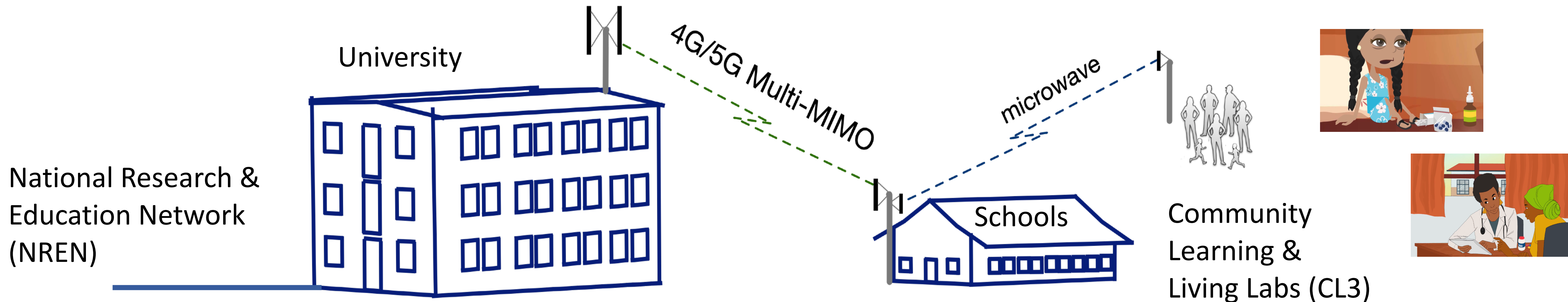
Additional Slides

Instantiation of Digital Public Infrastructure

collaboration by

- University to build Regional Competence Centres (RCCs) and connect via NREN and 4G/5G
- Mobile Operators to share infrastructure

- Government to support School Connectivity & CL3
- NGOs to establish digital friends and empower the community





Mobile Internet uptake

Recommendations for Researchers and Practitioners

Researchers *under-researched aspects*

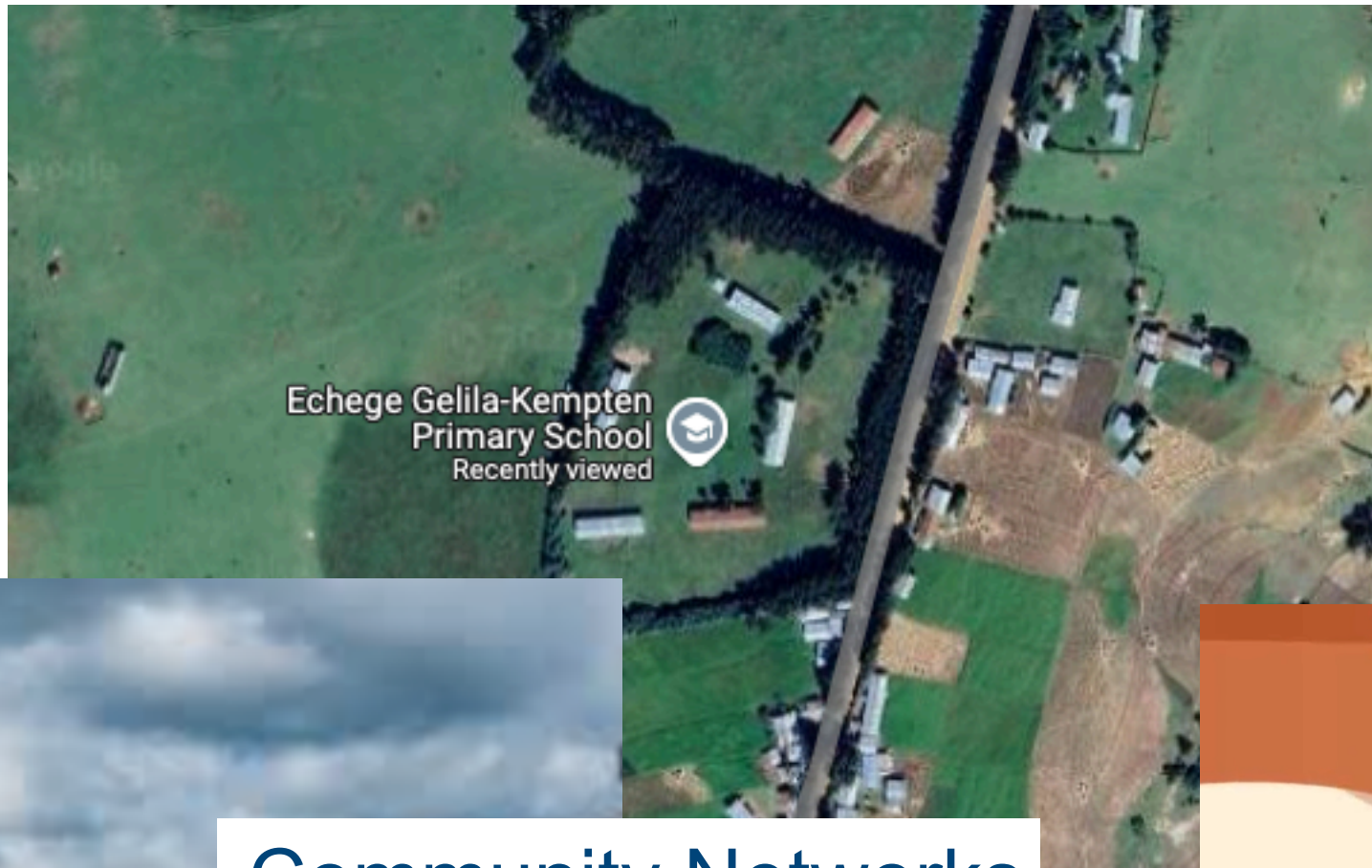
- Policies and regulations
- Digital literacy
- Role of service providers
- Negative uses and consequences

Practitioners

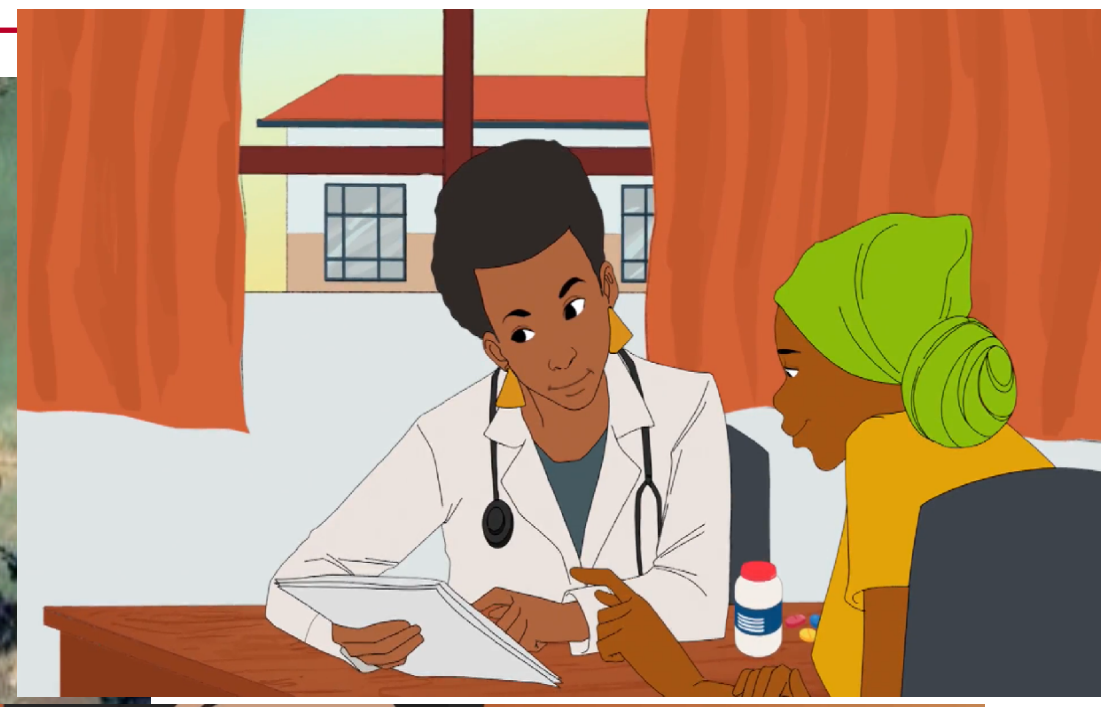
- Nuances of digital literacy and user profiles - **meet user needs**
- Innovation: inclusive business models, governance processes to address **cost**, **cultural** and **societal norms** hampering women



University students connect schools



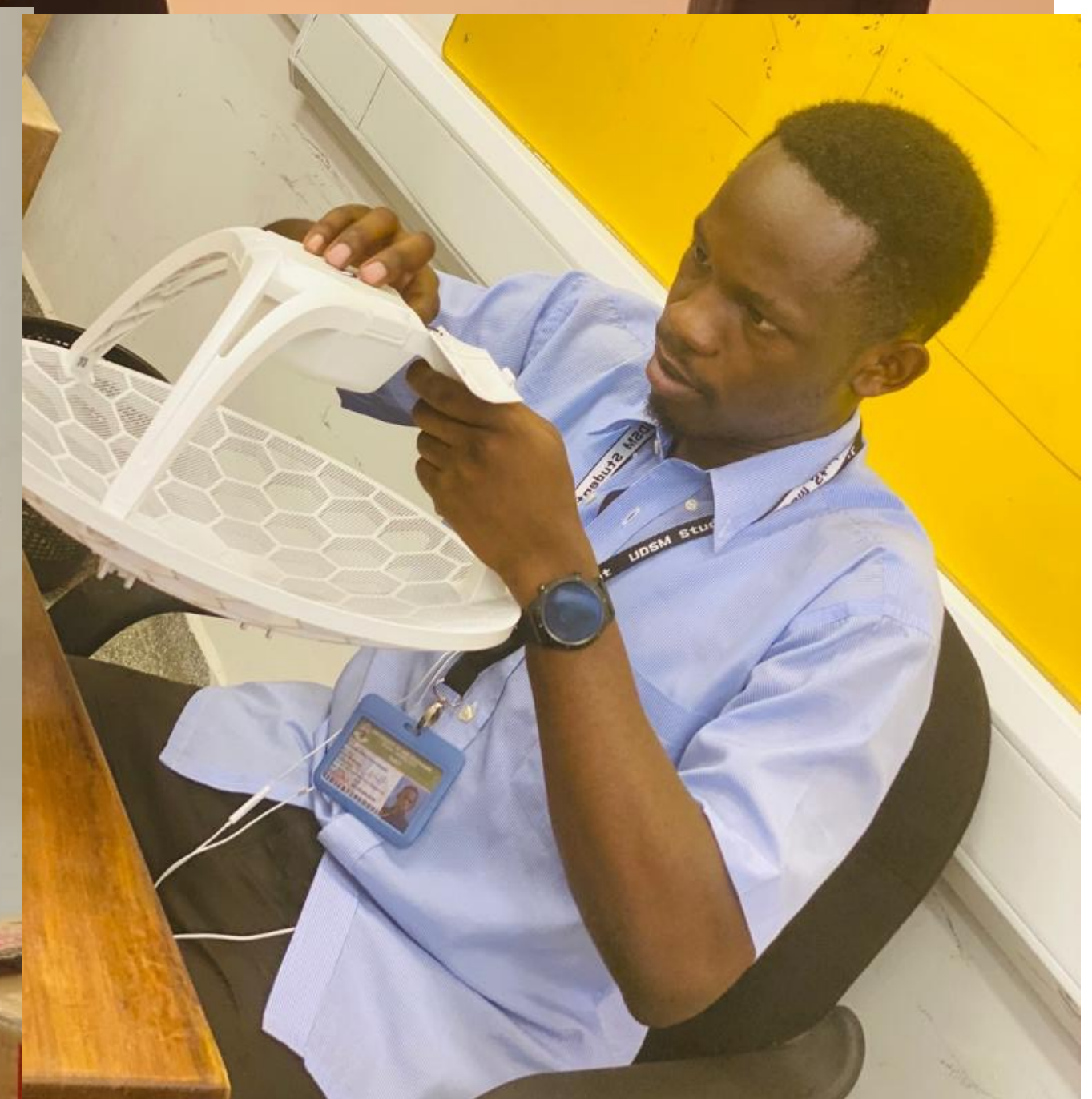
Community Networks



[Source: Final Report, EGM Mobile Internet, https://its-wiki.iio/images/b/be/D4-D5-EGM-ExecSum_FinalReports.pdf]

Regional Competence Centre (RCC)

- Competence, Configure
- Install at schools/communities

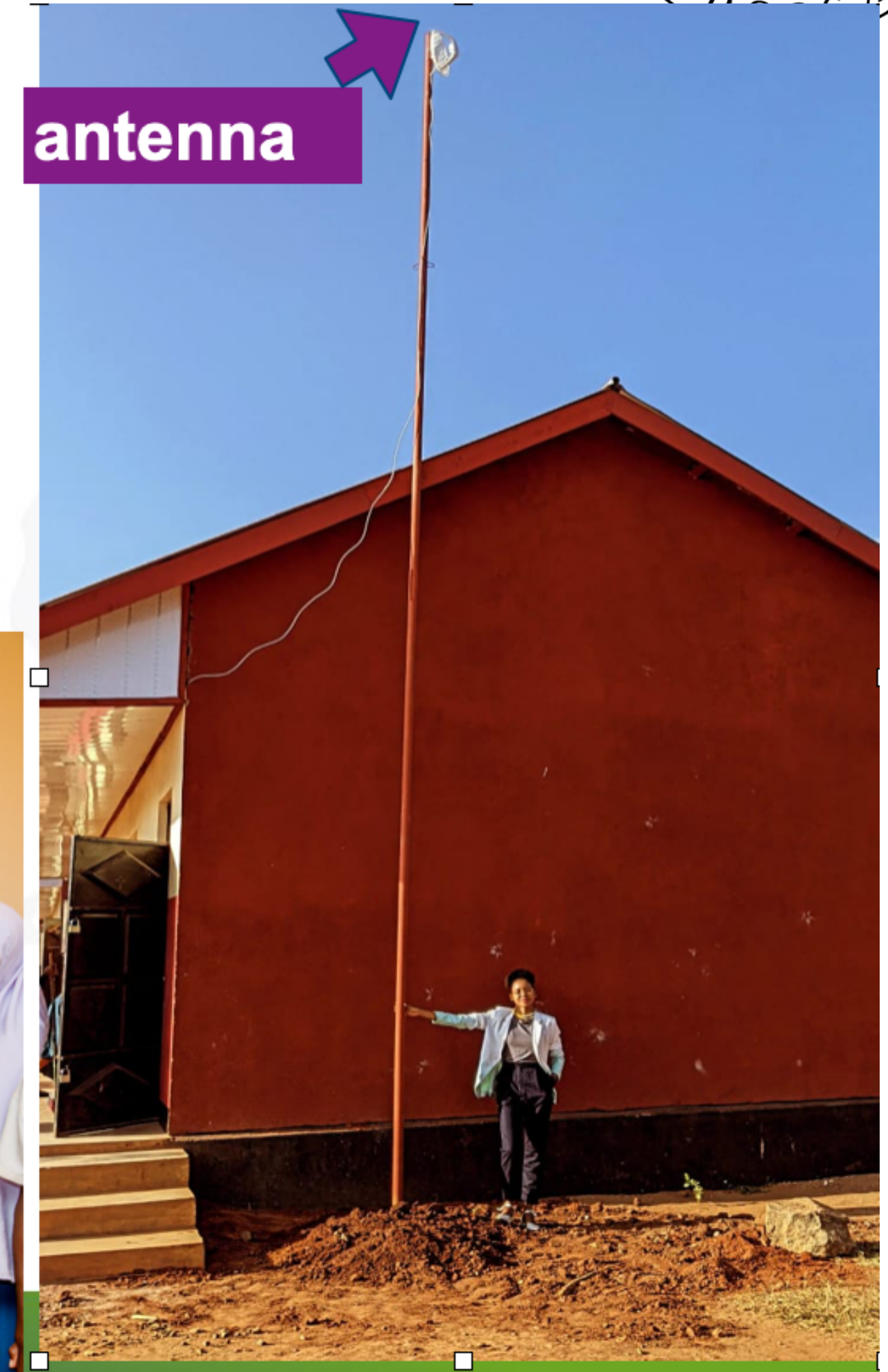




Schools/Communities



- Connect the schools
- Create content
 - Health
 - Education, Energy
 - Gov. Services



“Connect The Future” - Selela Market Place

antenna



- Antenna in 6 m height
- Reaches Tigo tower 20+ km away



“Connect The Future ” Izazi



Antenna

Village office

Installation time: 1,5 h
catching the signal from the Vodacom
tower in Migoli (~10km away)

Community Learning & Living Labs

- ➔ Trustworthy Access to Information
 - **Health**, Energy, Education
 - Agriculture, Entrepreneurship
- ➔ Inclusive & free access
 - for everyone
- ➔ Innovation
 - Adopt the model of the road
 - Free access to digital pedestrians and cyclists

