

Minodu

Fostering Local Sustainable
Development through Technology and
Research
(FKZ 01LL2202A)

03.06.2025 | Presentation @ Status Seminar



PROJECT TEAM

Séti AFANOU	Antonia KATTHAEN
Essolakina BOKOBANA	Damghane OUDANOU
Ousia FOLI-BEBE	Mikémina PILO
Friederike FRÖBEL	Victoire TSAMEDI
Carina LANGE	Jannes ULBRICH
	Gesche JOOST

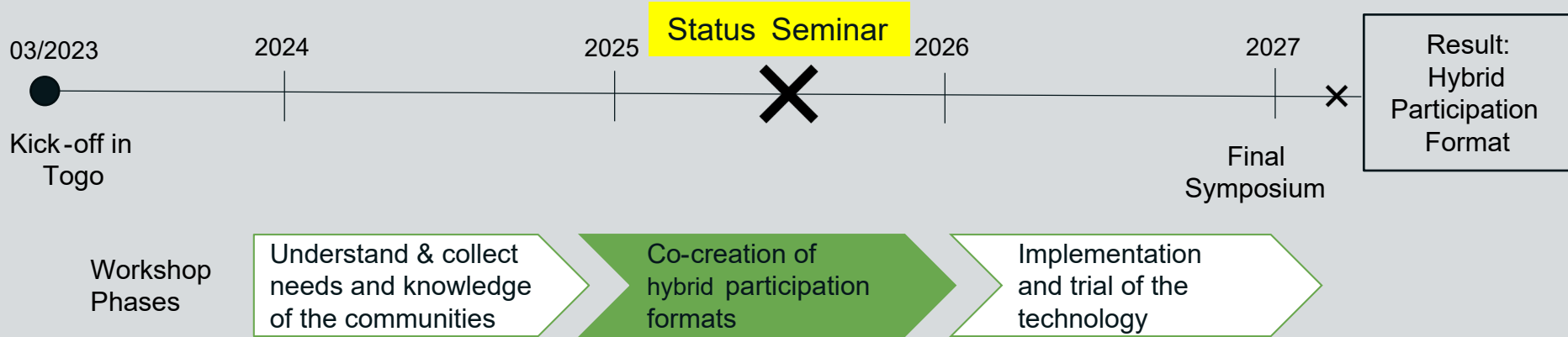


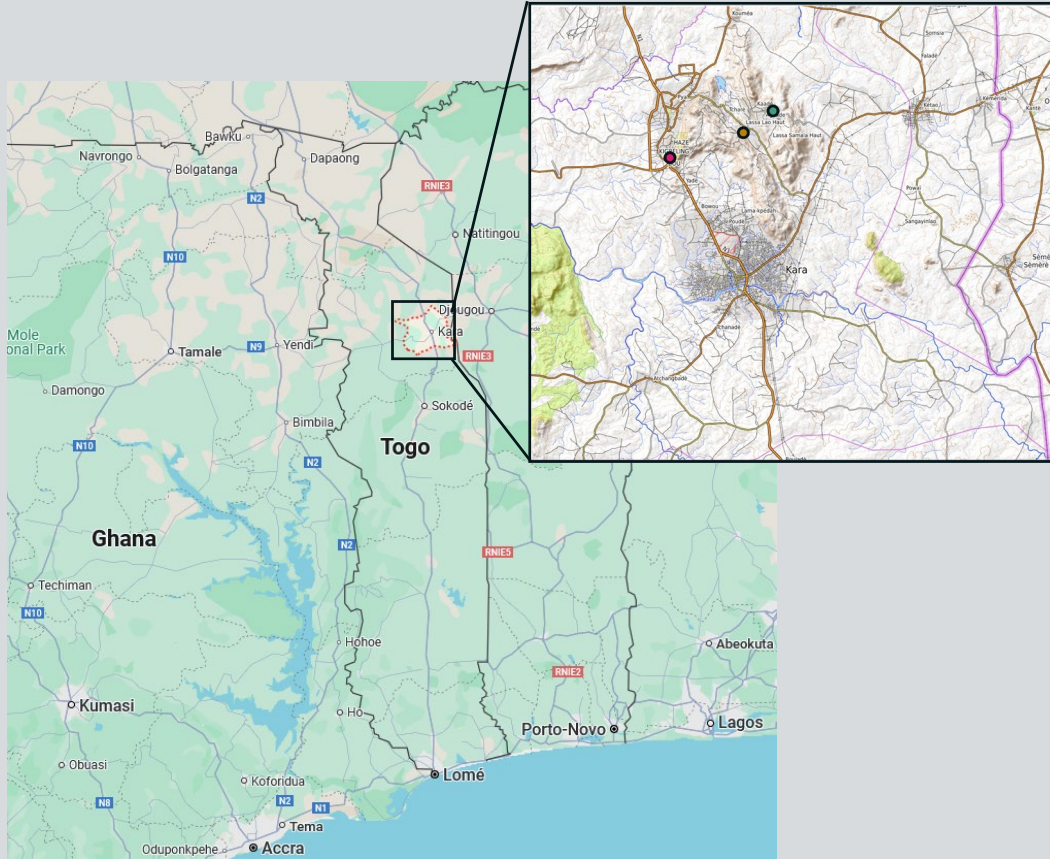
The Minodu Project Team

- Kara University (Togo)
- Local Leads, Technical Experts (Togo)
- DFKI (German Research Centre for Artificial Intelligence)

Timeline


We are half-way through and in the middle of the Prototyping Phase of our Local Community Network.





Copyright Google Maps




 Lama Saoudè



 Tchitchao



 Soumdina Haut



Preparing the Ground for Co-Creation

- What works well in the communities? (Appreciation!)
- What could be improved? How?
- Cultural Probes – Creating ideas for the design process

Partie 2 : Évaluation de l'efficacité d'une formulation biopesticide à base des huiles essentielles de *Cymbopogon schoenanthus* et d'*Eucalyptus globulus* - essai pratique dans la communauté de Tchitchao

04 et 06 avril 2024: La visite dans les communautés dans le but de confirmer la disponibilité des parcelles comme promis pour les essais pratique.



La parcelle réservée par la communauté de Tchitchao



En résumé le but de cette visite est atteint, les communautés ont prouvé leur désir pour l'élaboration de ces activités pratiques, et ont effectivement tenu à leur promesse de réserver des parcelles sur lesquelles nous allons travailler. A notre arrivée, nous avons fait le tour dans chaque communauté pour voir la partie réservée en commençant par Tchitchao, suivi de lama-saoudè et enfin somdina. Ce sont les trois communautés avec lesquelles nous allons travailler.

Research in Dialogue with Communities: Co-creation of Content

Credits: N'JOKU Gisèle



Prototyping with Communities

Paper prototyping with context-adapted icons



Prototyping with Communities

- Card Sorting Game
- Wizard-of-Oz Method for Click-Through-Prototype
- Design of Baobab -Interface

AP7



Prototyping with Communities

Modelling / Materialisation
of Local Community Network



Workshop Phase 2

Co-creation of
hybrid participation
formats

Done

- ✓ Participatory formats with students established
- ✓ First audio files/minipodcasts created
- ✓ Mock-up interface design

Ongoing

- Development of knowledge modules
- Requirements of the Local Community Network
- Prototyping of the Network
- Setting up the Local Community Network

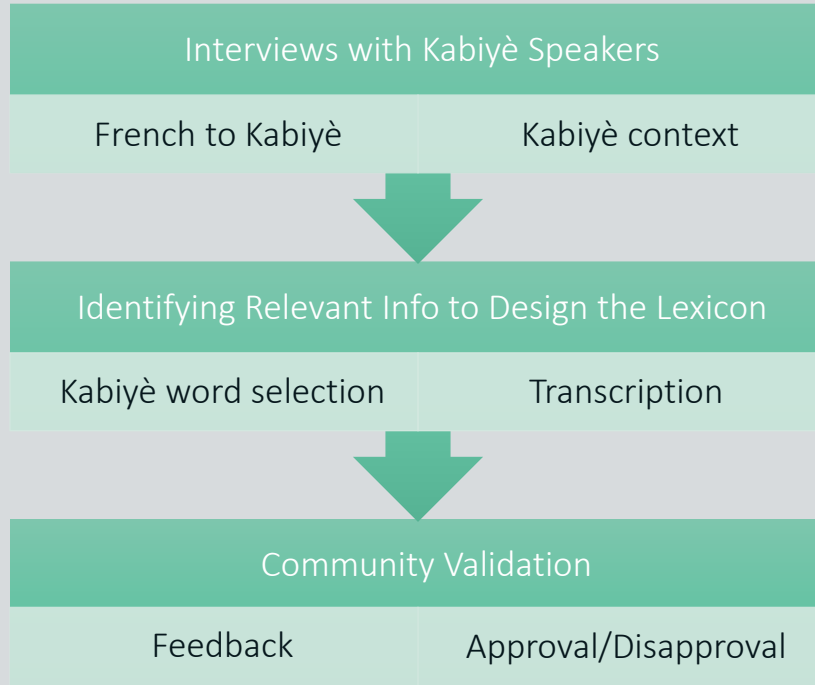
Developed & Set up an Audio-Recording Box at the Kara University Fablab



Goal: Facilitate audio "production ":

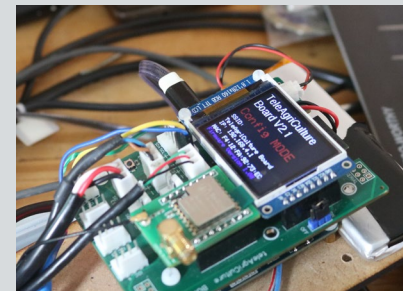
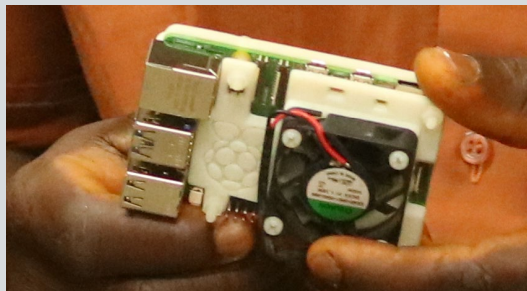
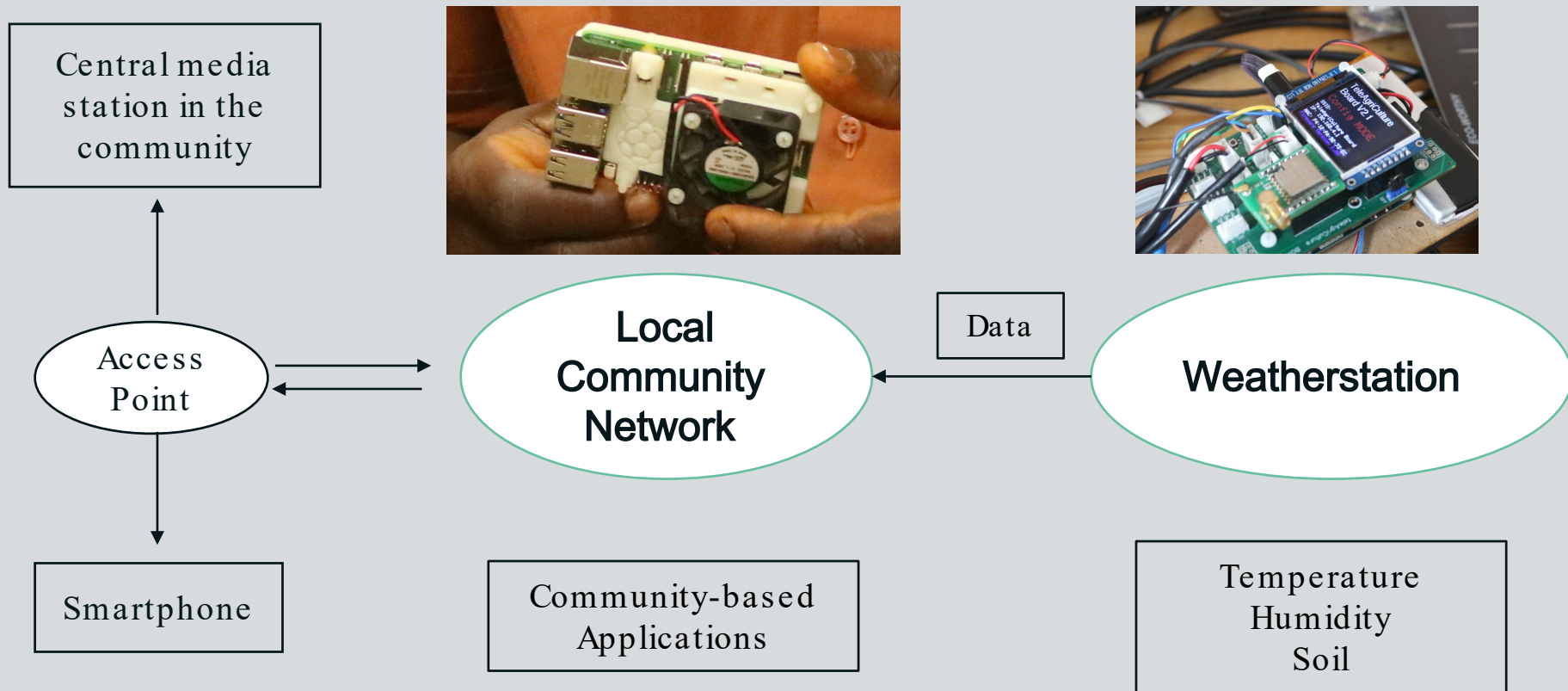
- Podcast, Audio, Interview recording
- Music recording
- Movie recording
- ...

Excursus: Linguistics in Agriculture



- Cultivates better understanding of local community needs & implementing relevant solutions
- Ensures access and understanding of agricultural innovations among local communities
- Understanding of local community values through language contributes to greater adoption of agricultural innovations

Local Network Infrastructure



Local Network Interfaces

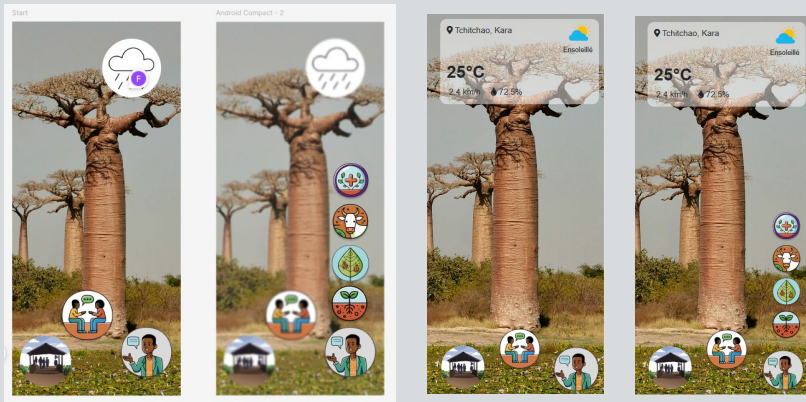
Click-Through Prototypes

Use & try different & multiple modalities

- Text-based
- Icon-based
- (Combination)

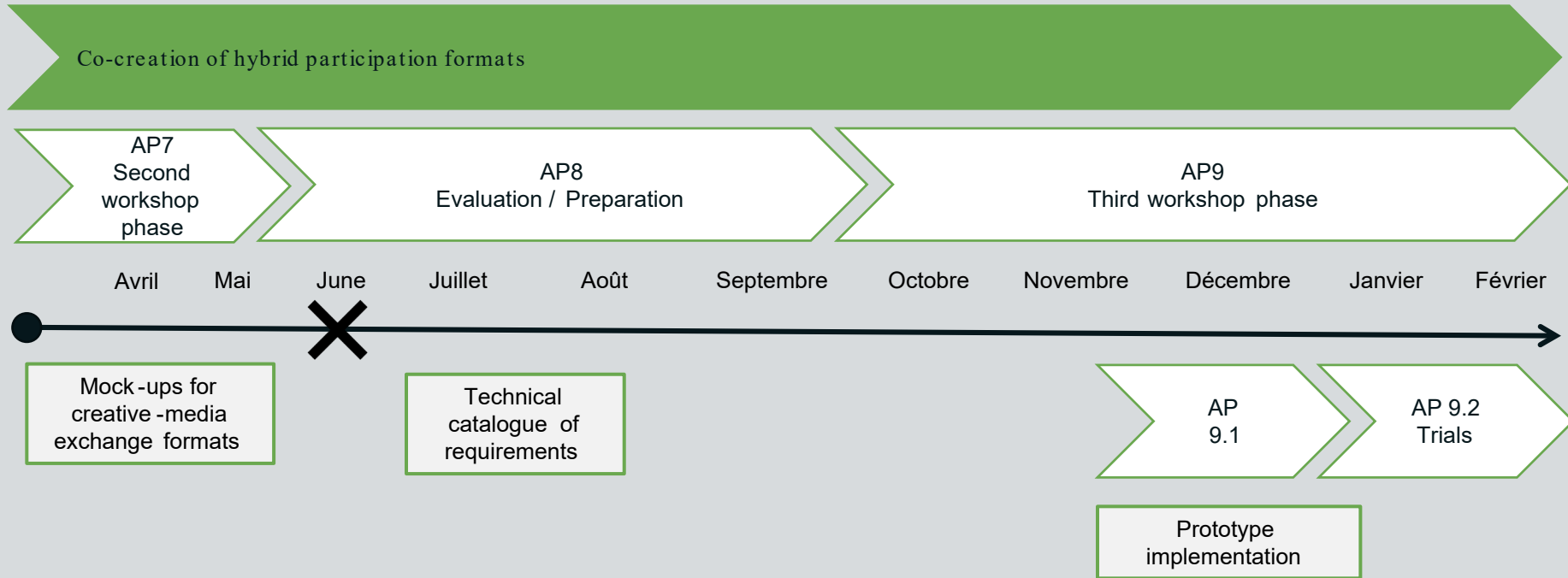
Styleguide

- Low-literate users
- Android-based applications
- Cultural and contextual significance of symbols



Zoom in: Our 3rd Project Year 25/26

AP = Arbeitspaket, Working Package



Publications and Outreach

- Berlin Open Lab Symposium 01/23 – *"Fostering Local Sustainable Development through Technology and Research in West Africa"*
- Weizenbaum Conference 06/2023 *"MINODU: fostering local sustainable development through technology and research. In Weizenbaum Conference "Practicing Sovereignty: Interventions for Open Digital Futures" (pp. 183-193).*
- Conference Entomologique de Côte d'Ivoire 05/24 *"Effet d'un traitement insecticide à base d'une émulsion aqueuse de l'huile essentielle d'Eucalyptus globulus Labill. (Myrtaceae) sur la chenille Selepa docilis Butler (Lépidoptères : Noctuidae) au Togo"*
- Tropentag 09/24, Poster Presentation, *"Sustainability of Sesame Farm Households supported by Orge NGO in the Savannes Region of Togo "*
- **In Publication :**
 - Book Chapter *"Rethinking Innovation: A Locally Anchored Approach to Participatory Design and Knowledge*, Handbook on Innovation in Africa, Howard University
 - Paper *"If I were a digital application , I would be ChatGPT: Student perspectives on digital technology in Togo"*, to be presented at AfriChi Conference 11/25

Publications and Outreach

- Re:publica 05/24 – *"Building Bridges:
Soldering for Climate Change Awareness"*
- Futurium Berlin 06/25 – Workshop *"Klima
auf die Ohren"*





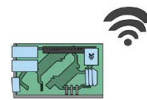
Let's solder together!

INTERNET

REPUBLIQUE TOGOLAISE

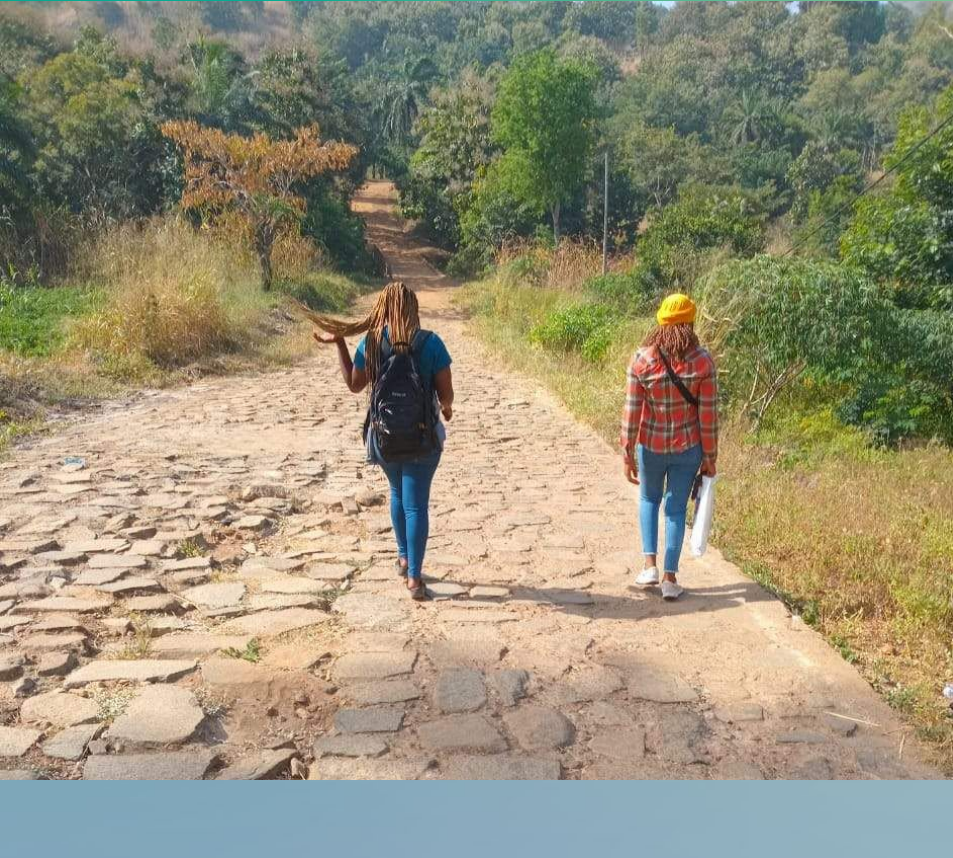
Interactive Insights @Status Seminar

Immerse yourself
into our project
with our photo
exhibition



Try out our Local
Community
Network Prototype





Outlook: Creating a Local Community Network

- More iterations of the prototype ahead
- Installation and pilot phase in the communities
- Working on partner structure to carry the project in the long term, maintain / scale participative courses at Kara University (content creation, maintenance)

Thank you for
your attention!



Federal Ministry
of Research, Technology
and Space

FKZ 01LL2202A