

CAMA Newsletter

„kama twende“ Swahili „let’s go“

Collaboration for Active Mobility in Africa (CAMA)



Project Overview

The Collaboration for Active Mobility in Africa is a Partnership for Sustainable Solutions initiative in Sub-Saharan Africa funded by the Federal Ministry of Education and Research Germany (DAAD) and the German Academic Exchange Service (BMBF).



Picture by Annika Röder

It has been some time since the last newsletter of our CAMA project reached you. We would like to inform you about the new developments in the project and present the current status of our joint research project.

We were able to work together in different areas like research

and education to achieve our project goal.

In autumn last year two summer schools were held in which the African partners were able to participate. In October 2022, the African partners were invited to Cape Coast in Ghana and in November to Karlsruhe in Germany.

In research new results were achieved. A broad-based survey was conducted between December 2022 and February 2023 to record active mobility behaviour in the cities of Mekelle (Ethiopia), Nairobi (Kenya) and Kampala (Uganda). In addition, a web application was developed in 2022 that can be used to directly assess the existing infrastructure, which is then

reflected in a geo-information system.

If you are interested in all these steps of the project, you will find detailed information on the next pages of our newsletter.

Project goal

The project goal is to Promote walking and cycling through;

- Data collection
- Development and uptake of tailor-made solutions
- Real-life experiments (living labs)
- Continuing Education for active mobility

MoveOn- International Summer School – Cape Coast, Ghana

The MoveOn Summer School was a joint project by the University of Kassel and the University of Cape Coast Ghana. More than 50 experts and experts-to-be from 15 countries met on-site in Cape Coast, Ghana, to discuss urgent topics on promoting active mobility.



Picture by Manuel Nii Martey

The summer school focused on the area of Sub-Saharan Africa. It allowed young researchers from this area to discuss their research topics, challenges, and ideas and to strengthen their methodological and practical skills. The participants (23 internationals and 28 Ghanaian) were a mixed group with well-experienced researchers, PhDs, postdocs, and young researchers. This enabled considerable learning among the groups with diverse professional backgrounds.

Six CAMA project members from four CAMA partner universities were also attending the MoveOn summer school. The team discussed the CAMA project survey and data collection process with the CAMA team.



Participants MoveOn summer school Picture by Manuel Nii Martey

The program encompassed three major events: an online kick-off introductory session, on-site summer school at the University of Cape Coast, and the online follow-up session held on September 8, 2022, October 9-15th, and November 17, 2022, respectively. The participants and organizers got a profound knowledge of the transport system and need in Ghana and Sub-Saharan Africa. They also acquired knowledge in certain research methodologies and in reporting the findings.

The MoveOn – International Summer School on sustainable mobility was kindly funded by Volkswagen Foundation and Hübner und Kennedy foundations.

Summer School Hands on Sustainable Urban Mobility – Karlsruhe, Germany

The one-week international student workshop on sustainable mobility took place at Karlsruhe University of Applied Sciences (HKA) from 13th to 19th of November 2022. A one-day conference as part of the workshop week served as an intensive exchange for young academics on the promotion of cycling and walking.



Hands On Workshop 2022 Picture by Sophie Bruckner

Cities around the world are facing major challenges in improving the sustainability of their transportation systems. Students and future trans-

portation planners benefit in many ways from a mutual exchange about successful concepts and their boundary conditions. For this reason, the University of Waterloo, Mc Gill University and Karlsruhe University of Applied Sciences developed an international exchange program in 2011 that includes workshops, professional seminars, conference presentations and faculty dialogue. In recent years, the exchange has expanded to include various exchange programs such as Sustainable urban Mobility in Manila, Collaboration for Active Mobility in Africa, and additional university partners. The aim is to sensitize students, young scientists, and lecturers to the topic of sustainable urban mobility and, in particular, the promotion of walking and cycling, and to promote international dialogue. The treatment of transport topics is not only of a technical nature but is also designed to promote cultural understanding and social norms.

For this year's student workshop "Hands-on Sustainable Urban Mobility", to which the study program Transport System Management had invited, 80 participants from eight international partner universities of Karlsruhe University of Applied Sciences. The event also included a one-

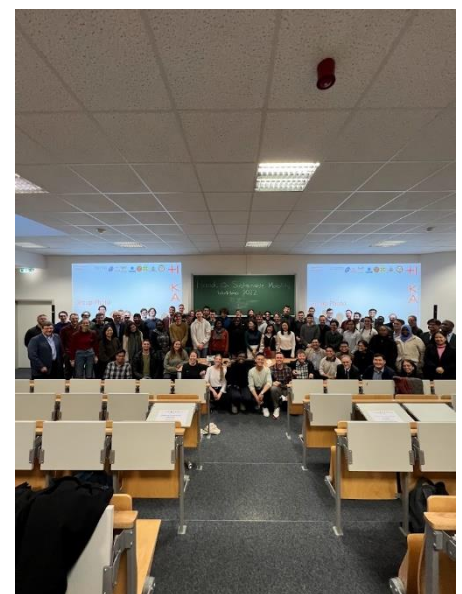
day international conference on Tuesday, November 15th, entitled "The Science behind Hands-on Sustainable Mobility" with 14 speakers and 80 participants. For the first time after two years of the Corona pandemic of online events, partners were able to meet again on-site in a presence at HKA. Partner universities include the University of Kassel (Germany), the University of Waterloo (Canada), Mc Gill University (Canada), the University Centre of Brusque - UNIFEFE (Brazil), the School of Urban and Regional Planning of the University of the Philippines (Philippines), the University of Nairobi (Kenya), Makerere University (Uganda), and Kyrgyz State Technical University (Kyrgyzstan).



Hands On 2022 Picture by Devin Feng

The workshop focuses on advancing the concept of sustainable mobility and deriving best practices from

international experiences. The focus this year was on active mobility, an important component of sustainable mobility that has often been forgotten in research and planning. Walking and cycling have personal (good local accessibility, low cost) as well as social (emission-free, efficient, space-saving) and health benefits and are therefore essential for sustainable mobility. Students worked on different tasks in mixed groups, sharing experiences, comparing different approaches and learning from each other. At a symposium at the end of the week, the student groups presented their analyses, visions, concepts and sketches for "promoting active mobility".



Hands On 2022 Picture by Sophie Bruckner

At the conference, "The Science behind Hands-on Sustainable Mobility," the focus was on applied research, real-

world case studies, urban or living labs, action research, participatory design, among others.



Hands On 2022 Picture by Sophie Bruckner

The conference focused on the following sets of questions:

How are walking and cycling promoted in cities worldwide?

Which approaches to promote walking and cycling can be transferred internationally and where are locally adapted solutions needed?

How can applied research contribute to the promotion of active mobility? The workshop and conference are partly funded by two international projects: "Sustainable Urban Mobility in Manila" is a project within the Baden-Württemberg-STIPENDIUM for Students - BWS plus, a program of the Baden-Württemberg Stiftung. The project "Collaboration for Active Mobility in Africa" (CAMA) is funded by the Federal Ministry of Education and Research and the German Academic Exchange Service.

Work Package one - Online Survey finalized

As part of the first work package an online survey was conducted in Nairobi, Mekelle, and Kampala from December 2022 to March 2022. The University of Kassel was the lead for this specific working package.



Data collection in Mekelle, Ethiopia Picture by enumerators in Mekelle

The survey's main objective is to better understand the active mobility users' perception, preferences, daily experience, and individual barriers to active mobility by providing a deeper insight into how cyclists and pedestrians feel as well as the distances cycled or walked.

The survey was a structured questionnaire and contained four main parts: sociodemographic data, users' experience, preference, perception towards active mobility, existing infrastructure, and recommendations. The survey was set up with all project partners and tailored to the local circumstances to give a deep understanding of the

mobility conditions and needs in those areas. During the data collection, we tried to include heterogeneous groups of society as target groups. Private wheel drivers (PWDs), cyclists, pedestrians, and business premises owners were among the selected target groups.

Initially, it was planned to collect 1200 samples, 400 from each country. 1367 data sets were finally collected and more than 110% of the planned target was achieved.



Data collection in Nairobi, Kenya Picture by enumerators in Nairobi



Data collection in Kampala, Uganda Picture by enumerators in Kampala

Currently preliminary results and analysis are underway.

Work Package two Crowd Mapping

As part of the second work package, crowd mapping was performed using a web application. The joint development of the application was carried out in 2023 in various successive steps. The final first use cases were collected in May 2023.

The classical participation approach in mobility research and urban planning involves panels, discussions and workshops. Those are mainly targeted towards local residents of urban districts. A big part of the relevant demographic cannot be reached using these participation instruments. Additionally, in contrast to car, cyclists and pedestrians are not very well covered in mobility research in sub Saharan Africa.

We tackled these problems and designed and implemented a user-centred and in-situ participation approach for pedestrians, using a platform independent crowd mapping tool web app to engage pedestrians while walking.



Data collection in Kampala, Uganda Picture by enumerators in Kampala

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The final first use cases were collected in May 2023.



Data collection in Kampala, Uganda Picture by enumerators in Kampala

Workpackage three Living Labs

In early June 2023, the Karlsruhe University of Applied Sciences team and the Mekelle University team travelled to Nairobi and Kampala and worked on-site with about 30 stakeholders in each city to develop concepts to implement Living Labs on the ground. You can read about the planned implementation in the next newsletter. There are still many exciting implementations in the CAMA project, so stay tuned and keep reading our newsletter.

Your CAMA Team!

Impressions of the joint meeting in June 2023:



Figure 1 Stakeholder Meeting in Kampala, Uganda
Picture by Hidaya Namakula



Cycling with stakeholders in Kampala, Uganda,
Picture by Amanda Ngabirano



Mekelle University Team in Nairobi, Kenya, Picture
by Catharina Lutz



Stakeholder Meeting in Nairobi, Kenya, Picture by
Martin Bejarano

For more information and updates about us and our project check our websites and follow us on social media:

<https://cama-project.com>

www.uni-kassel.de/go/radverkehr

<https://www.h-ka.de/en/ivi/profile>

Linkedin: Radverkehr und Nahmobilität | Cycling Lab | Universität Kassel