



# COLLABORATIVE BUILDING WORKSHOP

RURAL  
COMMUNITY  
MARKET



# BACKGROUND

This workshop is part of a wider initiative started in 2018, to introduce sustainable construction materials to an area whose environment has been greatly affected by the deforestation caused by the production of fired bricks. Based in Maji Moto, Tanzania, the project aims to bring together environmental awareness and community resilience.

Maji Moto is a rural village in Arusha Region, Tanzania, with a population of around 1,200 inhabitants, most of them from the Maasai community. Local families rely mostly on agricultural activities, though pastoralism still plays an important role in the local economy. The rapid and ongoing deforestation in the area, which started over the last forty years and that is mainly induced by the production of fired bricks for construction use, is increasingly threatening the community and its livelihood as it worsens the adverse outcomes of seasonal weather conditions and intensifies the consequences of climate change-induced extreme weather events.

As such, the objective of this initiative has been to collaborate with the local community to provide and encourage the use of alternatives to the large use of fired bricks in the construction process.





Together with C-re-aid NGO, we have introduced the use of sustainable building techniques which employs locally-sourced materials, as the Compressed Stabilised Earth Bricks (CSEB). In order to achieve the set objectives, we have completed in the last few years the construction of several public buildings using the CSEBs technique, such as a public health centre, a toilet block, a doctor's house and a school classroom (with the collaboration of Poa Projects and Studio Totale).

The process of construction has served as a tool and trigger to train local workforces, sensibilsise communities on the issue of sustainable building material and activate circular economies by employing women's groups and individuals with technical and non-technical expertise.



Pictures from top to bottom:  
Maji Moto dispensary  
Maji Moto primary school  
Maji Moto toilet block  
Maji Moto dispensary (inside)

# THE PROJECT

Within the scope of this initiative, the rural community market is a care infrastructure project that will serve two goals at once: meet the needs of the community and raise awareness on the use of CSEB.

On one side, women's groups have argued for the need of having an hygienic, safe and shaded place where to sell their goods. Currently, women sell directly on the ground, often with their young children, and when the weather conditions actually allow it.

As Maji Moto is an agriculturalist Maasai village, having a place where women can safely and reliably sell products such as vegetables, fruits or else is key for women's economic resilience as well as for their own and their families wellbeing.

The local government has already defined an area in the village centre where the market will be located. Two years ago, several women tentatively built several shops in that area, which quickly got destroyed by the damaging effect of the weather on the poor quality of materials and structure used.





On the other side, with the construction of this market, we also expect to make the most of the use of CSEB, provide further training and continue raising awareness for the local community. This project is a great opportunity to feature the different building possibilities allowed by CSEB bricks, in terms of structure, aesthetics and versatility (other local low-impact materials will also be considered for the construction).

### Why do we need you for this project?

This initiative is a trainee-funded project. This means participants are needed to fund and deliver the project.

*The total cost of the project is estimated to be around 4.500€. Participants will have to fund the project through fundraising activities for an amount of 1.500€ each.*

With this two-month workshop, our objective is to turn this project into an opportunity for participants to learn tangible sustainable building techniques, gain a working knowledge of rural and community development, rethink the approach to care infrastructure and build from the group up a locally-engaged and ethically-delivered project with social impact.

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## KEY INFORMATION

**Location:** Maji Moto, Arusha & Moshi, Kilimanjaro, Northern Tanzania

**Start dates:** Dates to be confirmed (between mid July and mid September)

**Duration:** Up to 8 weeks

**Workshop fees:** €1,050 (see page 12 to see what is included and excluded)

**Project funding:** €1,500

**Open to:** architecture, engineering and international development students, architects, engineers, young practitioners willing to make an impact, learn and live a vibrant adventure.

*Please note that this project will go ahead as planned, global guidance on international travel permitting.*



# YOUR ROLE

The project participants are a core component of the rural community market project and hold a very important role in the delivery of the project.

Trainees will be required to manage the project from the design to the construction of the marketplace taking into account the site and broader context's specificities while keeping track of the spending to ensure it fits within the assigned budget.

Alongside the project's staff and local partners, the workshop team will be composed of 4 members: 3 will be assigned to the site to do the architecture work (2 international participants and 1 Tanzanian student) and 1 will work on the project management side.

## What will you be doing?

### ALL TRAINEES:

- Before the start of the project, raise €1,500 each to fund the project cost
- Work collaboratively on the design and conception of the marketplace
- Material procurement and budgeting
- Attend and contribute to all the workshop sessions, including the pre-project online introductory session on cooperation and development.
- Work on a post-project report of the project design's sustainability.



## What will you be doing?

### ARCHITECTURE/ENGINEERING ROLE:

- Prepare an action plan for the whole construction process
- Draw construction details and definition of the project's materials
- Engage with the local community to understand their needs and design accordingly
- Coordinate on-site work and adjust it every week according to the different challenges that appear throughout the process
- Help and assist on site with the local workers and bricklayers.

During construction, the students will work alongside local masons and helpers in the construction of the market. Works on site includes but not limited to:

- Clearing the site.
- Digging and building foundation
- Bricklaying
- Painting
- Landscaping,
- Any other construction associated works.

*For this role, we are looking for someone with a background in architecture, engineering or/and urban design with an interest in community-led projects. The trainee should be willing to team-work, have drawing skills and ready to get their hands dirty on site. Students applicant must be starting a postgraduate program or be at least in the year 4 of study.*

## What will you be doing?

### PROJECT MANAGEMENT ROLE:

- Record and monitor spending and progress on the site
- Document and produce content on all aspects of the project (construction, social impact, etc.):
  - for internal use such as gate review report, reporting to the host NGO
  - for external use such as storytelling for social media, blogs, etc.
- Engage with village inhabitants to understand how to increase the social and economic impact of the project
- Assist on the construction site as required, for instance with the procurement of construction materials in Arusha town (with the assistance of the foreman)

*For this role, we are looking for someone with a genuine interest in community-led development, strong organisational skills, a flair for storytelling and presenting content in an engaging way. The right person will also be willing to help out on the construction site when necessary.*



## A collaborative work with other trainees and local support:

International trainees will be teamed up with a Tanzanian architecture student during the design and construction of the project. As a key member of the team, the student will also help with the Swahili-English translation among the construction team and with local residents.

Your contribution to the project will support the experience of the Tanzanian student and will open up opportunities for him/her to work in a multidisciplinary and international team.

## Enjetare

Enjetare will be our host NGO while in Tanzania. Based in Moshi, Enjetare's vision is to use architecture to mitigate poverty and improve educational facilities.

Msafiri was born and raised in Maji moto village and works with Enjetare. He will be the project foreman, assisting in the material procurement logistics and coordinating the local masons and helpers.







The workshop will be split into four phases. We briefly outline below each of the phases:

### Pre-project phase:

Before the start of the project, we will meet up online for a 1-day introductory workshop (date to be confirmed). The objective of this training is to meet each other, discuss in more details the context of the project, and start together the project prep work. This will also be the opportunity to present the core values this project holds and understand as a group the principles of ethical engagement practices.

### Training and design phase - first 2 weeks:

This phase will involve site visit, workshop activities and meetings with the villagers to become familiar with the local context of the future community market. After that, the trainees will have some days to work on the design of the project that they will present to the villagers the following week. They will then be required to make a budget for the project taking into account the available funds and setting aside an emergence amount for any contingencies.





## Construction phase:

After the project design is completed and assessed, the construction will start in Maji Moto, where trainees will work 5 days a week, from Monday to Friday. Using public transport, trainees will return to Moshi for the weekend on Friday afternoons and will be required to travel back to the village on Monday mornings.

*Please note that trainees will be always accompanied by one member of the partner organisation from Maji Moto and assisted by the team members every time that will be needed.*

## Post-project phase:

This phase will be dedicated to the production of the post-project report of the project design's sustainability. Trainees will be expected to start producing this report throughout the whole project with the input of all participants. This report will be the support material for further research, competitions and publications.

## WEEKEND

Weekends are free so trainees can experience all the exciting activities and trips available locally and outside Moshi.



# EXPERIENCING THE LOCAL LIFE

This volunteering experience is as much about the project as it is to engage with local communities and learn from one another.

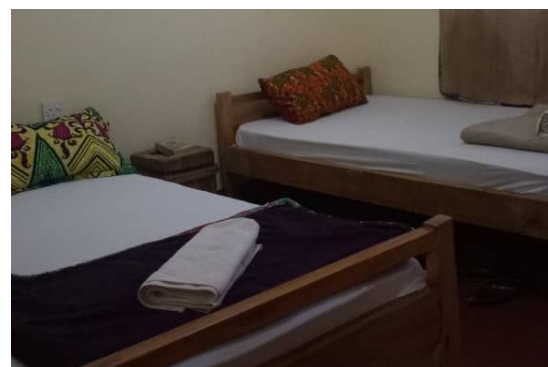
## Accommodation

### Training and design phase (weeks 1-2):

- Accommodation will be provided in Moshi (hostel). For practical reasons, food will have to be arranged by the trainee (because food in Moshi is very cheap and there is a lot to choose from!).

### On site (weeks 3-8):

- On weekdays (Monday to Thursday nights), you will immerse yourself in the daily life of a rural village. Families will welcome you in their home for shower, dinner and a well-deserved good night's sleep.
- On weekends (Friday to Sunday nights), you will have the opportunity to stay at a very friendly and chilled hostel in Moshi, which is a small and vibrant town at the bottom of Kilimanjaro (unless you decide to use some of your free time to explore Tanzania).

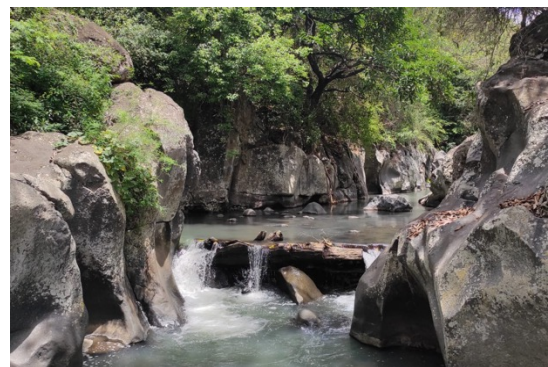


## Meals:

- All meals and drinking water on weekdays are included, at the exception of breakfast (only chai/tea will be provided by your host family). They consist of simple but very traditional meals such as rice, meat and beans or Pilau. *We will accommodate for any dietary requirements to the best of our ability and availability.*
- Meals on weekends are not included which will give you the chance to try some of the many restaurants and street food in Moshi!

## Free time:

Northern Tanzania is one of the richest regions in terms of places to visit and activities to do: safari in beautiful national parks, trekking on the slopes of Kilimanjaro, swimming in the hot springs of Maji Moto, going on coffee tours...





# FEES

**Fees:** €1,050 (c.€132 weekly)

## WHAT IS INCLUDED:

- 1-day online introductory workshops on ethical engagement practices, context setting and collaborative project preparation
- Off-site training activities including visit to CSEB manufacturers, study of buildings using sustainable building technique, etc.
- Workshop attendance certificate and reference (on request)
- Moshi airport pick-up on arrival and return transfer
- Meet & Greet welcome party
- Accommodation (see page 10 for details)
- Main meals and water on weekdays (see page 11 for details)
- 24h support whilst in Tanzania

## ALSO COVERED:

- The host NGO fees paid to Enjetare
- Staff basic compensation
- Support toward the training experience of the Tanzanian student


## WHAT IS NOT INCLUDED:


- Flights and visa
- Travel insurance
- Vaccinations and medication
- Extras - snacks, drinks, laundry
- Any trips and activities you will do in your free time


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# ABOUT US

The project team will be composed by a member of Un Refugio Colectivo and external collaborators from London and Tanzania.

	<b>NAME AND SURNAME</b>	<i>Cécile-Agathe Bouchet</i>
	<b>E-MAIL ADDRESS</b>	<i>cecile.bouchet@hotmail.fr</i>
	<b>COUNTRY AND CITY OF RESIDENCE</b>	<i>London, United Kingdom</i>
	<b>PROFESSION</b>	<i>Development consultant</i>
	<b>LANGUAGES</b>	<i>French, English and Italian</i>
<i>Cécile (1988) is a consultant in international and community development. Prior to that, she worked for over eight years in the financial industry in London. She holds masters in management from SKEMA Business School and an MSc in international development from UCL's Bartlett Faculty of the Built Environment.</i>		

	<b>NAME AND SURNAME</b>	<i>Nancy A. Arbogast</i>
	<b>E-MAIL ADDRESS</b>	<i>arb.nancy@gmail.com</i>
	<b>COUNTRY AND CITY OF RESIDENCE</b>	<i>Dar es Salaam, Tanzania</i>
	<b>PROFESSION</b>	<i>Architect</i>
	<b>LANGUAGES</b>	<i>Swahili and English</i>
<i>Nancy (1993), is an Architect at Epitome Architects Limited in Dar es Salaam Tanzania. She works with CRE-AID NGO in summer projects researching sustainable construction materials in the Maasai society through construction of the community facilities in their areas.</i>		

	<b>NAME AND SURNAME</b>	<i>Laia Gemma Garcia Fernandez</i>
	<b>E-MAIL ADDRESS</b>	<i>grclmm@unife.it</i>
	<b>COUNTRY AND CITY OF RESIDENCE</b>	<i>London, UK</i>
	<b>PROFESSION</b>	<i>Architect and Urban planner</i>
	<b>LANGUAGES</b>	<i>Spanish, Italian, English</i>
<i>Laia García (1992), is a PhD candidate at Ferrara University. She holds a MSc from the Bartlett Development Planning Unit, UCL in Building and Urban Design in Development. She is co-founder of Un Refugio Colectivo, a multidisciplinary group seeking to promote spatial projects through participatory action-research.</i>		

	<b>NAME AND SURNAME</b>	<i>Msafiri Loshilu Mollel</i>
	<b>E-MAIL ADDRESS</b>	
	<b>COUNTRY AND CITY OF RESIDENCE</b>	<i>Moshi, Tanzania</i>
	<b>PROFESSION</b>	<i>Construction Supervisor</i>
	<b>LANGUAGES</b>	<i>Swahili, Maasai, English</i>
<i>Msafiri (1977), is a co-founder of ENJETARE NGO and is working as a Construction supervisor to date. Enjetare's vision is to promote long-term socio-economic and environmental improvement across Tanzania. Msafiri is a Maasai native and has been a potential team member especially in matters pertaining Maasai history and culture.</i>		



## UN REFUGIO COLECTIVO

We are a group of professionals who, through spatial practices and using participatory action research, seek to promote projects that trigger social and environmental change. action research, we seek to promote projects that trigger social and environmental change.

The transdisciplinary nature of the team, committed to reality and tired of the orthodox ways of doing architecture, moves us to promote cooperative projects to promote cooperative projects facing contemporary problems of habitability, ecology, social and environmental justice.

Our practice is developed under a feminist perspective and with the ultimate goal of empowering the communities we work with, as well as promoting equality and diversity.

Since 2018 we have been working in Maji Moto driving the construction of several public buildings using sustainable and locally-sourced building materials, such as a health centre, an improved public toilet and a playground built with recycled materials.

