

fairventures worldwide

## Be part of the Timber Innovation Center in Kampala

The first Mass Timber Construction in Uganda!

**Fairventures Worldwide** 



## Who we are

Fairventures Worldwide (FVW) combines forestry and modern technologies to reforest degraded in FVW's areas the tropics. headquarters in Stuttgart, are Germany, and two other country offices are located in Uganda and In cooperation Indonesia. with farmers in Uganda and Indonesia, FVW plants fast-growing local timber and practices sustainable forestry on degraded land. This provides local people with a secure income from the timber, helps to biodiversity preserve and counteracts climate change.

However, FVW goes one step further and works along the entire timber value chain by promoting the use of fast-growing reforested timber as

Engineered Timber Products, such as Glulam (Glue Laminated Timber) or CLT (Cross Laminated Timber) in construction sector. With the Engineered Timber Products, FVW can increase the demand for these timber species and add value to them. At the same time, it reduces the demand for illegally harvested timber from the surrounding rainforests. FVW works with various actors along the value chain (architects, universities, carpenters, suppliers, associations, government agencies, etc.) and follows the approach of building self-sustaining and economically independent social businesses that contribute to improving the living conditions of the local population in the long term.



## Situation Uganda

deforestation Illegal of the rainforests in East Africa is progressing rapidly. In Uganda alone, the rainforest area has been reduced from 5 million hectares in 1990 to 1.9 million hectares in 2015. Uganda therefore has large areas of degraded land that have immense potential for sustainable reforestation into commercial forests to meet the needs the local timber of population. The Uqandan government wants to reforest two million hectares by 2030, which are then to be managed sustainably. FVW is contributing to this goal with its reforestation programs. Unfortunately, the demand for the illegally deforested tropical wood is still high, which is why a large part of the timber demand is still imported to Uganda from the Democratic Republic of Congo and South Sudan. The unstable political and economical situation favors the uncontrolled illegal logging of the rainforests.

Uganda has implemented a lot of reforestation programs in the last More than 20-25 vears. 460'000ha of plantation area have been developed with pine and eucalyptus, of which more than 30% are FSC certified. The uneven age structure of these trees is followed by an overflow of timber on the market in the coming years and the wood industry needs to be developed. In addition to low value products like pallets, firewood and electricity poles, high value products such as Glulam (Glued Laminated Timber) or CLT (Cross Laminated Timber) for the construction sector could add value to the timber. Due to the limited domestic supply of timber in the surrounding countries Kenya and (e.g. Ethiopia), Uganda has the potential to become the biggest of export country timber products in the region.

## **Our Goals in Uganda**

# Promote sustainable afforestation and demonstrate benefits of timber in the building sector

Fairventures Worldwide (FVW) wants to counteract the import of illegally harvested rainforest timber from Uganda's neighboring countries and support wood constructors with local timber from sustainable forestry, instead. In the process, the reforested woods are processed into high-quality wood products to demonstrate their versatility as a building material. The population all over the world, but especially in East Africa, is growing rapidly, so that many buildings will have to be constructed in the near future.

The construction sector has a major impact on global  $CO_2$  emissions, and therefore FVW is convinced that timber constructions are the solution of the future. Low weight and a high degree of prefabrication in the workshop are just some advantages of wooden structures. Wooden structures complement or replace buildings made of concrete and steel, and also provide long-term storage for  $CO_2$ . Because trees absorb  $CO_2$ during photosynthesis and store it over the long term,  $CO_2$  is reduced when wood is used as a building material because it is neither burned (which would in turn lead to the emission of the stored  $CO_2$ ) nor does it rot (which also releases the stored  $CO_2$ ). If you are in a building made of wood, you are in a huge  $CO_2$  store, so to speak.

# Establish a sustainable and economically independent timber construction company with local partners

In the near future, Fairventures Worldwide (FVW) would like to establish a timber construction company together with local partners from the construction industry in order to develop an economically independent company. In this social company, FVW will produce timber structures from design, planning and engineering to prefabrication and assembly on site in East Africa. In order to erect such timber structures, high-quality wood products such as Glulam are required. To ensure the supply of Glulam, FVW is supporting a forestry company to set up a simple production of Glulam, which can then be used for these constructions. This production is the first in Uganda and one of only few in the whole



Partner Company for the supply with Glulam timber

East African region. With many years of know-how from the established timber construction industry in Germany, Switzerland and Austria and in cooperation with local experts, FVW has a great and sustainable impact on the local timber construction sector in Uganda.



### Timber Innovation Center

In order to achieve the above objectives and to promote the transfer of timber construction know-how from Switzerland. Germany and Austria to Uganda, Fairventures Worldwide (FVW) will establish and manage a Timber Innovation Center in Kampala, the capital of Uganda, with a network of stakeholders different from universities, associations, the private sector and industry partners from Europe and Uganda. This network will share knowledge, skills and experience through workshops, seminars, training and events for various stakeholders in the wood sector across East Africa. In addition to theoretical training in the premises of the Timber Innovation Center, training will also be conducted in practical craftsmanship.

The planned Timber Innovation Center, which will be built entirely from FSC certified reforested wood, will be set up in a highly visible location on the unused roof terrace of an existing three-story building in the heart of Kampala and thus at the same time function as a lighthouse for wood construction in East Africa. With such a structure, FVW will be able to create public awareness of wood as a sustainable material and showcase the diversity of wood in construction in a very busy location in downtown Kampala. Together with a team of architects and engineers, an initial design for the project has been developed. The goal is to complete the construction of the Timber Innovation Center in 2022.

planned Half of the Timber Innovation Center will be used as a multipurpose room. This multipurpose space will be used by the Timber Innovation Center as a think tank and for educational activities such as seminars. meetings, workshops and promotional events, around the topics of forestry and timber construction in East Africa. The other half of the Timber Innovation Center will serve as office space for FVW's country office in Uganda.

FVW has formed a working group with various experts from the timber construction sector. The architects Löffler+Schmeling from Karlsruhe in Germany, the Bern University of Applied Sciences from Switzerland, and local partners from Uganda are involved and have developed an initial design for a wooden structure.



Roof terrace of the existing building in the heart of Kampala

# Timeline



## **Budget**

Timber Innovation Center Uganda	Costs	Costs Covered	Gap
Design and Planning	€6,000	€6,000	€0
Project Management & Timber	€100,000	€10,000	€0
Engineering Expert			
Needs assessment of the industry, market	€80,000	€80,000	€0
research & looking for potential partnerships			
Research on tree species and timber	€11,000	€11,000	€0
markets for mass timber construction			
Build up simple production for	€15,000	€5,000	€10,000
structural timber products (Glulam)			
Construction cost	€150,000	€0	€150,000
1st Timber Innovation Forum Event in the	€20,000	€5,000	€15,000
building / Following events during the 1 <sup>st</sup> year			
Total:	€382,000	€207,000	€175,000

#### **Gold Sponsor**

#### 20,000 €

- Using the Timber Innovation Center for events or trainings in consultation with Fairventures Worldwide
- Signpost on the Timber Innovation Center
- Invitation for the opening event with speech slot at opening event. (\*Travelcosts covered by sponsor)
- Media package with pictures and reports about the Timber Innovation Center for your publicity
- Linked to different social media posts during the construction phase
- Named in promotion video about Timber Innovation Center

#### **Silver Sponsor**

#### 10,000 €

- Signpost on the Timber Innovation Building
- Invitation for the opening event (\*Travelcosts covered by sponsor)
- Media package with pictures and reports about the Timber Innovation Center for your publicity
- Linked in different social media posts during the construction phase
- Named in promotion video about Timber Innovation Center

#### **Bronze Sponsor**

#### 5,000 €

- Media package with pictures and reports about the Timber Innovation Center for your publicity
- Linked in different social media posts during the construction phase
- Named in promotion video about Timber Innovation Center

#### **Become part of our Timber Innovation Center**

Below are three ways to support. In each case of support, their commitment can be communicated to the public and our reports shared in their networks. We are interested in any form of support and are open to discuss individual offers.

#### Do you have any questions or would you like more information?

Thank you very much for your interest in our work and for taking the time to learn more about our project to reforest local timber with smallholder farmers and promote timber buildings in Uganda.

If you have any questions or would like more information about our planned Timber Innovation Center, please feel free to contact our project manager, Mr. Simon Bosch, who is working on the ground in Uganda. We look forward to hearing from you. fairventures worldwide

### Contact: Simon Bosch Project Manager MTCEA

E: simon.bosch@fairventures.org T: +41 79 960 81 89 / +256 770 665 606 W: www.fairventures.org

In partnership with







