

**SPONSORSHIP**

**DOSSIER LIBRARY NUNGWI**

**C-RE-A.I.D.**

**RESEARCH-ARCHITECTURE-INNOVATION-DESIGN**

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# A | INTRODUCTION

Dear potential donor,

**C-re-a.i.d. - Change Research Architecture Innovation Design - is a non-profit organization operating in northern Tanzania since 2012 and since 2016 we started a new branch in Nungwi, Zanzibar. Through experience and analysis we discovered a rapid changing building culture, poor living situations and the use of unecological materials. We explore the possibilities of architecture to promote long-term ecological and affordable building.**

Over the years C-re-a.i.d. has realised no less than 26 projects. Notwithstanding the fact that all of our projects differ in scale, in environmental and social conditions, and in materials used, they all have one thing in common: an ongoing quest to unite sustainable architectural innovation and social upliftment. Our vision states that architecture is much more than a tool to merely enhance material conditions. By introducing a more sustainable and a affordable building method, we strongly believe our projects have the ability to trigger social and economic change in a poverty stricken region.

This year we are focussing to contribute to Nungwi with a large community project. Since the beginning of 2017 our team has been working hard to find partners and to design a library in a participatory design with the pupils, teachers and headmaster of Nungwi Primary and Secondary School. We have come to an ideal design that will serve the students and community members and in May 2017 we have started construction with the first funds that we received.

Now we reach out to you in order to assist us to collect the additional funds to continue building and finalise this wonderful project.

Freya Candel

Founder & Executive Director of C-re-a.i.d.



# B | THE PROJECT

## ONE LIBRARY – TWO CAUSES

The library offers us the opportunity to tackle two issues at the same time: clearly the program enables students as well as community members to access knowledge in all its forms, in addition we would like to take the opportunity to re-use waste as a construction material. The design itself is divided into two volumes: the main volume provides students with a quiet space to study and read and the smaller building enables students to communicate with one another after hours. The in-between landscape separates and joins the two together at the same time.

### ACCESS TO KNOWLEDGE



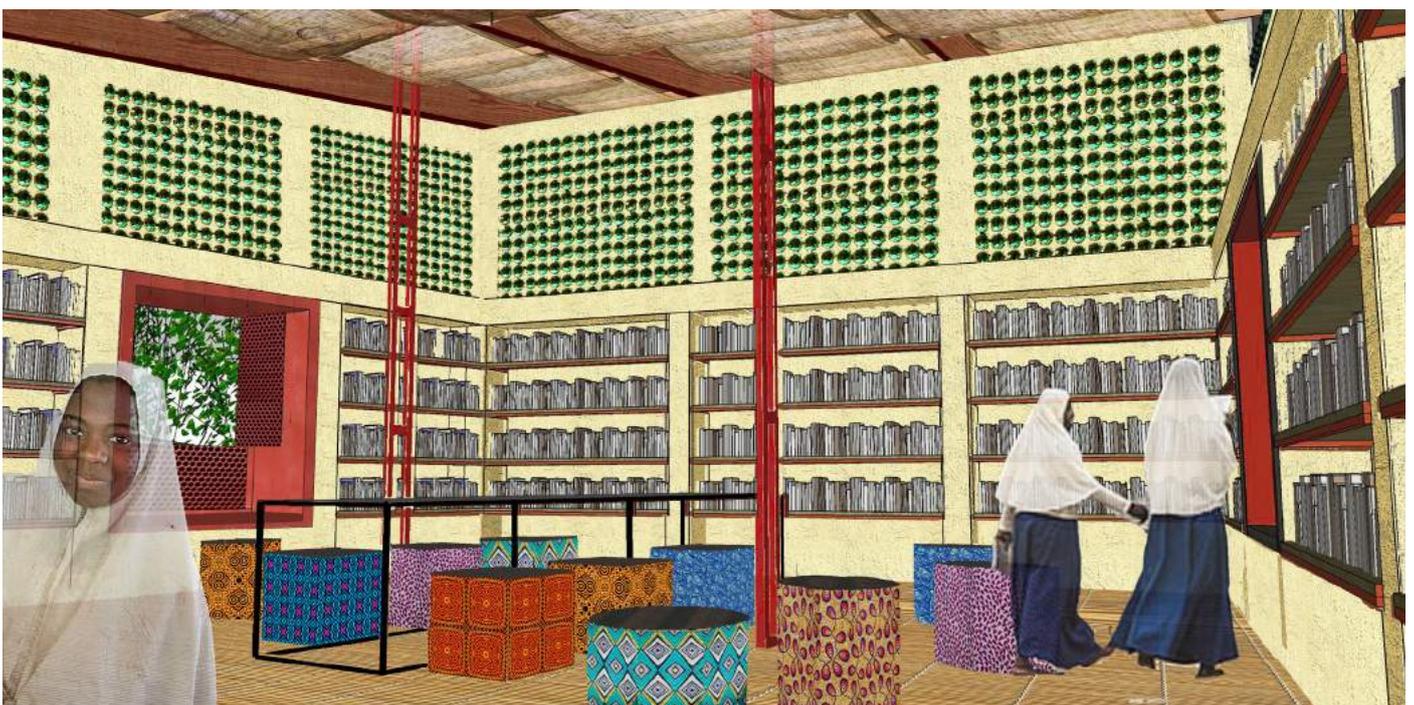
We are building a library for the school and the community in Nungwi. Pupils and community members will have access to fiction and non-fiction books, the internet and information on specific topics provided by NGO's around Zanzibar.

### TACKLING A WASTE PROBLEM



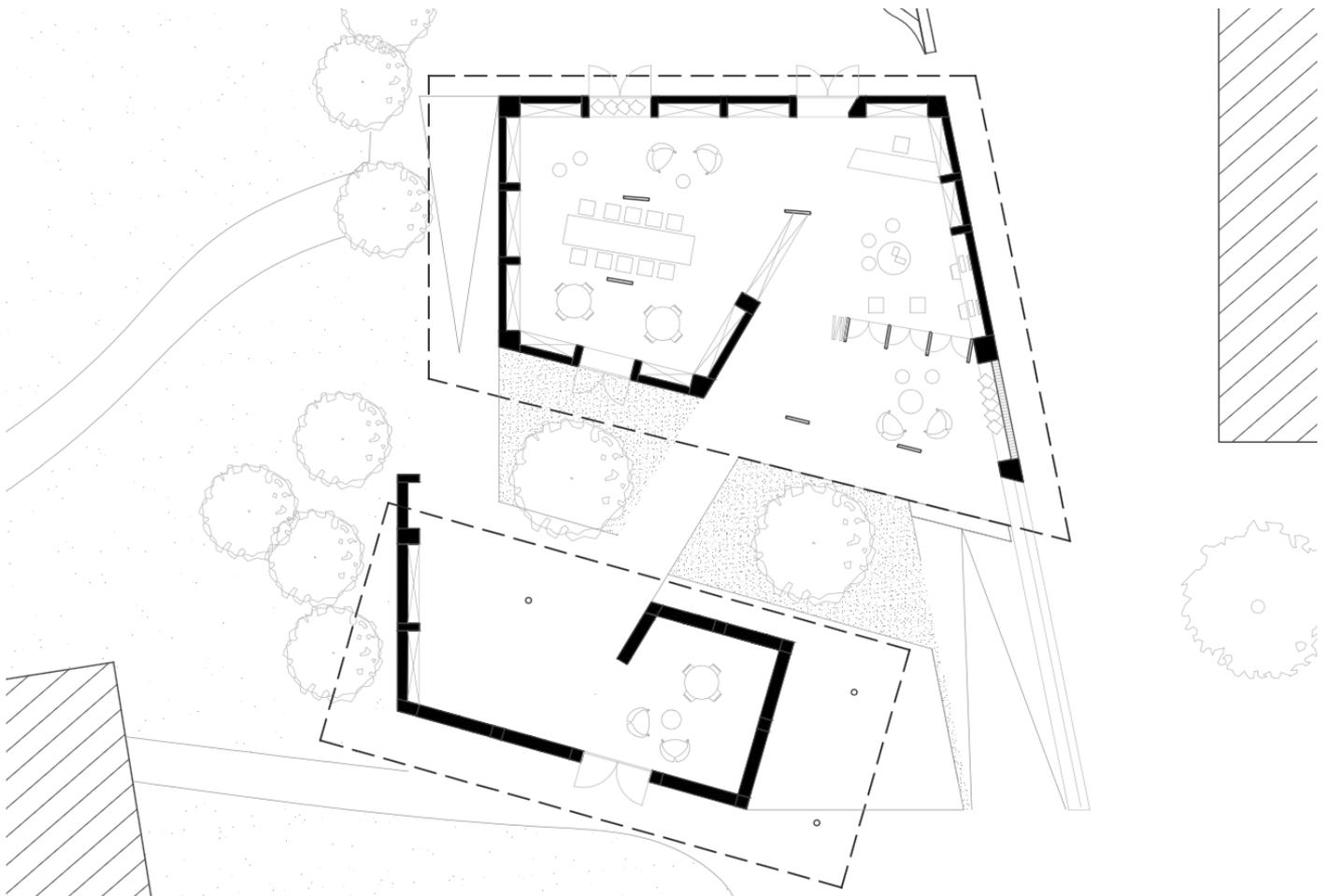
We are building the library using different kinds of waste materials to display the possibilities of the use of waste as a building material and to create awareness with the pupils and community members.

## VISUALIZATION





## PLAN



# c | RAISE AWARENESS

As explained in the Project Description, we are using different kinds of waste to display the possibilities of the use of waste as a building material and to create awareness with the pupils and community members. For collection the waste, C-re-aid has a partnership with Zanrec , a local waste management company. They handle all daily waste produced by both private and domestic sector and make sure that all waste is handled in a sustainable way.

The waste is integrated in different aspects of the design:

- Plastic bottles filled with sand are used as bricks to build a bench facing the library. As a part of the landscaping this bench and its strategical location helps to define public space. We create a shaded space underneath the trees accessible for school kids, community members and tourists.
- Glass wine bottles will be recycled in order to add natural light to the main volume, without the need for additional windows. This will result in an intimate space in which students will be able to study in peace and quietness.
- Research on how to re-use plastic bottles and soft plastic has resulted in furniture design. Different pieces of furniture will eventually help to set the right atmosphere: lounge, study hall, reading zone...
- Not only did this research led us to the design of furniture, it also showed us the possibilities of building with the so-called 'ecobrick': a plastic bottle filled with soft plastic. The second phase of the project consists of the construction of the smaller building, for which we will use ecobricks as infill material in between concrete pillars and beams.



## WORKSHOP

Zanzibar Islands generates over 96,000 metric tonnes of waste a year. An equivalent of the weight of a Boeing 747 gets dumped uncontrolled into Zanzibar's environment every day. People live their lives surrounded by waste; children playing in it, animals eating of it and people growing their food in it.

Together with local NGO Patuza, C-re-aid organized two workshops to raise awareness about recycling and waste management by the community and students of the school. The first theoretical part was about the use of recycling and the problems Zanzibar experiences of bad waste management. This was followed by a practical part where students and community members filled plastic bottles with soft plastic.



*Before it can be used, all the soft plastic and the bottles need to be clean and dry*



*Patuza NGO explaining the theoretical part of the workshop*



*Local students are filling bottles*



# D | CURRENT STATUS

With the currently available funds we will be able to build until the ring beam. We have started with the foundation on the 15th of May and we expect that by 9th of June the first part will be completed. Ideally we hope to complete the whole library by the end of 2017.



# E | BUDGET

TOTAL BUDGET \$ 31313  
 TOTAL FUNDRAISED \$ 6000

## BUDGET



## BUDGET BREAKDOWN

FOUNDATION VOLUME 1	\$ 4379	<input checked="" type="checkbox"/>	FINISHING VOLUME 1	\$ 4155
STRUCTURE VOLUME 1	\$ 2819	<input checked="" type="checkbox"/>	FINISHING VOLUME 2	\$ 2022
ROOF VOLUME 1	\$ 3188		FURNITURE	\$ 1797
FOUNDATION VOLUME 2	\$ 1595		LABOUR VOLUME 1	\$ 1757
STRUCTURE VOLUME 2	\$ 1107		LABOUR VOLUME 2	\$ 898
ROOF VOLUME 2	\$ 2051		LABOUR LANDSCAPING	\$ 898
LANDSCAPING	\$ 3135		LABOUR FINISHING	\$ 1471

# F | PARTNERS



Eight Master students of the **Antwerp Management School** joined us on construction site in May. As a part of their course, they fundraised \$1000 to start construction. Together with them we realised the foundation of the main volume and part of the landscaping. Their brief visit acted as a kick-start for the project. As a partner they will be involved, from a distance though, throughout the entire duration of the construction.



Due to an absence in policy and lack of proper waste management 96,000 metric tonnes of waste a year gets dumped uncontrolled into Zanzibar's environment every day, contaminating the environment and causing serious implications to public health and the economy. **Zanrec** handles this daily waste and make sure that all waste is handled in a sustainable way. As C-re-aid is researching the use of waste material, Zanrec is an important partner. The ambition for Zanrec is to work towards a zero-waste eco-system on the island that also makes Zanzibar self-provided of green energy.

**Patuza NGO** is a nonprofit organisation, connected to Zanrec., that aims to foster women entrepreneurship and environmental development. Together with Patuza, C-re-aid organized two workshops to raise awareness about recycling and waste management by the community and students of the school.



The **Hilton Foundation** provides funds to nonprofit organizations working to improve the lives of disadvantaged and vulnerable people throughout the world. Since the start, they have awarded more than \$1.5 billion in grants. C-re-aid was rewarded with a grant of \$ 5000 to the construction of the Nungwi Library. Also Hilton DoubleTree Nungwi provided accomodation for the students of Maktaba Antwerp, who came to Nungwi to help on site.

**SPECIAL THANKS TO ALL OUR PARTNERS AND DONORS FOR THEIR SUPPORT AND GENEROSITY.  
WITHOUT ALL OF YOUR HELP, NONE OF THIS WOULD BE POSSIBLE!**