

2011 Open **AR**chiTecture
Challenge
GHANA

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Design Proposal Statement

Our approach was not to design spaces but to create a fabric out of the available local resources. A Fabric which tends to act differently from each side : in other words " An artist's atelier that extends to form the whole fabric of the arts village.

Materials

Bamboo **Reed** **Thatch** **Earth**

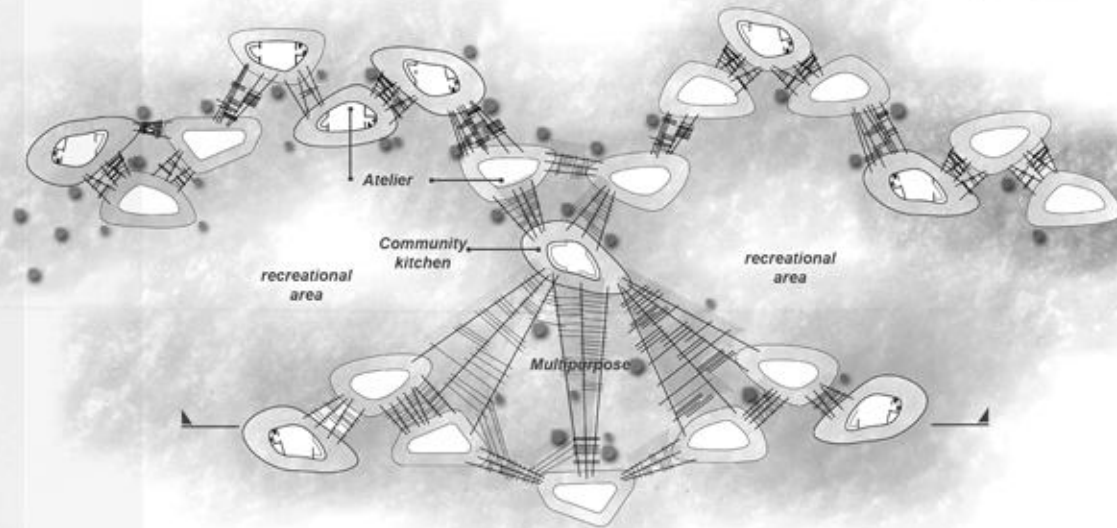
Bamboo branches are used to create the walls which provide natural cross ventilation, Reed and Thatch , combined together, are used to create the roof and earth is used to build utility areas (kitchen & wcs)

Challenge

Our challenge was trying to prove how beautiful those local materials could really look like if put in an appropriate setting in 2011 not to mention sustainability and ecological factors.

Financial Component

The proposal, materials and construction techniques are all local and could be handled by local craftsmen, which will result in minimal expenses. However we are not familiar with material and construction expenses in Ghana.



5/14/02

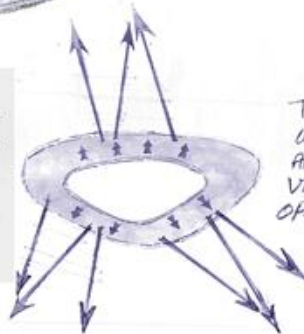
CEILING MESH (ALLOWS VENTILATION)

OPEN CEILING BEAM STRUCTURE

90° ROTATION OF INNER SKIN PANELS ACHIEVES INTEGRATION OF INNER SPACE & INTERMEDIATE ZONE.

DEMISE FOR OUTER MESH

UNITS ARE CONNECTED THROUGH SHEDS THAT VISUALLY MIMIC THE UNITS OUTER MESH STRUCTURE, THUS CREATING A FABRIC OF INTERLOCKING SPACES WHICH GRADUALLY TRANSFORMS FROM CLOSED TO TOTALLY OPEN SPACES



HIGH PRESSURE ZONE

INCLINED ROOF STRUCTURE

HOT AIR EXITS THE UNIT THROUGH THE INCLINED ROOF

LOW PRESSURE ZONE CAUSED BY THE EXIT OF HOT AIR

ANALYTICAL STUDY INDICATING NATURAL VENTILATION CAUSED BY DIFFERENCE OF AIR PRESSURES.

INTERMEDIATE SPACE

INNER SKIN

OUTER MESH (TRANSPARENT)

DIAGRAM SHOWS CROSS VENTILATION THROUGH OUTER MESH INTO THE UNIT

THE SHADED SPACES WILL ACT AS OPEN EXHIBITION AREAS, THUS THE WHOLE ART VILLAGE TURNS TO BE AN OPEN MUSEUM.

Analitical Studies





Perspective - Section



