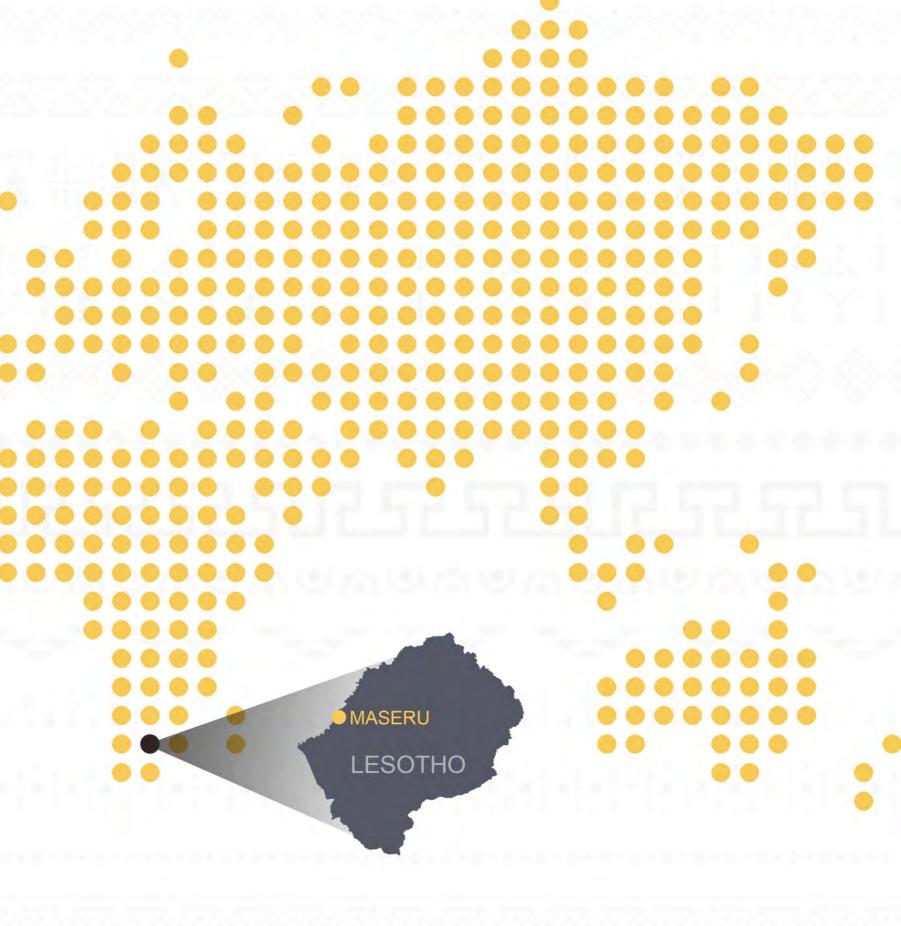
ROHO: HOUSING:



TARGET RESULT



community



environmentally friendly



sustainable





energy efficient



low cost



preservation of cultural identity

WHAT

ROHO = spirit (swahili)

Rondavel house typical house in the region of South Africa, which embodies the history of local culture Home

WHY

Because every family deserves to have a home where ther can eat, sleep, refresh and raise their children, a place to feel comfortable. One that you can build at a low cost with a hugh value.

WHERE

The idea is to create a home that works well on its own, but to work perfectly in a neighborhood, area, city.

Module unit can be used in different places, both alone and in combination with other modules, forming a neighborhood

HOW

ROHO offers an easy-to-build structure at an affordable price using local materials.

Each ROHO structure will bring the spirit of the inhabitants through the interior paintings.

The facades, for their part, are the unifying thing. They are made of visible bricks, which are arranged in different shapes on each home.

The dwelling is made up of 3 basic modules that could be recombined.

LOCAL MATERIALS

Sandstone

The traditional dwelling in Lesotho is the stonebuilt rondavel with a thatched roof. This is locally available and won both by medium-sized and largescale concerns. There are enough sandstone deposits to quarry for building stone to make it a common material.



Burnt bricks

These are locally manufactured in Maseru at Loti Brickworks, Majara Bricks, and Lesotho Brick and Paving using local claydeposits.



Cement

Cement is imported in bulk from PPC in South Africa and bagged in Maseru



Roofing sheets - imported

CI roofing sheets are readily available but almost all imported from South Africa.



Gypsum

Gypsum is a soft sulphate mineral used as a main constituent in many forms of plaster.



Sand

Sand is produced in Lesotho for domestic consumption. It is locally sourced from river banks by local suppliers and individuals.



Timber - imported

There is virtually no commercial timber in Lesotho. Sawn timber and poles are imported from South Africa. Timber is used in roofing, doors, windows and finishes in up-market housing.



Fitments and fittings

Most of these are imported from South Africa and, more recently, China.





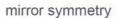
Squares are also seen as particularly stable and orderly, standing for firm foundations, both literally and metaphorically. There are basic reasons why most building footprints are squares or rectangles: they are stable and encourage permanent structures.

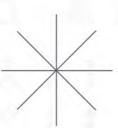
The shape is implemented in the shape of the houses.





The circle is one of the four geometric symbols (circle, center, cross, and square), the embodiment of the Earth and the Sun, the vital force of fertility. Since time immemorial it has served as a sign of integrity and completeness and a sign of perfection. He expresses the ideas of unity, infinity and the culture-absorbed space of nature and chaos. Circle shape is implemented in the shape of neighborhoods.





central symmetry

MODULES FOR ONE UNIT



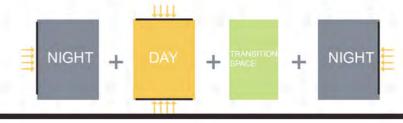




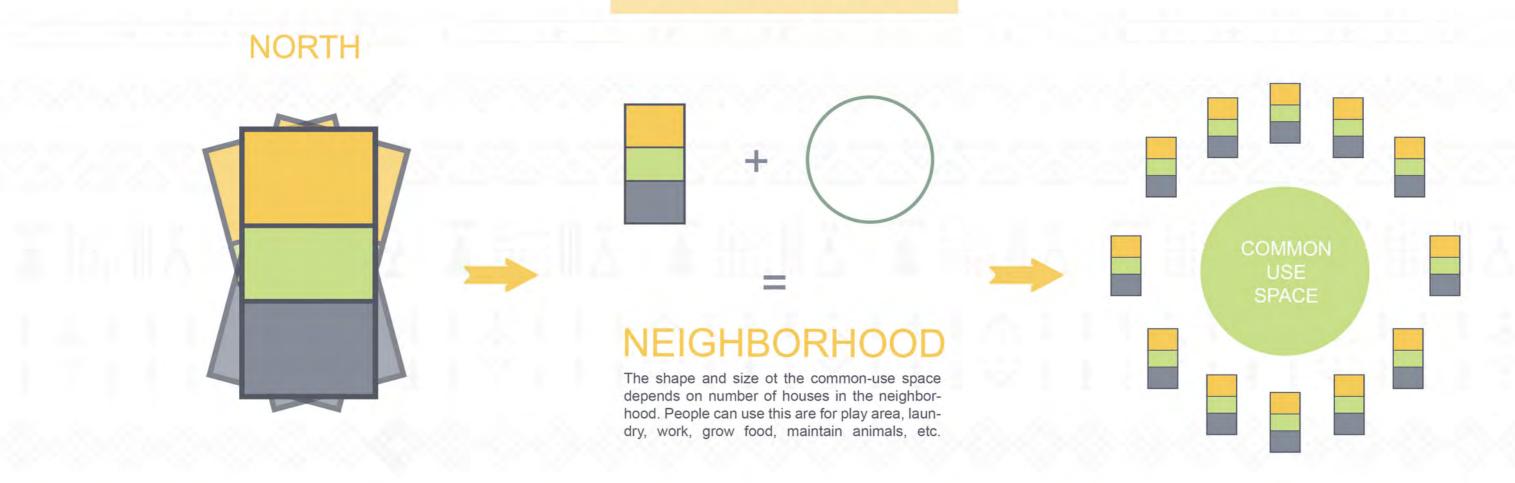


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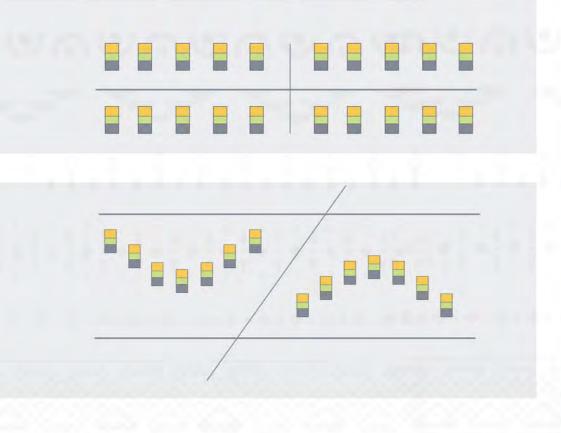


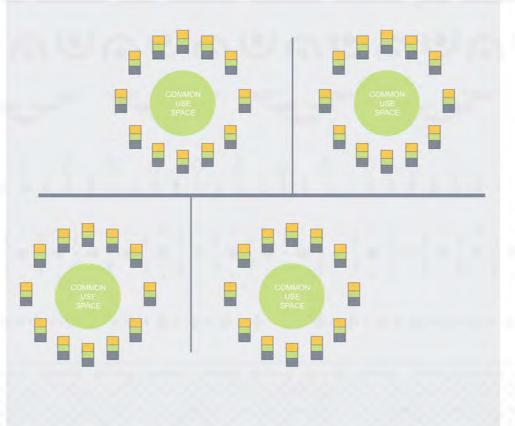


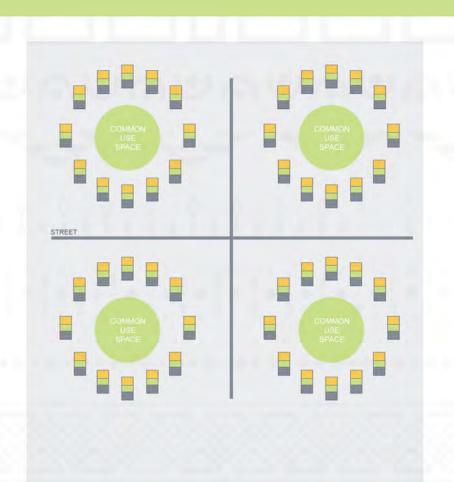
URBAN PLANNING

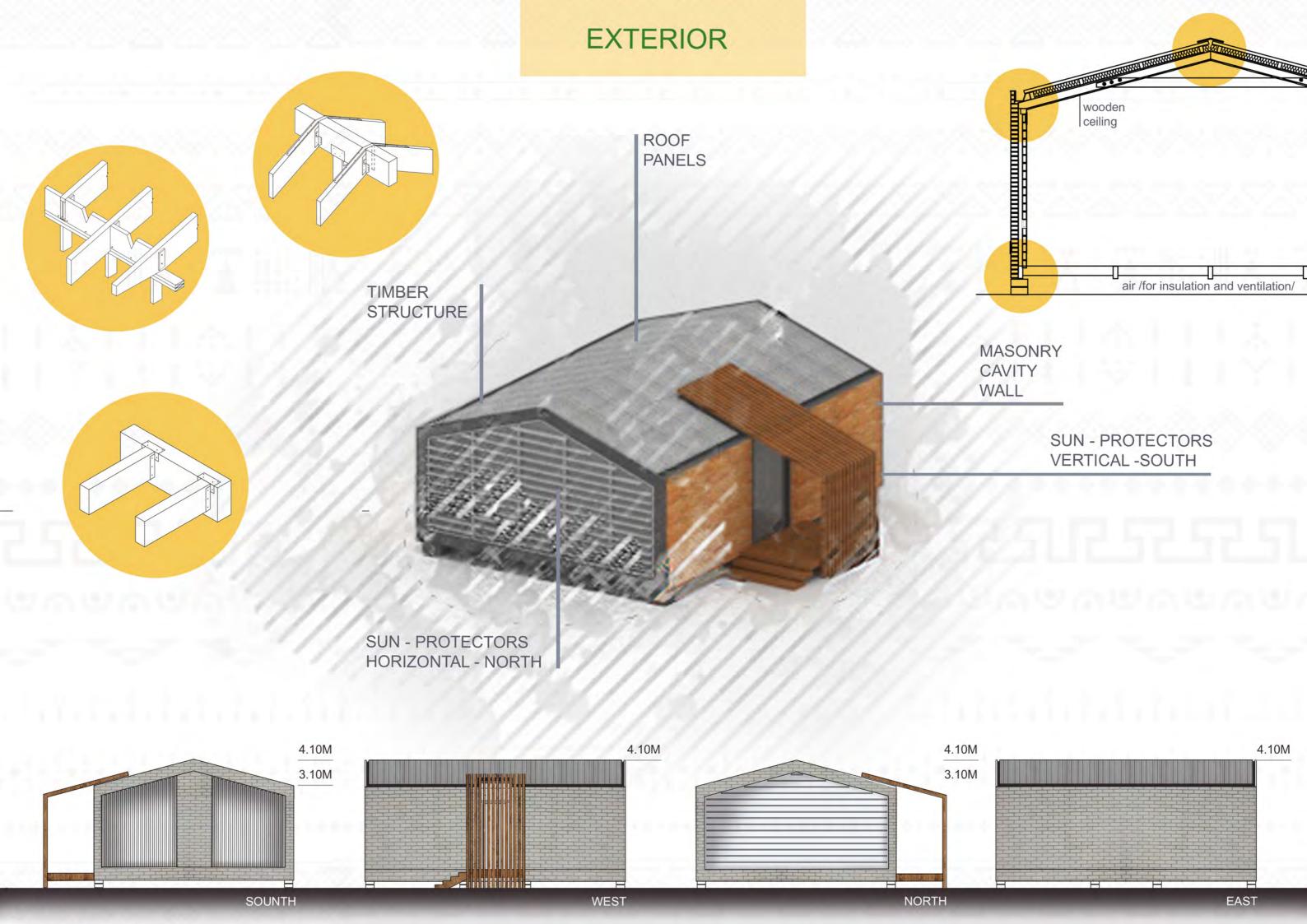


COMBINATIONS









INTERIOR



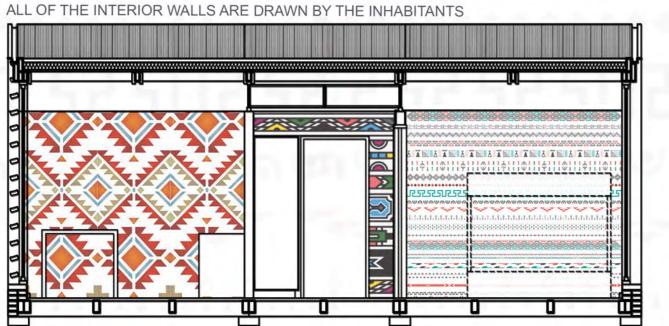
TRADITIONAL SOUTH AFRICAN PAINTINGS

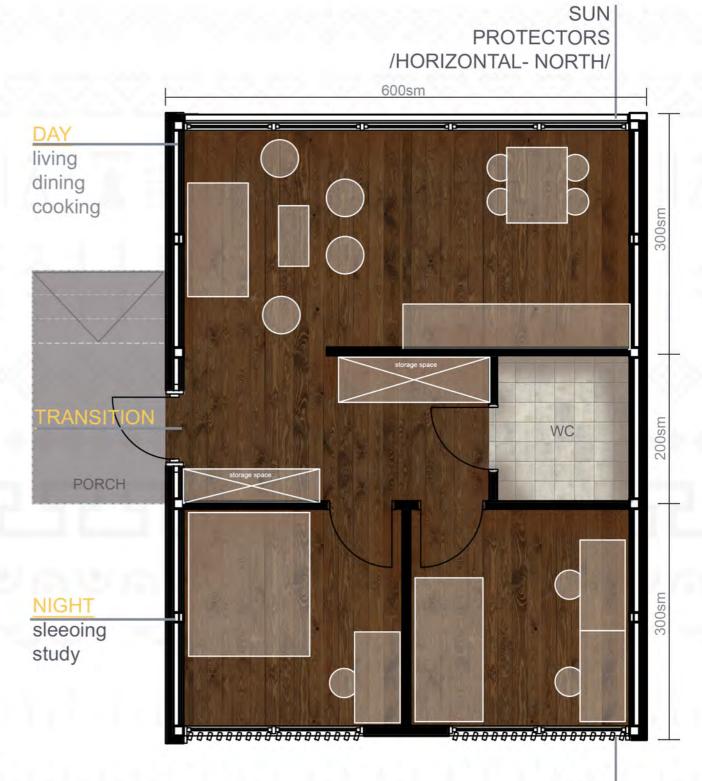












SUN PROTECTORS /VERTICAL - SOUTH/

Project Description

ROHO housing

Rondavel house + **ho**me = ROHO = spirit (swahili)

Collaboration between old and new, past and present, house and home.

Community and individuality have been taken into account with equal importance in order to achieve harmony.

The idea is to create a home that works well on its own, but to work perfectly in a neighborhood, area, city.

ROHO offers an easy-to-build structure at an affordable price using local materials.

Each ROHO structure will bring the spirit of the inhabitants through the interior paintings.

The dwelling is made up of 3 basic modules that could be recombined

Why

- .. small house? compact and inexpensive
- .. these materials? easy to manufacture, high quality, locally sourced

Project Cost Estimate

		SIZE (sm)	PIECES	LENGTH (sm)	QUANTITY (sq.m)	QUANTITY (m)	cost (\$) approximately
CONSTRUCTION	bearing wooden beams	20x8	14	300		56	120
			7	200			40
	wooden beams	15x8	52	144			.90
	wooden columns	13x13	12	245			150
ROOF	beams	10x5	6	310		18.6	200
	laths	8x5				64	120
	roof panels				50		200
TS	bricks /horizontal/		2	280x800	44.8		330
	bricks /vertical/		2	280xx800	44.8		300
WALLS	interior bricks walls /horizontal/			280x1500	42		310
	tiles /WC/				22.4		100
FLOOR	parquet				56		200
	tiles				4		20
FACADE	vertical wooden lamells	10x5	36	300		108	150
	horizontal wooden lamelis	10x5	15	600		90	120
	windows				26		350
INTERIOR	windows / above walls/				6		50
	gypsum plaster /walls/				126		65
	gypsum plaster /ceiling/				60		50
	color paint					3	60
OTHERS	doors	80x210	4				200
	sun protection lamellas	8x8	14	570			30
	fitings						100
	electrical						150
	plumbing						150
	Prices are taken from "LESOT UNITED NATIONS HUMAN SE			Control of the second	TOTAL	COST	3855

ROHO

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PROTECTORS /VERTICAL - SOUTH/ PLAN M 1:50



SHAPE







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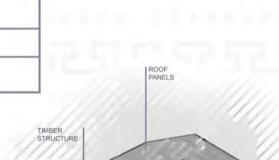








The shape and size of the common-use space depends on number of houses in the neighbor-hood. People can use this are for play area, laundry, work, grow food, maintain animals, etc.







MASONRY

CAVITY WALL





ID









