LANDSCAPE IN ARID CLIMATE

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LANDSCAPING THE RAHBAS WITHIN THE FRAME OF TOUGGOURTIAN COMMUNITIES

The focus of my thesis is TOUGGOURT, a famous and large oasis of 146,108 inhabitants located in the valley of Oued

Touggourt has consolidated many ethics, clans, and invasion of ancient a planned, managed Rahbas; where civilizations from the 4th Century until periods and people produced a unique traditional town structure. In this sense, my entire work concentrates on designing and landscaping semi-public and semi-private open spaces called the Rahbas, which reflect an extremely local identity as a kind of urban dialogue of cohesion between the community.

Today. Touggourt is facing a series of highlighting the

be to find answers to the issues raised: no public awareness about its values, to be engaged in the design process.

In order to bring about any change the community space of a RAHBA is ideal, because it is central to their lives and many things can be achieved with little cost. When the next generation is born in they play in their parent's presence, on a clean spot, they will maintain it within events organized by the community. These actions are going to strengthen community coherence and foster the greening and planting culture against the environment. Thus, in my thesis I will building up and enhancing the culture of communities, involving them in the production of the environment aiming to accent the landscape character.

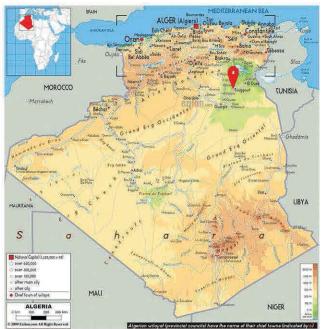
Eventually, the results of this work focus a semi-private and into two points, the zoning and the toolkit, the zoning draws the characters of the zones and determines the main activities of each area. The toolkit is the synthesis of participation actions and the analysis of case studies. It is a conceptual asset which combined The first step for positive change might different type of tools, and the stone on which the design phase should be based

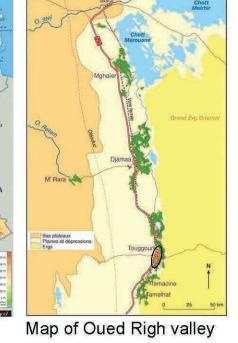
the lack of community cohesion, the In order to see how the zoning and toolkit absence of the local government's results can be interpreted, master plans collaboration to help these communities of three different Rahbas are drawn based on the thesis results and the characteristics of each site.

THE TOWN OF TOUGGOURT

Touggourt is the biggest oasis of Oued Righ region located in the north-east of Saharan Algeria, lying on the western side of extensive oasis supported by

palm plantation and other vegetation. The canal of Oued Righ was dug in 1925 by the locals, for a length of 150 km from El Goug to Chott Merouan as a natural outlet, a width of 10 m, a depth of 4 m and slope of 1% toward the lowest point in Chott Merouen. Its role to drain excess irrigation water at the palm groves, and to evacuate of the waste water as well.





THE RAHBA

Scientific definition:

Rahbas are semi-public and semi-private open spaces located within a block in Touggourt, situated in a very traditional urban tissue with special types of buildings (traditional, individual houses; one house for one family). Playing, sitting, gathering, parking, and wedding ceremonies are the basic functions of the rahba. Basically, they lack basic infrastructure such as a formal asphalt road and sidewalk.

The three design sites:



Chain of rahbas





The design aims to address fundamental issues of the thesis in a practical way, moreover, it is an embodiment of the theoretical and analytical part of the participatory action and case studies. Among 30 rahbas, three different sites are selected for the design

process.



toolkit for designing the rahbas.

METHODOLOGY/ PARTICIPATORY ACTION

It was organized by the candidate as a part of the thesis methodology.

20 children aged between (8-13) of e-Nnaser (02) neighborhood

gathered on 3rd of January at 9 am in the e-Naser (01) elementry

It aimed to raise the role and the importance of the Rahba in Touggour-

tian communities, and to extract ideas and principles to develop a

Children were so intelligent and motivated. In addition, the rahba

design should be based on two main functions: playground, and

resting area, moreover, it should be totally vegetated because of the

Introduction:

Lessons learnt:

school.

Aims:

climate.

M°1: Getting to know each other





M°2: Numbering and answering M°2: Numbering and answering

METHODOLOGY/ POSTCARDS AND CASE STUDY ANALYSIS

Postcards In our RAHBA Enjoy your day

will see your dids have fun and love it

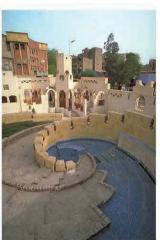


The front face

This method aims to imagine the new design scheme of the rahba and to help determing the main functions of it.

More than 20 empty postcards were handed to different types of people in Touggourt. The task was to fill the card in order to send it to a friend inviting him/her to visit the rahba. In this way, each one had to write sentences in which he/she describes the new look of the rahba.

First Case Study: cultural park for children in Cairo, Egypt 1990





The Park located in Sayyida Zeinab, Cairo, Egypt, officially opened in 1990. It realized to serve as a national center for children's culture. The significant of the project is the evolution of the design process and interaction with the local community in the production of the invi-

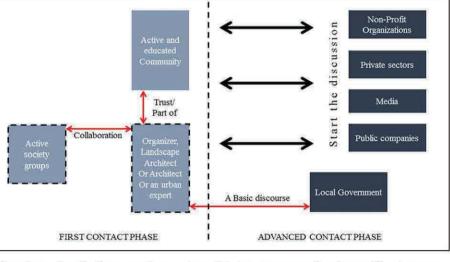
It was well integrated with the region architecture and landscape.

Second Case Study: Actors of urban change



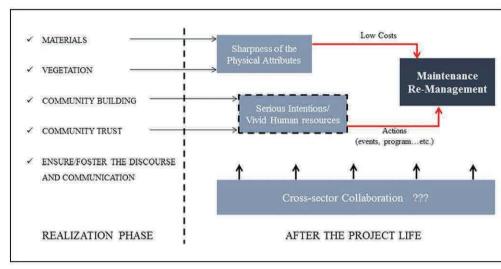
Cross-sector collaboration is an innovative approach conducted through this program, itreach for ensuring the discussion and collaboration between different stakeholders such as NGOs, communities, government representatives. All together to develop inclusive and sustainable cities with a high quality of life.

GENERAL SYNTHESIS Relation between different actors



The level of discussion should be seperated on 2 phases, The first phase is when main actors could be contacted: the organizer and the community (believers in change). The second phase should be started at the level to bring other actors to a common understanding of the situation.

Life after the project



Some factors in the realization phase could be the crucial factor in keeping the project sharpen and sustained for a long term with low costs of maintenance. Once we ensure the communication and trustfulness within members of the society, we set an enduring mindset and self-initiated actions which will maintain and re-manage the rahba afterward.

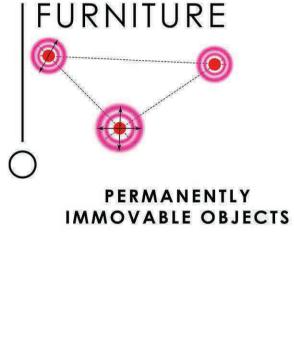
IRRIGATION WATER

COMMUNI

ENERGY

WATER

TOOLKIT AND DETAILS



BUILT SITTING AREA

STORAGE BOX

PLAYGROUND EQUIPMENT

PERMANENTLY MOVABLE **OBJECTS**

SITTING BENCH

TRADITIONAL RUG AND REED MAT

WOODEN STACKABLE STOOL CHAIR

GUIDING IDEOLOGY



Standard equipment made up

structure

resistant wood and rough plastic

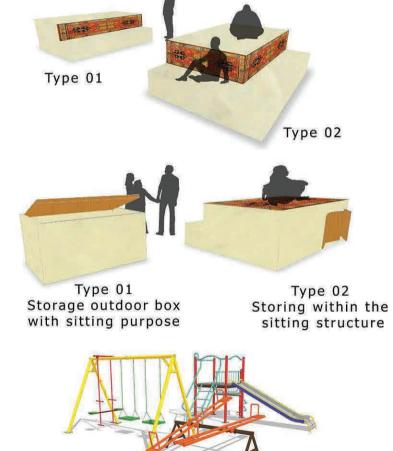
Inspired from the traditional stool chairs. The form is defined by scaling its size and dimension

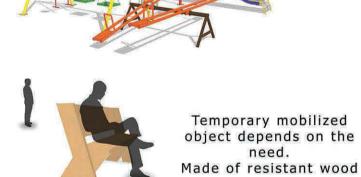


wool rug plastic mat Local man-made furniture (the stool chair) movable and freely used for any sort of functions:

seating, lying, and playing

THE OBJECT/ THE ITEM



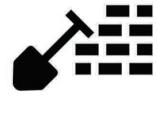








MATERIALS



PAVEMENT



tant-permeable and reduces the



low cost-locally available-simply constructed in place-very low labor force-durable material-possible mosaicing the pattern OTHERS





THE RED BRICK

the most common construction material

VEGETATION



TREE

1. Phoenix dactylifera

2. Phoenix washingtonia 3. Ficus microcarpa 4. Olea europaea

SHRUB

 Nerium oleander 2. Hibiscus (flowering plant) 3. Pittosporum tobira

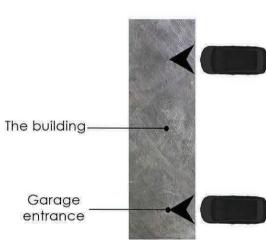
GRASS

1. Riggra grass

IPARKING

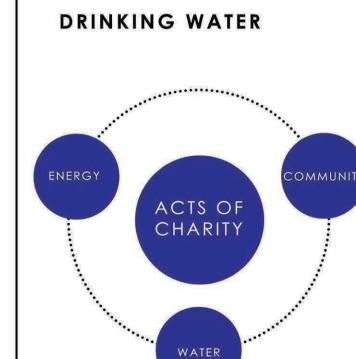


SEMI-PRIVATE ZONE



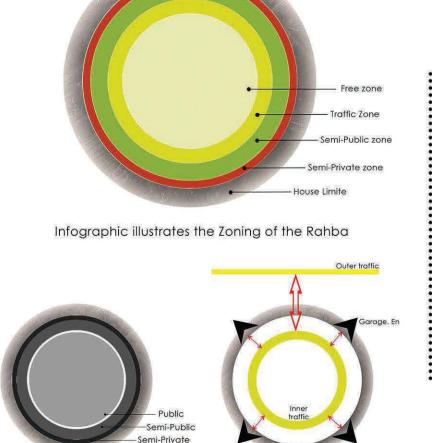
PLANNED NEAR TO THE FREE ZONE THE PUBLIC ZONE



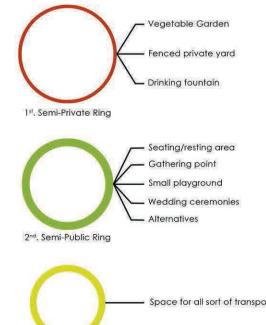


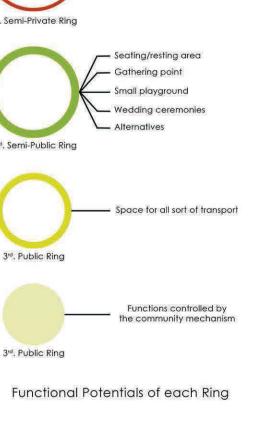
ZONING AND FUNCTIONS

Private and Public



Outer and Inner Traffic Relation





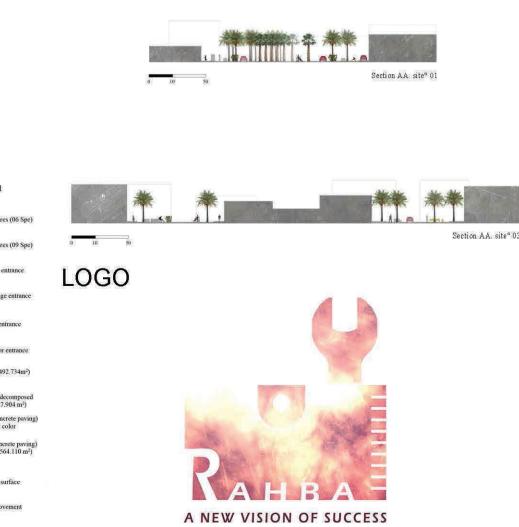
OPEN SPACE DESIGN PLANS



toolkit check list

Site°3: el-Bader's rahba Legend

SECTIONS



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