

Country / City China / Hohhot

University / School Inner Mongolia Normal University

Academic year 2017-2018 Academic year

Title of the project OASIS REVOLIUTION

Authors Yitao Li / Yongkang Guan / Wenjun Shi / Wenhao Luo / Jie Liang



PERFORMATIVE NATURE

Barcelona International Landscape Architecture Biennial

September 2018 **Barcelona**

SCHOOL PRIZE

X International Landscape Architecture Biennial

Máster d'Arquitectura del Paisatge -DUOT - UPC

ETSAB- Escola Tècnica Superior

d'Arquitectura de Barcelona

Avenida Diagonal, 649 piso 5

08028 Barcelona-Spain

TECHNICAL DOSSIER

Title of the project	OASIS REVOLUTION
Authors	Yitao Li / Yongkang Guan / Wenjun Shi / Wenhao Luo / Jie Liang
Title of the course	Competition winter camp
Academic year	2017-2018
Teaching Staff	Yaping Li / Mo Li
Department/Section/Program of belonging	International Modern Design Art Faculty / Landscape Section
University/School	Inner Mongolia Normal University; Nankai University; Chang'an University; Sichuan Agricultural University; GUANGXI ARTS INSTITUTE

Written statement, short description of the project in English, no more than 250 words

The desertification in the world is becoming worse and worse today, and Dalad Banner on the Silk Road is being eroded by sand dunes from the Western Kubuqi Desert. 60 years ago, there used to be dense vegetation and a prosperous city here. But due to human destruction, it turned into the desert. According to the social background and problems in the region, our solutions are divided into three major stages based on the specific conditions in different regions. In the first stage, measures such as installation of anti-sand walls and condensing systems were used to achieve sand prevention and sand fixation and ecological restoration; in the second stage, the original inefficient power supply mode can be updated by developing clean energy, and the agricultural development can be adjusted by adjusting the biological chain. In the third stage, through planning, a new desert city will be established, which can be the driver for local economic development. The ultimate objective is to have the citizen return to the home land they used to live in a harmonious relationships with nature.

For further information

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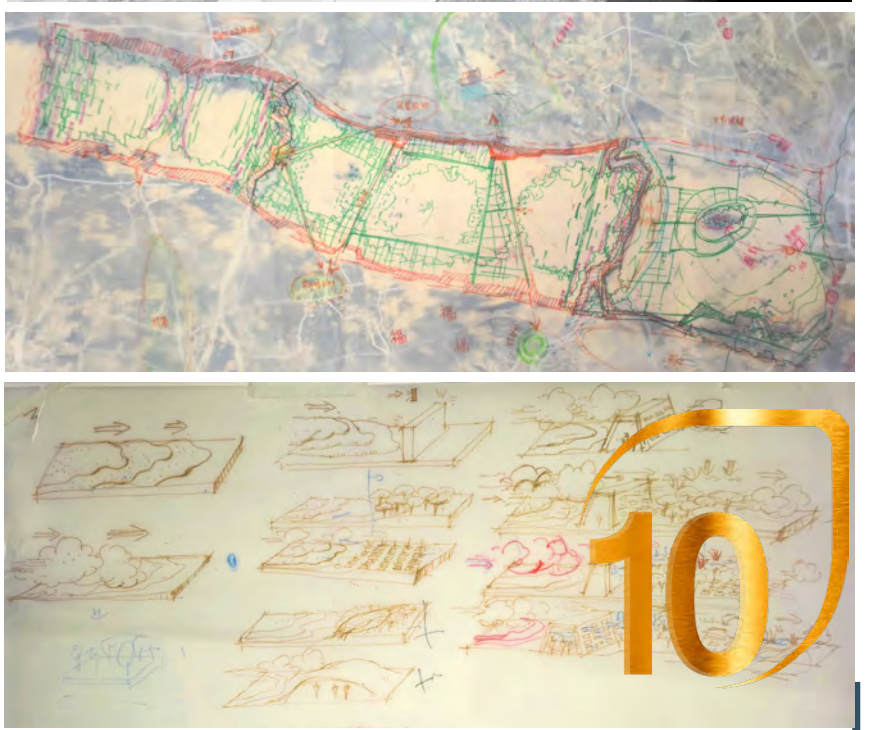
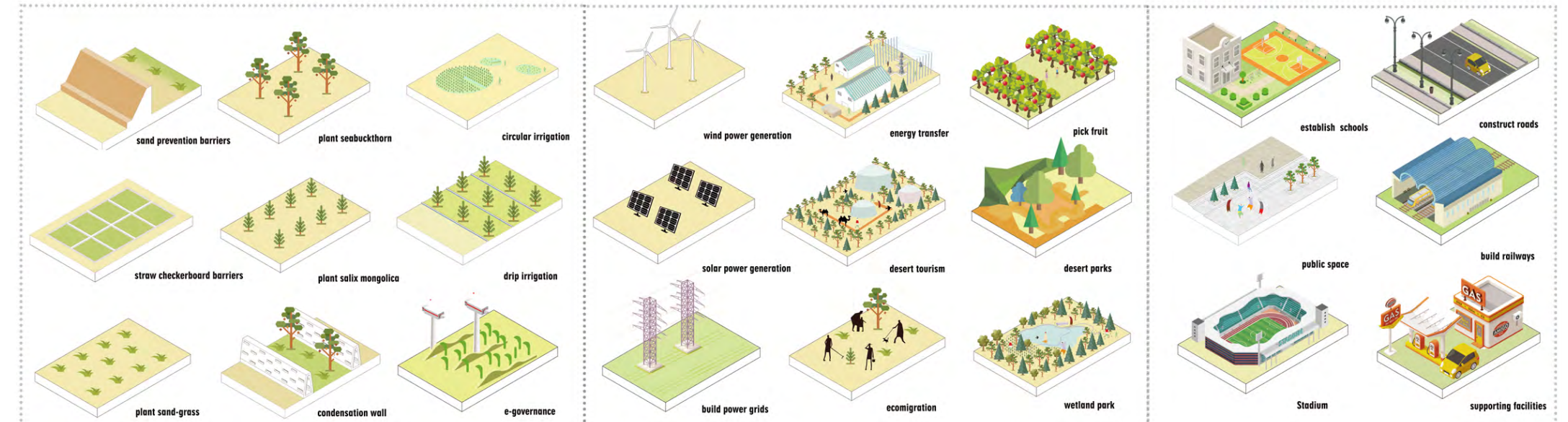
Consult the web page <http://landscape.coac.net/>



For ecological restoration, The first step is to establish an integrated sand control system with the help of sand retaining walls, sand barriers, and net fences to withstand the erosion of sand dunes from Kubuqi Dune in the west, and to reduce the intensity of dust storms to a certain extent. **The second step** is to change the air humidity, establish a local micro-climate and restore vegetation groups by establishing a condensing system. **The third step** is to build an ecosystem to restore the local ecological environment.

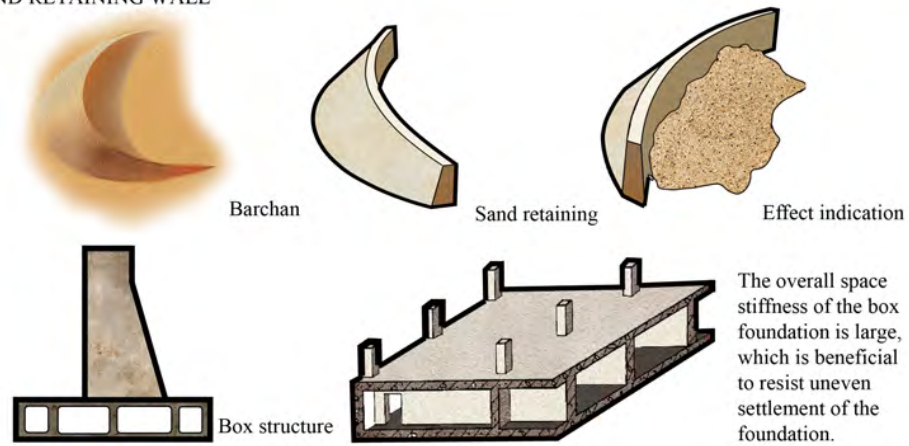
For economic treatment, The first step is to optimize energy structure, use clean energy instead of non-renewable energy, and develop solar power and wind power. **The second step** is to optimize industrial structure, change the economic development situation that depends on the primary industry, and vigorously develop the tertiary industry, to increase economic added value, enhance economic vitality, solve employment problems, and make employment more attractive.

For social construction, The first step is to improve the environment, increase urban greening area and establish urban cultural parks. **The second step** is to improve citizens' quality, and build schools, stadiums and other infrastructure. **The third step** is to improve the traffic and build highways and railways to strengthen inter-regional links.

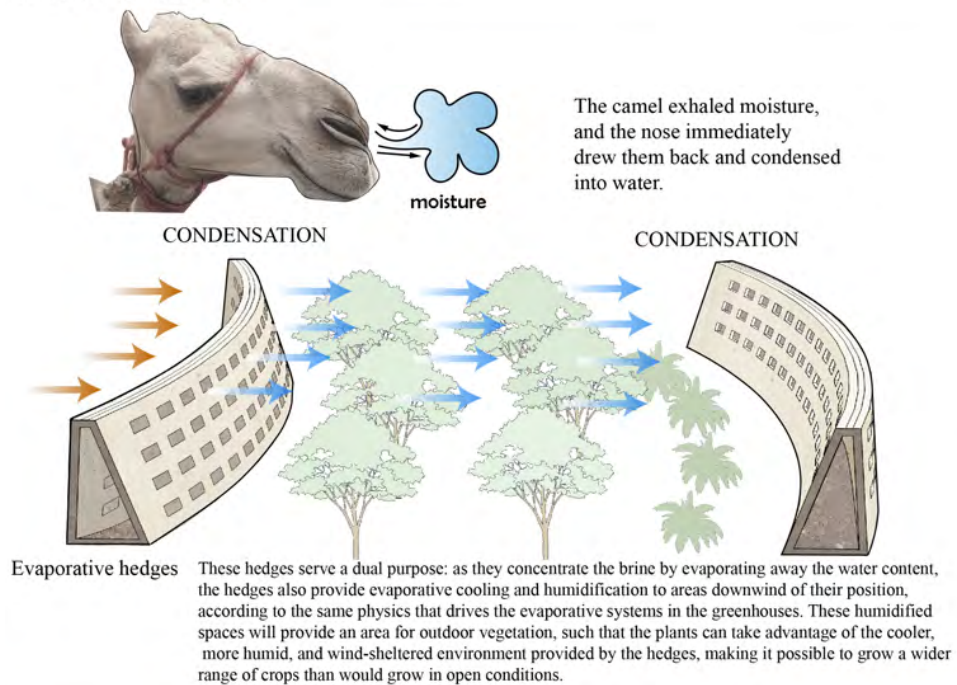




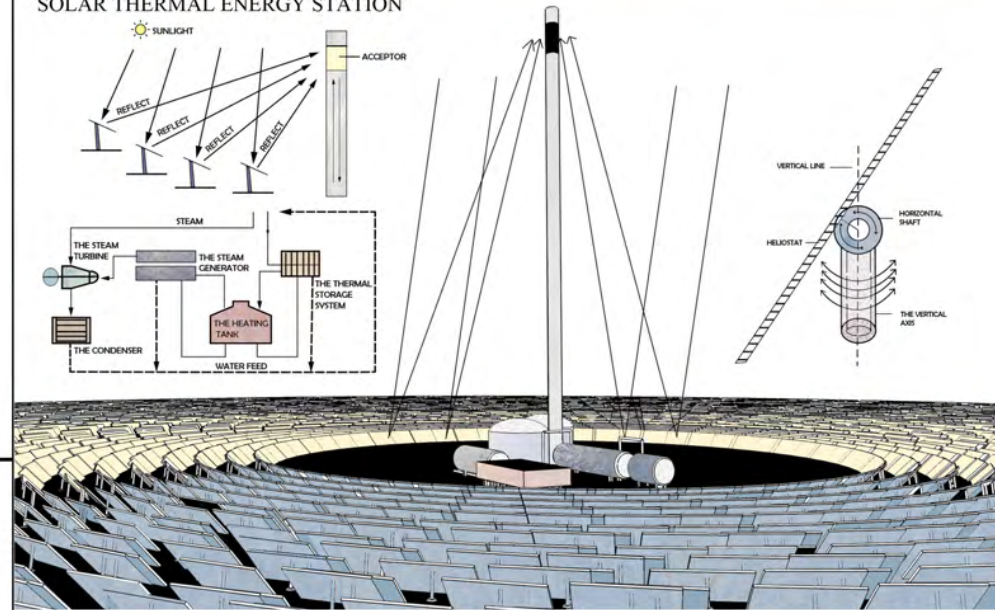
SAND RETAINING WALL



EVAPORATIVE HEDGES



SOLAR THERMAL ENERGY STATION



Shrub



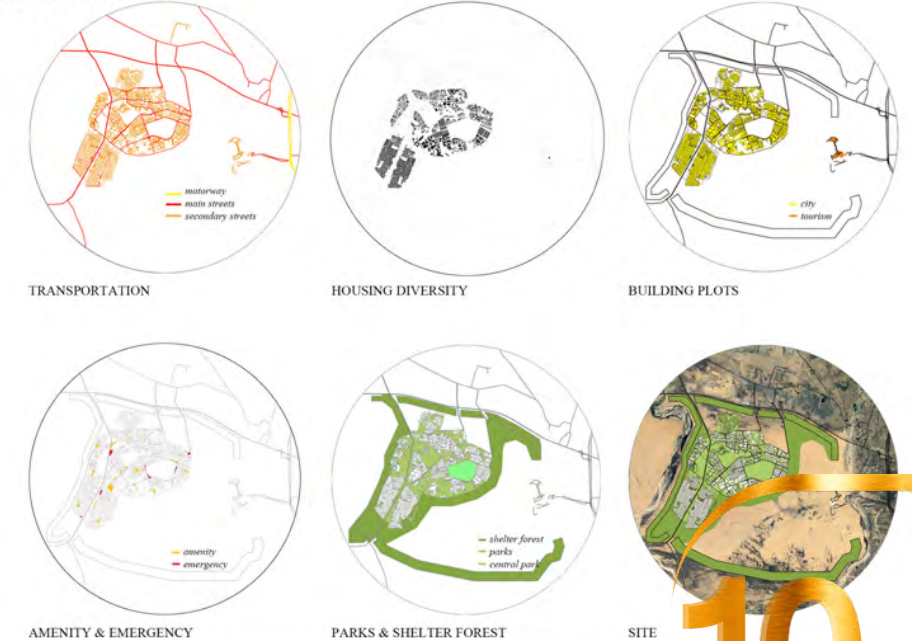
Macrophanerophytes



Herbaceous Plant



UTBAN TEXTURE



CHAIN

