

| Country / City | |
|----------------------|---------------------------------------|
| University / School | Bei |
| Academic year | |
| Title of the project | Back is Front- |
| Authors | Xiaosong Ma, Ruokun Zhang, Dongchen L |
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China, Beijing Beijing Forestry University 2017-2018 nt- Inversion of Alexandria ı Li, Ying Zhang, Xu Chao





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 | Back is Front- Inversion of Alexandria |
|------------------------------------|---|
| Authors | Xiaosong Ma, Ruokun Zhang, Dongchen Li, Ying Zhang, Chao Xu |
| Title of the course | Seminars of Landscape Architecture Design |
| Academic year | 2017-2018 |
| Teaching Staff | Liu Xiaoming, Zhu Jianning, Cui Liu |
| Department/Section/Program of belo | nging School of Landscape Architecture |
| | Landscape Architecture Program |
| University/School | Beijing Forestry University |

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

Alexandria, the second biggest city in Egypt, has thrived by harbor. Built on the T-shaped Nile delta, the edge of the Sahara, Alexandria situates on a land strip caught between the sea and lagoons. 1 Nowadays, she is an industrialized tourist city threatened by both natural and social problems including marine submersion, sandstorms, industrial pollutions, population expansion, deterioration of slums, and historical context breaks. All of these crises have increased social imbalance, which hampers sustainable development of Alexandria. Imbalance is reflected in all kinds of scales. Most tourist and social resources are distributed along the coastline, while heavy industries, brownfields, informal accommodation, and desertification farmland occupy the side of hinterland.

Although the innate gaps caused by history and geography are neither just nor unjust, we can still create away that enables institutions to deal with the natural facts to pursue justice. The green system plays the role of communication, fusion and guidance contributing to the inversion of city development trend lead to a more justice society.

The Green system integrates natural facts that we can use. It constructs strategies for different types of urban areas respectively, while they are all designed for the inversion of hinterland. As for regional scale, the desert buffer belt combined with local precision agriculture defends against the sandstorm and stabilizes the edge of the delta to guarantee field production. As for urban border areas, the phytoremediation models around informal accommodation provide safe environment and social opportunities. As for the historical block, the strategy extracts spatial pattern of the traditional Egypt Garden, which encloses space by trees at the same time creating height variations to make blend spaces reconciling the requirement of residents and tourists.

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Alexandria is an industrialized tourist city threatened by a increased gap between coastline and hinterland, which is a result of unbalanced resources distribution. Most social resources are distributed along the coastline, while heavy industries, brownfields, informal accommodation, and desertification farmland occupy the side of hinterland. Thus, we manage to fill up the gap by landscape power-windbreak and phytoremediation.



CRISIS CONCERN

Windbreak

1)SUMERSION: Alexandria faces a marine submersion problem, eating the city spaces. 2) DESERTIZATION: Back area of Alexandria is suffered from oasis marginal land desertization. 3)POLLUTION: Polluted and toxic brown fields encompass the slums in the back area, which makes poor people struggled with life.

Phyto





STRATEGY THINKING PROCESS FRONT AREA BACK AREA Polluted Desert Space Urban Cramped Diveristy High Brown Soil Airy urban space technology development field erosion spaces Urban Slum Landscape renovation Development shift

Balance

AREA ANLYSIS









RELATIONSHIP BETWEEN FRONT AND BACK AREA



The Inversion of Alexandria

PHYTOREMEDIATION

Ni Ni Ni

THE SOURCE OF POLLUTION



The Inversion of Alexandria