

Country / City China
University / School Southwest Jiaotong University
Academic year 2019-2020
Title of the project Renewal of Shanhaiguan Ancient City Community under Climate Change
Authors Yuqian Tang; Qiu Li; Shuman Deng



TECHNICAL DOSSIER

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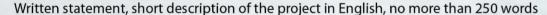
Authors Yugian Tang; Qiu Li; Shuman Deng

Title of the course Landscape Design
Academic year 2019-2020

Teaching Staff Sixiang Zhou; Ya Fu

Department/Section/Program of belonging School of Architecture and Design

University/School Southwest Jiaotong University



This project is located in the famous ancient city "Shanhaiguan" in Qinhuangdao City, Hebei Province, China. Shanhaiguan has retained most of the historical monuments. It is one of the few cities in China that still retains the ancient city walls.

Under the rapid changes in the global climate, a series of problems such as a decline in tourism rates, weakened cultural awareness, and economic depression have occurred in the affected ancient cities. The project focuses on solving a series of social problems caused by climate change, retains its cultural heritage, and fully promotes the identity of the site as a "Millennium Ancient City". Based on the investigation and analysis of the site, the project creates four categories of "cultural fields", including "Core Cultural Field", "Historical Cultural Field", "Social Cultural Field", and ""Activation-Needed"Culture Field" of the site in tourism rates, and economic depression have occurred in the affected ancient cities. The project focuses on solving a series of social problems caused by climate change, retains its cultural heritage, and fully promotes the identity of the site as a "Millennium Ancient City". Based on the investigation and analysis of the site, the project creates four categories of "cultural fields", including "Core Cultural Field", "Historical Cultural Field", "Social Cultural Field", and ""Activation-Needed"Culture Field" of the site as a "Millennium Ancient City".

The project proposed different detailed solution for different types of cultural fields to enable the entire site to reach a "live balance". What the project want to do is, let culture participate in life and inherit it by using it, meanwhile, let the old city have the ability to cope and renew itself in the face of external climate change.

For further information

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CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020 SCHOOL PRIZE

Renewal of Shanhaiguan Ancient City Community under Climate Change



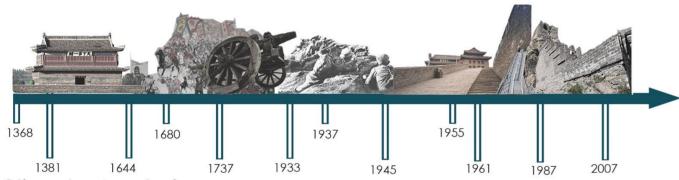
District Analysis

Shanhaiguan is located in Qinhuangdao City, Hebei Province, China. To the west is Beijing, and to the east is the Bohai Sea. Shanhaiguan is mainly composed of the ancient city, the Great Wall, and the old Longtou Bay. The layout of the streets in the ancient city originated from the Ming and Qing Dynasties.

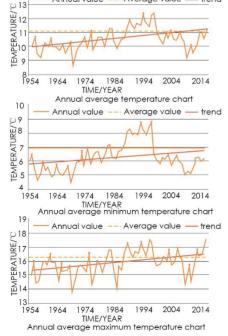


Historical Analysis

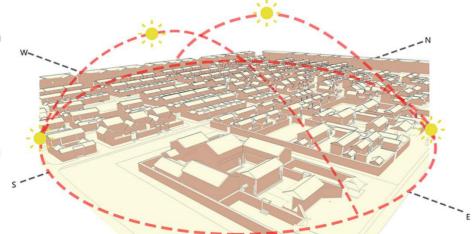
Shanhaiguan is an ancient cultural city with a long history and one of the representatives of the world cultural heritage, the great wall of China. Shanhaiguan has experienced more than 600 years of history since its establishment, and every historical event in the past 600 years has made today's Shanhaiguan.



Climate Analysis



In the past few decades, the annual average temperature of Shanhaiguan, the annual minimum temperature and the maximum temperature have fluctuated greatly, but overall they have shown an increasing trend. Climate change will have a bad impact on the lives of ancient city residents.



Problem Analysis

Weak infrastructure and poor living

Because the economy of the ancient city of Shanhaiguan is depression, its infrastructure cannot meet the needs of people in contemporary society.







Many fire hazards

The ancient city of Shanhaiguan is mostly wooden buildings, and the roadways are narrow, and there is a phenomenon of disorderly construction, leaving many hidden safety hazards.







Lack of greenery

There are few green areas in the ancient city. The planning of the ancient city pays more attention to the change of the architectural form, and the consideration of greening is insufficient.







The relocation of residents caused the ancient

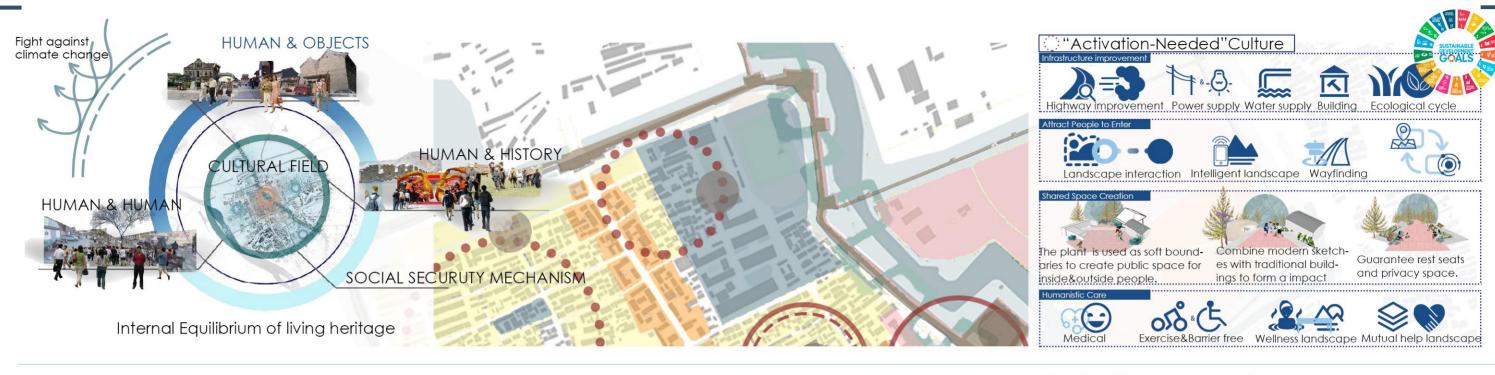
The poor living conditions have caused many local people to move away from the ancient city. Most of the people who are staying in the ancient city are elderly people.

















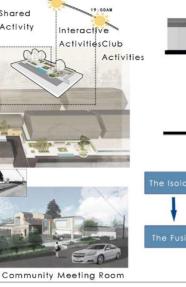


Activity Center



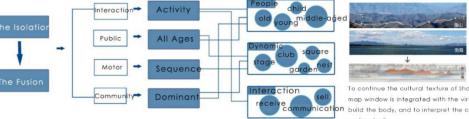
relatively intensive street space. Considering the cold winter climate of Shanhaiguan, the design inspiration is extracted from the traditional roof building to create a multi-functional community activity hall integrating the indoor space and outdoor space.







Community Meeting Room



Healing Garden

Healing Garden

map window is integrated with the virtual and real artistic conception of landscape to uild the body, and to interpret the concept of "mountain and sea landscape, virtual

Shan Hai Park



The design meets the needs of ancient city residents and tourists through improving functions, infrastructure and landscape space. In addition, the design integrates Shanhaiguan's culture into the site, and then forms a cultural field corresponding to the function and culture. Cultural Park, Vitality Park and Sunset Park tell the story of the ancient





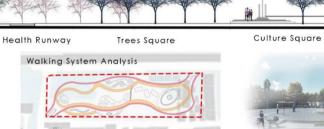
Healing Garden

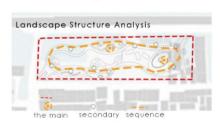
Light and Shadow Promenade





Functional Analysis



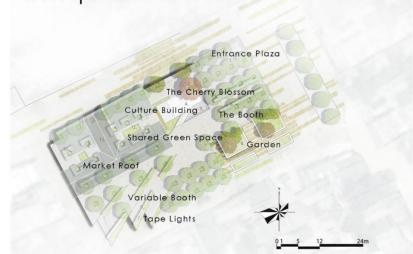




Culture

Vitality





Due to the large number of elderly people and children in the site, the height difference was not treated too much, but only changed appropriately on the basis of the original height difference. The site boundary and stage area were also treated in the form of slope release.

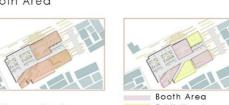










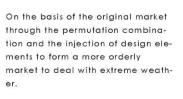


Indoor Market



Residents

Sinking Square



Tree-lined Space



Square Boundary Morning Market Roof

Residen.

Exhibtion Area

Variable Booth

Linear Booths