Research on the Optimization Strategy of Yueyang Waterfront Space from the Perspective of "Double City Repair."

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Abstract

The urban waterfront landscape is the most vital landscape form in the city, and it is the ideal habitat corridor in the city. From the perspective of "urban dual repair," we will explore a suitable and meaningful waterfront space planning strategy for the region. Taking Yueyang waterfront space as an example, this paper analyzes the current situation and problems of Yueyang waterfront space construction by introducing "city double repair" and waterfront space and extracts the optimization strategy of Yueyang waterfront space from the perspective of "double city repair." It provides a reference for the future development strategies of Yueyang City and other regions.

Keywords

"Urban Double Repair"; Yueyang City; Waterfront space; Optimization strategy.

1. Introduction

"urban double repair" refers to ecological restoration and urban repair. In the context of new urbanization development, the idea of "city double repair" can guide urban development transformation. It is a people-oriented, multi-level, and sustainable new urban development model [1].

1. Construction of Yueyang Waterfront Culture

Yueyang City has the natural geographical conditions of being surrounded by mountains and lakes, forming a unique water town culture in the urban area. The cultural contents that have a significant influence on the city of Yueyang include dragon boat culture, the history of the Three Kingdoms, the customs of Jiangnan water towns, and the architectural culture represented by Yueyang Tower and Yuezhou Confucian Temple. The water landscape of Yueyang City highlights the regional characteristics of the city and reflects the waterfront scenery on the banks of Dongting Lake and the Yangtze River [2]; the city center advocates a "water-friendly culture," and the urban suburbs support "natural ecology." The structure of Yueyang's waterfront culture is to strengthen the construction of the environmental protection area at the source of the urban water system in Yueyang, restore and optimize the function of the green ecological corridor of the urban river network and water system, and rebuild the ecological green space system by the standards of the environmental city.

2. Problems Existing in the Construction of Yueyang Waterfront Space

2.1. The Ecosystem Is Fragile, And the River Environment Is Harsh

In recent years, Yueyang City has vigorously developed its industry, and the industrial structure of Yueyang City has undergone significant changes. The industrial output value has increased year by year. Some textile mills and paper mills did not meet the sewage discharge standards, resulting in the deterioration of the water quality of the Beigang River and threatening the drinking water safety of urban residents.

According to the survey, many weeds accumulate in the Beigang River, which seriously damages the integrity of the river, blocks the residents' vision, and the continuity of traffic and visual corridors is poor. In addition, the continuity of the traffic system and landscape along the Beigang River is also hindered. The pedestrian and non-motorized vehicle passages are affected to a certain extent because the walking path along the river is too narrow.

2.2. Riverside Traffic Is Chaotic, And the Space Function Is Single

The waterfront space attracts many tourists because of its diverse and complex functions. However, the waterfront space located along the banks of Bajiao Lake and Beida Lake currently has insufficient supporting roles for walking tours and leisure viewing. It cannot effectively carry tourism, sports, entertainment, and culture—functional requirements for leisure and other aspects [3].

The waterfront space of Yueyang City has not formed an ecological circle of "river-bank-city," and the radiation and permeability of Dongting Lake to the town are insufficient [4]. In the area along the river, the pedestrian traffic corridor is chaotic due to the high-rise buildings blocking the line of sight, resulting in poor visual experience continuity and failing to form an organic whole.

2.3. Insufficient Promotion of Culture and Lack of Traditional Style

The city of Yueyang has a profound history and culture and is rich in folk customs. The waterfront space is an important area for the town to display its characteristics. There are only a few publicity boards introducing traditional businesses, and there are no large-scale and systematic cultural publicity objects. The application of distinctive culture in waterfront space is lacking, and the propaganda efforts are insufficient.

2.4. Improper Management and Maintenance and Insufficient Public Participation

There are two main problems in the maintenance and management of Yueyang waterfront space: one is that a large number of motor vehicles are illegally parked on the pedestrian road, which hinders the passage of pedestrians; The third is the lack of management of hydrophilic facilities and equipment, a large number of expensive facilities have been destroyed by a large number of people in a short period, and public resources cannot be adequately managed and maintained.

3. Suggestions on Optimizing Yueyang Waterfront Space from the Perspective of "Double City Repair."

Advocating the concept of "ecological restoration," based on respecting the laws of ecology, the construction of waterfront space scenery belts enriches the existence of urban green space to a certain extent [5]. Ecologically restored cities will have parks and square green space systems, wetland parks with climate-regulating functions, and green corridors of various shapes. The urban greening system presents a diversified and uniform distribution. In areas with high flood control pressure, some challenging slope protection can be used to construct waterfront space. Based on meeting flood control requirements not only optimizes the ecological landscape structure but also enhances the integrity of the urban natural ecology.

Advocating the concept of "urban repair" can make the waterfront space attract more residents and foreign tourists to travel, making up for the leisure function that the city center does not have. The waterfront space can enrich the city's green area, improve the city's ecological quality, supplement the regional characteristics of the town, and increase the city's cultural heritage.

3.1. Protect the Ecosystem, Repair the Ecological Network

The original natural landscape is always the essential value of the waterfront space. When planning and designing the waterfront space, how to protect the river's natural state, restore and promote the ecological cycle, and restore the ecological corridor of the Beigang River. It is the focus of the planning strategy [6].

Start from the source, strictly control sewage discharge in industrial parks, and end all wastewater that does not meet the standard and illegal clearance. Flood resistance is a prerequisite for the transformation of waterfront space and ecological restoration. In addition, the water storage capacity and water purification capacity of the river body must be ensured so that the city can retain precious surface water resources.

Revitalizing the economy is one of the "city double repair" goals. The construction of waterfront space needs to be carried out in combination with different types of land use conditions. First, the land use is classified, the value of each type of land is comprehensively analyzed, and various functions such as residence, riverside green space, and campus vegetation are combined. The attractiveness of residents and foreign tourists increases the city's vitality, promotes the development of the city's economy, and makes new contributions to the growth of the city's GDP.

There are three problems in Yueyang waterfront space maintenance and management. Many motor vehicles park illegally on pedestrian roads; Booth displays disorder, poor business environment, lack of leadership; Public water facilities lack direction, are vandalized, and cannot reach their expected service life.

3.2. Implant Characteristic Culture and Traditional Shape Style

The construction of the waterfront space should fully tap the historical and cultural resources of the city and combine the cultural and historical features with the construction of the waterfront space. Inheriting cultural self-confidence, creating unique traditional features, and local areas' unique charm should be considered in future planning. The natural mountain water resources and human and historical resources are organically combined. The Dongting Lake, Yueyang Tower, Dongfeng Lake, Chenglingji, the Yangtze River, and the ecological scenery of the urban countryside are connected in series to form an environmental viewing circle. The organic integration of historical and human resources and natural landscapes will create a famous historical and cultural city.

3.3. Strengthen Government Guidance and Promote Public Participation

In cities with rivers running through them, the planning and design of coastlines are often an essential aspect of urban construction planning and design considerations. Each city's riverbank has its unique natural characteristics and resource conditions. The government planning department should combine the concept of urban dual repair, integrate the existing flood and disaster prevention facilities, create a beautiful waterfront ecological style, and create a city suitable for the people of Yueyang. A livable and travelable living space.

In general, waterfront space planning and design require colossal government investment. The Riverside Park project, built with massive capital in the early days, demonstrated the government's determination to implement the concept of "city weekends" and its attitude to improve the ecological environment for urban residents. However, judging from the city's current situation, due to insufficient public participation and insufficient government control, many expensive public facilities have lost their use-value before their service life has reached their service life. In this regard, it is suggested that the government should strengthen supervision and impose administrative penalties on relevant individuals or groups that damage public facilities and damage the integrity of waterfront space.

4. Conclusion

From the perspective of the concept of "double repairs in the city," this article takes Yueyang's urban waterfront space construction planning as a case to illustrate. The construction of urban waterfront space plays a vital role in promoting the city's development. For travelers, it can effectively relieve the traffic pressure in the riverside space and make walking travel more convenient; in terms of urban resource utilization, it can organically combine humanistic and historical resources with natural mountain water resources, effectively integrate and utilize urban resources, and increase the vitality of the city. In terms of natural ecology, the construction of urban waterfront space improves the quality of water resources, protects the urban natural ecosystem, repairs and improves the urban facilities. The construction of urban waterfront space is conducive to boosting urban economic development and has made significant contributions to constructing a pleasant and livable.le green urban living space.

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