

Study on the Construction of Urban Ecological Landscape Space from the Perspective of Sustainable Development

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Abstract: With the progress of society and the acceleration of urban development, the appearance of the city is changing with each passing day. The construction concept and mode of new urban landscape are constantly updated by the times. Urban ecological landscape is the link between urban natural resources and ecosystem construction, which directly affects the ecological development of the city. In the context of adhering to the sustainable development strategy of urban development and construction, we should make use of natural ecological resources to interweave and blend the city and nature. Based on this, this paper expounds the construction of urban landscape ecological space from the perspective of urban ecology and sustainable development, and attempts to analyze and study the urban landscape ecological space under this concept.

1. Introduction

The core of sustainable development is development, including economic sustainable development, ecological environment sustainable development and social sustainable development. Sustainable development can promote the coordinated development of economy, society, resources and environmental protection. It can not only promote economic and social development and better meet the needs of contemporary people, but also protect the environment and resources so that future generations can develop sustainably. However, in today's ecological imbalance, people's attitude towards the natural environment is based on the pursuit of formal beauty and visual beauty. The blind construction of urban landscape and the neglect of ecological ethics lead to the lack of ecological concept and context of urban landscape. With the proposal of the concept of ecology, the harmonious coexistence of city, man and society is also imminent. As an important aspect of urban planning, urban landscape design takes sustainable development theory as the guidance and natural ecology as the core, pursues the coordination between landscape design and ecological ethics, and constructs the sustainable development of ecological space, so as to achieve the balance of urban ecological environment and realize the construction of urban landscape ecological space.

2. Significance of Urban Ecological Landscape Development

With the continuous acceleration of China's urbanization process and the continuous increase of urban population, the large-scale expansion of cities has brought problems such as environmental pollution, ecological damage and the depletion of natural resources. Urban ecological landscape often has irreversible characteristics. In the historical development of cities, urban ecological landscape often shows distinct natural ecological characteristics. Urban ecological environment plays an important role in the stable development of the city. Therefore, the planning and design of urban ecological landscape has attracted extensive attention of the society. In order to meet the needs of sustainable development, the urban ecological landscape needs to change its thinking and build an ecological development mode, so as to avoid irreversible damage to the urban ecology in the process of social development, maintain the integrity of the urban biological chain, ensure that human activities are within the city's affordability, strengthen the concept of sustainable development and create an urban environment that meets the needs of natural ecological development, Broaden urban development space, ensure urban development, and continue the natural space system and historical context(Tang Yiping,2018).

3. Existing Problems in the Development of Urban Ecological Landscape Space

3.1. Do not pay attention to the concept of sustainable development

Although with the continuous development of human society, people gradually pay attention to the ecological problems of cities, in many cities in China, managers only pay attention to the social and economic development of cities and ignore the construction of urban ecological landscape. In urban development planning, they only sort out and develop the original economic pattern of the city, ignoring the protection of the urban ecological environment, resulting in the original ecological environment not only not being fully protected, but also being damaged to a certain extent, affecting the sustainable development of the city.

3.2. Lack of good urban management level

There are still many deficiencies in China's urban management. The experience and level of urban environmental management in China can not promote the further development of urban landscape ecology. Firstly, China's urban ecological environment still lacks relatively perfect laws and regulations. Secondly, it lacks effective norms and management, which affects the protection of urban ecological landscape. Secondly, China still lacks an effective urban ecological landscape management system. There is an urgent need to establish a management talent echelon with professional knowledge and management level, so as to form a professional management system and promote the sustainable development and construction of urban ecological environment protection. Finally, in the specific urban ecological protection work, the corresponding managers still lack enterprising spirit, resulting in low work efficiency and affecting the construction of ecological environment.

4. Construction of Urban Ecological Landscape Space

In urban landscape design, space is an important way of display, and the language expression of space is an important way of expression in urban landscape design. With the help of spatial language, plan the overall urban pattern, guide the overall urban ecological pattern and ensure the sustainable development of urban ecology. Under the concept of ecological sustainability, urban ecological landscape design needs to explore and study the correlation of ecological landscape according to different urban spatial structure and pattern.

4.1. Connotation and characteristics of urban spatial form elements

For urban spatial form, design is one of the important links of urban spatial pattern. The urban spatial form in the urban landscape pattern is mainly the landscape elements, spatial form and position of urban landscape in the urban spatial sequence. At the same time, ecology can also be reflected at many levels through the spatial pattern of urban landscape, such as urban green space, urban parks and so on(As shown in Figure 1). Urban landscape space needs to clarify the development direction, promote urban development, green space construction and ecological construction, so as to improve the overall spatial pattern of the city. In the construction of urban landscape spatial pattern, the protection and development of urban ecological environment is a relatively weak link. Under the background of continuous social development, people gradually pay attention to the expression of ecological concept in urban landscape pattern, put forward the construction of urban ecological spatial pattern, and pay attention to the research of urban ecology. The development of urban ecological landscape has an important impact on urban development, resource utilization and livability.



Figure 1 City park ecological landscape.

4.2. Dynamic mechanism of ecology or space

In the concept and connotation of urban ecological landscape, urban ecosystem mainly exists in the city in material form. Urban ecosystem needs to occupy a certain urban space. Through the ecosystem elements of different elements, a specific urban ecological pattern is formed, and the corresponding relationship between ecology and space is formed(Jiang Xiaoli,2019). Ecology and space form an organic connection, and then form an impact mechanism, which affects and depends on the overall spatial pattern and ecological balance of the city. Therefore, urban ecological landscape is not only an organic part of the overall development of the city, but also the driving force of urban space, urban economic and social development. This is the dual result of economic and social development(As shown in Figure 2). However, while constructing the urban landscape, it also has a certain impact on the urban context. Context is the psychological cognition and cultural identity of urban residents in the process of urban development. This cultural driving force reflects the relationship between people and society in the city and the historical state of urban context. The organic combination of urban context and ecological landscape reflects the continuity of urban space and the sustainable development of urban context.



Figure 2 Overall display of urban ecological landscape.

5. Construction of Urban Ecological Landscape Space under the Concept of Sustainable Development

From the concept and connotation of ecology and city, the construction of urban ecological landscape space needs to be carried out on the basis of a certain urban spatial pattern, ensure the balance between ecology and development and the sustainability of human and social development under the concept of sustainable development, and put forward requirements for urban development and ecological environment construction from the dimensions of economy, society and culture, This paper discusses the construction of space system from the following aspects.

5.1. Continuation of regional urban characteristics

Due to the influence of different regional cultures, people in different regions have obvious regional differences in spatial cognition and lifestyle choice. This regional difference constitutes the different cultural characteristics of different regions and reflects the cultural diversity and humanistic complexity. Therefore, urban landscape also has obvious regional characteristics in the process of development. The characteristics of urban landscape zoning can not only reflect the historical features of a city, but also reflect the urban pattern and urban form in different periods. The integration of history and ecology is the basis of urban integration. Therefore, the urban ecological landscape space under the concept of sustainable development needs to emphasize the regionalization of the city, reflect the continuity of urban ecological landscape construction, grasp the urban context and regional characteristics, emphasize the organic combination of ecology and natural environment, and emphasize the combination of culture and urban development, so as to form a continuous urban landscape with regional characteristics.

5.2. Emphasize the continuity of ecological space

Urban ecological landscape is a part of urban landscape. By emphasizing the integrity of ecology and environment and the sustainable development of ecological landscape design, we can ensure the recycling of resources. The continuation of landscape ecological space is reflected in the harmonious development of man, city and nature, the protection and development of the original urban ecosystem, the protection and development of cities in the multidimensional space of economic, social and natural development, harmonious coexistence, mutual benefit and win-win and common growth, the reconstruction of urban spatial pattern, the optimization of urban spatial pattern in the sustainable development of urban ecology, and the people-oriented principle, Realize the harmonious unity of man and man, man and society, man and nature.

5.3. Inherit the concept of sustainable symbiosis

In the construction of urban ecological landscape pattern, we should shape the urban landscape design that meets the needs of urban residents, shape the concept of harmonious coexistence according to the behavior of urban residents and urban ecological development, comply with natural development, adapt to natural laws, and emphasize the sustainable development of urban environment and natural environment. Only by continuously strengthening the harmonious coexistence between man and nature can we establish a harmonious holistic view and symbiotic consciousness and realize the sustainable development of the city.

5.4. Sustainable development of context

Urban landscape context refers to the regional natural landscape and cultural landscape with rich connotation combined with regional natural conditions, history and culture, social development, economic level and other development elements. Urban landscape design needs to fully rely on the supporting relationship between urban natural history and human history, emphasize the harmonious coexistence of urban residents, respect the urban development history, continue the urban historical context, grasp the development of urban landscape ecological space, aim at continuing the historical characteristics of context, create a context in line with urban history and culture, and form a sustainable urban context.

6. Conclusion

Sustainable development is an important issue concerned by people in recent years. This paper puts forward the sustainable development strategy of urban ecological landscape reconstruction. Combined with the traditional urban spatial pattern in China, emphasize the establishment of urban spatial pattern construction methods in line with the characteristics of the city, explore the relationship between urban space and urban ecological development, combine the interdependence between people and the city, take ecological space as the center and sustainable development as the concept, and build a sustainable urban ecological landscape pattern with harmonious symbiotic context, Promote the harmonious and stable development of people and cities, and build an urban ecological landscape system.

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