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## On the construction of environmental beauty of urban-rural integration

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### ABSTRACT

Constructing Environmental beauty of Urban-rural integration is an inevitable requirement of the construction of Chinese ecological modernization. To promote the construction of environmental beauty of Urban-rural integration, we must protect, build and make perfect the composite system of the ecological environment of Urban-rural integration, following ten principles for the construction of environmental beauty of Urban-rural integration, achieving the six overall objectives of the construction of environmental beauty of Urban-rural integration.

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### KEYWORDS

Urban-rural integration;  
Environmental beauty;  
Construction.

### CONSTRUCTING THE COMPOSITE ECO-ENVIRONMENT SYSTEM OF URBAN-RURAL INTEGRATION

The environmental system of urban-rural integration mainly consists of such three subsystems as natural environment, human environment and economic environment. They are intertwined, helping and restricting one another, and they constitute the contradictory activities of composite eco-environment system, the wide environment of urban-rural integration. Therefore, to create an integrated environment beauty of urban and rural areas, first of all, we must promote the construction of the composite eco-environment system of urban-rural integration.

First, the natural environmental system of urban-rural integration must be maintained, built and made perfect. The natural environmental system is the overall

system that has the main line of natural environment, which has the basic materials human live on and some composing structure and function. The natural environmental system itself has the integrity that is the integrated capacity of the natural environmental system. It is the capacity that the natural environmental system supports and maintains biological communities that are consistent with regional natural habitats, balanced, completed, having adaptive capacity, and have a certain species composition, biodiversity and functional properties. The emergence and construction of city have broken the natural ecological cycle of urban and rural areas and undermined its integrity. To create the environment of ecological beauty of urban-rural integration, it is necessary to coordinate the planning and construction of the natural environment in urban-rural areas, to build the greening system of large environment of urban-rural integration, to maintain and restore the cycle network of

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natural ecosystems in urban and rural areas, and to restore and protect the natural ecological integrity of urban-rural integration. Second, the economic environmental system of urban-rural integration must be built and made perfect. Resources is the core of economic environment system involving production, distribution, circulation, consumption, and so on. The basic characteristics of economic environment system are: Firstly, materials run high-densely from the scattered to the concentrated; Secondly, energy concentrates high-densely from the low-quality to high-quality; Thirdly, informations accumulate continuously from low order to high order. To build the ecological beauty of urban-rural integration, it is necessary to plan scientifically and develop coordinately the economic environment construction of urban-rural integration. The new pattern must be formed, involving coordinating urban and rural areas, cities driving countrysides, industry promoting agriculture, integrating resources, urban and rural areas interacting, advantages being complementary, progressing commonly, developing integrately. The good economic environment of urban-rural integration must be created and the comprehensive, coordinated and sustainable development of urban and rural economy and society must be promoted.

Third, the human environment system of urban-rural integration must be built and made perfect. The human environment system is also called the social environment system, which is people-centered, including urban and rural residents and all the aspects of their material life and spiritual life. To build the ecological environment beauty of urban-rural integration, it is necessary to plan unitedly and develop scientifically the construction of the human environment of urban-rural integration; It is necessary to take the realization of the integration of urban-rural social causes as a goal, and plan overall and develop harmoniously the urban and rural cultures, education, health, social security system, and so on; It is necessary not only to improve the urban living environment, but also to improve the entire rural social atmosphere; It is necessary to take measures to make urban-rural administrative environment clean and efficient, legal environment fair and equitable, market environment normal and trustworthy and human environment healthy. Only in this way can the human environment of urban-rural integration be really built per-

fectly.

Finally, the composite environmental systems of urban-rural integration must be built, and the natural environmental system, the economic environmental system and the human environmental system of urban-rural integration must achieve an organic unity. In the composite environmental system, the natural systems, economic environment systems and human environment systems are intertwined, supporting and restricting one another. A complete and healthy composite environmental system can support life system effectively. It is consistent with the level of human health, economic sustainability, level of technological development, public environmental awareness and so on, and has good ecological value, social value, economic value and aesthetic value. Only if the economic planning, natural environment planning and human environment planning are integrated organically, can the composite environmental system of urban-rural integration really be built, and the economic, social, ecological and aesthetic benefits be made united perfectly<sup>[1](P318-323)</sup>.

### THE CONSTRUCTION PRINCIPLES OF ECO-ENVIRONMENT BEAUTY OF URBAN-RURAL INTEGRATION

The planning of eco-environment beauty of urban-rural integration is the basic means of the construction of eco-environment beauty of urban-rural integration, and it has a very rich content and a wide range of application areas. In view of domestic and international ecological planning of environment, the following principles should be followed in the planning and construction of the environment beauty of urban-rural integration.

First, the overall optimization principle of urban-rural integration. From the system component point of view, the eco-environment beauty of urban-rural integration consists of natural environment system, economic environment system and human environment system. The subsystems have interacted continuously; From the geographical point of view, it includes not only the cities, but also the countrysides. That is to say, it is an organic whole combined with urban and rural areas. Therefore, in the planning and construction of eco-environment beauty of urban-rural integration, we must proceed from the overall of the entire urban and rural

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environments, analyze comprehensively the whole urban-rural environment, make full use of 3S technology and system approach theories, survey the coordinated development of all subsystems, take the urban environment and the environment throughout the region as an organic whole, so that the urban-rural environment structure, pattern and proportion, regional natural features and economic development achieve the overall optimization, and the four kinds of profits in the environment of urban-rural integration, the ecological, social, economic and aesthetic profits, achieve harmonization and maximum efficiency.

Second, the principle of temporal and spatial depth and breadth. From the space point of view, not only the city's rural background should be considered, but also the broader space background outside the region of urban-rural integration should be considered, so that the planning area and the background of space achieve an organic fusion; In terms of time, the longer historical background of the planning region of urban-rural integration, including bio-geographic history, cultural history and natural disturbance conditions, should be considered; In the planning and design, the flexibility of planning region to the change in the future should be considered. In environmental planning, only if the two factors, time and space, are considered comprehensively, the possible conflicts of interests between them are harmonized, can the construction and sustainable development of the eco-environment beauty of urban-rural integration be realized.

Third, the principle of heterogeneity and diversity. Heterogeneity is one of the most important characteristics of the environment beauty of urban-rural integration. The maintenance and development of heterogeneity is the important principle of the planning and construction of the environment beauty of urban-rural integration. Environmental diversity is an important indicator to measure the complexity of embedded block in the environment, which includes the patch diversity, the type diversity and pattern diversity. The diversity is of great significance to the survival and development of the environment beauty of urban-rural integration, and it not only is the principle of the planning and construction of environment beauty, but also is the excellent result of the management of environment beauty. In the planning and construction of the environment beauty of

urban-rural integration, the natural conditions, economic base and human factors should be surveyed. With the help of various environmental allocations, the environmental heterogeneity will be improved, and the unity of the heterogeneity and diversity of urban-rural integration of natural environment, economic environment and human environment will be achieved.

Fourth, the environment-oriented principle. Environments having different characteristics are the same as the people having different faces. Each Environment has its individual characteristics different from the others', whose differences are reflected in the the structure and function of the environments. To carry out the planning and construction of the environment beauty of urban-rural integration, different measures should be taken according to local conditions and reflect the characteristics of the local environment, which is the objective requirement of the geographical difference laws of geography. Therefore, to carry out the planning and construction of the environment beauty of urban-rural integration, we should consider the specific rural and urban environments of specific regions because the environments in different regions have different structures, patterns and the characteristics of ecological processes, select different indicators of analysis, use different methods of planning and construction, distribute plant species rationally, build a three-dimensional, colorful, multi-level urban-rural integrated green environment.

Fifth, the principle that the structure and function of environment are people-oriented. Since the subject of the planning and construction of the environment beauty of urban-rural integration and the aesthetic subject are persons, that is to say, the environment beauty of urban-rural integration is built not only by persons, but also for persons, so in the process of the design and construction of the environment beauty, a variety of needs of human material and spirit should be given full consideration, and the people-oriented principle should be followed. It is necessary to safeguard not only the natural ecological functions and processes but also the people's mental and physical health. Reasonable arrangement of the spatial structure of urban-rural integration, organizational harmony of the land use, abolition of the non-human layout with mixed function and mutual interference, and striving to provide a variety of convenient and comfortable working and living places

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with different features, can make the living environment, quality of life, urban and rural cultures promote mutually.

Sixth, the principle of scale. Since the environment structure of urban-rural integration consists of many environmental unit elements, so to plan and build the beautiful environment of urban-rural integration, it is necessary to plan all the unit patches reasonably and pay attention to the scale of various unit elements in the environment. This kind of scale has a concrete manifestation including the urban-rural eco-green scale, the fragmentation of urban-rural connecting areas, the isolation scale of connectivity environment corridor, and so on. The detailed analysis of the scale sensitive areas, the definition of the reasonable scale, and making appropriate planning and management measures, are of great benefit to play the scale characteristics of these areas fully in the planning and construction of the environment beauty of urban-rural integration and achieve the mutual coordination of the environmental units in urban and rural areas.

Seventh, the principle of giving priority to the natural environment. According to the environmental ecology principle, if the planning and construction of the environment beauty of urban-rural integration are conducted, we must first focus on the protections for the natural environments such as water resources and important forest green space in urban and rural areas, especially for the environmentally sensitive areas that should be extra protected; We must not put human intervention in the nature beyond the capacity of environment and we must keep the basic channel for the material and energy flows of ecosystem unobstructed; The natural environment that has to be damaged must be compensated or rehabilitated; The relics retained in primitive nature must conduct absolute protection, because today the really primitive natural environments on the earth have almost been destroyed, which preserved are extremely scarce, but they do have such very valuable values as ecological value, scientific research value, humanity value, and so on. Therefore, when the planning and construction of the environment beauty of urban-rural integration are conducted, the natural environment should be protected preferentially.

Eighth, the principles of coordinating ecological relationships, recycling, regenerating and sustainable de-

velopment. Conducting the planning and construction of the environment beauty of urban-rural integration, we must pay attention to the capacity of the environment and sustainable development, as well as the coordinations of the relationships between man and environment, living things and environment, living things and living things, socio-economic development and resources, artificial structure of environment use and the natural structure, ecosystems and ecosystems. We should take sustainable development as our objective, be based on the sustainable use of environmental resources and ecological environment improvement, emphasize using the cycle and regeneration functions of ecosystem to build the green land system of the park of urban-rural integration. In environmental planning and construction, only full account of the coordination of the short-term benefits and long-term benefits is taken fully into and the harmonization of ecological, social, economic and aesthetic benefits is achieved, can the sustainable socio-economic development be ensured, and the harmony and coexisting between man and nature realized, and the truly beautiful environment of urban-rural integration created.

Ninth, the principle of economy and high efficiency. The principle emphasizes, in accordance with ecological laws, economic laws, social laws and aesthetic laws, using a minimum of artificial (fund) investment to freely and consciously improve the eco-environment systems of urban-rural integration to meet human physical and mental regeneration. The principle emphasizes, with the help of the construction of efficient artificial ecosystems, to eliminate the status of the unplanned, unorganized, spontaneous occupation of land, to manage the limited urban-rural land unifiedly and intensively, to protect the centralized farmland patches and the others, to control the blind expansion of architecture blocks, make perfect the natural ecological processes, and to improve a variety of benefits. Tenth, the principle of comprehensiveness. Environment is the carrier of nature and culture, whose structure is very complex. Conducting the planning and construction of the environment beauty of urban-rural integration, we must understand and grasp correctly the origin, the status quo and the change mechanism of the environment. However, the analysis of them is neither able to be achieved by a single subject, nor fully understood by a single professional. Be-

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sides this, a single professional is not able to make a rational decision to meet their inherent complex relationships. It needs the close cooperation between many required disciplines to achieve the analysis. In addition to this, the planning and construction of the environment beauty of urban-rural integration has the purpose of reasonable adjustment to urban-rural environment. Apart from the natural properties of environment itself, the planning and construction must also be relate to the society, economy, human's values and aesthetic viewpoints, and so on. Therefore, the planning and construction of the environment beauty of urban-rural integration is a comprehensive job, so we must take such problems as socio-economic conditions, economic development strategies and population into comprehensive consideration on the base of the comprehensive analysis of a variety of natural conditions<sup>[1](P328-332)</sup>.

### **THE OVERALL OBJECTIVES OF THE CONSTRUCTION OF THE ECO-ENVIRONMENT BEAUTY OF URBAN-RURAL INTEGRATION**

First, the scientific planning. In the planning, people should vigorously follow the urban-rural integration strategy, building the infrastructure systems of urban-rural integration; The regions such as residential areas, public building service areas, economic development zones, should be divided scientifically, and a variety of infrastructures distributed rationally. The planning should highlight the cultural connotations, reflect the regional characteristics and the characteristics of urban and rural areas, strive to achieve the harmony and unity of landscapes, garden cities, residential areas, roads, afforestation and building styles. People should take urban-rural integration as the criterion, and the matched policies and measures as the protection, complete the project works with high quality and high standard, improve rural production and living environment continuously, heighten the quality of life of urban and rural residents. Second, the economic development. The development of eco-economy should be put in a prominent position, and the developing way to rural and urban eco-economy actively explored. We should pay greater attention to problems in the the course of economic development such as fast reduction of arable land, shortage of energy, water stress and so on, persisting in walk-

ing along the roads of intensive and effective agriculture and new-type industrialization, changing the mode of economic growth effectively, improving continuously the utilization efficiency of all types of natural resources, making great efforts to cultivate and strengthen manufacturing industry, ecological agriculture, tourism, so that a number of strong businesses and well-known branded products will appear, and the distinctive economic system of urban-rural integration will be built. We should set up eco-industrial mode gradually, advocating vigorously the green industry, striving to develop circular economy, promoting industrial restructuring and the fundamental change of economic growth mode, and ensuring the coordination of economic development and environmental protection.

Third, the matched facilities. We should strengthen the infrastructure construction of urban-rural integration, taking five urban-rural integrations of electricity, water, roads, telephones, cable televisions, and five urban-rural integrated projects of induration, virescence, decontaminating, landscaping and lighting as the basic standards, taking the construction and improvement of urban-rural integrations of surrounding environment, local environment and home environment as its main content, building the roads of urban-rural integration actively, and improving further the transport networks of urban-rural integration. Based on meeting the spiritual and cultural needs of urban and rural residents, the cultural and sports infrastructure focusing on the "five one" should be gradually established and perfected, which includes one culture room, one sports venue, one publicity and reading column, one village school and one green leisure park, to provide the basic conditions for urban and rural residents to carry out cultural and sports activities.

Fourth, the beautiful environment. We should intensify efforts of the integration of regional resources, strive to create the policy framework and the flow mechanism of factors of production of urban-rural integration, develop green industry, construct green homes and maintain a good ecological environment, in accordance with the thought that includes sharing the advantage of resources jointly, building infrastructure collectively, creating industrial advantages conjointly, protecting ecological environment in common, and the environment planning of the national demonstration

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zones of ecological construction and urban-rural integration; We should emphasis on improving the urban and rural hardware environments, shaping the “clean, beautiful and new” images, paying attention to deepening and expanding the connotation, and creating the urban-rural integration environment which is human, peaceful, credit worthy and efficient; We should continue to improve the soft environment for economic development, and promote the construction of urban-rural integration environment beauty. If so, we will be able to build the modern beautiful environment of urban-rural integration that has the best environment for business, the best living environment, and the most powerful general strength.

Fifth, the fine ethos. We must study deeply the important thought of “three representatives”, the principles and policies of our party and the laws and regulations of our country, establish stably the concept of scientific development, and enhance urban and rural residents’ ideological and political quality, policy level, market awareness and legal concept; And we should implement the “Outline of the Construction and Implementation of Civil Morality”, keep doing a good job to create civilized households, promote vigorously the education project for urban and rural residents, carry out the activity deeply and sustainably, “three stresses and one cultivation”, improve the ideological and moral levels of urban and rural residents effectively, and form a good moral atmosphere; We should also carry out the education of eco-environmental protection, publicize all kinds of knowledge of environmental protection, using colorful activities, educate and encourage the mass to participate in eco-environmental protection activities consciously, and cultivate the good habits of urban and rural residents.

Sixth, normal management. We should strengthen party building and its management, build well the leading bodies and the ranks of party members; We should perfect the management mechanism for urban and rural integration, and establish and improve the electoral system and the representative meeting system of urban and rural residents; We should institute the public principles and regulations adapting to the requirements of civilized demonstration construction to improve the abilities of the self-management and self-education of urban and rural residents; We should establish various

types of mass moral educational and self-regulatory organizations to guide and standardize the day-to-day behaviors of the vast number of urban and rural residents; We should strictly enforce family planning regulations and policies, strengthen family planning management, to ensure that family planning work gets its standard; We should put an end to the evils such as “pornography, gambling, drugs, darkness”, and so on, combat all kinds of evil cults, illegal religions and feudal superstitious activities, and strive to create the peaceful environment in which the mass can generally enhance their sense of security<sup>[1](P345-349)</sup>.

To sum up, if we carries out the planning and construction of the eco-environment beauty of urban-rural integration, we should not only first build a good composite eco-environment system of urban-rural integration, but also follow the top ten principles of the construction of eco-environment beauty of urban-rural integration. Only in this way, can we achieve the overall objectives of the construction of eco-environment beauty of urban-rural integration, form the beautiful production environment, living environment and ecological environment of urban-rural integration, build our society into a true recycling and ecological society which is worth of the name, and change the Earth where our human lives on into a real “eco-village”.

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