Research on Digital Protection and Inheritance Path of Ancient Villages

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Abstract: Ancient villages are the production and living places of ethnic minority villagers. After thousands of years of development, there is a pleasant living environment and landscape of ethnic minorities, and a profound spiritual civilization and custom culture of ethnic minorities has been produced. At present, there are few studies on the digital protection and inheritance of ancient ethnic villages, and specific practical cases need to be further improved. Therefore, this article discusses the digital protection and inheritance of ancient ethnic villages. By analyzing the construction forms of characteristic ancient villages and the protection and application of cultural heritage, we further study the formation of traditional cultural characteristics of ancient villages and the relationship between protection and development. Finally, the article reveals the planning path of the sustainable development of ancient villages, and proposes the protection methods and application strategies of ancient villages with ethnic characteristics.

Keywords: Ancient villages; Digitization; Protection and inheritance

1 Introduction

The ancient village is a fresh carrier of my country's history and culture, and a branch of China's excellent traditional culture (Huang, 2020). Ancient villages in my country have high economic, social, historical, cultural and other aspects of research value. The historical and cultural resources and natural ecological resources contained in them also play a role in promoting the development of cultural undertakings in my country. The ancient villages of ethnic minorities have condensed the epitome of the material forms and ideologies of ethnic minorities for thousands of years. However, since the 21st century, the process of urbanization and industrialization has been accelerating, and Chinese ancient villages have gradually disappeared. According to statistics, from 2000 to 2010, about 25% of natural villages disappeared, and these disappeared natural villages also contained ancient villages with historical and cultural value.

The digital protection and inheritance of ancient villages is an exploration of the application of a protection model, as well as an exploration of technology. New digital technology can activate more information and data about the traditional culture of the ancient minority villages in northern Guangxi. Through this information and data, we can create a new ancient village civilization and restore the historical appearance of the ancient village. At the same time, people can obtain relevant knowledge.
through digital technology, and create a variety of new possibilities for the protection and inheritance of ancient villages. We must realize that contemporary China is gradually entering a digital society, and digital technology is gradually entering all areas of society, slowly integrating with people's lives (Huang, 2020).

2 Overview of Digital Protection and Inheritance of Ancient Villages

The digital protection and inheritance of ancient villages refers to the use of digital equipment and technology to collect and process ancient village information, store and publicize it, so as to promote the protection and inheritance of ancient villages. In the process of digitization, the protection of ancient villages is the key, and inheritance is the goal. The ancient villages are an important part of traditional culture and also a realistic portrayal of traditional culture. The protection of ancient villages is the basis of a series of other activities (Luo, Zhang, Liang & Zhang, 2019). In recent years, China has paid more and more attention to the protection and inheritance of ancient villages. Although we have issued relevant policies, we still need to use better protection methods and technologies. Digital protection can improve the efficiency and accuracy of work, and can greatly improve the authenticity and diversity of ancient villages, so that the material and spiritual culture of ancient villages can be preserved and developed permanently.

After thousands of years of evolution, traditional villages have formed a modern form, which carries the material form and spiritual civilization of thousands of years. We have the responsibility and obligation to protect and promote the elements of the ancient village. With the continuous upgrading of information technology, digital technology is closely related to people's lives today. The use of digital technology can promote the protection and inheritance of spiritual civilization and material civilization of ancient villages, and provide new concepts and technologies for the protection, supervision, restoration and development of ancient villages, and make the environment and landscape of ancient villages. The protection is more scientific and complete, so as to achieve environmental reproduction and permanent preservation. Especially with the rapid development of modern science and digital technology, people's vision of recreating the "original appearance" of ancient villages has gradually become a reality. The ancient villages in northern Guangxi occupies the majority of the district and are widely distributed. The protection and inheritance of traditional ancient villages is passed on from generation to generation through guardians, and with the considerable environmental impact, there are missing phenomena. Digital technology can provide data archiving support for the monitoring, repair, and research of ancient villages in the future, and ultimately enable the inheritance of the spatial form and spiritual culture of ancient villages.

3 Current Deficiencies in the Digital Protection and Inheritance of Ancient Villages

The digital protection and inheritance of ancient villages mainly relies on modern information technology. Digital acquisition, integration and long-term preservation of material and spiritual cultural information of ancient villages provide a new effective path for the protection and inheritance
of ancient villages. First of all, we need to obtain various ancient village characteristic information, form digital information data, and use big data analysis methods to mine and process the information under certain conditions, so as to generate valuable information and data for use. The protection and inheritance of ancient villages is a systematic and difficult task. In terms of digital protection and inheritance, we can mainly start from two levels. The first is material culture, which refers to the culture that can be directly observed and touched from the ancient villages, such as buildings, event squares, and plants. The second is spiritual culture, which corresponds to material culture, such as social system, language culture, and life customs.

As the connection between digital technology and various disciplines is getting closer, the protection and inheritance of ancient villages through digital means has formed a trend. And in recent years, a system and theoretical support have also been formed. However, there are still some shortcomings in the actual work process.

3.1 Lack of System

With the continuous development of technology, the current social information dissemination is more efficient and high-speed. However, the digital information of ancient villages is more complex and has different sources. For example, geographic data information comes from surveying and mapping departments, and historical and folklore information comes from cultural departments. In addition, there is no unified system for regulations, which leads to the diverse and inconsistent forms of information collected by various departments. Because there is no unified system, and there is no unified standard and format for all kinds of information, it cannot be connected and shared in a timely manner. This has added difficulties to the digital protection and inheritance of ancient villages in northern Guangxi. The lack of a good system will increase unnecessary energy and funds in the process of obtaining and integrating basic data in the early stage.

3.2 Blocking of Disciplines

Currently, digital information on ancient villages is relatively scarce. Non-disclosure, inaccuracy have become important obstacles affecting the protection and inheritance of ancient villages, and this is also the key content that we urgently need to solve. The information that each department wants to obtain and collect is inconsistent, so the emphasis in the process of collecting information is different. For example, the surveying and mapping department often ignores folk cultural elements when collecting information on natural environmental elements. The digital protection and inheritance of ancient villages is a fusion between folk culture and natural environment, which involves many disciplines, such as surveying and mapping, architecture, and gardens. Only by strengthening the theoretical and technical exchanges and integration of multiple disciplines can the digital protection of ancient villages be systematically realized. At present, the fragmentation between multiple disciplines has broken the connection between the various elements of the ancient villages in northern Guangxi, making the digital protection and inheritance of the ancient villages stay on the surface.

The digital protection of the ancient village is to re-display the original form of the village through digital technology, so that the audience can reflect the inner spiritual culture of the ancient village (Luo,
In the actual operation of digital protection of ancient villages, we often overemphasize the digitalization of the appearance of the village, but the expression of the connotation of the village is not enough. The digitization of ancient villages without connotation is just cold data, and it is difficult to satisfy the audience's spiritual and cultural needs. Some ancient villages only chose the external form without highlighting the key points, ignoring the cultural elements. In this case, no matter how sophisticated digital products are, traditional rural culture is difficult to spread. The interaction between digital products and the audience is not enough, and the audience cannot experience the cultural atmosphere of the ancient village, which makes digital products unable to convey connotative elements.

4 Exploration of Digital Protection and Inheritance of Ancient Villages

The protection of ancient villages relies on digital technology. This can not only show the material and culture of the village to the outside world, but also attract more protection consciousness of surrounding villages and people. The upgrading and transformation of digital protection and inheritance can enable the material and cultural elements of the ancient village to be displayed more deeply.

4.1 Prioritize the System and Improve Relevant Measures

At present, the digital protection and inheritance of ancient villages is a need for the development of local governments. We should first clarify the system. Local departments can conduct data surveys on the ecological environment, village planning, and cultural landscape of ancient villages. The content of the investigation includes both the physical environment and spiritual culture. Through the formulation of rules and regulations, ancient villages with a good ecological environment, profound historical and cultural heritage, and less modernization are the focus of protection and inheritance. The protection policies and guidance for ancient villages are very important. Relevant departments should issue policies and regulations, formulate effective management measures from top to bottom, and strengthen the management of ancient villages and residential buildings. At the same time, unified and coordinated management and decision-making among various departments, so that policies can be implemented as soon as possible. In addition, strengthen the construction of laws and regulations for the management of ancient villages. Ancient villages can also formulate their own rules and regulations according to their own characteristics to restrict the behavior of the folk houses.

4.2 Planning as a Supplement to Create Characteristic Themes

Reasonable planning is a powerful aid to work smoothly. When planning, we should pay attention to the uniqueness of the ancient villages. It is necessary to adapt measures to local conditions, rationally position, and formulate development plans with ethnic minority characteristics in combination with the local natural environment and socio-economic environment. When preparing the overall plan for the digital protection of ancient villages, it is necessary to combine local socio-
economic development plans, ethnic minority cultural development plans, and local actual production and life to create a theme with the characteristics of ethnic minority villages. With the continuous updating and upgrading of digital technology, especially the wide application of VR technology, their immersive and interactive characteristics can make people feel the natural atmosphere and cultural atmosphere of the ancient village immersively. People can join the scenes of the ancient villages, enhance their interaction with the scenes, and find their own memories and homesickness. The plan should focus on protecting the cultural heritage, natural environment, production and living standards of the ancient ethnic minority villages in northern Guangxi, highlight themes, grasp the characteristics, and create ethnic customs and characteristics with ethnic minorities.

4.3 Strengthen Publicity and Create Peripheral Products

In the Internet age, software development is diverse, and many ancient villages can be displayed and promoted through their own proprietary APP. The audience can browse the photos, videos and explanations of the ancient villages and other background information anytime and anywhere through mobile phones and computers. At the same time, we can also create different types of game links based on the unique culture of different ancient villages in the region, such as singing and dancing of the Zhuang people, festivals of the Dong people, and delicacy of the Miao people. This can also increase the interaction between people and the cultural landscape of the village. In addition, the establishment of a digital museum of ancient villages is also an important measure. Through digital information collection, multimedia virtual scene modeling, network and human-computer interaction and other technical means, the ancient villages are displayed in three-dimensional animation, VR panorama, and audio explanations, so that people can actively experience the pleasant environment and richness of the ancient villages Culture. In addition, we can also extract relevant ethnic elements on the basis of ancient village cultural tourism and digital product development to create digital cultural and creative products with regional characteristics.

5 Conclusion

In the work of digital protection and inheritance of ancient villages, we should uphold the concept of diversified development, and restore the material and cultural resources of ancient villages to the greatest extent. Use modern technology to restore the environment, customs, handicrafts, etc. of the ancient village. Link the various elements of the ancient village, and record and preserve the digital information of the ancient village. In this process, it is necessary to show the ethnic and diverse characteristics of the village, so as to realize the protection of the ancient village culture, and finally make the excellent ethnic traditions recognized by more people and enhance the cohesion of the ethnic culture. As we all know, the digitization of ancient villages is not only the display of protection results, but also the continuous exploration in the later period. The exploration of digital technology and the protection of ancient villages has just started, which needs the hard research and support of generations.
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References


