

Application of Computer Information Technology in Construction Management

Xinyue Liu

Liaoning Jianzhu Vocational College, Liaoyang, 111000

Keywords: computer information technology; construction engineering management; electronic information technology; high and new technology

Abstract: With the development of China's science and technology and economy, the construction industry in the process of urbanization is gradually deficient in the state of urbanization. In this case, the construction industry has played its own industry advantages, and has contributed greatly to the economic development and urbanization of our country. Computer information technology has brought continuous efficiency and convenience to many industries. Therefore, in the contemporary development, many scholars and scientific research units have systematically integrated the management of computer information technology and construction engineering, which provides a more convenient and efficient management mode for the construction management work in China.

1. Introduction

In the present development, China has unlimited development space. In the future, the process of urbanization in China will gradually accelerate, and the construction industry will develop rapidly. However, the current construction management in China still has a significant shortage, which will directly affect the overall operation and development of the construction industry in China, and then affect the prosperity and development of our country's social and economic development. Therefore, in the rapid development of computer information technology, it is essential to pay more attention to the integration of computer information technology and other industries, so that it can create more convenient conditions for the development of other industries. This paper makes a specific analysis of the problem, and puts forward a more targeted optimization strategy for its specific problems. It has practical significance to enrich the work strategy of construction engineering management in China, and has a guiding significance for the application of computer information technology in the construction project management [1].

2. The Importance of Computer Information Technology in the Construction Projects Management in China

As far as the current development situation of our country is concerned, the development of computer information technology is particularly rapid. The application scope of this technology is no longer limited to the traditional computer, electronic information and other related industries, its development is more comprehensive, and the application field is also a variety of. Among them, the most important area of development is China's current construction management. In this industry, it has a very significant role, which can be shown as: (1) the rational application of computer information technology can promote the stability of construction engineering management. In the past construction engineering management, because of the characteristics of the construction industry, the staff can not replace the construction site during the construction process. If the system can not be managed systematically and effectively, it will seriously affect the safety and health of the related staff, but it is a complete application of manpower to it. The management will result in the waste of human resources and the increase of cost input. With the perfect integration of computer information technology, the real-time management of site can be completed without spending too much human resources on the. (2) the quality of construction can be optimized. For the construction industry, the scope of its work is wide and the construction scale is large. In the construction of relevant work, some staff will ignore the work quality in order to improve the work

rate, and bury the hidden danger to the later use of the project and the later support service. It can not only cause the economic loss of the enterprise, but also can be serious. Because of the quality of the project, it can cause damage to the subsequent users and other related hazards. And the use of computer information technology to monitor the staff, can effectively improve the responsibility of the staff, so that it can be strict in the work, strictly control the quality of construction [2].

3. The Application of Computer Information Technology in the Construction Projects Management in China

At present, the related technology of computer information technology applied to construction engineering management in China is still in the early stage of development, and there is not enough maturity in all aspects, and there are still obvious deficiencies in the application process, which seriously affects the actual effect of the effect of [3]. In addition, although foreign countries have already had more advanced research results on this technology, however, the development of our country is different, and there are differences in language and work technology. Therefore, the introduction of its related computer technology has obvious shortcomings, which will restrict the application and development of the existing production technology in our country to a great extent, and have a very negative impact on the development of construction engineering management. Not only that, in the process of application of foreign technology in China, the cost of regular inspection and safety maintenance is also high, which will hinder the economic development of China's construction industry [3].

In the process of development, most of the construction enterprises in our country lack a comprehensive understanding of computer related technology. In the specific work, the understanding of the functions of computer information technology is not fully understood. Their understanding is still in the traditional concept. No computer management has the functions of strengthening organization and coordination, effectively predicting project risks, and monitoring construction progress and situation in real time. Moreover, the manager of the enterprise will avoid the application of this technology in order to control the output cost of the enterprise. Its understanding is one-sided and not deeply aware that the powerful function and function of computer information technology to the construction engineering management industry has consumed more financial resources in the engineering management. Material and human resources have greatly hindered the development of enterprises [4].

Although there are some more foresighted workers in the construction industry in our country, computer information technology is added to their enterprises, but in actual work, the managers still do not have a thorough and thorough understanding of the technology so that the technology can not be used in the actual application of the technology. The results obtained are well applied. Moreover, it relies on the traditional computer related technology to carry out the relevant work application, and the internal soft nail development staff does not have the most advanced software development skills. There is not enough experience for the software development of the system, which leads to the work achievement and quality of the work in the construction. It can not further promote the development and growth of enterprises.

4. The Optimization Measures of Computer Information Technology in the Construction Projects Management in China

The construction industry mainly includes highway, railway, housing construction, municipal engineering and so on. The construction of highway and railway is greatly influenced by weather, geology and construction environment, while housing construction and municipal engineering are mainly influenced by the permit time of construction, the protection of the ecological environment and the characteristics of climate change. In the early period of the actual construction, the two need to carry out a full system investigation and Study on the corresponding construction sites. This process will consume a certain degree of human and material resources. Therefore, the relevant scientific research units and staff in our country should strengthen the functional effect of computer

technology in the construction engineering management, so that it can meet the needs of engineering management to a large extent, and take this as the base point, and strengthen the importance of the relevant construction enterprise managers to the technology. In the functional improvement of the work, we can focus on the following aspects. First, we set up the construction parameters with diversified functions in the engineering information skills, and use high-tech to help enterprises determine the relevant information about the construction environment that is about to be constructed, and carry out the corresponding parameter analysis according to the specific information requirements, so as to protect the construction information. The normal operation of the barrier system. Secondly, strengthen the real time monitoring function, so that it can more accurately and clearly complete the monitoring of the construction site's environment, progress and so on. Finally, optimize the cost of the project and input the calculation function. Because the cost control function is connected with the construction progress of the project, the computer technology can analyze the cost of the cost input of the project in accordance with the standard and the cost needed in the follow-up work in the course of construction and construction progress. It can control the cost of enterprises more efficiently and conveniently, so that enterprises can not be dragged from excessive cost and other factors in development. The effective development and utilization of various functions of computer computing can create a more favorable development environment for the development of China's construction industry. From another point of view, it can also promote the comprehensive development of China's science and technology and economy [5].

In the construction industry, the managers of the enterprises do not have a comprehensive and systematic consideration of the application of new technology in the development of the enterprise, and because some entrepreneurs hold the traditional concept, they have a more obvious distrust of the present technology. We do not attach importance to other ideas, and make it not fully aware of the application of computer technology to the management of construction engineering, and can not accept and improve the new development means of adding the cost to this application. In view of this phenomenon, the relevant national units in our country should carry out the help of the corresponding means and analyze and deepen the concept. The specific methods are as follows: first, the government should strengthen the propaganda of computer information technology, the government should organize relevant scientific and technical staff, and carry out the technical propaganda to various construction enterprises. The introduction of uplift and function enables the high level of its enterprise to further understand the core application of the technology and recognizes the practical benefits of the application to a certain extent. Two, after the publicity work is carried out, a free trial of some functions can be carried out to the enterprise so that the enterprise can have a more specific application in the practical application. The understanding of computer technology can be strengthened and the idea of using this technology can be strengthened on this basis, which will lay a good foundation for the later promotion of the technology. Three is to help enterprises to carry out cost analysis, because some enterprises do not use this technology is mainly due to high cost input. Therefore, in the analysis of the advantages of the enterprise computer technology in the construction engineering management, the relevant staff can give a little emphasis on the cost analysis and analyze the benefits of the technology to the enterprise, and can make clear and orderly arrangement of the benefits that it can bring to the enterprise on this basis. . To enable enterprises to deepen the awareness of the technology, and ultimately to realize the acceptance of the technology, and can actively use it in their own enterprises, so that computer information technology plays a great role in the management of construction engineering [6].

Different from other industries, the construction industry has special process characteristics in the development process. In the construction and bidding work of the enterprise, the quota required in the construction project is very large. Moreover, if the management system used in practice is not simple and convenient, it will aggravate the quota data to a large extent, and then add unnecessary trouble to the work of the related staff members. The construction efficiency is seriously affected. Therefore, in the process of development, the various construction enterprises will pay more attention to the flexibility of the management system and strengthen the attention to the work in their actual work. In the development of the big data age, the more comprehensive information and

data provided by the information system can provide sufficient and effective information for the construction enterprise to analyze the budget work and the construction condition parameters at the early stage of construction. In addition, in the construction management process of construction enterprises, there are many management contents involved, and various factors interact with each other. Therefore, when the computer information technology is applied to the construction management of the enterprise, the comprehensive influence factors should be taken into consideration, and the related data are concretely analyzed and defined, so that its work process is continuously optimized and innovating, creating a more favorable environment and form for the relations and development of the various departments of the work. It is a great role for computer information technology to play a more active role in adapting to the development and application of new and high technology.

In the former construction units, the information transmission is carried out mainly through telephone and mail, which reduces its efficiency to a certain extent, and its working link is more complex, to a certain extent, it has promoted the waste of human resources and economic human resources. To some extent, it may result in information duplication and duplication. Therefore, in the application of information technology, in order to improve the efficiency of the work, strengthen the accuracy of the work and ensure the good state of the work, the data management of the work process should be realized in the application of the computer information technology of the building engineering, so that it can be divided into the assignment of the work task and the division of responsibility of the staff. With more clear indicators, employees can pay more attention to their own work in the actual work, and strengthen the implementation of the work state on the basis of the consciousness. Not only that, the use of information technology in construction enterprises can increase the degree of business mobility, and make its work procedures more perfect.

5. Conclusion

To sum up, the application of computer information technology in the construction engineering management can provide more convenient conditions for the development of the construction industry in China. In view of the development of the construction engineering management industry in China, this paper has carried out a systematic research, and the present existing computer engineering management related technology is not well developed, the building units lack a comprehensive understanding of the application of computer information technology, the engineering management work and the development and application of computer software are not enough. In the first three aspects, some pertinent suggestions are put forward, that is, to strengthen the function of computer information technology in the management of construction engineering, to strengthen the superiority concept of the enterprise to apply the computer information technology to the construction engineering management, to improve the unity of the information system and to improve the data management of the work process. Reason. It is hoped that the research in this paper will play a strong role in promoting the management of construction projects in China, and will promote the harmonious and healthy development of our society.

References

- [1] Khan M K. Application of information technology in construction management [C]// International Conference on Advancement in Computer Engineering and Information Technology. 2016.
- [2] Mao W B. Discussion on the Application of Information Technology in Construction Engineering Management[J]. Architectural knowledge, 2017.
- [3] Wang L Y. Analysis on Application of Information Technology in Construction Engineering Management[J]. Architectural knowledge, 2017.
- [4] Zhang A. Application of Informationized Technology to Construction Management for Prefabricated Bridge[J]. Building Construction, 2018.

- [5] Rong-Zhen L U. Application and Research of Internet Information Technology in Construction Project Management[J]. Management & Technology of Sme, 2017.
- [6] Wu H, Lu X L, Zhao C, et al. On Value of Information Technology Application in Quality Management of Construction Engineering[J]. Building Technology Development, 2017.