

Informatization construction of university financial management in the era of big data

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Abstract: At present, with the development of big data technology, it has been widely used in various fields, and plays an important role and value. The financial management of colleges and universities is mainly to coordinate and arrange the internal affairs of colleges and universities, which plays an important role in the sustainable development of colleges and universities. In this regard, in the era of big data, the financial management of colleges and universities should also strengthen the information construction, through this way to improve the utilization rate of college funds. This paper briefly analyzes the information construction of financial management in colleges and universities in the era of big data, hoping to provide some valuable reference for readers.

Key words: big data era; Universities and colleges; Financial management

1. Analysis of the significance of information construction of financial management in colleges and universities in the era of big data

(1) Promote the reform and optimization of financial management in colleges and universities

In the era of big data, various industries have begun to make extensive use of information technology to improve the core competitiveness of colleges and universities. As an important part of China's education field, it has become inevitable to implement and strengthen information construction in college financial management. Especially with the deepening of financial system reform, the information construction of financial management in colleges is more urgent. Through the organic integration of financial management and information technology, the traditional financial management mode can be optimized and reformed, the effectiveness of financial management can be improved, and the overall development of colleges and universities can be promoted. For example, it can greatly reduce the waste of human and material resources, reduce working time, and improve the effect of financial management.

(2) Improve the quality of financial management in colleges and universities

In the era of big data, information technology plays an important role in various fields and plays an important role. Information technology has greatly changed people's life style and production mode, and brought more convenience to people. Information technology also plays an important role in the financial management of colleges and universities. It integrates information technology, big data technology and other means with financial management to build an information management system, through which staff can share relevant data, make reasonable financial planning and monitor related risks in time. Compared with the traditional financial management work, this information financial management mode is more efficient, convenient and higher quality.

2. Analysis of problems existing in the informatization of financial management in colleges and universities in the era of big data

(1) Lack of awareness of financial management information construction

In the era of big data, the construction of financial management information needs the management personnel of colleges and universities to have a correct cognition of it, and understand and realize the significance of financial management information construction. At present, some administrators in colleges and universities do not realize the significance of financial management information construction, and still attach importance to accounting and neglect management. They unilaterally believe that financial staff only need to do a good job in fund management, and do not need to carry out financial management. This also leads to the fact that some colleges and universities begin to implement financial management information construction. However, they can not give full play to the advantages of financial management informatization.

(2) The integration of financial information is not high

The prerequisite for colleges and universities to carry out financial management information construction is to have powerful hardware equipment and software technology as support. Although some colleges and universities have introduced the information system, they have not integrated the campus data and information effectively. Whether it is personnel management, or teaching and research information, there is a lack of a unified data transmission standard, which leads to the lack of data integration in the construction of financial management information, unable to effectively realize the sharing of data, and can not play the role of risk avoidance and resource allocation optimization.

(3) Lack of unified financial data standards

In the era of big data, the information construction of financial management in colleges and universities does not only establish an information platform, but also needs to collect and analyze the data shared by the platform. At present, there is a lack of unified calculation and processing methods for financial information data in colleges and universities, and there is a lack of effective and convenient communication channels between financial departments and other departments. As a result, data accounting standards cannot be unified in the process of processing related financial data, which seriously affects the efficiency and quality of financial management in colleges and

universities.

(4) It does not pay attention to the security of the sharing platform

Colleges and universities want to strengthen the information construction of financial management, it is necessary to establish and improve the information platform, purchase hardware and software equipment, in order to provide a solid foundation for the information construction of financial management in colleges and universities. As we all know, the creation and development of information technology has brought great convenience to people's life, but at the same time, with the development of information technology, security problems also appear. For example, in the process of sharing data and information, it is very easy to have security problems, such as data loss, data tampering, hacker attacks, etc., which will have a serious impact on the development of colleges and universities. At present, some colleges and universities do not pay attention to and pay attention to network security, nor do they conduct network security training for staff, resulting in staff not encrypting relevant data in the process of participating in financial activities, and the risk level of financial management informatization construction of tutors is too high, which is very easy to cause losses.

(5) The professional quality of financial management personnel in colleges and universities is poor

The financial literacy of the financial management staff in colleges and universities can be said to be beyond doubt. They can comply with relevant laws and regulations in the process of financial management and complete the financial management work in accordance with the provisions. However, in the context of big data, in the process of financial management informatization construction in colleges and universities, financial management staff in colleges and universities not only need to have a strong professional quality of financial management, but also need to have a strong information literacy, in order to meet the needs of financial management informatization construction. However, it is obvious that the current financial management personnel still need to be improved in this aspect.

3. The strategy of college financial management informatization in the era of big data

(1) Correct understanding of big data and innovation of traditional financial management concepts

In the context of the era of big data, it is an inevitable trend for colleges and universities to carry out the construction of financial management information, but if you want to realize the real financial management information, it is not an overnight, but a long process. First of all, college administrators should keep pace with The Times, timely reform their own ideas, realize the important significance and role of financial management information construction, and transform traditional financial accounting into financial management. Secondly, it is necessary to invest greatly in purchasing hardware and software equipment to provide support for the construction of financial management information. Finally, college administrators should establish and improve the financial management information system according to the actual situation, in order to provide guarantee for the financial management information construction.

(2) The construction of college financial management information management platform

In the era of big data, colleges and universities should keep pace with The Times, keep up with the pace of The Times, and make use of the advantages of information technology to optimize and reform the financial management work. Through a series of equipment that colleges and universities should buy, and on this basis, establish an information management platform, in which the relevant data are collected, sorted out and analyzed, in order to provide convenience for financial management work, so that the financial management system and internal accounting work are effectively connected. First of all, colleges and universities should, according to their own actual situation, formulate financial management information mode that meets their own development needs, such as budget, decision-making, etc., in order to achieve the improvement of financial management work effect. Secondly, various financial management work should be detailed. For example, the financial accounting work of colleges and universities needs to collect and analyze a large amount of data, and establish an analysis model on this basis, and integrate each financial data, so as to formulate teaching and scientific research budgets scientifically and reasonably. Through the establishment of financial management information management platform, in order to promote the effective improvement of university financial management work.

(3) Unify data standards to realize information sharing

Relevant data must be collected to implement financial management information construction in colleges and universities. However, in the process of traditional financial management, data collection is mainly manual collection. The data collected in this way not only has some problems in the authenticity of the data, but also is prone to manual errors. Therefore, colleges and universities need to establish a unified collection standard and collection channel in the process of data collection in the process of financial management information construction. In this way, the problem of data transmission errors can be effectively avoided. For example, universities need to set a unified data standard according to their actual situation, so as to lay the foundation for data sharing. Because financial management involves a lot of content, it is also necessary to establish an effective financial communication channel to facilitate effective contact and interaction with other departments. See Table 1-1

Table 1-1 Data entry of reimbursement business

Margin fee information Info Service part The door	Voucher number	Date, days, and method of travel	Travel personnel	...	Items of expenditure	Amount of reimbursement	Name of payee	Payee account	Bank of deposit
Reimbursement person	Entry	Enter	Enter	...	enter	Enter	Enter	Enter	Enter

Reviewer	Share	Share	Share		Share	Share			
Treasury - Accounting Section	Shared	Share	Share		Share	share			
Treasury - Funds Section	Shared				Share	Share	Share	Share	Share

(4) Improve the awareness of financial staff and ensure the security of financial data

In the era of big data, it is an inevitable trend for colleges and universities to carry out financial management information construction. Therefore, in the construction process, it is not only necessary to strengthen the information construction work, but also need to pay attention to the risks in the construction process. For example, data leakage, data tampering and other problems, which need to improve the security and reliability of financial management information construction. In this regard, colleges and universities should: First of all, in the early stage of construction, it is necessary to choose a cloud computing system with high reliability and security, and select a high-quality big data server according to the actual situation and security of big data research and development. In this way, to ensure the smooth realization of financial informatization construction. Secondly, we should make full use of the advantages of cloud computing, strictly prohibit some unknown websites from accessing the application, prevent it from invading the financial system of colleges and universities, and avoid causing certain losses to the financial management of colleges and universities. Finally, it is necessary to strengthen the cognition of financial management staff and enhance their security awareness. The staff should be fully aware of the content and scope of their work, strictly abide by the working principles and standards, and encrypt the relevant data, especially the key data, to prevent these data from being stolen, tampered with and other problems.

(5) Strengthen staff training and improve the information literacy of financial personnel

Colleges and universities want to realize the informatization of financial management, which is closely related to the quality of financial management personnel themselves. If the financial management staff lack the understanding of information construction and do not have a strong information literacy, resulting in their inability to deal with the financial data in the information platform, then the financial management information construction of colleges and universities will only stay on the surface and cannot give full play to the advantages of big data technology, which will seriously affect the overall development of colleges and universities. In this regard, it is necessary for colleges and universities to train financial management staff to strengthen their cognition and improve their information literacy in this way, so that they can participate in the information construction of financial management and improve the effectiveness of financial management work.

Concluding Remarks

In short, under the background of big data era, the construction of financial management information is an inevitable trend, which can not only effectively improve the effect of financial management, but also promote the sustainable development of colleges and universities.

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