Discussion on the Transformation and Development of Financial Management and the Construction of Information System Based on Big Data

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Abstract. The continuous progress of the information age has changed our way of life and work. In the era of big data statistics, the financial model of enterprises has also changed a lot. The content of financial work has an obvious trend of expansion and extension. At the same time, people's demand for information is increasing. People have higher and higher requirements for financial information. Generally speaking, the improvement of big data automation level urges the financial department to carefully observe the business work. In this case, the management department should apply the thinking mode of big data to build the financial management information system. Strive to achieve the transformation and development of enterprise financial management.

Keywords: Big Data, Financial Management, Informational System

1. Introduction

The information technology of big data is characterized by huge amount of data and complex types. In the era of rapid development of data, financial management contains more and more complex data. Traditional financial management can’t satisfy the needs of people. Therefore, the financial management of the industry needs to be reformed and innovated according to people's financial management needs. Improving the financial management information system and building a dynamic financial query system can help people integrate data resources. This kind of working mode can also promote the transformation and development of financial management of enterprises.

The emergence of big data brings about the change and development of traditional information industrialization. Its emergence also promotes the renewal and progress of financial management in various industries[1]. However, due to the fierce competition in the industry, the construction of the information management system of the financial department has become a very challenging task.
2. The current situation of financial information management in enterprises

Financial informatization refers to that the financial department arranges and publishes the financial information within the enterprise by means of informatization. Financial informatization can improve the efficiency of financial work and the utilization rate of funds through certain methods[2]. Despite the rapid progress of financial management in China, there are still many deficiencies.

2.1. The information construction is not timely

Many enterprises have achieved the goal of financial management information construction. However, the construction of financial information needs constant update and progress. The innovation of financial management of enterprises in China is not enough. Its application effect is not ideal. China’s information construction is not timely. People's task in financial management is still very heavy.

2.2. Restrictions on entry of basic information

Social personage is the main component of various industries. At present, many enterprises do not have a personal information management system for social personages. The imperfection of personal information results in the difficulty of personnel management[3]. Enterprises need to waste a lot of manpower and time to count everyone's information. This is an unwise choice. Therefore, the establishment of personal information management system is essential.

Table 1. An investigation on the deficiency of financial management and its main reasons

| Deficiencies               | Main cause                      |
|----------------------------|---------------------------------|
| Poor information sharing   | Poor utilization of resources   |
| Weak policy support        | No scientific management system|
| Weak management function   | The budget is not unified       |

2.3. The professional skills of financial staff are uneven

As an excellent financial manager, we need to have basic professional quality and knowledge. In addition, we should master the corresponding professional technology and information network technology. Only in this way can we satisfy the requirements of continuous updating and development of information technology. Therefore, how to improve the comprehensive quality of financial personnel has become an important issue in the current society.

3. The goal of financial management transformation and development based on big data

3.1. To establish an information system of financial management

In an enterprise, an important function of the financial department is to assist the enterprise to make decisions on financial issues. However, as the saying goes, the establishment of rules is inevitable. In order to establish a perfect financial management information system, it is necessary to build a network information environment and a unified financial information platform. Through the establishment of the corresponding system, financial managers can
effectively improve the level of financial management\cite{4}.

**Table 2.** The construction and function of the overall scheme of financial management

| Five levels of construction | major function                      |
|-----------------------------|-------------------------------------|
| Platform layer              | Sorting out basic data              |
| Financial management        | Comprehensive business of financial management |
| Budget management           | Department budget                   |
| Decision management         | Supervision of the whole system     |
| Service portal layer        | Data query                          |

3.2. To build a dynamic financial inquiry organization

In order to ensure the fast transfer of financial data, the accuracy of summary analysis and financial information between different departments, enterprises should build a multi-level financial query system and corresponding feedback system by means of big data based on establishing information system. This system can enhance the security and accuracy of financial data.

3.3. Strengthen the construction of financial talents in the era of big data information

With the maturity of big data technology, enterprises need to establish the corresponding financial data analysis model to deal with financial affairs. This puts forward higher requirements for the comprehensive quality of financial managers. However, many enterprises do not have perfect financial management talent reserve plan. This situation is very unfavorable for enterprises. Generally speaking, the training of talents is essential in the information age\cite{5}.

4. The necessity of building financial information management system

In the current situation, there are still many problems in the construction of financial information. Therefore, it is necessary to innovate the new mode of financial management. We should learn to use the thinking mode of big data to build a professional system of financial information.

4.1. Advantages of building financial information system

Any management task of an enterprise is inseparable from the guidance and assistance of financial information. The financial department can scientifically build a new financial management system in accordance with the requirements of the new financial accounting system. The effective technical support of the financial department can provide a favorable information base for the leaders of the enterprise. This can reduce the work pressure of leaders and improve their work efficiency. It can enhance the financial risk control mechanism. It can also satisfy the needs of financial systems in different times.

4.2. The improvement of the construction of financial information management system

The effective combination of financial system and other departments can realize the resource
sharing of financial information\cite{6}. This ensures the integrity of the enterprise's assets. In addition, the unity of business and finance can make the financial work more standardized. The seamless connection between finance and business can create a more efficient financial management platform. Resource sharing can help financial staff carefully manage work content, which can improve the health of the financial system.

5. The necessity of transformation and development of enterprise financial management

In the context of big data informatization, the function of financial management has been extended from simple calculation to improve the overall performance of enterprises. This function provides a good opportunity for financial management transformation. Big data technology should not only be limited to improve the level of enterprise information, it should also be able to help enterprise personnel integrate the internal data resources.

In short, the transformation and development of finance can strengthen the informatization construction of financial budget and help enterprises to carry out risk management and control. These two requirements have mastered the lifeblood of the enterprise. It is this innovative transformation and development that realizes the transformation of Finance in the era of big data. It better promotes the stable development of enterprises and improves the business value of enterprises.

6. Conclusion

The era of big data information is full of changes. The update of the times speeds up the pace of financial management. The development of enterprises needs the assistance of financial departments. How to build an excellent financial information system and realize the transformation and development of finance has become an urgent problem for many enterprises.

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