

Research on Current Situation and Innovation Suggestions of Enterprise Management Accounting under Big Data

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Abstract: In the era of big data, enterprise management accounting is facing unprecedented development opportunities and challenges. This paper aims to explore the development trend of enterprise management accounting in the era of big data, analyze the difficulties it faces, and put forward corresponding innovative strategies, in order to provide theoretical guidance and practical reference for the practice of enterprise management accounting.

Keywords: Big Data; Enterprise Management Accounting; Develop

Introduction

In the era of big data, enterprises are faced with the challenge of massive data. How to effectively use these data to support enterprise decision-making has become an important issue facing enterprise management accounting. As an important part of enterprise financial management, the development and innovation of enterprise management accounting is of great significance to enhance the competitiveness of enterprises.

1. Development trend of enterprise management accounting in the era of big data

In the current era of big data, one of the development trends of enterprise management accounting is that data-driven decision-making has gradually become the mainstream. The emergence of this trend is due to the rapid development of information technology. With the wide application of Internet, cloud computing, Internet of Things and other technologies, enterprises can easily obtain massive data resources. These data not only cover the production and operation activities of enterprises, but also include the market environment, customer demand, competitor dynamics and other aspects. Enterprise management accounting uses big data technology to deeply mine, analyze and process these massive data, thus providing strong support for enterprise decision-making ^[1]. Taking the improvement of data collection and analysis capabilities as an example, enterprise management accounting needs to have strong data collection capabilities to obtain valuable data from inside and outside the enterprise. At the same time, it is also necessary to have the data analysis ability to clean, integrate and mine the data to extract valuable information.

2. Current situation of enterprise management accounting in the era of big data

2.1 Data quality and security risks

In the era of big data, the amount of data that enterprise management accounting relies on has exploded, which makes data quality a problem that cannot be ignored. First, the diversity of data sources leads to uneven data quality. Businesses may obtain data from multiple sources, such as internal systems, external vendors, social media, etc., which can vary widely in format, accuracy, and completeness. Secondly, the difficulty of data cleaning and integration increases, because of the diversity of data formats and structures, enterprises need to invest a lot of resources for data cleaning and integration to ensure the accuracy of data. In addition, data security risks are becoming increasingly prominent. In the big data environment, data leakage, tampering and abuse occur frequently, which brings huge economic losses and reputational risks to enterprises.

2.2 Insufficient ability of accounting talents

The era of big data has put forward higher requirements for enterprise management accounting talents. However, current accounting talents are deficient in data analysis, information technology and business insight. First of all, the traditional accounting education system

often focuses on accounting theory and practical operation, and the training of data analysis skills is relatively insufficient. This makes it difficult for many accountants to carry out data analysis and decision support effectively in the face of massive data. Secondly, accounting personnel have a limited grasp of big data technology, which makes it difficult to apply big data technology to practical work. Accounting personnel also have shortcomings in interdisciplinary knowledge integration and innovation ability, which makes it difficult to adapt to the development needs of enterprise management accounting in the era of big data.

2.3 Disconnect between accounting theory and practice

In the era of big data, the disconnect between accounting theory and practice has become increasingly apparent. On the one hand, accounting theory is unable to cope with new problems and challenges in the environment of big data^[2]. For example, in data analysis and decision support, traditional accounting theory is difficult to provide effective guidance. On the other hand, the problems of data processing, analysis methods and decision support faced by enterprise management accounting in practical work often require innovative solutions. However, the existing accounting theory has some shortcomings in the aspects of innovation, prospectivity and practicability, which leads to a large gap between accounting theory and practice. This disconnect not only affects the efficiency and quality of enterprise management accounting, but also restricts the competitiveness of enterprises in the era of big data.

3. Innovative strategies of enterprise management accounting in the era of big data

3.1 Build a big data-driven accounting information system

Big data-driven accounting information system can provide enterprises with more comprehensive and real-time financial data. By collecting, integrating and analyzing massive data, enterprises can grasp the financial situation in real time, discover potential risks and problems in time, and take appropriate measures to prevent and solve them. In addition, the accounting information system driven by big data helps to improve the refinement of enterprise financial management. Through in-depth mining and analysis of financial data, enterprises can optimize resource allocation, reduce costs and improve operational efficiency. Refined financial management can also provide enterprises with more accurate financial forecasting and decision support. In addition, the accounting information system driven by big data helps to improve the risk prevention and control ability of enterprises. Through the analysis of historical data, enterprises can identify potential risk factors and take corresponding measures to prevent them. Big data technology can also help enterprises realize risk early warning and dynamic monitoring to ensure the financial security of enterprises.

3.2 Cultivate composite accounting talents

First of all, enterprise management accountants need to be familiar with emerging technologies such as big data and cloud computing. These technologies can not only help enterprises realize the rapid collection, storage and processing of data, but also bring revolutionary changes to the accounting information system. By applying big data, cloud computing and other technologies to accounting information systems, enterprise management accounting talents can greatly improve work efficiency, reduce costs, and create more value for enterprises. Secondly, enterprise management accounting talents need to have a certain degree of economics, management, statistics and other interdisciplinary knowledge. This knowledge can help them analyze problems from multiple perspectives and provide comprehensive solutions for enterprises^[3]. For example, when analyzing the financial situation of enterprises, they can apply economic principles to evaluate the profitability and market competitiveness of enterprises. When formulating enterprise development strategy, they can apply management knowledge to optimize enterprise organization structure and improve management efficiency; When predicting market trends, they can use statistical methods to provide enterprises with accurate market analysis reports.

3.3 Strengthen technological innovation

In the current information age, if enterprises want to be invincible in the fierce market competition, they must keep up with the pace of scientific and technological development. Therefore, enterprises should increase the R&D investment of cutting-edge technologies such as

big data and artificial intelligence, so as to promote the innovation and development of enterprise management accounting. The application of big data technology can help enterprises realize the deep mining and analysis of data resources, and provide strong support for enterprise decision-making. By collecting, collating and analyzing a large amount of internal and external data, enterprises can have a more comprehensive understanding of market dynamics, customer needs and their own operating conditions, so as to formulate a more scientific and reasonable business strategy. The application of artificial intelligence technology can greatly improve the efficiency of enterprise management accounting. For example, through artificial intelligence algorithms, enterprises can achieve automated bookkeeping, automatic generation of financial statements and other functions, reducing the work burden of accountants and improving work efficiency. At the same time, artificial intelligence can also help enterprises achieve risk early warning, cost control and other goals, and create more value for enterprises.

Conclusion

In the era of big data, enterprise management accounting is facing unprecedented opportunities and challenges. Through innovation and exploration, enterprise management accounting can provide more accurate decision support for enterprises and improve the competitiveness of enterprises. Enterprises should seize the opportunity of the era of big data, strengthen innovation, and promote the sustainable development of enterprise management accounting.

References

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