Discussion on Information Audit in the Era of Big Data

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Keywords: Big data; Information audit; Audit quality.

Abstract. Nowadays, with the continuous progress of information technology, data has become an important resource besides talents. Big data and information technology have a great impact on all aspects of people's work and life. Audit work is no exception, such as audit environment, audit procedures and audit methods have changed. In this context, how to use big data and information technology to audit and improve audit quality has posed new challenges to auditors. On the basis of introducing the concepts of big data and information-based audit and the influencing factors of audit quality, this paper analyses the impact of information-based audit on audit quality in the era of big data, and puts forward relevant suggestions on how to improve audit quality in the era of big data, with a view to providing reference for improving the overall quality of audit work in an all-round way.

Introduction

The development of information technology has promoted our audit work in the construction of information audit that has made great achievements. With the emergence of the concept of big data, big data and information technology have attracted more and more attention, and have increasingly affected people's work and life. During the 13th Five-Year Plan period, our country has put big data into the strategic perspective. Data has become a national basic strategic resource that receives great attention, and big data strategy has also been implemented in national audit.

Related Concepts

Firstly, big data. It is believed that "big data" is an information asset and a super data set which is beyond the control of traditional computer technology and computer equipment. It comes into being with the development of computer and network technology. It has the characteristics of high speed, scale, diversity, value and authenticity. This technology has brought about tremendous changes, whether in the data, storage data or analysis of mining data and other aspects, are incomparable with traditional database software. Big data audit is based on various types of large data obtained, using a variety of data mining technology to complete the centralized analysis of data, doubts detection and decentralized verification.

Secondly, information audit. The so-called information audit refers to the audit business needs as the core, based on cloud computing and the concept of large data, information technology and audit activities will be integrated, using a service-oriented architecture, comprehensive application of various technologies to mass and multi-type data for rapid acquisition, dynamic processing, in-depth mining and real-time analysis, in order to achieve Audit work and audit management are all information-based.

Influencing Factors of Audit Quality

The origin of the research on audit quality of Certified Public Accountants is early. Based on the research on the influencing factors of audit quality in recent years, it is found that factors such as audit market concentration, organization form and change of accounting firms, audit fees, risk bearing level of companies, term of office of auditors, professional competence of auditors and
audit independence have certain influence on audit quality. However, for the relationship between these factors and audit quality, some scholars have reached the opposite conclusion. Relevant research conclusion is that when the legal liability of CPA changes from limited liability system to unlimited liability system, the audit quality of auditors cannot be changed positively. The premise of this conclusion is that the buyer in the audit market has strong market power, while some opinions are different. It is believed that the organizational form of CPA firms has certain influence on audit quality. Moreover, accounting firms should be more inclined to choose special general partnership as the ultimate goal of the firm's organizational form.

Due to the development of information technology in recent years, some scholars also focus on the impact of information-based audit construction on audit quality. On this basis, this paper analyses the impact of the development of information-based audit on audit quality in the era of big data, and how auditors can further improve audit quality in this environment.

Influences of Information Audit on Audit Quality in the Big Data Ages

Firstly, information audit can effectively reduce inspection risk. The traditional manual audit is that auditors use sampling method to extract relevant content from a large number of data for review and verification. It is not only inefficient but also prone to calculation errors and lead to "partial generalization" phenomenon, which is difficult to ensure the effectiveness of audit work. In the era of big data, auditors can actively apply Internet technology to achieve the innovation of audit work, and make a systematic and comprehensive analysis of all the data of the auditee to find out the existing errors and risks. This audit method makes the auditing object more complete and comprehensive, so as to avoid the occurrence of the "partial generalization" problem. Moreover, auditors can analyze the problems behind the previously undiscovered database through the comprehensive system data, so it can effectively reduce the risk of audit inspection and improve the audit quality.

Secondly, information audit can enrich audit methods. In the era of big data, with the development of cloud technology and the development and application of information audit related software, the methods of audit work are more diverse. In the audit work, auditors can use cloud technology and various information system software to quickly process the basic auditing data of audit units, and make comprehensive statistical analysis. At the same time, computer programming can be used to monitor the key links of all businesses of enterprises, focusing on checking suspicious links. Auditors can also calculate and summarize all kinds of financial data of the audited units and analyze the audit links that need special attention according to the tips of the audit software. In the mode of information audit, auditors can use information technology to design more diversified audit methods, so as to improve the efficiency of audit.

Finally, information audit can effectively predict and control risks. At present, the traditional audit model has been unable to meet the needs of the development of The Times. Facing the unpredictable market environment, it is necessary to fully understand the value of audit management, give play to the significance of audit prevention and control, and minimize the adverse problems or risk incidence in enterprise management. In the era of big data, it is feasible to analyze the past and predict the future through the audit analysis of all enterprise data. Through professional analysis, comparison and prediction of all the data, relevant personnel can have a comprehensive understanding of the existing problems in the current enterprise development, such as potential risks and control loopholes, so as to provide more targeted Suggestions for enterprise decision makers to carry out prevention and control risk.

Suggestions on Improving Audit Quality in the Era of Big Data

Firstly, improve the construction of information audit system. Different regions in China have different levels of development and informatization popularization, so the actual implementation of informatization audit is also different, and the audit software on the market is also diversified. In order to standardize the content of audit inspection, improve the operability of audit practice, reduce
audit risks and improve audit quality, enterprises, industries and countries should gradually improve the information audit system and form an information audit standards and management system with Chinese characteristics. In addition, we should also clarify some reward and punishment systems in auditing work. Only by improving the system can we ensure that the audit work is carried out in a standard and reasonable way, and the auditors can make better use of information means to carry out efficient audit work and provide higher quality audit reports.

Secondly, make full use of information technology to build the audit platform. Due to the high cost of platform development, the industry should take the lead in organizing the construction of the audit platform. It can not only enable firms to use information audit technology to deal with risks, but also reduce the cost of each firm. Cloud computing can complete the processing and storage services of big data. At present, baidu, tencent, Google, IBM and others can provide cloud computing services, and with the development of information technology, the price of cloud computing services will be lower and lower. Moreover, since these cloud computing suppliers are generally giants in the information technology industry, they are far more capable of maintaining data security than accounting firms. With the help and guidance of these cloud computing providers and industry associations, it is the key to make full use of information technology to build an interconnected cloud audit platform.

Thirdly, constantly strengthen the construction of audit talent team. In order to improve audit quality through information technology, talent demand is essential. Pay attention to the introduction of information technology talents, optimize the audit team knowledge structure, to enable auditors not only to be familiar with audit standards, with rich professional knowledge, professional skills, but also to master computer knowledge, information technology, can be skilled in data processing, and master the data management technology; We should strengthen the training of auditors, and formulate a medium - and long-term training plan according to our own business development and risk management requirements, so as to make audit training more systematic, standardized and practical. In order to meet the needs of information development, a layered training mechanism should be established to provide targeted training for different audit projects, business areas and different audit management levels.

In addition, auditors should change traditional concepts and establish informationized audit thinking to adapt to the era of big data. Only by changing their way of thinking can auditors adapt to, understand and accept the deep impact of big data on audit work, so as to make good use of big data and improve audit quality. Auditors should also establish the concept of lifelong learning, strengthen professional ethics, so as to meet the needs of the development of information audit.

Finally, pay attention to information audit evaluation, improve the audit process. In the era of big data, modern information audit has put forward higher requirements for auditors. In the process of audit work, we should pay attention to the evaluation of information audit, continuously improve the audit process: first of all, based on the requirement of the audit, we should specify the content and scope of the audit, and then choose the relevant evaluation index according to the content of the audit, based on the evaluation index, the related appraisal system, such as management system, pay attention to the value of information feedback, step by step to carry out the audit work. In short, it is necessary to fully recognize the important value of audit work, and actively use various modern information technology means to improve the quality of audit.

Summary

In summary, although information audit in the era of big data has brought some technical challenges to auditors’ auditing work, it has a great positive effect on the improvement of audit quality. Enterprises or accounting firms can make full use of information technology to build an audit platform, improve the quality of audit work and strengthen personnel training, constantly promote the construction of audit team, pay attention to the evaluation of audit informatization, and improve the audit workflow, so as to give full play to the value of audit work and sort out all kinds of financial data, to minimize the incidence of various types of adverse problems, so as to improve the quality of audit.
Acknowledgement

This paper is the stage research result of the project "Information Auditing Research in the Age of Big Data - Taking M Accounting Firm of Shandong Province as an example" (No. 2017YB02) of the Youth Research Project of Shandong Women's university in 2017.

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